SUS



SF 2010 - 2011

Standard Frame Series



SUS

SF Standard Frame Series Catalogue

NEW VARIATION

SF2 series





Japan Quality, Made in Thailand.

Engineering Support & Affordable price



SUS (Thailand) Co., Ltd.
299 Moo 10, T.Banthi, A.Muang, Lamphun 51180 THAILAND
Tel : +66-(0)53-569999 Fax : +66-(0)53-569950~1

From Thailand to Asian Region.

Besides factories in Japan,
SUS also has factories in Thailand,
We are covering Asian region from
Thailand with Japanese quality standard.



Standard Units Supply (Thailand) Co., Ltd.







57/6 Moo 4, T.Banklang, A.Muang Lamphun 51000 THAILAND
Tel : +66-(0)53-552382, +66-(0)53-552396~8 Fax : +66-(0)53-552399~400

System Upgrade Solution BKK Co., Ltd.







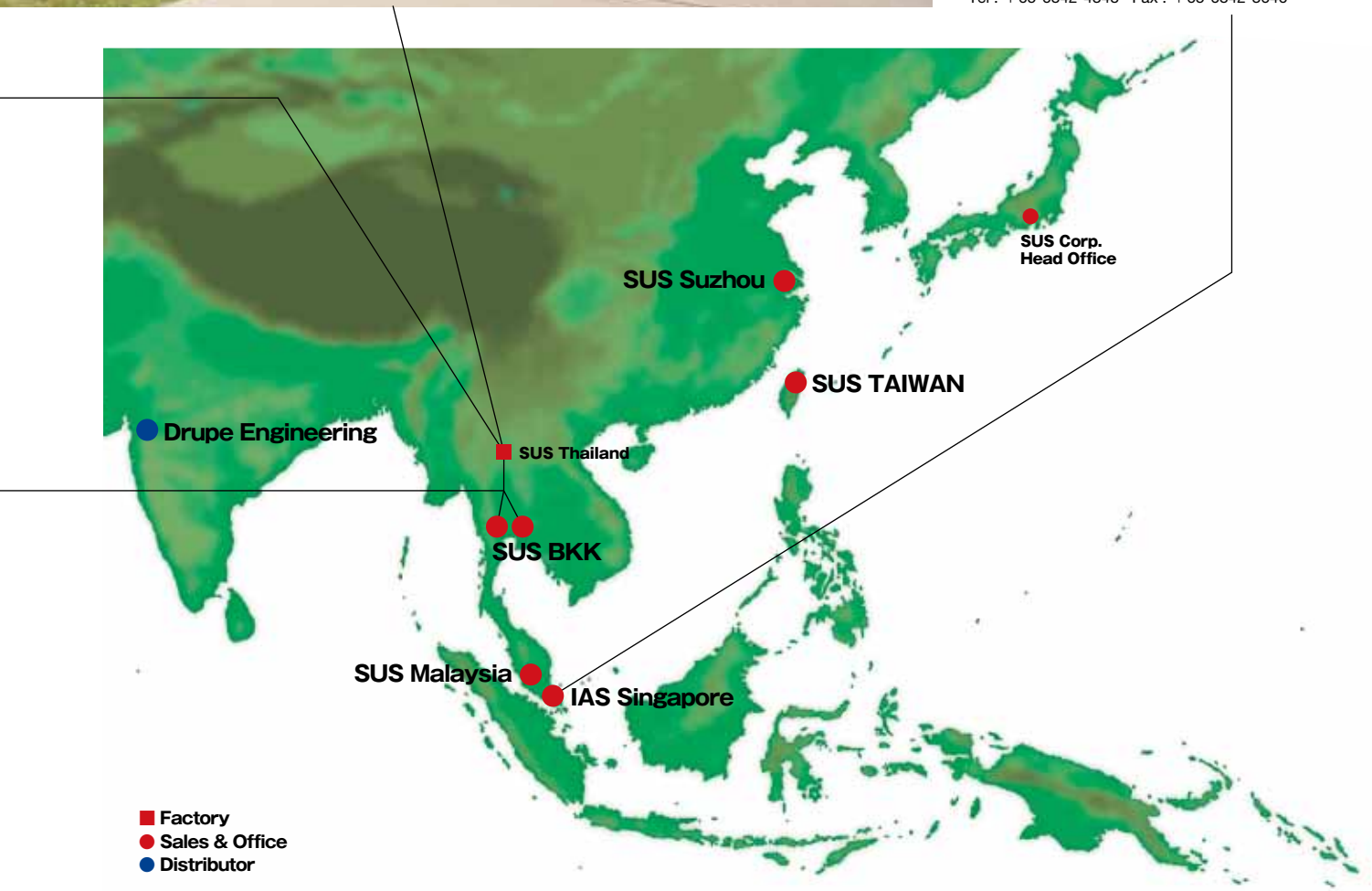
Head office, Amata Nakorn Factory, Amata Nakorn Sales Branch
Amata Nakorn Industrial Estate 700/71 Moo 5, T. Klongtamru A. Muang,
Chonburi 20000 THAILAND
Tel : +66-(0)38-457069 Fax : +66-(0)38-457072



Intelligent Actuators Systems Singapore Pte. Ltd.



19 Tannery Road 347730 SINGAPORE
Tel : +65-6842-4348 Fax : +65-6842-3646

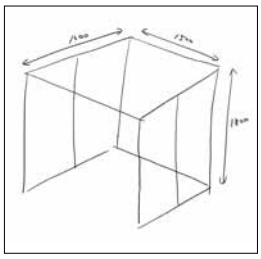


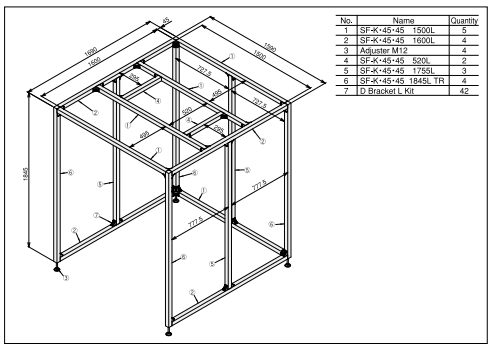


CAD Drawing Service

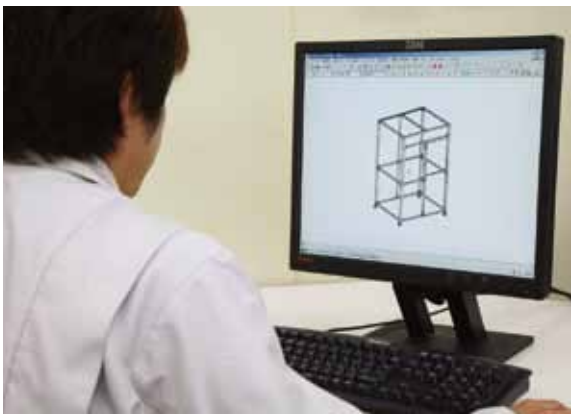
Asia This sign shows the product is designed for Asia region only

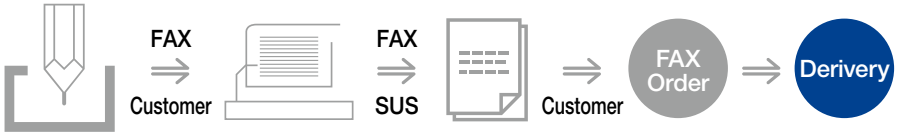
SUS will subsidies structure designing for customers.
Just show structure specifications to us. We prepare detailed specification by CAD drawings.
Customers don't need to waste time for choosing parts and components for structures.





No.	Name	Quantity
1	SF-K-45-45 1500L	5
2	SF-K-45-45 1600L	4
3	Adjuster M12	4
4	SF-K-45-45 520L	2
5	SF-K-45-45 1755L	3
6	SF-K-45-45 1845L TR	4
7	D Bracket L Kit	42





Please draw freehand shape and dimensions as you desire.

SUS will make the drawing and the quotation, and fax to the customer.

If you confirmed them, you can order by the quotation number.



Assembly Service

Assembly Service is available.
We will also deliver as completed structure to customer factory site.
As for detail, Please contact local sales offices.











Asian regional business service list

Country	Sales support	Products stock
Thailand	**System Upgrade Solution BKK Co., Ltd.** ・Head office, Amata Nakorn Factory, Amata Nakorn Sales Branch Tel. +66-(0)3845-7069～71, Fax. +66-(0)3845-7072 ・Rangsit Sales Branch Tel. +66-(0)2516-2747～9, Fax. +66-(0)2516-4388 ・Lamphun Sales Branch Tel.&Fax. +66-(0)5355-2769	SF/GF Frame parts Panel, Special order parts
Vietnam		
Singapore	**Intelligent Actuators Systems Singapore Pte. Ltd.** Tel. +65-6842-4348, Fax. +65-6842-3646	SF/GF Frame parts
China	**SUS (Suzhou) Co., Ltd.** Tel. +86-(0)512-87173336, Fax. +86-(0)512-87173339	SF/GF Frame parts
Taiwan	**SUS Taiwan Corporation** Tel. +886-(0)2-2517-3229, Fax. +886-(0)2-2517-7257	SF/GF Frame parts
Malaysia	**Standard Units Supply (Malaysia) Sdn. Bhd.** Tel. +60-(0)3-7875-8696, Fax. +60-(0)3-7875-8703	None
India	**Drupe Engineering Pvt. Ltd.（Distributor）** Tel. +91-22-2741-1922, Fax. +91-22-2741-1933	SF/GF Frame parts



CAD service	Assembly service	Contact	Payment terms
○ The locale	○	Direct sale of SUS BKK	THB Local Term
○ The locale	○	Direct sale of IASS	SGD Local Term
○	○	Direct sale of SUS(S)	RMB Local Term
○	○	ALTEKS (agency)	NTD Local Term
○	△ Being prepared	Direct sale of SUS(M)	MYR Local Term
○ The locale	○	DRUPE Engineering (agency)	INR Local Term



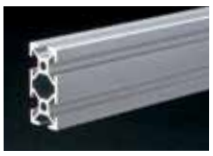
SF 20 Series

Aluminum Component

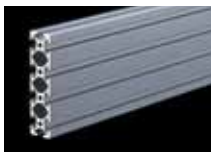
For small covering and fixing sensor, etc
*Groove Width **6**㎜ Nut Below **M5***

Frame

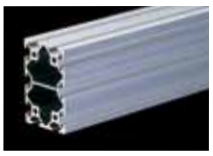

SF-20·20 P24


SF-20·40 P24

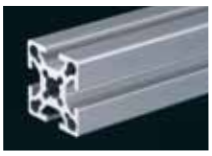

SF-20·60 P25


SF-20·80 P25


SF-40·40·2S P25


SF-40·60·SS P25

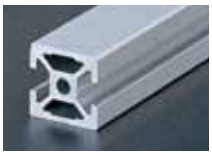

SF-40·80·SS P25


SF-25·25 P26

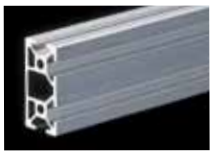

SF-20·20·1F P26

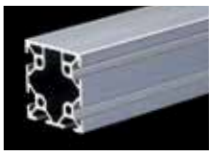

SF-20·20·2F P26

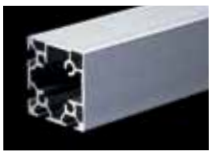

SF-20·20·3F P27


SF-20·20·2H P27


SF-20·20·R P27


SF-20·40·1F P27


SF-40·40·2S·1F P28


SF-40·40·2S·2F P28


SF-20·40·40 P28


SF-20·DE45 P29


SF-20·DE30 P29


SF-20·DE60 P29

Nut (for 20 Series)


T Nut SS P30
Anti-Skid Cap SS

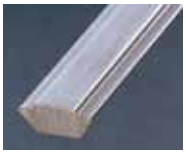

Easy Nut SS P30


After Nut SS P31
After Nut Support SS


Lock Nut SS P31


S Free Nut SS P31


Joint Bar SS120 P31


T Nut SS Material P31
After Nut SS Material

Bracket (for 20 Series)


D Bracket SS Electroless nickel P32


D Bracket Spacer SS P32

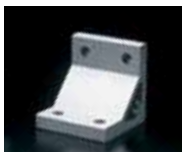

D Bracket 2040 Electroless nickel P32


Hard Bracket SS P33


Hard Bracket SSG P33

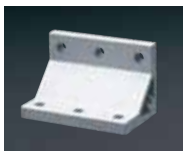

Hard Bracket SSW2020 P33


Hard Bracket SS2040 P34


Hard Bracket SSG2040 P34


Hard Bracket SSW2040 P34


Hard Bracket SS2060 P35

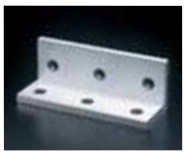

Hard Bracket SSG2060 P35


Hard Bracket SSW2060 P35

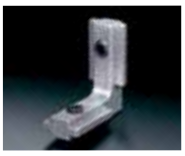

Angle Bracket SS P36


Angle Bracket Hard SS P36


Angle Bracket SS2040 P36


Angle Bracket SS2060 P36


QC Joint SS P37


S Blind Bracket SS P38


Block Bracket SS Kit P38


Corner Block SS Kit P38


R Bracket SS Kit P38


Tapping Bolt SS P39


Torque Bit T25 P39


Torque Driver T25 P39


Plate Bracket P40


Hard Bracket SS·DE135 P41


Hard Bracket SS·DE45 P41


Hard Bracket SS2040·DE135 P41


Hard Bracket SS2040·DE45 P41


Truss Joint SS Truss Cap SS P41


Turn Bracket 20 P42

Parts (for 20 Series)


Adjuster Kit P43


Foot Base P44


Caster Plate SS P44


Frame Cap P45


Hard Bracket Cap P45


Slot Cap SS P46


Slot Seal SS P46


Cover Holder SS P47
Cover Support SS


Cable Clamp SS P48
Slot Hook SS

Slot Roller SS P48

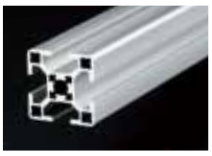
SF Aluminum Component 30 Series

For medium cover or conveyer frame
*Groove Width **8**mm Nut Below **M6***

Frame


SF2-30·30 P50

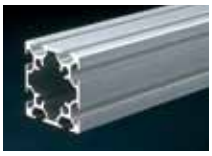

SF2-30·60 P50


SF-K·30·30 P51


SF-K·30·60 P51


SF-30·90 P51


SF-30·120 P51


SF-60·60·2S P52


SF-60·90 P52


SF-60·120 P52


SF2-30·30·1F P53


SF2-30·30·2F P53


SF2-30·30·3F P53

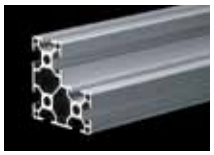

SF2-30·30·2H P53


SF2-30·60·1F P54


SF2-30·60·2H P54


SF-60·60·2S·1F P54


SF-60·60·2S·2F P54


SF-30·60·60 P55


SF-30·30·R P55


SF-30·DE45 P56


SF-30·DE30 P56

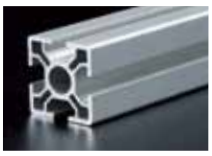

SF-30·DE60 P56

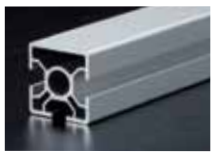

SF-50·50·2S P57


SF-50·100·2S P57


SF-50·50·2S·1F P57


SF-50·50·2S·2F P57

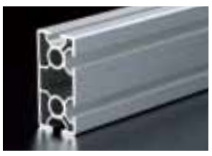

SF-35·35 P58


SF-35·35·1F P58


SF-35·35·2F P58

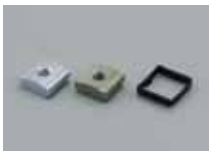

SF-35·35·2H P58


SF-35·70 P59


SF-35·70·1F P59


SF-35·70·2F P59

Nut (for 30 Series)



T Nut S
Anti Sliding Cap S
P60



Easy Nut SS P60



After Nut S P61
After Nut Support S



Lock Nut S P61



S Free Nut S P61
Plastic Nut S



Joint Bar S140 P62



T Nut S Material P62
After Nut S Material



Free Nut with Headless Bolt S P62
Free Stud S
Free Nut Stopper S



Double Round Nut S30 P62

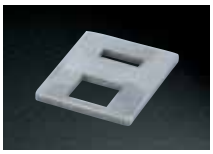


S Double Joint 30 P62

Bracket (for 30 Series)



D Bracket S
Electroless Nickel P63



D Bracket Spacer S P63



D Bracket 3060 P63



D Bracket S3060 P63



Hard Bracket S P64



Hard Bracket SG P64



Hard Bracket SW3030 P64



Hard Bracket S3060 P65



Hard Bracket SG3060 P65



Hard Bracket SW3060 P65



Hard Bracket S3090 P66



Hard Bracket SG3090 P66



Hard Bracket SW3090 P66



Hard Bracket S50 P66



Hard Bracket SG50 P66



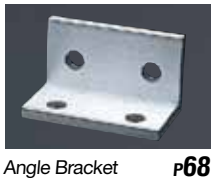
Angle Bracket S P67



Angle Bracket Hard S P67



Angle Bracket S3060 P67



Angle Bracket S50 P68



Angle Bracket S3090 P68



QC Joint S P69



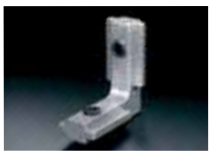
TG Joint Kit 30 P70
Wrench Hole Cap



S Double Joint Kit 30 P70

SF Aluminum Component 30 Series

For medium cover or conveyer frame
*Groove Width **8mm** Nut Below **M6***


S Blind Bracket S P71


Block Bracket S Kit P71


Corner Block S Kit P71


R Bracket S Kit P71


Tapping Bolt S P72


Torque Bit T40 P72


Torque Driver T40 P72


Plate Bracket S P73


L Bracket S(Stainless) P74


Hard Bracket S·DE135
Hard Bracket S·DE45 P74


Hard Bracket S3060·DE135
Hard Bracket S3060·DE45 P74


Truss Joint S
Truss Cap S P75


Turn Bracket 30A
Turn Bracket 30B P75


Bend Bracket S P76

Parts (for 30 Series)

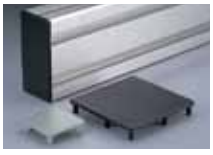

Adjuster Kit P77

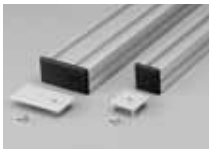

Foot Base P78


Anchor Bracket P79


Anchor Plate 60602S
Anchor Plate Bracket P79


Caster Plate S P79


Frame Cap P80


Frame Cap
Lock Type P81


D Bracket Cap S
Hard Bracket Cap P81


Slot Cap S P81


Slot Seal S P81


Cover Holder S
Cover Support S P82


Cable Clamp S P82


Slot Hook S P82


Slider S P83


Slot Roller S P83

SF Aluminum Component 40·45 Series

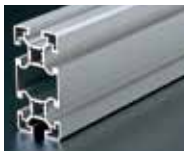
For rack frame or large covering
Groove Width **10**mm Nut Below **M8**

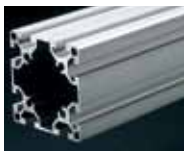
Frame


SF2-40·40 P**86**


SF2-40·80 P**86**


SF-K·40·40 P**87**


SF-K·40·80 P**87**

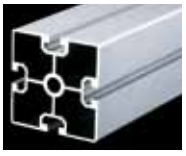

SF-80·80 P**87**


SF-80·80·H P**87**


SF-40·160 P**88**


SF-80·160 P**88**


SF-60·60·1S P**88**


SF-80·80·1S P**88**

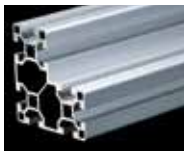

SF2-40·40·1F P**89**


SF2-40·40·2F P**89**


SF2-40·40·3F P**89**


SF2-40·40·2H P**89**


SF2-40·80·1F P**89**


SF-40·80·80 P**90**


SF-40·40·R P**90**


SF-40·DE45 P**91**


SF-40·DE30 P**91**


SF-40·DE60 P**91**


SF2-45·45 P**92**


SF2-45·90 P**92**


SF-K·45·45 P**93**


SF-K·45·90 P**93**


SF-90·90 P**93**


SF-90·90·H P**93**


SF2-45·45·1F P**94**


SF2-45·45·2F P**94**


SF2-45·45·3F P**94**


SF2-45·45·2H P**94**


SF-K·45·45·1F P**95**

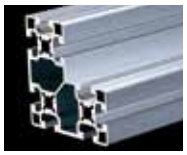

SF-K·45·45·2F P**95**


SF2-45·90·1F P**95**


SF-45·45·R P**95**


SF-45·180 P**96**


SF-90·180 P**96**


SF-45·90·90 P**96**


SF-45·DE45 P**97**


SF-45·DE30 P**97**

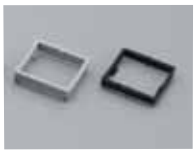

SF-45·DE60 P**97**

SF Aluminum Component 40·45 Series

For rack frame or large covering
Groove Width 10㎜ Nut Below M8

Nut (for 40·45 Series)


T Nut L P98


Anti-Skid Cap L P98


Easy Nut L P98


After Nut L P99
After Nut Support L


Lock Nut L P99

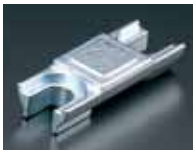

S Free Nut L P100


Joint Bar L200 P99

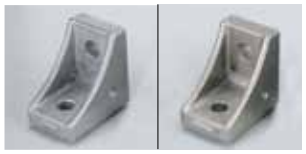

T Nut L Material P99
After Nut L Material


Free Nut with Headless Bolt L Free Stud L P100
Free Nut Stopper L


Double Round Lock Nut L40/L45 P100


S Double Joint 40/45 P100

Bracket (for 40·45 Series)


D Bracket L Electroless nickel P101

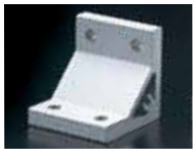

D Bracket Spacer L P101

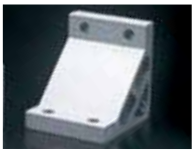

D Bracket 4080/4590 Electroless nickel P101


Hard Bracket L P102


Hard Bracket LG P102


Hard Bracket LW P102

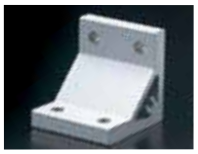

Hard Bracket L4080 P103


Hard Bracket G80 P103

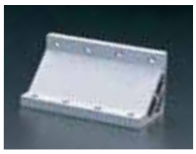

Hard Bracket G80160 P103


Hard Bracket LW4080 P104


Hard Bracket GW80 P104


Hard Bracket L4590 P105


Hard Bracket G90 P105


Hard Bracket G90180 P105


Hard Bracket LW4590 P106


Hard Bracket GW90 P106


Angle Bracket L40 P107


Angle Bracket Hard L40 P107


Angle Bracket L4080 P107


Angle Bracket L45 P108


Angle Bracket Hard L45 P108


Angle Bracket L4590 P108


L Bracket L P109

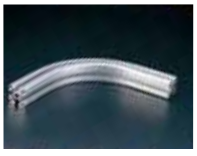

Hard Bracket L·DE135/45 P109


Hard Bracket L4080·DE135/45 P109


Hard Bracket L4590·DE135/45 P110


Truss Joint L40/45 P110
Truss Cap L


Turn Bracket 40/45A·B P111


Bend Bracket L40 P112

QC Joint L P113

TG Joint Kit P114
Wrench Hole Cap

S Double Joint Kit P114

S Blind Bracket L P115


R Bracket L40 Kit P115
R Bracket L45 Kit


Tapping Bolt L40 P116


Torque Bit T40 P116


Torque Driver T40 P116


Plate Bracket L P117~118

Parts (for 40·45 Series)


Adjuster Kit P119


Caster Plate L P112


Foot Base P120


Anchor Bracket P121


Anchor Plate P121
Anchor Plate Bracket


Frame Cap P122


Frame Cap P123
Lock Type 4040/4545

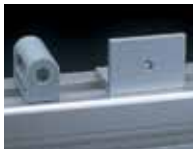

D Bracket Cap L P123
Hard Bracket Cap


Slot Cap L P124


Slot Seal L P124


Cable Clamp L P125


Slot Hook L P125


Cover Holder L P125
Cover Support L6


Slider L P126


Slot Roller L40/L45 P126

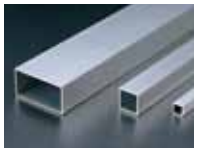
SF Aluminum Component / Complex Parts


Flat Bar P128


Angle P129


Channel P130


Panel Guard P130


Square P131


Panel Guard T3 P131


UF P132


SF Light 15·15 P133


SF Light 30·30 P133


SF Light 45·45 P133


Adjuster·Foot·Caster P134~136
Castter Plate as Single Item


Caster Pad P135


Duct Cover P137~138


Duct Clip kit P138

SF Aluminum Component

Convenient items for hinged door, sliding door or fixed panel, etc

Door Panel


Fixed Hinge P140


Slip-Joint Hinge P141
Electroless Nickel/Acrylic Paint


Free Hinge P142~143
Free Size Free Hinge


Door Lock P144


Pull P145


Magnet Catch P146~148
N/J


Magnet Catch G P149


Magnet Catch P150~152
with Limit Switch


Magnet Catch G P153
with Limit Switch


Safty Instrument P154~164


Clean Fan Unit P166~169


Ball Catch P170


Panel Fix P172~173
Panel Fix Rubber


Panel Clamp P172~173


Seal Cover P172~173

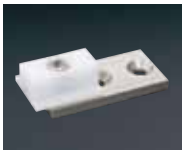

Panel Frame SS P174


Sliding Door Rail P176~177
(Resin)


Sliding Door Rail P176~177
2 Rows·3 Rows(Aluminum)

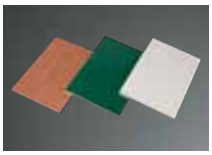

Sliding Door Frame P178
Panel Joint Kit


Rail Guide Kit P178
Sliding Door Wheel


Folding Door Slider P179


Magnet Catch for Folding Door P180


Magnet Catch with Limit Switch P180
for Folding Door


Wooden Board P182


Resin Panel P182

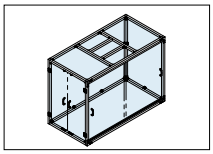

Anti-Static·Partition Sheet P183
Plate to fix Sheet


Steel Plate Panel P183

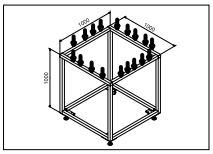
SF Aluminum Component

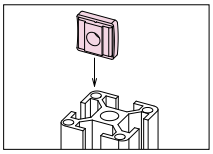
To support customers to design and assemble

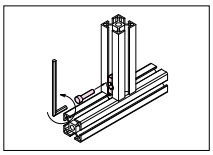
Technical Data

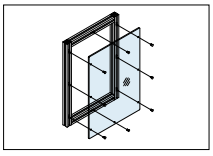

Standard Unit Type· P187~191
Example of Free unit

DATA
Aluminum Material Data P192~

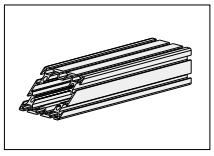

Indication of Allowable Load P194~195


How to use Nut P197


How to use Bracket P198


How to install P204~205
Resin Panel

Q&A
Aluminum Frame Q & A P206


Frame Processing Chart P208



Standard Frame

SF is best suited for machine table or clean booth, and is very effective as components with the flexibility and recyclability. Also, the price setting is reasonable, with overturning the existing idea which says“Aluminum component is expensive” . (SF corresponds to design support service and assembly shipment.)

SF Standard Frame

Total support from CAD design, arrangement to assembly shipment

To construct the aluminum component system, SUS is conducting "Assembly Shipment" and "Free Unit Quotation Service" which we draw up cubic diagram and parts table to estimate the cost based on customer's sketch drawing. Please utilize these services to reduce total cost and to shorten the working hours.

Responds to resin and steel plate panel or assembly shipment

SUS processes various panels for covers or doors in production line, and assembles when delivery.

Realized further price down

SUS realized the lower price than ever for SF series by reducing distribution costs and producing in our own factory. Thus, the price is more reasonable and you can decide to introduce equipment more easily.

New service started to enable local buying in overseas

In view of high reputation in Japan, SUS is spreading to overseas. It's making a good progress to expand into Asian countries which developed countries' are impressively advancing in. We are organizing the system to enable purchasing component directly at your locations, establishing the bases across Asia.

From Aluminum Frame & Resin Panel to Assemble Shipment

Flexible Response and Quick Delivery

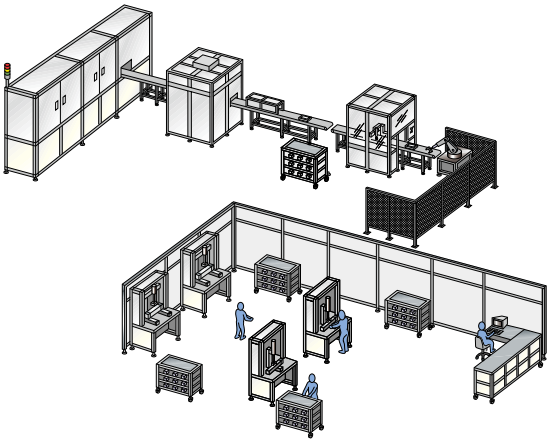
Degree of freedom to design is increased because frame is cut by 0.1mm unit from 50mm to 4000mm (some of them can be cut to 6000mm as special order). Also, parts standardization and self-manufacture enabled quick delivery.

Excellent Recyclability

Aluminum frames in SF series are combined by bolt and nut, so it's easy to disassemble and they can be reused. Also, in case you dispose, they can be recycled as resources.
SUS takes back the aluminum products in SF catalog as part of the recycling activities. We will reduce the amount of money for the next purchase, according to the weight of the received aluminum products.

High-Stiffness and Beautiful Frame

At joint part, binding strength is highly ensured by using exclusive nuts. Aluminum surface is finished by alumite treatment (more than 9μm thickness) and it will maintain the glaze for a long time.





Applications



Auto Loader



Screw-Tightening Machine



Palletizer



Take-Out Machine



Automatic Inspection Machine



Processing Machine



Coating Machine



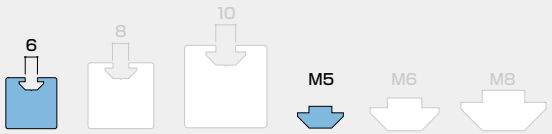
Auto Loader



STANDARD FRAME

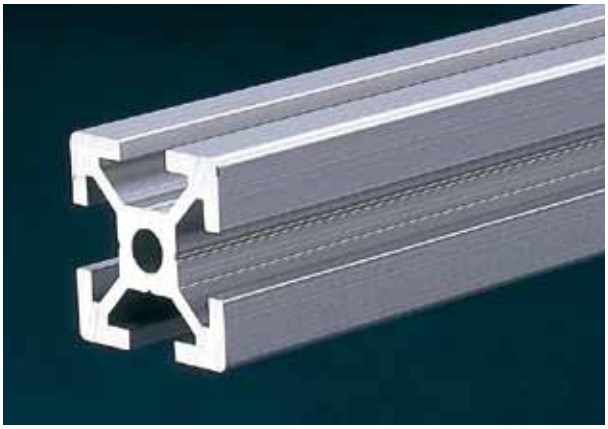
SF20
SERIES

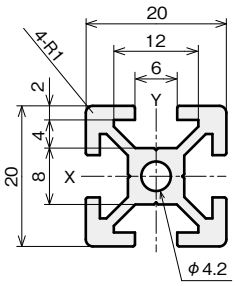
SF20 SERIES



SF-20・20

Asia





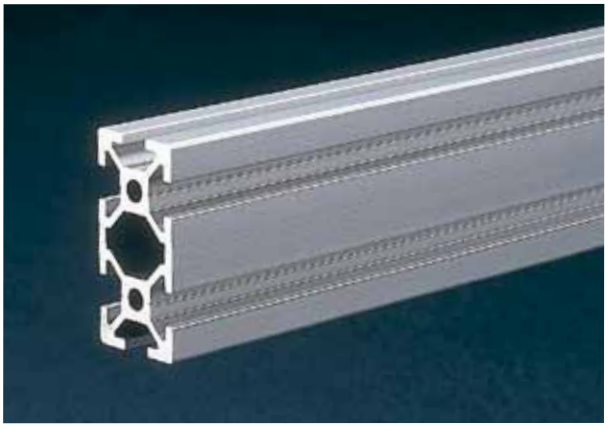
Name	SF-20・20 (ℓ=4000)	SF-20・20 ℓ=50～4000
Item No.	SFF-202-T	SFF-204-T

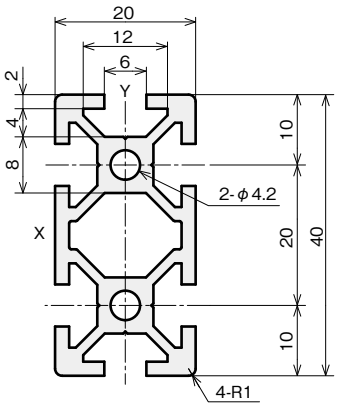
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical moment of inertia	Ix=0.74×10⁴mm⁴ Iy=0.74×10⁴mm⁴
Section Modulus	Zx=0.74×10³mm³ Zy=0.74×10³mm³
Unit Mass	0.49kg/m

SF-20・40

Asia





Name	SF-20・40 (ℓ=4000)	SF-20・40 ℓ=50～4000
Item No.	SFF-242-T	SFF-244-T

■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical moment of inertia	Ix=5.12×10⁴mm⁴ Iy=1.36×10⁴mm⁴
Section Modulus	Zx=2.56×10³mm³ Zy=1.36×10³mm³
Unit Mass	0.88kg/m

Example of order

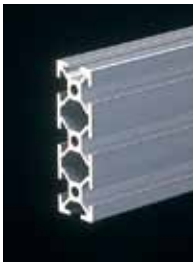
SF Frame
Standard(ℓ=4000) (Cut by customer)
Item No. ℓ=4030・Effective range of use ℓ=4000
SFF-202-T

Quantity (pcs) □□

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. Length (mm)
SFF-204-T ℓ=800

SF-20·60 / SF-20·80

Asia

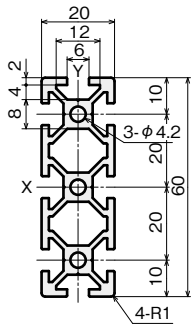



■Material/Technical Data

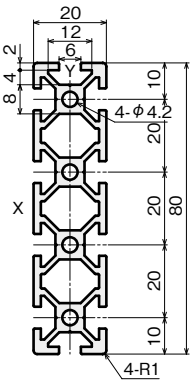
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-20·60	SF-20·80
Geometrical Moment of Inertia	Ix=15.97×10⁴mm⁴ Iy=1.97×10⁴mm⁴	Ix=36.13×10⁴mm⁴ Iy=2.58×10⁴mm⁴
Section Modulus	Zx=5.30×10³mm³ Zy=1.97×10³mm³	Zx=9.03×10³mm³ Zy=2.58×10³mm³
Unit Mass	1.26kg/m	1.64kg/m

Name	SF-20·60 (ℓ=4000)	SF-20·60 ℓ=50~4000
Item No.	SFF-262-T	SFF-264-T

Name	SF-20·80 (ℓ=4000)	SF-20·80 ℓ=50~4000
Item No.	SFF-282-T	SFF-284-T



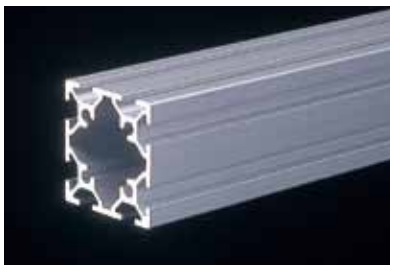
SF-20·60



SF-20·80

SF-40·40·2S

Asia

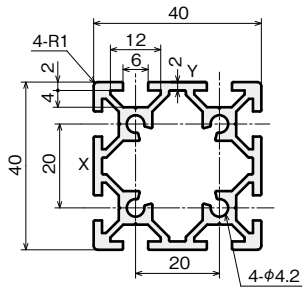


■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
Geometrical Moment of Inertia	Ix=8.89×10⁴mm⁴ Iy=8.89×10⁴mm⁴	
Section Modulus	Zx=4.45×10³mm³ Zy=4.45×10³mm³	
Unit Mass	1.29kg/m	

Name	SF-40·40·2S (ℓ=4000)	SF-40·40·2S ℓ=50~4000
Item No.	SFF-402W-T	SFF-404W-T

●Long Length (up to 6000mm) is available by special order.



SF-40·60·SS / SF-40·80·SS

Asia

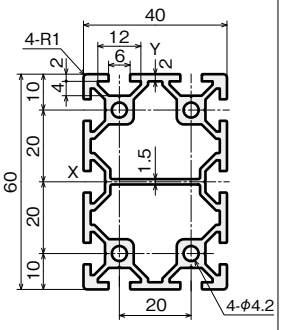



■Material/Technical Data

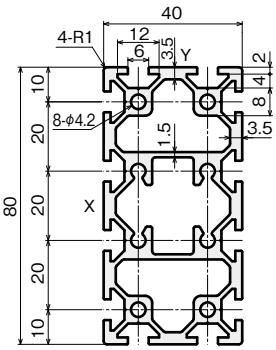
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-40·60·SS	SF-40·80·SS
Geometrical Moment of Inertia	Ix=27.03×10⁴mm⁴ Iy=12.63×10⁴mm⁴	Ix=63.52×10⁴mm⁴ Iy=18.39×10⁴mm⁴
Section Modulus	Zx=9.01×10³mm³ Zy=6.31×10³mm³	Zx=15.88×10³mm³ Zy=9.20×10³mm³
Unit Mass	1.80kg/m	2.70kg/m

Name	SF-40·60·SS (ℓ=4000)	SF-40·60·SS ℓ=50~4000
Item No.	SFF-462-T	SFF-464-T

Name	SF-40·80·SS (ℓ=4000)	SF-40·80·SS ℓ=50~4000
Item No.	SFF-4082-T	SFF-4084-T



SF-40·60·SS



SF-40·80·SS

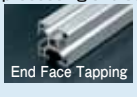
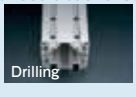
●Exclusive Nut

T Nut SS
After Nut SS
Lock Nut SS
Free Nut SS
P30~

●Exclusive Cap

Frame Cap
P45

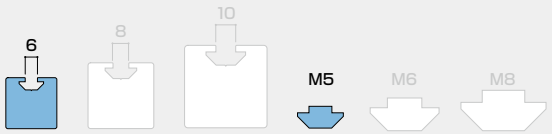
●Additional processing and surface treatment are also available.


End Face Tapping

Drilling

Slant Cut

P208~

SF20 SERIES



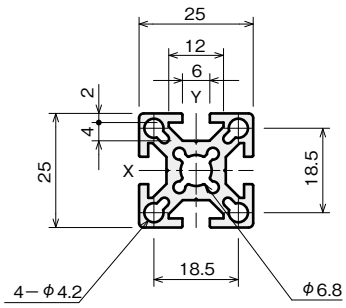
SF-25・25

Asia



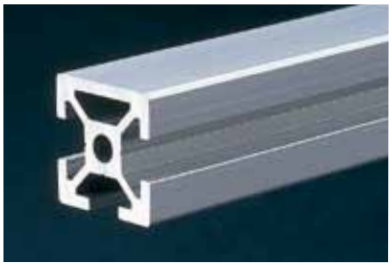
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=1.64×10⁴mm⁴
Iy=1.64×10⁴mm⁴
Section Modulus ..... Zx=1.31×10³mm³
Zy=1.31×10³mm³
Unit Mass 0.78kg/m

Name	SF-25・25 （ ℓ=4000）	SF-25・25 ℓ=50～4000
Item No.	SFF-252-T	SFF-254-T



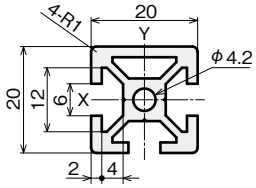
SF-20・20・1F

Asia



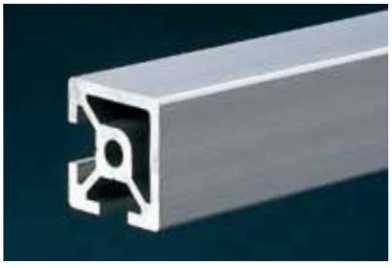
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=0.83×10⁴mm⁴
Iy=0.75×10⁴mm⁴
Section Modulus ..... Zx=0.78×10³mm³
Zy=0.75×10³mm³
Unit Mass 0.52kg/m

Name	SF-20・20・1F （ ℓ=4000）	SF-20・20・1F ℓ=50～4000
Item No.	SFF-E22-T	SFF-E24-T



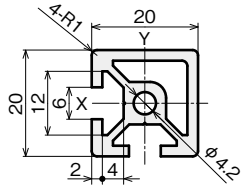
SF-20・20・2F

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=0.81×10⁴mm⁴
Iy=0.81×10⁴mm⁴
Section Modulus ..... Zx=0.79×10³mm³
Zy=0.79×10³mm³
Unit Mass 0.53kg/m

Name	SF-20・20・2F （ ℓ=4000）	SF-20・20・2F ℓ=50～4000
Item No.	SFF-F22-T	SFF-F24-T



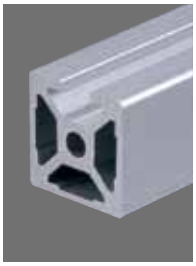
Example of order

SF Frame
Standard （ ℓ=4000） (Cut by customer)
Item No. ℓ=4030・Effective range of use ℓ=4000 Quantity (pcs)
SFF-252-T □□

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. Length (mm)
SFF-254-T ℓ=800

SF-20•20•3F / SF-20•20•2H

Asia



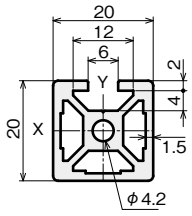


■Material/Technical Data

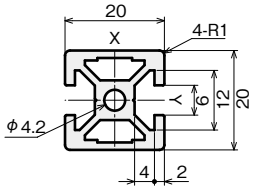
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-20•20•3F	SF-20•20•2H
Geometrical Moment of Inertia	Ix=0.81×10⁴㎜⁴ Iy=0.89×10⁴㎜⁴	Ix=0.74×10⁴㎜⁴ Iy=0.89×10⁴㎜⁴
Section Modulus	Zx=0.78×10³㎜³ Zy=0.89×10³㎜³	Zx=0.74×10³㎜³ Zy=0.89×10³㎜³
Unit Mass	0.56kg/m	0.54kg/m

Name	SF-20・20・3F （ℓ=4000）	SF-20・20・3F ℓ=50～4000
Item No.	SFF-FF22	SFF-FF24-T

Name	SF-20・20・2H （ℓ=4000）	SF-20・20・2H ℓ=50～4000
Item No.	SFF-FH22-T	SFF-FH24-T

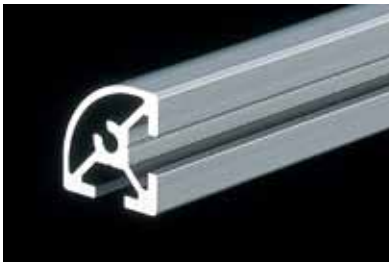


SF-20•20•3F



SF-20•20•2H

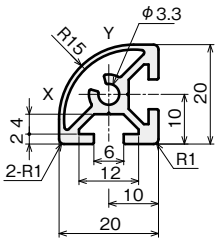
SF-20•20•R



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=0.55×10⁴㎜⁴ Iy=0.55×10⁴㎜⁴
Section Modulus	Zx=0.48×10³㎜³ Zy=0.48×10³㎜³
Unit Mass	0.40kg/m

Name	SF-20•20•R （ℓ=4000）	SF-20•20•R ℓ=50～4000
Item No.	SFF-R52	SFF-R54



SF-20•40•1F

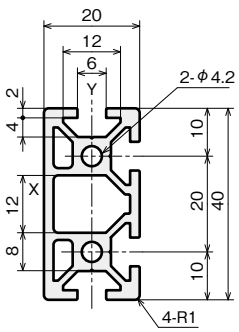
Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=5.40×10⁴㎜⁴ Iy=1.53×10⁴㎜⁴
Section Modulus	Zx=2.70×10³㎜³ Zy=1.44×10³㎜³
Unit Mass	0.93kg/m

Name	SF-20・40・1F （ℓ=4000）	SF-20•40•1F ℓ=50～4000
Item No.	SFF-E242-T	SFF-E244-T



●Exclusive Nut



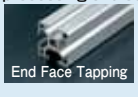
T Nut SS
After Nut SS
Lock Nut SS
Free Nut SS
P30～

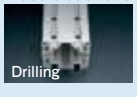
●Exclusive Cap



Frame Cap
P45

●Additional processing and surface treatment are also available.

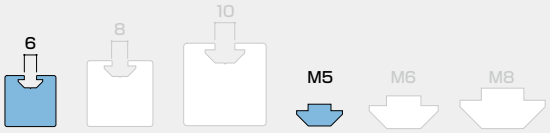

End Face Tapping


Drilling


Slant Cut

P208～

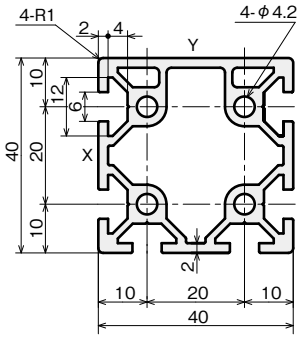
SF20 SERIES



SF-40・40・2S・1F



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=9.78×10⁴㎜⁴
Iy=9.32×10⁴㎜⁴
Section Modulus ..... Zx=5.08×10³㎜³
Zy=4.66×10³㎜³
Unit Mass 1.41kg/m

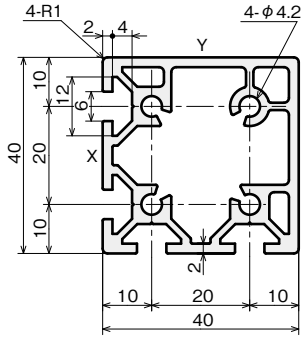


Name	SF-40・40・2S・1F （ ℓ=4000）	SF-40・40・2S・1F ℓ=50～4000
Item No.	SFF-E02W	SFF-E04W

SF-40・40・2S・2F



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=9.60×10⁴㎜⁴
Iy=9.60×10⁴㎜⁴
Section Modulus ..... Zx=4.89×10³㎜³
Zy=4.89×10³㎜³
Unit Mass 1.35kg/m

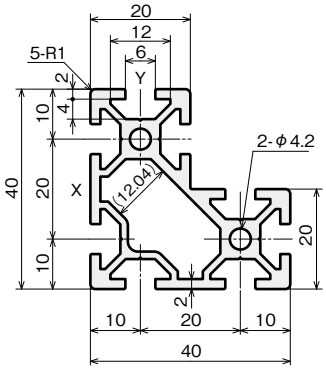


Name	SF-40・40・2S・2F （ ℓ=4000）	SF-40・40・2S・2F ℓ=50～4000
Item No.	SFF-F02W	SFF-F04W

SF-20・40・40



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=6.61×10⁴㎜⁴
Iy=6.61×10⁴㎜⁴
Section Modulus ..... Zx=3.82×10³㎜³
Zy=3.82×10³㎜³
Unit Mass 1.16kg/m



Name	SF-20・40・40 （ ℓ=4000）	SF-20・40・40 ℓ=50～4000
Item No.	SFF-G02	SFF-G04

Example of order

SF Frame
Standard（ ℓ=4000） (Cut by customer)
Item No. **SFF-E02W** ℓ=4030・Effective range of use ℓ=4000

Quantity (pcs) □□

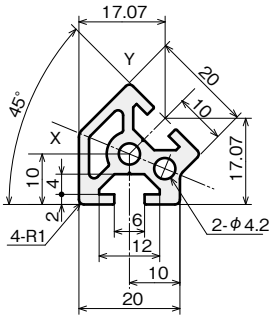
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. **SFF-E04W** Length (mm) ℓ=800

SF-20·DE45

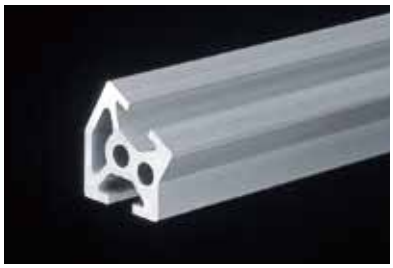


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=0.82×10⁴mm⁴
Iy=0.92×10⁴mm⁴
Section Modulus ..... Zx=0.59×10³mm³
Zy=0.69×10³mm³
Unit Mass 0.59kg/m

Name	SF-20·DE45 (ℓ=4000)	SF-20·DE45 ℓ=50~4000
Item No.	SFF-J52B	SFF-J54B

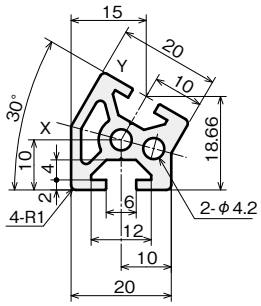


SF-20·DE30

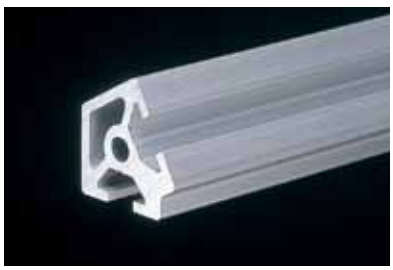


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=0.80×10⁴mm⁴
Iy=0.98×10⁴mm⁴
Section Modulus ..... Zx=0.60×10³mm³
Zy=0.77×10³mm³
Unit Mass 0.61kg/m

Name	SF-20·DE30 (ℓ=4000)	SF-20·DE30 ℓ=50~4000
Item No.	SFF-J52A	SFF-J54A

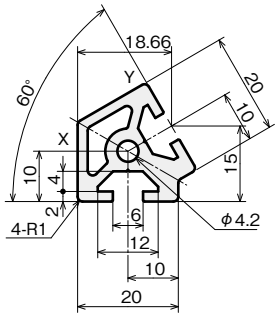


SF-20·DE60



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=0.86×10⁴mm⁴
Iy=0.92×10⁴mm⁴
Section Modulus ..... Zx=0.63×10³mm³
Zy=0.73×10³mm³
Unit Mass 0.61kg/m

Name	SF-20·DE60 (ℓ=4000)	SF-20·DE60 ℓ=50~4000
Item No.	SFF-J52C	SFF-J54C

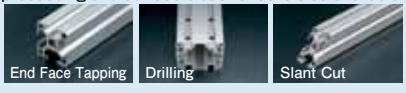


●Exclusive Nut

T Nut SS
After Nut SS
Lock Nut SS
Free Nut SS
P30~

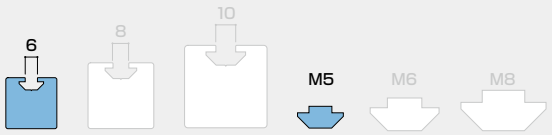
●Exclusive Cap

Frame Cap
P45

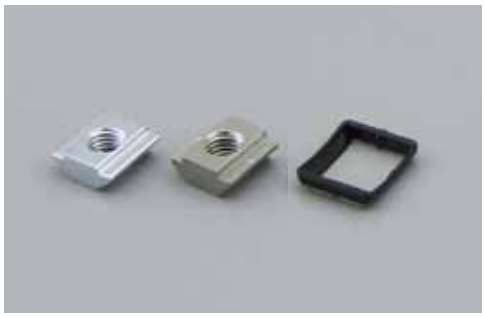
●Additional processing and surface treatment are also available.


P208~

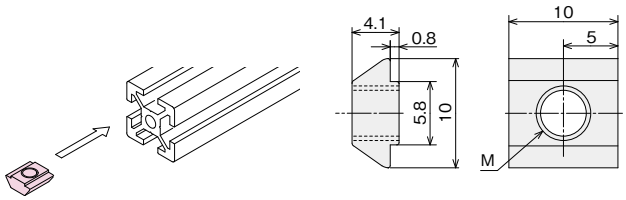
SF20 SERIES



T Nut SS （M※） / Anti-Skid Cap SS



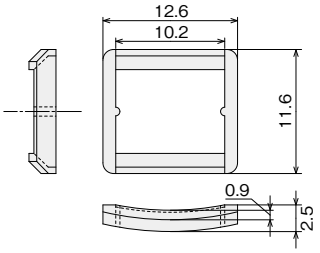
T Nut SS（M※）



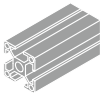
Name	T Nut SS(M5) 〈ST Nut SS (M5)〉	T Nut SS(M4) 〈ST Nut SS (M4)〉	T Nut SS(M3) 〈ST Nut SS (M3)〉
Item No.	SFB-013〈SFN-TX5〉	SFB-012〈SFN-TX4〉	SFB-011〈SFN-TX3〉

Name	Anti-Skid Cap SS (50pcs/pack)
Item No.	SFA-905

Anti-Skid Cap SS
(for T Nut SS)



■Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

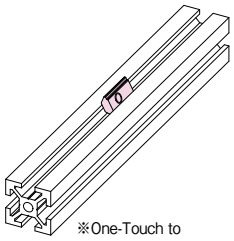
■Material/Technical Data

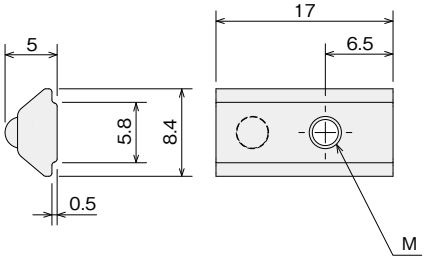
	T Nut SS	ST Nut SS	Anti-Skid Cap SS
Material	Equivalent to S10C Uni-Chrome	Stainless With conductive function	Black Polyamide
Weight	2g	2g	0.09g/piece

Environment **RoHS** Compliant **Green** Procurement

Easy Nut SS （M※）







Name	Easy Nut SS(M5)	Easy Nut SS(M4)	Easy Nut SS(M3)
Item No.	SFB-PN15	SFB-PN14	SFB-PN13

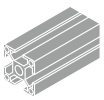
Name	Easy Nut SS(M5) CN	S Easy Nut SS(M4) Stainless	S Easy Nut SS(M3) Stainless
Item No.	SFB-PN39	SFN-EX4	SFN-EX3

■Material/Technical Data

	S Easy Nut SS	Easy Nut SS CN	Easy Nut SS
Material	Stainless With conductive	Equivalent to S10C Ni-plating	Equivalent to S10C Uni-Chrome plating
Weight	4g/piece		

Environment **RoHS** Compliant **Green** Procurement

■Usable Frame



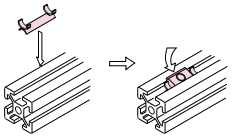
Compatible to all SF20 series
(Groove Width 6mm)

Parts
How to order
Item No. Quantity (pcs)
SFB-013 □□

After Nut SS（M※）/ After Nut Support SS



※Using After Nut Support together prevents from slipping.

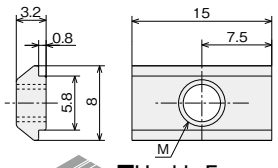


Name	After Nut SS(M5) ※1〈S After Nut SS(M5)〉	After Nut SS(M4) 〈S After Nut SS(M4)〉	After Nut SS(M3) 〈S After Nut SS(M3)〉
Item No.	SFB-605〈SFB-SH5〉	SFB-604〈SFN-AX4〉	SFB-603〈SFN-AX3〉

Name	After Nut Support SS(50pcs/pack)
Item No.	SFA-9A1

※1 No conductive type with S After Nut SS

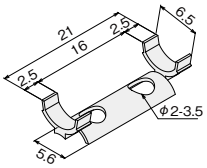
After Nut SS(M※)





■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

After Nut Support SS (for After Nut)



■Material/Technical Data

	After Nut SS	S After Nut SS	After Nut Support SS
Material	Equivalent to S10C Uni-Chrome	Stainless With conductive function	PP Resin
Weight	2g	2g	0.10g/piece

Environment **RoHS** Compliant **Green** Procurement

Lock Nut SS（M※）/ S Free Nut SS（M※）

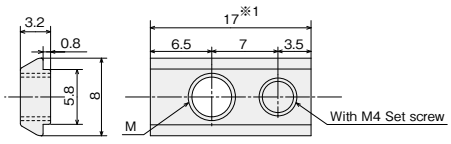




Name	Lock Nut SS(M5) 〈S Lock Nut SS(M5)〉	Lock Nut SS(M4) 〈S Lock Nut SS(M4)〉	Lock Nut SS(M3) 〈S Lock Nut SS(M3)〉
Item No.	★SFB-4D5〈★SFB-SD5〉	★SFB-4D4〈★SFN-LX4〉	★SFB-4D3〈★SFN-LX3〉

Name	S Free Nut SS(M4)	S Free Nut SS(M3)
Item No.	★SFN-FX4	★SFN-FX3

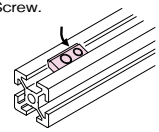
Lock Nut SS（M※）



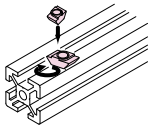
※1 M3 and M4: Length 15

Lock Nut SS（M※）

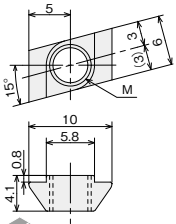
※You can fix Nut and conduct electricity by tightening attached Set Screw.



S Free Nut SS



Free Nut SS(M※)





■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

■Material/Technical Data

	Lock Nut SS	Lock Nut SS	S Free Nut SS
Material	Equivalent to S10C Uni-Chrome	Stainless	Stainless With conductive function
Weight	2g	2g	1g

Environment ★**RoHS** Compliant ★**Green** Procurement

Joint Bar SS 120 / T Nut SS Material After Nut SS Material





Name(Single Item)	Joint Bar SS120
Item No.	★SFJ-605

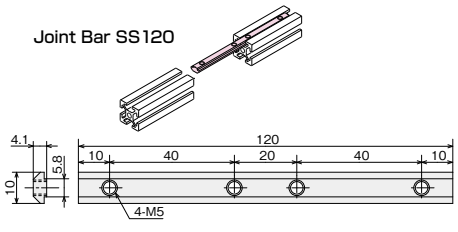
Name(With Set Screw)	Joint Bar SS120 Kit
Item No.	★SFK-605

Name	T Nut SS Material ℓ=(2800) 〈ST Nut SS Material ℓ=(2800)〉	T Nut SS Material ℓ=450 〈ST Nut SS Material ℓ=450〉
Item No.	★SFX-105〈★SFX-001〉	★SFX-125〈★SFX-S05〉

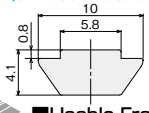
Name	After Nut SS Material ℓ=(2800) 〈S After Nut SS Material ℓ=(2800)〉	After Nut SS Material ℓ=450 〈S After Nut SS Material ℓ=450〉
Item No.	★SFX-106〈★SFX-006〉	★SFX-126〈★SFX-S06〉

・Note： T nut material will be delivered without plating.

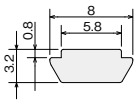
Joint Bar SS120

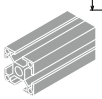


T Nut SS Material 〈ST Nut SS Material〉



After Nut SS Material





■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

■Joint Bar SS120 Kit contents—
●Joint Bar SS120×1
●Set screw(M5×5)×4

■Material/Technical Data

	Joint Bar SS120	T Nut SS Material After Nut SS Material	ST Nut SS Material S After Nut SS Material
Material	Equivalent to S10C Uni-Chrome plating	Equivalent to S10C Not plating	SUS303
Weight	about 25g	250g/m(T Nut SS) 170g/m(After Nut SS)	256g/m(ST Nut SS) 174g/m(S After Nut SS)

Environment ★**RoHS** Compliant ★**Green** Procurement

We sell Nut Material and Bracket Material as well.

T Nut SS Material P31

●Hard Bracket SS Material
●Angle Bracket SS Material

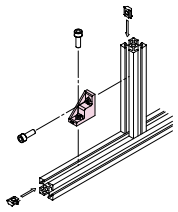


SF20 SERIES

6 8 10 M5 M6 M8

D Bracket SS

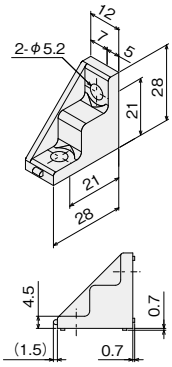




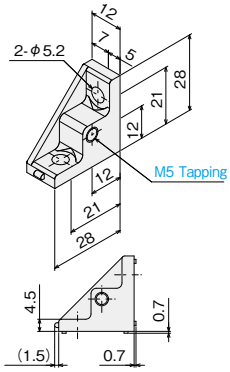
Name(Single Item)	D Bracket SS ⟨D Bracket SS with Tap⟩	D Bracket SS-CN ⟨D Bracket SS-CN with Tap⟩
Item No.	★SFJ-016⟨★SFJ-017⟩	★SFJ-016N⟨★SFJ-017N⟩

Name(Bolt and Nut Kit)	D Bracket SS Kit ⟨D Bracket SS Kit with Tap⟩	D Bracket SS(Stainless)Kit ⟨D Bracket SS with Tap (Stainless) Kit⟩	D Bracket SS-CN Kit ⟨D Bracket SS-CN Kit with Tap⟩
Item No.	★SFK-016⟨★SFK-017⟩	★SFK-016S⟨★SFK-017S⟩	★SFK-016N⟨★SFK-017N⟩

D Bracket SS

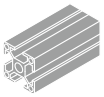


D Bracket SS with Tap



Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

■Kit Contents

- ●D Bracket SS⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M5×10)×2
- ●T Nut SS(M5)×2

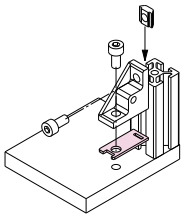
※Bolt and Nut in CN (Stainless) Kit are Stainless.

■Material/Technical Data

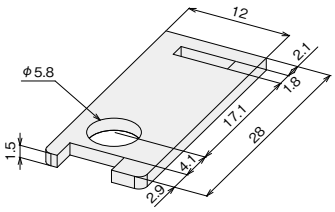
Material Aluminum Die-Cast (CN:Electroless nickel plating) With Anti-Skid Function
Weight 11g
Environment ★RoHS Compliant ★Green Procurement

D Bracket Spacer SS



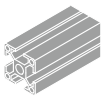


●Setting to bottom of D Bracket enables to fix on a flat base.



Name	D Bracket Spacer SS
Item No.	SFJ-400S

■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

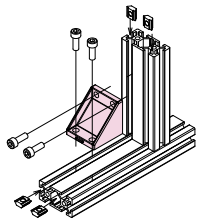
■Material/Technical Data

Material SUS304
Weight 4g
Environment RoHS Compliant Green Procurement

D Bracket 2040







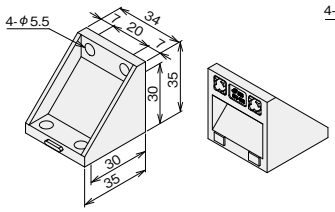
Name(Single Item)	D Bracket 2040 ⟨D Bracket 2040 with Tap⟩
Item No.	SFJ-020⟨SFJ-020T⟩

Name(Bolt and Nut Kit)	D Bracket 2040 Kit ⟨D Bracket 2040 Kit with Tap⟩	D Bracket 2040 (Stainless) Kit ⟨D Bracket 2040 with Tap (Stainless) Kit⟩
Item No.	SFK-020⟨SFK-020T⟩	SFK-020S⟨SFK-020P⟩

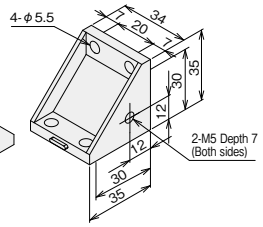
Name(Single Item)	D Bracket 2040-CN ⟨D Bracket 2040-CN with Tap⟩
Item No.	SFJ-020N⟨SFJ-020C⟩

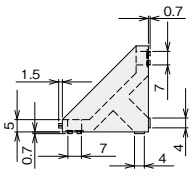
Name(Bolt and Nut Kit)	D Bracket 2040-CN Kit ⟨D Bracket 2040-CN Kit with Tap⟩
Item No.	SFK-020N⟨SFK-020C⟩

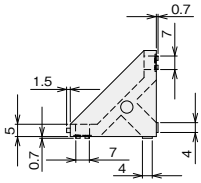
D Bracket 2040



D Bracket 2040 with Tap

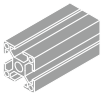






Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

■Kit Contents

- ●D Bracket 2040⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M5×10)×4
- ●T Nut SS(M5)×4

※Bolt and Nut in CN (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminum Die-Cast (CN:Electroless Nickel Plating) With Anti-Skid Function
Weight 35g
Environment RoHS Compliant Green Procurement

Example of order

Parts How to order

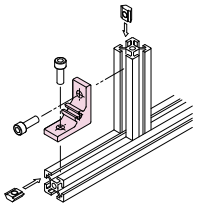
Item No. SFJ-016 Quantity (pcs) □□

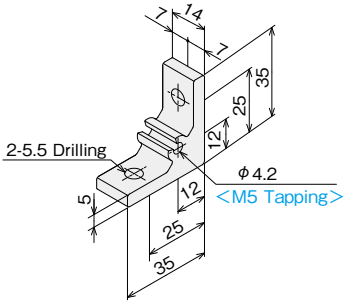
●Cap for Bracket P45



Hard Bracket SS







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SS ⟨Hard Bracket SS with Tap⟩
Item No.	★SFJ-N01⟨★SFJ-N01T⟩

Name(Bolt and Nut Kit)	Hard Bracket SS Kit ⟨Hard Bracket SS Kit with Tap⟩	Hard Bracket SS(Stainless)Kit ⟨Hard Bracket SS with Tap (Stainless) Kit⟩
Item No.	★SFK-N01⟨★SFK-N01T⟩	★SFK-N01S⟨★SFK-N01P⟩

■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

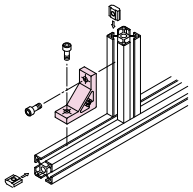
■Kit Contents
- ●Hard Bracket SS⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M5×10)×2
- ●T Nut SS(M5)×2

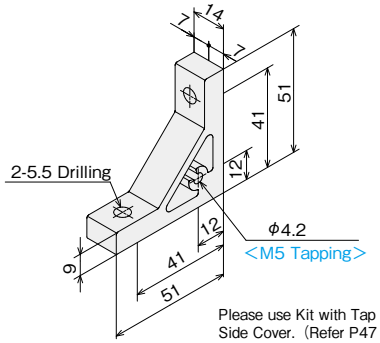
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 15g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket SSG







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSG ⟨Hard Bracket SSG with Tap⟩
Item No.	★SFJ-N23⟨★SFJ-N23T⟩

Name(Bolt and Nut Kit)	Hard Bracket SSG Kit ⟨Hard Bracket SSG Kit with Tap⟩	Hard Bracket SSG(Stainless)Kit ⟨Hard Bracket SSG with Tap(Stainless)Kit⟩
Item No.	★SFK-N23⟨★SFK-N23T⟩	★SFK-N23S⟨★SFK-N23P⟩

■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

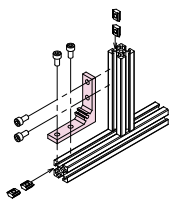
■Kit Contents
- ●Hard Bracket SSG⟨or with Tap⟩×1
- ●Hexagon Socket Bolt(M5×14)×2
- ●T Nut SS(M5)×2

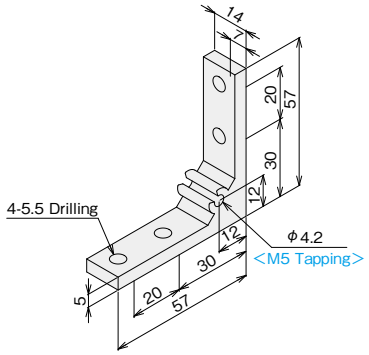
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 31g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket SSW2020







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSW2020 ⟨Hard Bracket SSW2020 with Tap⟩
Item No.	SFJ-N14⟨SFJ-N14T⟩

Name(Bolt and Nut Kit)	Hard Bracket SSW2020 Kit ⟨Hard Bracket SSW2020 Kit with Tap⟩	Hard Bracket SSW2020(Stainless)Kit ⟨Hard Bracket SSW2020 with Tap(Stainless)Kit⟩
Item No.	SFK-N14⟨SFK-N14T⟩	SFK-N14S⟨SFK-N14P⟩

■Usable Frame —
Compatible to all SF20 series (Groove Width 6mm)

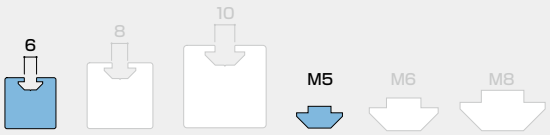
■Kit Contents
- ●Hard Bracket SSW2020⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M5×10)×4
- ●T Nut SS(M5)×4

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
(Special order:Black Alumite is also available.)
Perpendicular surface is machining finished.
Weight 22g
Environment RoHS Compliant
Green Procurement

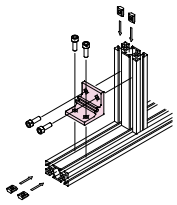
We sell Nut Material and Bracket Material as well.
T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material
Material Frame

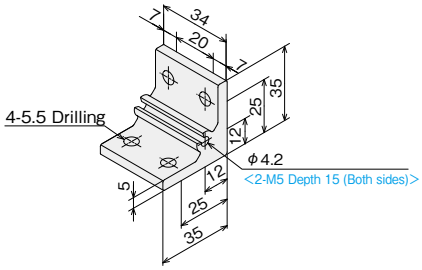
SF20 SERIES



Hard Bracket SS2040





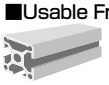


Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SS2040 〈Hard Bracket SS2040 with Tap〉
Item No.	★SFJ-N02〈★SFJ-N02T〉

Name(Bolt and Nut Kit)	Hard Bracket SS2040 Kit 〈Hard Bracket SS2040 Kit with Tap〉	Hard Bracket SS2040(Stainless)Kit 〈Hard Bracket SS2040 with Tap (Stainless) Kit〉
Item No.	★SFK-N02〈★SFK-N02T〉	★SFK-N02S〈★SFK-N02P〉

■Usable Frame



SF-20-40/SF-40-40-2S/SF-40-60-SS/ SF-20-40-40(1F)

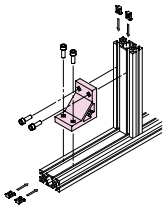
■Kit Contents
- ●Hard Bracket SS2040〈or with Tap〉×1
- ●Hexagon Socket Bolt (M5×10)×4
- ●T Nut SS(M5)×4

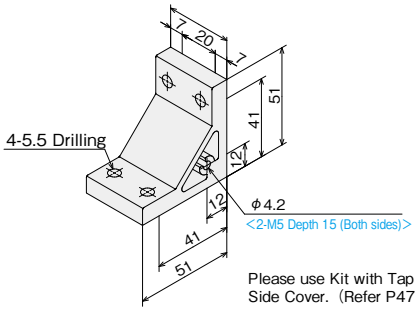
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  Perpendicular surface is machining finished.
- Weight 36g
- Environment ★RoHS Compliant
  ★Green Procurement

Hard Bracket SSG2040







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSG2040 〈Hard Bracket SSG2040 with Tap〉
Item No.	★SFJ-N24〈★SFJ-N24T〉

Name(Bolt and Nut Kit)	Hard Bracket SSG2040 Kit 〈Hard Bracket SSG2040 Kit with Tap〉	Hard Bracket SSG2040(Stainless)Kit 〈Hard Bracket SSG2040 with Tap (Stainless) Kit〉
Item No.	★SFK-N24〈★SFK-N24T〉	★SFK-N24S〈★SFK-N24P〉

■Usable Frame



SF-20-40/SF-40-40-2S/SF-40-60-SS/ SF-20-40-40(1F)

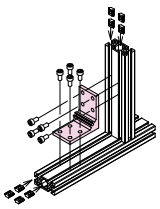
■Kit Contents
- ●Hard Bracket SSG2040〈or with Tap〉×1
- ●Hexagon Socket Bolt (M5×14)×4
- ●T Nut SS(M5)×4

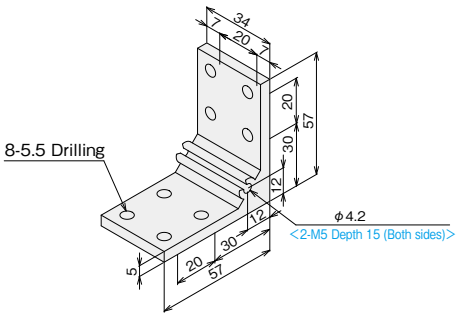
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  Perpendicular surface is machining finished.
- Weight 75g
- Environment ★RoHS Compliant
  ★Green Procurement

Hard Bracket SSW2040





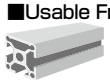


Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSW2040 〈Hard Bracket SSW2040 with Tap〉
Item No.	SFJ-N15〈SFJ-N15T〉

Name(Bolt and Nut Kit)	Hard Bracket SSW2040 Kit 〈Hard Bracket SSW2040 Kit with Tap〉	Hard Bracket SSW2040(Stainless)Kit 〈Hard Bracket SSW2040 with Tap (Stainless) Kit〉
Item No.	SFK-N15〈SFK-N15T〉	SFK-N15S〈SFK-N15P〉

■Usable Frame



SF-20-40/SF-40-40-2S/SF-40-60-SS/ SF-20-40-40(1F)

■Kit Contents
- ●Hard Bracket SSW2040〈or with Tap〉×1
- ●Hexagon Socket Bolt (M5×10)×8
- ●T Nut SS(M5)×8

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  (Special order:Black Alumite is also available.)
  Perpendicular surface is machining finished.
- Weight 56g
- Environment RoHS Compliant
  Green Procurement

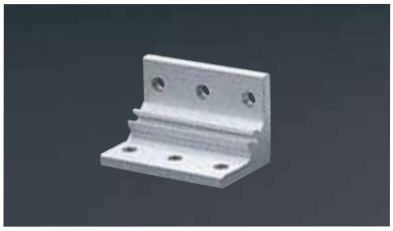
Example of order

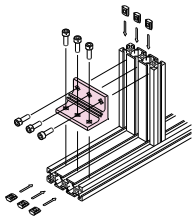
Parts
How to order
Item No. Quantity (pcs)
SFJ-N02 □□

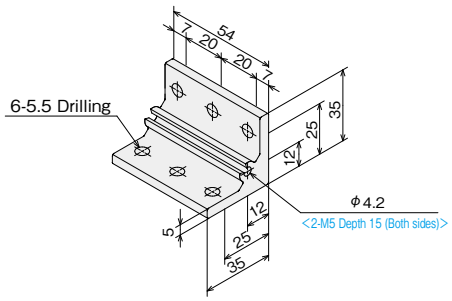
●Cap for Bracket
P45



Hard Bracket SS2060





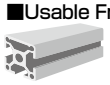


Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SS2060 〈Hard Bracket SS2060 with Tap〉
Item No.	SFJ-N09〈SFJ-N09T〉

Name(Bolt and Nut Kit)	Hard Bracket SS2060 Kit 〈Hard Bracket SS2060 Kit with Tap〉	Hard Bracket SS2060(Stainless)Kit 〈Hard Bracket SS2060 with Tap (Stainless) Kit〉
Item No.	SFK-N09〈SFK-N09T〉	SFK-N09S〈SFK-N09P〉

■Usable Frame



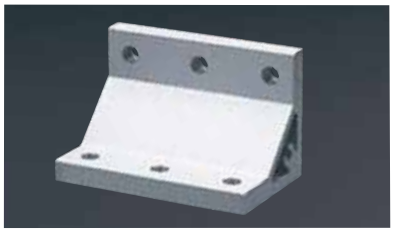
SF-20·60
SF-40·60

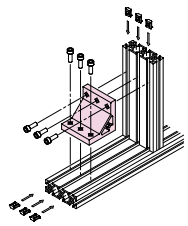
■Kit Contents
- Hard Bracket SS2060〈or with Tap〉×1
- Hexagon Socket Bolt (M5×10)×6
- T Nut SS(M5)×6

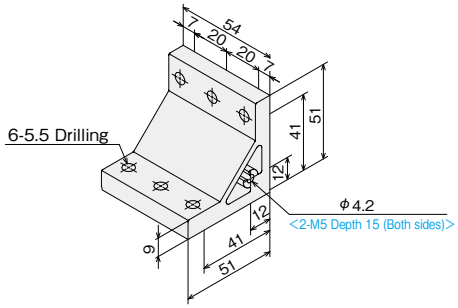
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
(Special Order:Black Alumite is also available.)
Perpendicular surface is machining finished.
Weight 60g
Environment RoHS Compliant
Green Procurement

Hard Bracket SSG2060







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSG2060 〈Hard Bracket SSG2060 with Tap〉
Item No.	SFJ-N25〈SFJ-N25T〉

Name(Bolt and Nut Kit)	Hard Bracket SSG2060 Kit 〈Hard Bracket SSG2060 Kit with Tap〉	Hard Bracket SSG2060(Stainless)Kit 〈Hard Bracket SSG2060 with Tap (Stainless) Kit〉
Item No.	SFK-N25〈SFK-N25T〉	SFK-N25S〈SFK-N25P〉

■Usable Frame



SF-20·60
SF-40·60

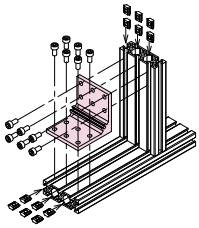
■Kit Contents
- Hard Bracket SSG2060〈or with Tap〉×1
- Hexagon Socket Bolt (M5×14)×6
- T Nut SS(M5)×6

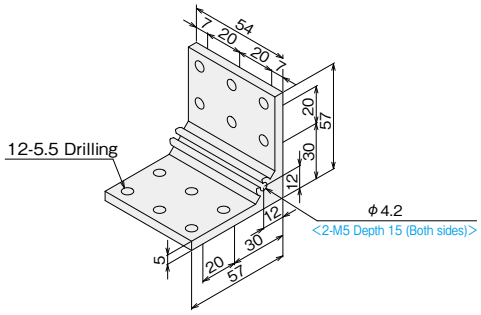
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
(Special Order:Black Alumite is also available.)
Perpendicular surface is machining finished.
Weight 119g
Environment RoHS Compliant
Green Procurement

Hard Bracket SSW2060







Please use Kit with Tap to install Side Cover. (Refer P47 for details.)

Name(Single Item)	Hard Bracket SSW2060 〈Hard Bracket SSW2060 with Tap〉
Item No.	SFJ-N16〈SFJ-N16T〉

Name(Bolt and Nut Kit)	Hard Bracket SSW2060 Kit 〈Hard Bracket SSW2060 Kit with Tap〉	Hard Bracket SSW2060(Stainless)Kit 〈Hard Bracket SSW2060 with Tap (Stainless) Kit〉
Item No.	SFK-N16〈SFK-N16T〉	SFK-N16S〈SFK-N16P〉

■Usable Frame



SF-20·60
SF-40·60

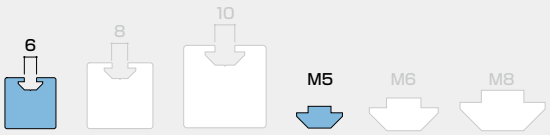
■Kit Contents
- Hard Bracket SSW2060〈or with Tap〉×1
- Hexagon Socket Bolt (M5×10)×12
- T Nut SS(M5)×12

※Bolt and Nut in (Stainless) Kit are stainless.

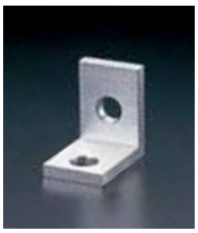
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
(Special Order:Black Alumite Treatment)
Perpendicular surface is machining finished.
Weight 89g
Environment RoHS Compliant
Green Procurement

We sell Nut Material and Bracket Material as well.
T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material
Material Frame

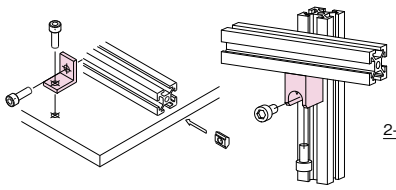
SF20 SERIES



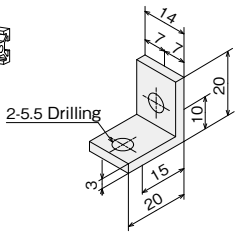
Angle Bracket SS / Angle Bracket Hard SS



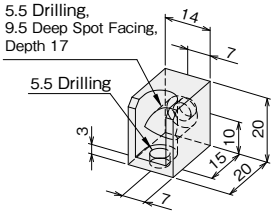




Angle Bracket SS



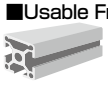
Angle Bracket Hard SS



Name(Single Item)	Angle Bracket SS	Angle Bracket Hard SS
Item No.	★SFJ-A01	★SFJ-A14

Name(Bolt and Nut Kit)	Angle Bracket SS Kit ⟨Angle Bracket SS(Stainless) Kit⟩	Angle Bracket Hard SS Kit ⟨Angle Bracket Hard SS(Stainless) Kit⟩
Item No.	★SFK-A01⟨★SFK-A01S⟩	★SFK-A14⟨★SFK-A14S⟩

■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

■Kit Contents
- Angle Bracket SS⟨or Hard⟩×1
- Hexagon Socket Bolt (M5×8)×2
- T Nut SS(M5)×2

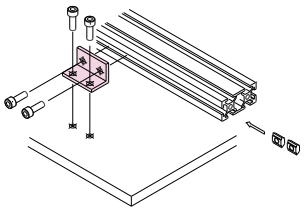
※Bolt and Nut in (Stainless) Kit are stainless.

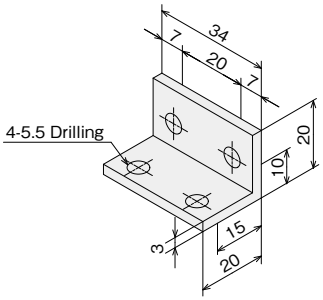
■Material/Technical Data

	Angle Bracket SS	Angle Bracket hard SS
Material	Aluminium Alloy Alumite Treatment	A6063 Alumite Treatment
Weight	4g	9g
Environment	★RoHS Compliant ★Green Procurement	

Angle Bracket SS2040







Name(Single Item)	Angle Bracket SS2040
Item No.	★SFJ-A02

Name(Bolt and Nut Kit)	Angle Bracket SS2040 Kit ⟨Angle Bracket SS2040(Stainless) Kit⟩
Item No.	★SFK-A02⟨★SFK-A02S⟩

■Usable Frame



SF-20·40/1F
SF-20·40·40

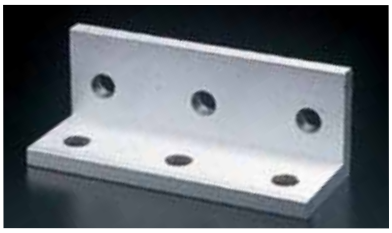
■Kit Contents
- Angle Bracket SS2040×1
- Hexagon Socket Bolt (M5×8)×4
- T Nut SS(M5)×4

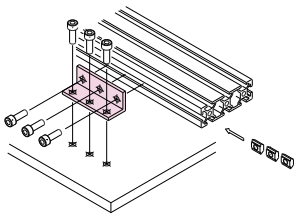
※Bolt and Nut in (Stainless) Kit are stainless.

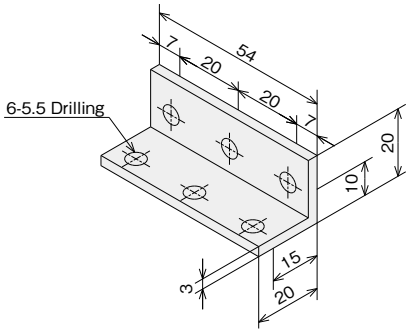
■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 10g
Environment ★RoHS Compliant ★Green Procurement

Angle Bracket SS2060



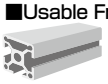




Name(Single Item)	Angle Bracket SS2060
Item No.	SFJ-A09

Name(Bolt and Nut Kit)	Angle Bracket SS2060 Kit ⟨Angle Bracket SS2060(Stainless) Kit⟩
Item No.	SFK-A09⟨SFK-A09S⟩

■Usable Frame



SF-20·60

■Kit Contents
- Angle Bracket SS2060×1
- Hexagon Socket Bolt (M5×8)×6
- T Nut SS(M5)×6

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 15g
Environment RoHS Compliant Green Procurement

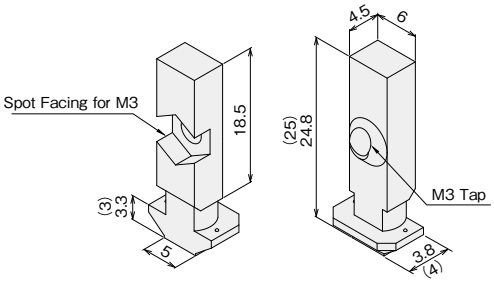
Example of order

Parts
How to order
Item No. Quantity (pcs)
SFJ-A01 □□

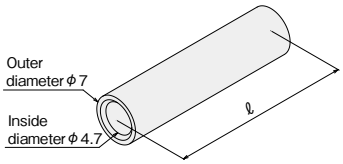
QC Joint SS



QC Joint SS(Common Parts)



SS Round metal tool



	SS Kit	SS40 Kit	SS60 Kit
ℓ	8	28	48

Name	QC Joint SS Kit	QC Joint SS40 Kit	QC Joint SS60 Kit
Item No.	SFK-Q20	SFK-Q21	SFK-Q22

Kit Contents

Kit Name	QC Joint	Round metal tool	Bolt
QC Joint SS Kit	QC Joint SS ×1set	SS Round metal tool 20×1	Hexagon Socket Bolt (M3×15)Stainless×1
QC Joint SS40 Kit		SS Round metal tool 40×1	Hexagon Socket Bolt (M3×35)Stainless×1
QC Joint SS60 Kit		SS Round metal tool 60×1	Hexagon Socket Bolt (M3×55)Stainless×1

■Material/Technical Data

Material **QC Joint SS** Stainless With Conductive Function — **Round metal tool** Stainless

Weight 14g(SS Kit) 18g(SS40 Kit) 23g(SS60 Kit)

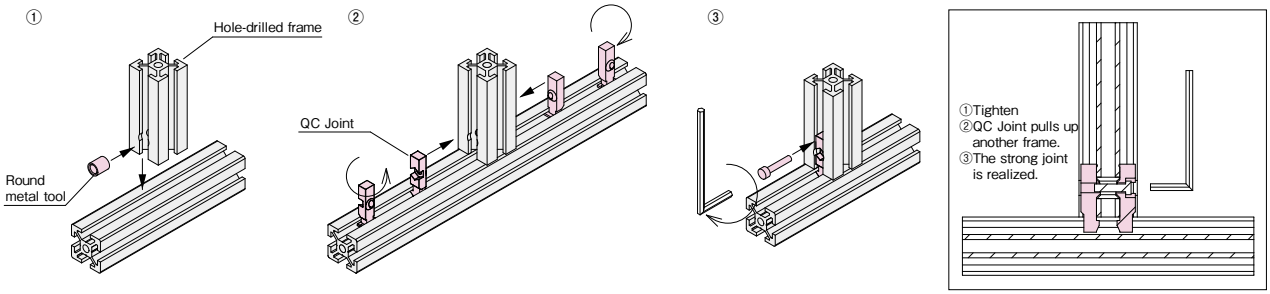
Environment **RoHS** Compliant **Green** Procurement

QC Joint SS

〈Characteristics〉

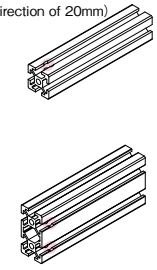
It's easy to set vertically and hardly make gap, because 2 frames are pulled at each other to combine. Also, you don't have to let nuts into frame in advance, and strong fixing is possible by one bolt, so the assembly man-hour is reduced.

〈How to assemble〉

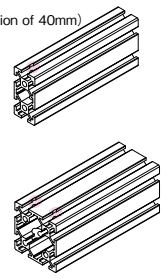


〈Example of kit selection〉

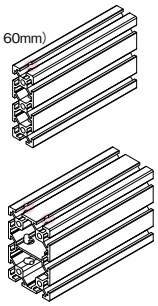
●QC Joint SS Kit
(For drilled hole to the direction of 20mm)



●QC Joint SS40 Kit
(For drilled hole to the direction of 40mm)

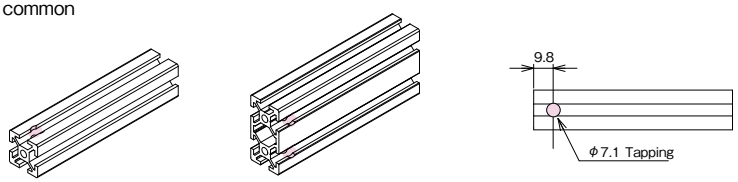


●QC Joint SS60 Kit
(For drilled hole to the direction of 60mm)



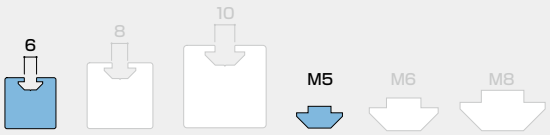
〈Drilling〉

SF-20 in common

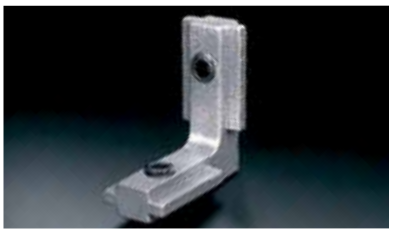


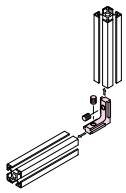
We sell Nut Material and Bracket Material as well.
T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material
Material Frame

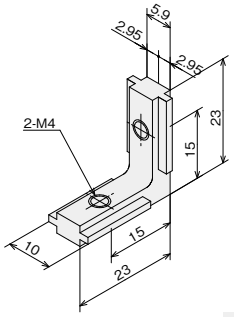
SF20 SERIES



S Blind Bracket SS







Name	S Blind Bracket SS
Item No.	SFK-600S

■Usable Frame

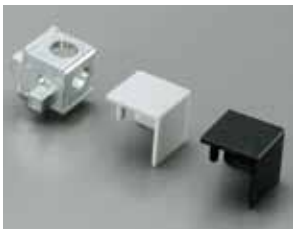


Compatible to all SF20 series (Groove Width 6mm)

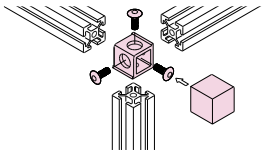
■Material/Technical Data

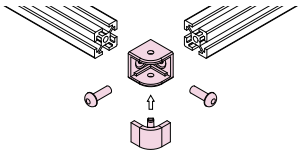
Material Stainless(SCS13)
(2 Set Screws M4×5 Stainless Included.)
Weight 11g
Environment RoHS Compliant
Green Procurement

Block Bracket SS Kit / Corner Block SS Kit



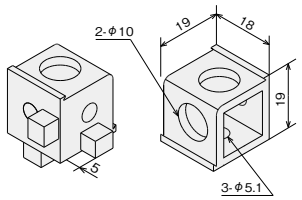




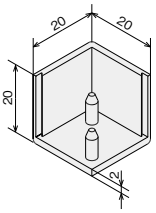


※Hold the Pin edge to insert Cap.

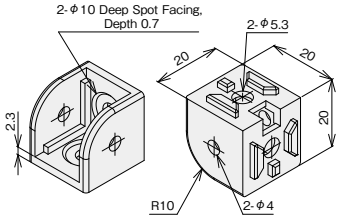
Block Bracket SS



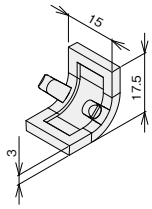
Block Cap SS



Corner Block SS



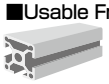
Corner Cap SS



Name	Block Bracket SS Kit (Black)	(Light Gray)
Item No.	SFK-Q11	SFK-Q11G

Name	Corner Block SS Kit (Black)	(Light Gray)
Item No.	SFK-Q61	SFK-Q61G

■Usable Frame



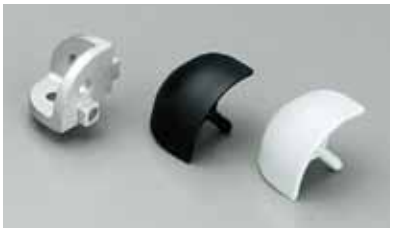
〈Block Bracket SS Kit〉 SF-20·20(1F/2F)
〈Corner Block SS Kit〉 SF-20·20(1F/2F/3F/2H)

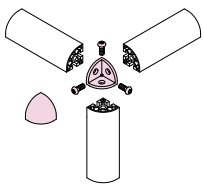
■Material/Technical Data

	Block Bracket SS	Corner Block SS
Material	Zinc Die-Cast(Block Bracket SS)	Stainless(Corner Block SS)
	Polyamide(Block Cap SS)	Polyamide(Corner Cap SS)
	Hexagon Socket Button Bolt (M5×15)3 pcs (Block Bracket)	Hexagon Socket Button Bolt (M5×15)2 pcs (Corner Block)
Weight	27g(Block Bracket SS)	23g(Corner Block SS)
	3g(Block Cap SS)	2g(Corner Cap SS)
Environment	RoHS Compliant	

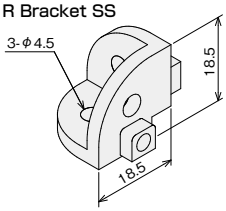
※M5 Tap Processing is needed to the section of SF20·20 (or 1F/2F). (Refer P209~ for details.)
※Corner block SS Kit is installable by Tapping Bolt as well.

R Bracket SS Kit

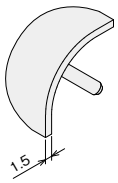




R Bracket SS



R Cap SS



Name	R Bracket SS Kit (Black)	(Light Gray)
Item No.	SFK-R01	SFK-R01G

■Usable Frame



SF-20·20·R

■Material/Technical Data

	R Bracket SS	R Cap SS
Material	Stainless(SCS13)	Polyamide
	Hexagon Socket Bolt (M4×12)3 pcs	Color/Black·Light gray
Weight	18g	2g
Environment	RoHS Compliant	

※M4 Tap Processing is needed to the section of SF-20·20·R to mount.(Refer P209~ for details.)

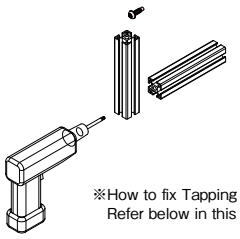
Example of order

Parts
How to order
Item No. Quantity (pcs)
SFK-600S □□

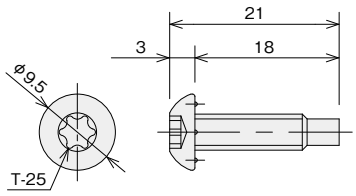
●Cap for Bracket
P45

Tapping Bolt SS





※How to fix Tapping Bolt
Refer below in this page.



Name	Tapping Bolt SS
Item No.	SFB-T20

■Usable Frame



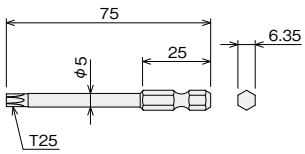
SF-20·20(1F/2F/3F/2H)
SF-20·40(1F)
SF-20·60/20·80
SF-40·40·2S(1F/2F)

■Material/Technical Data

Material SWCH18A
Uni-Chrome Plating
Weight 2g
Environment **RoHS** Compliant
Green Procurement

Torque Bit T25 / Torque Driver T25





Weight 13g

Name	Torque Bit T25
Item No.	SFA-JT25

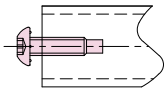


Weight 78g

Name	Torque Driver T25
Item No.	SFA-T25H

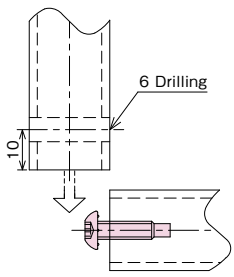
How to fix Tapping Bolt

①



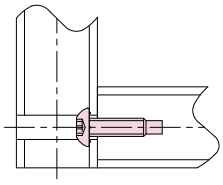
Fix the frame with jig etc, and screw the Tapping Bolt halfway into the end face. (Temporary joint)
※ In case it is too tight, please use cutting oil.

②



Put the bolt head through T slot of another frame.

③



Tighten by Manual tool to fix.
※Manual tool is recommended, because the reaction of torque up is big by using electric drill.

GO ●Drillid by SUS Processing Symbol P216~

We sell Nut Material and Bracket Material as well.
T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material
Material Frame

SF20 SERIES

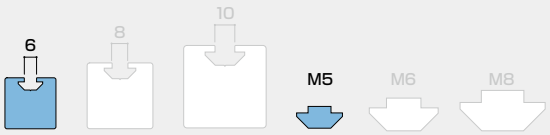
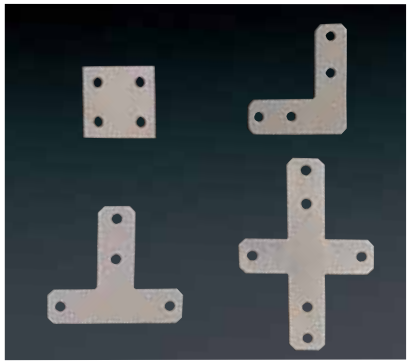
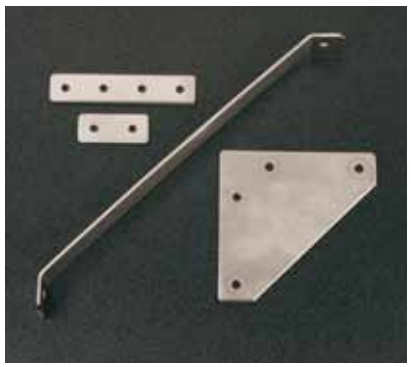
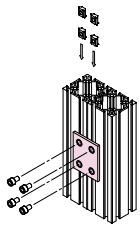


Plate Bracket







■Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

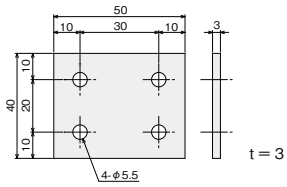
■Kit Contents

Refer table for right

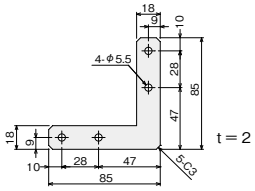
■Material/Technical Data

Name	Weight(g)	Material	Environment
Plate Bracket SSG	46	SUS304	RoHS Compliant Green Procurement
S Plate Bracket SS-L	54		
S Plate Bracket SS-T	56		
S Plate Bracket SS-+	78		
Plate Bracket SS-H2	8.3		
Plate Bracket SS-H4	18.7		
Corner Support Bracket SS	65		
Corner Support Plate SS	104		

S Plate Bracket SSG

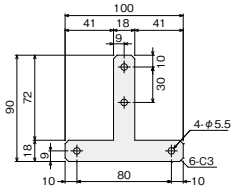


S Plate Bracket SS-L Type

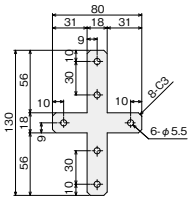


Name	S Plate Bracket SSG	S Plate Bracket SSG Kit	S Plate Bracket SS-L type	S Plate Bracket SS-L type Kit
Item No.	SFJ-121S	SFK-121S	SFJ-109S	SFK-109S
Kit Contents	●Plate Bracket SSG×1 ●Hexagon Socket Bolt (M5×8)Stainless×4 ●ST Nut SS (M5)×4		●S Plate Bracket SS-L type×1 ●Hexagon Socket Bolt (M5×6)Stainless×4 ●ST Nut SS (M5)×4	

S Plate Bracket SS-T Type

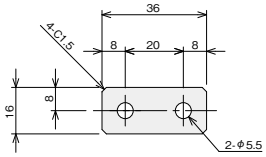


S Plate Bracket SS-+ Type

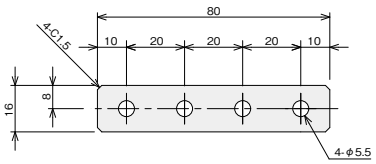


Name	S Plate Bracket SS-T type	S Plate Bracket SS-T type Kit	S Plate Bracket SS-+ type	S Plate Bracket SS-+ type Kit
Item No.	SFJ-110S	SFK-110S	SFJ-111S	SFK-111S
Kit Contents	●S Plate Bracket SS-T Type×1 ●Hexagon Socket Bolt(M5×6)Stainless×4 ●ST Nut SS(M5) ×4		●S Plate Bracket SS-+ Type×1 ●Hexagon Socket Bolt(M5×6)Stainless×6 ●ST Nut SS(M5) ×6	

S Plate Bracket SS-H2

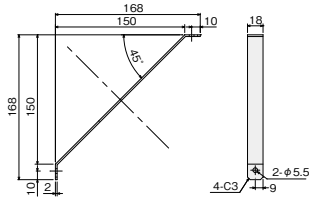


S Plate Bracket SS-H4

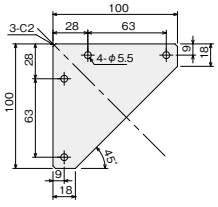


Name	Plate Bracket SS-H2	Plate Bracket SS-H2 Kit	Plate Bracket SS-H4	Plate Bracket SS-H4 Kit
Item No.	SFJ-124S	SFK-124S	SFJ-128S	SFK-128S
Kit Contents	●Plate Bracket SS-H2×1 ●Hexagon Socket Bolt (M5×6)Stainless×2 ●ST Nut SS (M5)×2		●Plate Bracket SS-H4×1 ●Hexagon Socket Bolt (M5×6)Stainless×4 ●ST Nut SS (M5)×4	

S Corner Support Bracket SS



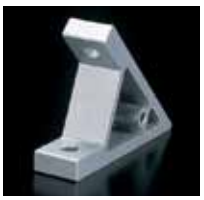
S Corner Support Plate SS

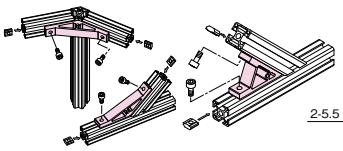


Name	Corner Support Bracket SS	Corner Support Bracket SS Kit	Corner Support Plate SS	Corner Support Plate SS Kit
Item No.	SFJ-135S	SFK-135S	SFJ-136S	SFK-136S
Kit Contents	●Corner Support Bracket SS×1 ●Hexagon Socket Bolt (M5×6)Stainless×2 ●ST Nut SS (M5)×2		●Corner Support Plate SS×1 ●Hexagon Socket Bolt (M5×6)Stainless×4 ●ST Nut SS (M5)×4	

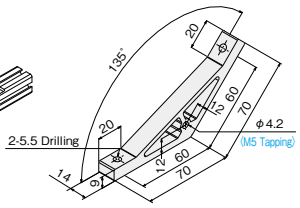
Parts
How to order
Item No. Quantity (pcs)
SFJ-121S □□

Hard Bracket SS・DE

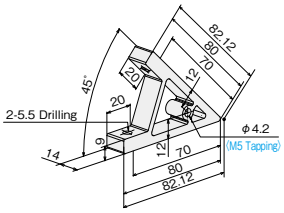





Hard Bracket SS・DE135



Hard Bracket SS・DE45



Name(Single Item)	Hard Bracket SS・DE135 〈Hard Bracket SS・DE135 with Tap〉		Hard Bracket SS・DE45 〈Hard Bracket SS・DE45 with Tap〉	
Item No.	SFJ-N31〈SFJ-N31T〉		SFJ-N32〈SFJ-N32T〉	
Name(Bolt and Nut Kit)	SS・DE135Kit (SS・DE135 Kit with Tap)	SS・DE135(Stainless)Kit (SS・DE135 with Tap(Stainless)Kit)	SS・DE45Kit (SS・DE45 Kit with Tap)	SS・DE45(Stainless)Kit (SS・DE45 with Tap(Stainless)Kit)
Item No.	SFK-N31〈SFK-N31T〉	SFK-N31S〈SFK-N31P〉	SFK-N32〈SFK-N32T〉	SFK-N32S〈SFK-N32P〉

■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

■Kit Contents

〈Hard Bracket SS・DE135Kit〉
- Hard Bracket SS・DE135〈or with Tap〉×1
- Hexagon Socket Bolt (M5×14)×2
- T Nut SS (M5)×2

〈Hard Bracket SS・DE45Kit〉
- Hard Bracket SS・DE45〈or with Tap〉×1
- Hexagon Socket Bolt (M5×14)×2
- T Nut SS (M5)×2

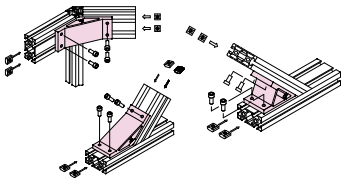
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

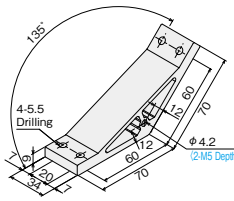
Material Aluminium Alloy
Alumite Treatment
Weight 48g(DE135)
41g(DE45)
Environment **RoHS** Compliant
Green Procurement

Hard Bracket SS2040・DE

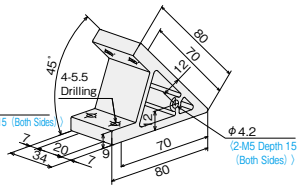


Hard Bracket SS2040・DE135



Hard Bracket SS2040・DE45



Name(Single Item)	Hard Bracket SS2040・DE135 〈Hard Bracket SS2040・DE135 with Tap〉		Hard Bracket SS2040・DE45 〈Hard Bracket SS2040・DE45 with Tap〉	
Item No.	SFJ-N38〈SFJ-N38T〉		SFJ-N37〈SFJ-N37T〉	
Name(Bolt and Nut Kit)	SS2040・DE135Kit (SS2040・DE135 Kit with Tap)	SS2040・DE135(Stainless)Kit (SS2040・DE135 with tTap(Stainless)Kit)	SS2040・DE45Kit (SS2040・DE45 Kit with Tap)	SS2040・DE45(Stainless)Kit (SS2040・DE45 with Tap(Stainless)Kit)
Item No.	SFK-N38〈SFK-N38T〉	SFK-N38S〈SFK-N38P〉	SFK-N37〈SFK-N37T〉	SFK-N37S〈SFK-N37P〉

■Usable Frame



SF20 Series 45°slant cut frame (Refer from P208)

■Kit Contents

〈Hard Bracket SS2040・DE135Kit〉
- Hard Bracket SS2040・DE135〈or with Tap〉×1
- Hexagon Socket Bolt (M5×14)×4
- T Nut SS (M5)×2

〈Hard Bracket SS2040・DE45Kit〉
- Hard Bracket SS2040・DE45〈or with Tap〉×1
- Hexagon Socket Bolt (M5×14)×4
- T Nut SS (M5)×2

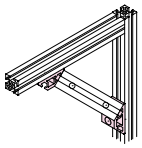
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

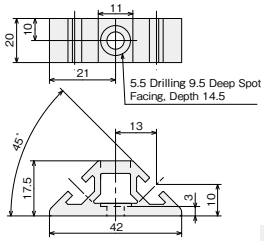
Material Aluminium Alloy
Alumite Treatment
Weight 127g(DE135)
107g(DE45)
Environment **RoHS** Compliant
Green Procurement

Truss Joint SS

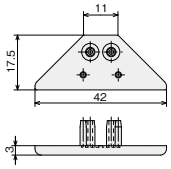




Truss Joint SS



Truss Cap SS



※Groove size is as same as SF20・20.

Name(Single Item)	Truss Joint SS	Truss Cap SS (Black)	Truss Cap SS (Light Gray)
Item No.	SFJ-J01	SFA-J01	SFA-J01G

■Usable Frame



(Frame to reinforce) SF-20・20
(Frame to combine) SF-20・30・40・45 series are installable

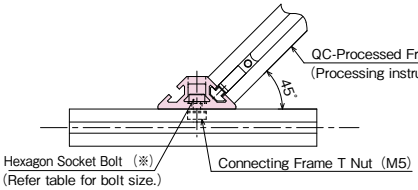
■Material/Technical Data

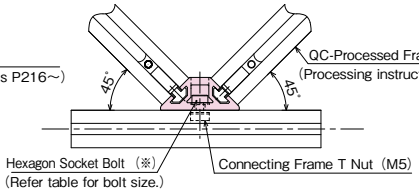
	Truss Joint SS	Truss Cap SS
Material	Aluminium Alloy Alumite Treatment	Polyamide
Weight	15g	2g

Environment **RoHS** Compliant
Green Procurement

Example of mounting Truss Joint

Best suited to reinforce in 45° or truss stiffening.



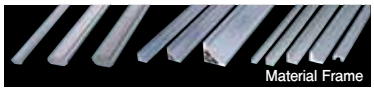


※Guide of bolt size

Frame to mount to	Bolt size
SF20 Series	M5×8
SF30 Series	M5×10
SF40・45 Series	M5×14

We sell Nut Material and Bracket Material as well.

T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material

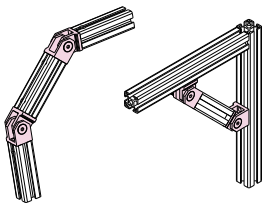


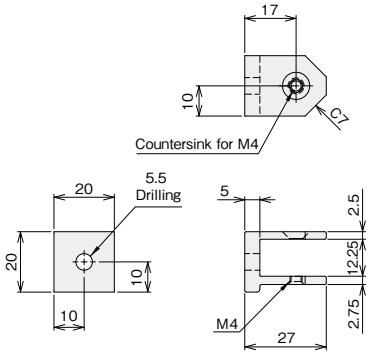
SF20 SERIES

6 8 10 M5 M6 M8

Turn Bracket 20



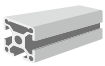




(Attachment) Hexagon Socket Flat Head Cap Screw M4×6 Stainless 1 pcs/set

Name	Turn Bracket 20
Item No.	SFK-44A

■Usable Frame



(End Surface Installation)
SF-20·20 Exclusive
(Side Surface Installation)
Installable if connecting
T Nut is (M5).

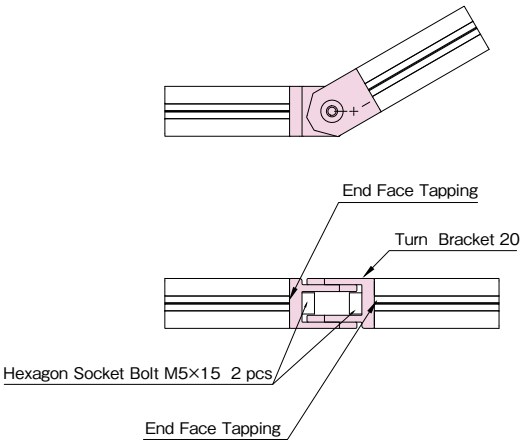
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 26g/set
Environment **RoHS** Compliant
Green Procurement

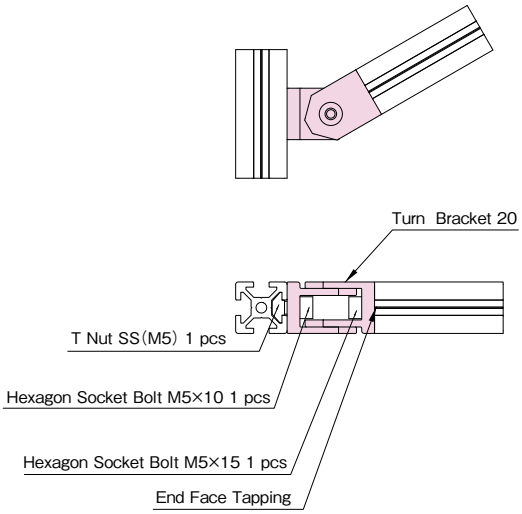
※2 pcs/set

Example of mounting Turn Bracket

〈In case of installing to sections of the Frames.〉



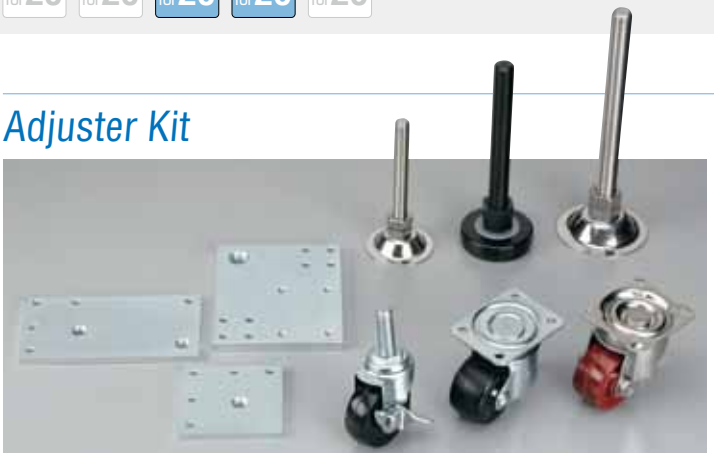
〈In case of installing to side and end of the Frames.〉



Example of order

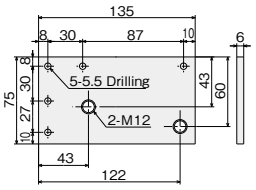
Parts
How to order
Item No. Quantity (set)
SFK-44A □□

Adjuster Kit



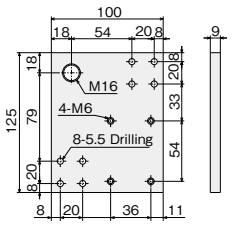
■Plate

Adjuster Caster Plate SS
Adjuster Caster Plate SS(Stainless)



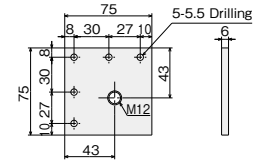
	Material	Treatment	Weight
Adjuster Caster Plate SS	SS400	Uni-chrome	0.45kg
Adjuster Caster Plate SS(Stainless)	SUS304	——	

Adjuster Caster Plate 40



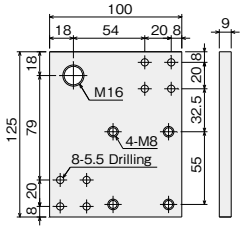
	Material	Treatment	Weight
Adjuster Caster Plate 40	SS400	Uni-chrome	0.82kg

Adjuster Plate SS
Adjuster Plate SS(Stainless)



	Material	Treatment	Weight
Adjuster Plate SS	SS400	Uni-chrome	0.24kg
Adjuster Plate SS(Stainless)	SUS304	——	

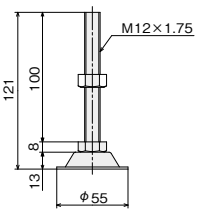
Adjuster Caster Plate 40(Stainless)



	Material	Treatment	Weight
Adjuster Caster Plate 40(Stainless)	SUS304	——	0.83kg

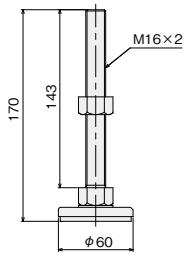
■Adjuster

Adjuster M12
Adjuster M12(Stainless)



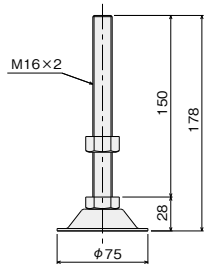
	Material	Treatment	Load capacity	Weight
Adjuster M12	SS400	Uni-chrome	500kg	169g
Adjuster M12(Stainless)	SUS304	Electrolytic Polishing	300kg	165g

Adjuster M16



	Material	Treatment	Load capacity	Weight	Bottom
Adjuster M16	SS400	Zn Black	500kg	386g	Neoprene rubber

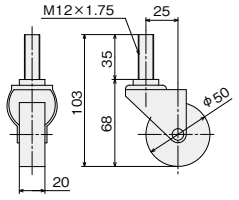
Adjuster BM16(Stainless)



	Material	Treatment	Load capacity	Weight
Adjuster BM16(Stainless)	SUS304	Electrolytic Polishing	560kg	375g

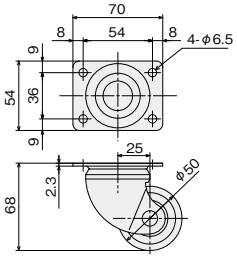
■Caster

Caster A
Caster A with Brake
Caster A(Stainless)
Caster A with Brake(Stainless)



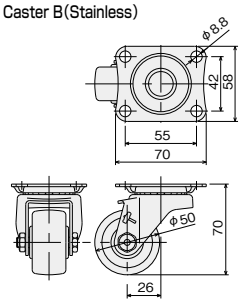
	Material	Load capacity	Weight
Caster A	Rubber	30kg	189g
Caster A with Brake	Rubber	30kg	223g
Caster A(Stainless)	Nylon	40.8kg	147g

Caster B



	Material	Load capacity	Weight
Caster B	Phenol Resin	150kg	340g

Caster B(Stainless)



	Material	Load capacity	Weight
Caster B(Stainless)	Phenol Resin	71.4kg	285g

	Item No.	Name	Compatible Frames	Kit Contents
Adjuster + Plate	SFK-510A	Level Adjuster Kit SS	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS×1 ●T Nut SS(M5)×4 ●Adjuster M12×1 ●Hexagon Socket Bolt(M5×10)×4
	SFK-510S	Level Adjuster Kit SS(Stainless)	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS(Stainless)×1 ●ST Nut SS(M5)×4 ●Adjuster M12(Stainless)×1 ●Hexagon Socket Bolt(M5×10)Stainless×4
	SFK-C22	Level Adjuster Kit 40	SF-40·40·2S or Black SF-40·60 SF-40·80·SS	●Adjuster Caster Plate 40×1 ●Adjuster M16×1 ●T Nut SS(M5)×8 ●Hexagon Socket Bolt(M5×14)×8
	SFK-C22U	Level Adjuster Kit 40(Stainless)	SF-40·40·2S or Black SF-40·60 SF-40·80·SS	●Adjuster Caster Plate 40(Stainless)×1 ●Adjuster BM16(Stainless)×1 ●ST NutSS(M5)×8 ●Hexagon Socket Bolt(M5×14)Stainless×8
Caster + Plate	SFK-C21A	Caster Kit SS	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS×1 ●T Nut SS(M5)×4 ●Caster A×1 ●Hexagon Socket Bolt(M5×10)×4 ●Hexagon Nut(M12)×1
	SFK-C21S	Caster Kit SS(Stainless)	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS(Stainless)×1 ●ST Nut SS(M5)×4 ●Caster A(Stainless)×1 ●Hexagon Socket Bolt(M5×10)Stainless×4 ●Hexagon Nut(M12)Stainless×1
	SFK-C22A	Caster Kit SS with Brake	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS×1 ●T Nut SS(M5)×4 ●Caster A with Brake ×1 ●Hexagon Socket Bolt(M5×10)×4 ●Hexagon Nut(M12)×1
	SFK-C22B	Caster Kit SS with Brake(Stainless)	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Plate SS(Stainless)×1 ●ST Nut SS(M5)×4 ●Caster A with Brake(Stainless)×1 ●Hexagon Socket Bolt(M5×10)Stainless×4 ●Hexagon Nut(M12)Stainless×1
Caster Adjuster + Plate	SFK-C20A	Level Adjuster Kit SS with Caster	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Caster Plate SS×1 ●T Nut SS(M5)×4 ●Caster A×1 ●Hexagon Socket Bolt(M5×10)×4 ●Hexagon Nut(M12)×1 ●Adjuster M12×1
	SFK-C20S	Level Adjuster Kit SS with Caster(Stainless)	Compatible to all SF20 series (Groove Width 6mm)	●Adjuster Caster Plate SS(Stainless)×1 ●ST Nut SS(M5)×4 ●Caster A(Stainless)×1 ●Hexagon Socket Bolt(M5×10)Stainless×4 ●Hexagon Nut(M12)Stainless×1 ●Adjuster M12(Stainless)×1
	SFK-C23	Level Adjuster Kit 40 with Caster	SF-40·40·2S or Black SF-40·60 SF-40·80·SS	●Adjuster Caster Plate 40×1 ●Adjuster M16×1 ●Caster B×1 ●T Nut SS(M5)×8 ●Hexagon Socket Bolt(M5×14)×8 ●Hexagon Socket Bolt(M6×10)×4
	SFK-C23S	Level Adjuster Kit 40 with Caster(Stainless)	SF-40·40·2S or Black SF-40·60 SF-40·80·SS	●Adjuster Caster Plate 40(Stainless)×1 ●Adjuster BM16(Stainless)×1 ●Caster B(Stainless)×1 ●ST Nut SS(M5)×8 ●Hexagon Socket Bolt(M5×14)Stainless×8 ●Hexagon Socket Bolt(M8×10)Stainless×4

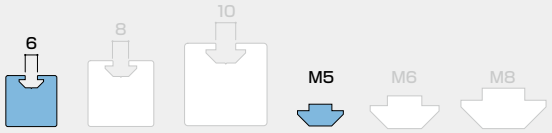
We sell Nut Material and Bracket Material as well.

T Nut SS Material P31

●Hard Bracket SS Material
●Angle Bracket SS Material



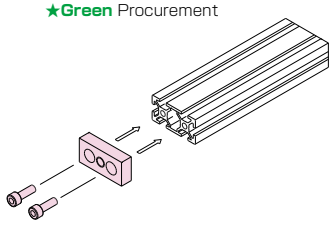
SF20 SERIES



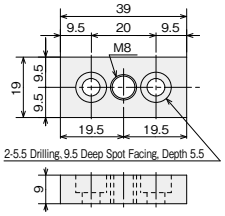
Foot Base



Environment ★RoHS Compliant
★Green Procurement



Foot Base 2040



〈Material〉

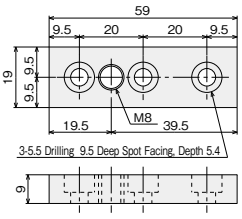
Foot Base 2040	SS400 Uni-chrome plating Include 2 Hexagon Socket Bolts(M5×15) Weight/40g
Foot Base 2040 (Stainless)	SUS304 Include 2 Hexagon Socket Bolts (M5×15) Stainless Weight/40g

Usable Frame



SF-20·40、
SF-20·40·1F

Foot Base 2060



〈Material〉

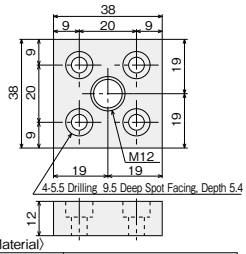
Foot Base 2060	SS400 Uni-chrome plating Include 3 Hexagon Socket Bolts (M5×15) Weight/60g
Foot Base 2060 (Stainless)	SUS304 Include 3 Hexagon Socket Bolts (M5×15) Stainless Bolts Weight/60g

Usable Frame



SF-20·60

Foot Base 40402S



〈Material〉

Foot Base 40402S	SS400 Uni-chrome plating Include 4 Hexagon Socket Bolts (M5×20) Weight/104g
Foot Base 40402S (Stainless)	SUS304 Include 4 Hexagon Socket Bolts (M5×20) Stainless Weight/105g

Usable Frame

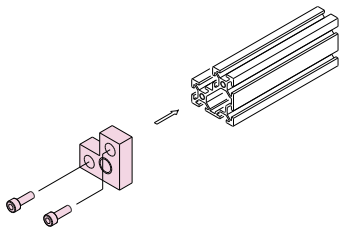


SF-40·40·2S(1F/2F)

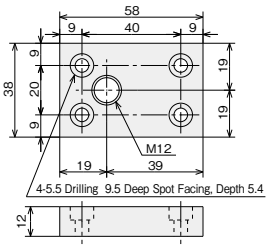
Name	Foot Base 2040 〈Foot Base 2040(Stainless)〉	Foot Base 2060 〈Foot Base 2060(Stainless)〉	Foot Base 40402S 〈Foot Base 40402S(Stainless)〉
Item No.	★SFK-55A〈★SFK-55AS〉	★SFK-50A〈★SFK-50AS〉	★SFK-51A〈★SFK-51AS〉



Environment ★RoHS Compliant
★Green Procurement



Foot Base 4060SS



〈Material〉

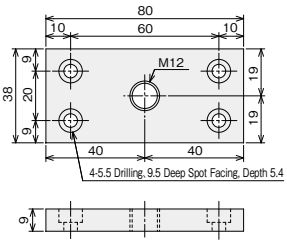
Foot Base4060SS	SS400 Uni-chrome plating Include 4 Hexagon Socket Bolts(M5×20) Weight/176g
Foot Base4060SS (Stainless)	SUS304 Include 4 Hexagon Socket Bolts (M5×20)Stainless Weight/177g

Usable Frame



SF-40·60·SS

Foot Base 4080SS



〈Material〉

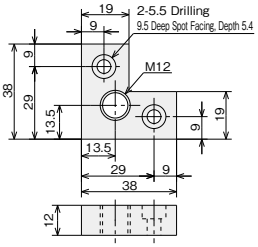
Foot Base4080SS	SS400 Uni-chrome plating Include 4 Hexagon Socket Bolts (M5×15) Weight/194g
Foot Base4080SS (Stainless)	SUS304 Include 4 Hexagon Socket Bolts (M5×15)Stainless Weight/196g

Usable Frame



SF-40·80·SS

Foot Base 204040



〈Material〉

Foot Base204040	SS400 Uni-chrome plating Include 2 Hexagon Socket Bolts(M5×20) Weight/81g
Foot Base204040 (Stainless)	SUS304 Include 2 Hexagon Socket Bolts (M5×20) Stainless Weight/81g

Usable Frame

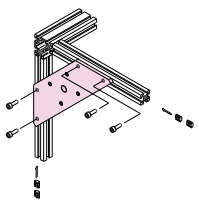


SF-20·40·40

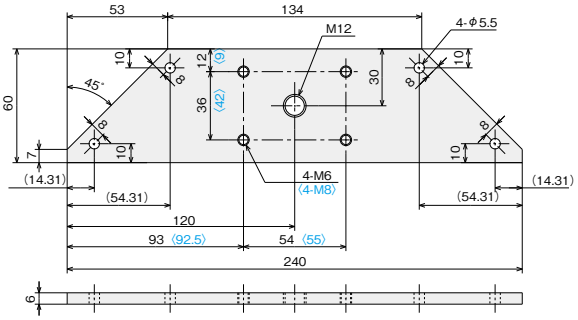
Name	Foot Base 4060SS 〈Foot Base 4060SS(Stainless)〉	Foot Base 4080SS 〈Foot Base 4080SS(Stainless)〉	Foot Base 204040 〈Foot Base 204040(Stainless)〉
Item No.	★SFK-62A〈★SFK-62AS〉	★SFK-67A〈★SFK-67AS〉	★SFK-61A〈★SFK-61AS〉

Caster Plate SS





How to use
- Adjuster M12
- Caster A
- Caster B
- Commercial Hanging Bolt, etc



■Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

Name	Caster Plate SS 〈Caster Plate SS(Stainless)〉
Item No.	★SFJ-7A1〈★SFJ-7A1S〉

■Material/Technical Data

	Caster Plate SS	Caster Plate SS(Stainless)
Material	SS400 Uni-chrome	SUS304
Weight	530g	530g

Environment ★RoHS Compliant ★Green Procurement

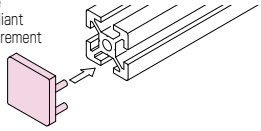
Example of order

Parts
How to order
Item No. Quantity (set)
SFK-55A □□

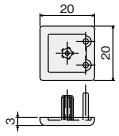
Frame Cap



Material/Polyamide
Environment/RoHS Compliant
Green Procurement
Weight/In the drawing



Frame Cap 2020



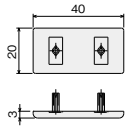
Weight/1.3g

Usable Frame



SF-20·20(1F/2F/3F/2H)

Frame Cap 2040



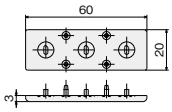
Weight/2.3g

Usable Frame



SF-20·40, SF-20·40·1F,
※SF-20·80

Frame Cap 2060



Weight/4.1g

Usable Frame

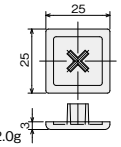


SF-20·60

Name	Frame Cap 2020 (Black)	Frame Cap 2020 (Light Gray)	Frame Cap 2040 (Black)	Frame Cap 2040 (Light Gray)	Frame Cap 2060 (Black)	Frame Cap 2060 (Light Gray)
Item No.	SFA-009	SFA-009G	SFA-010	SFA-010G	SFA-012	SFA-012G

※Use 2 pcs for SF20·80

Frame Cap 2525



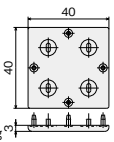
Weight/2.0g

Usable Frame



SF-25·25

Frame Cap 40402S



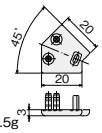
Weight/5.1g

Usable Frame



SF-40·40·2S(1F/2F)
※SF-40·80·SS

Frame Cap 20·DE45



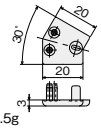
Weight/1.5g

Usable Frame



SF-20·DE45

Frame Cap 20·DE30



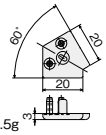
Weight/1.5g

Usable Frame



SF-20·DE30

Frame Cap 20·DE60



Weight/1.5g

Usable Frame

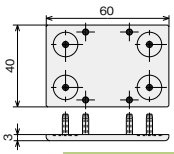


SF-20·DE60

Name	Frame Cap 2525 (Black)	Frame Cap 2525 (Light Gray)	Frame Cap 40402S (Black)	Frame Cap 40402S (Light Gray)	Frame Cap 20·DE45 (Black)	Frame Cap 20·DE45 (Light Gray)	Frame Cap 20·DE30 (Black)	Frame Cap 20·DE30 (Light Gray)	Frame Cap 20·DE60 (Black)	Frame Cap 20·DE60 (Light Gray)
Item No.	SFA-027	SFA-027G	SFA-014	SFA-014G	SFA-J5B	SFA-J5BG	SFA-J5A	SFA-J5AG	SFA-J5C	SFA-J5CG

※Use 2 pcs for SF40·80·SS

Frame Cap 4060SS



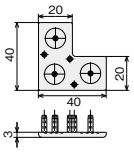
Weight/8.9g

Usable Frame



SF-40·60·SS

Frame Cap 204040



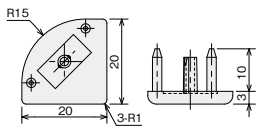
Weight/4.3g

Usable Frame



SF-20·40·40

Frame Cap 20·20·R



Weight/1.2g

Usable Frame

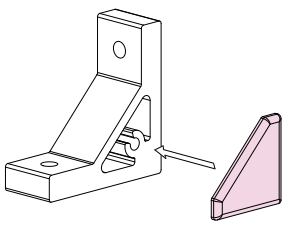


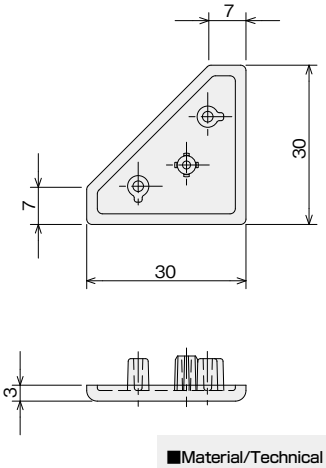
SF-20·20·R

Name	Frame Cap 4060SS (Black)	Frame Cap 4060SS (Light Gray)	Frame Cap 204040 (Black)	Frame Cap 204040 (Light Gray)	Frame Cap 20·20·R (Black)	Frame Cap 20·20·R (Light Gray)
Item No.	SFA-017	SFA-017G	SFA-J9A	SFA-J9AG	SFA-023	SFA-023G

Hard Bracket Cap







Name	Hard Bracket Cap (Black)	(Light Gray)
Item No.	SFA-J11	SFA-J11G

■Usable Frame



Hard Bracket SSG
Hard Bracket SSG2040
Hard Bracket SSG2060

■Material/Technical Data

Material Polyamide
Weight 1.8g
Environment RoHS Compliant
Green Procurement

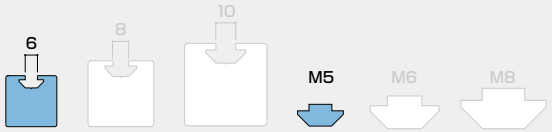
We sell Nut Material and Bracket Material as well.

T Nut SS Material P31

●Hard Bracket SS Material
●Angle Bracket SS Material

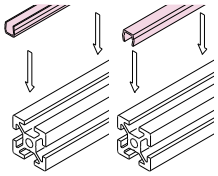


SF20 SERIES

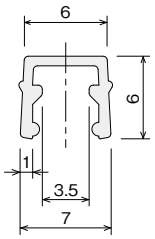


Slot CapSS





Slot Cap SS



Name	Slot Cap SS ℓ=2000/pcs (Black)	(Light Gray)
Item No.	SFA-103	SFA-103G

Name	Slot Cap SS ℓ=2000/pcs (Blue)	(Ivory)	(Green)	(Yellow)	(Red)
Item No.	SFA-103L	SFA-103V	SFA-103M	SFA-103Y	SFA-103R

■Usable Frame



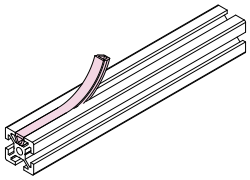
Compatible to all SF20 series (Groove Width 6mm)

■Material/Technical Data

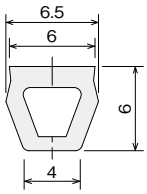
Material Polyethylene
unit mass 14g/m
Environment **RoHS** Compliant
Green Procurement

Slot Seal SS





Slot Seal SS



Name	Slot Seal SS ℓ=5000/pcs
Item No.	SFA-170

■Usable Frame

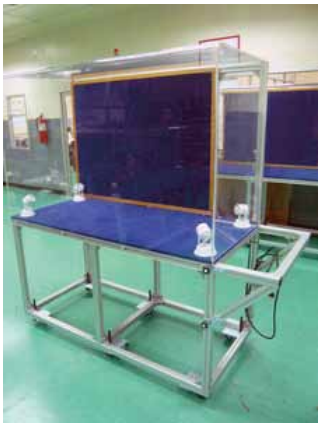


Compatible to all SF20 series (Groove Width 6mm)

■Material/Technical Data

Material Elastomer
Unit Mass 21g/m
Environment **RoHS** Compliant
Green Procurement



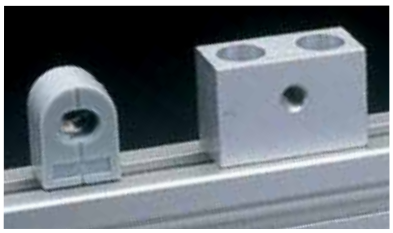


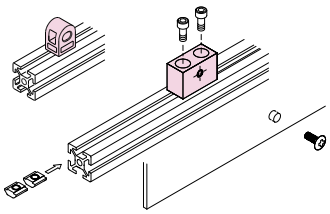


Parts
How to order
Item No. Quantity (pcs)
SFA-103 □□

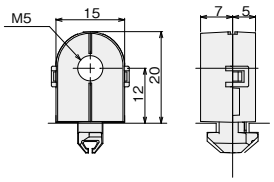
● Exclusive Cutter for Slot Cap and Slot Seal is available.

Cover Holder SS / Cover Support SS / Cover Support SS Flat

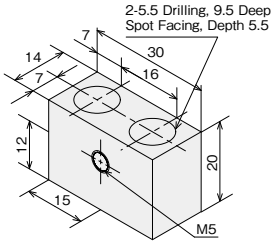




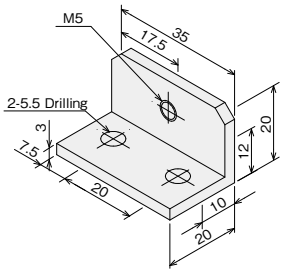
Cover Holder SS



Cover Suppot SS



Cover Suppot SS Flat



■Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

■Kit Contents

〈Cover Support SS Kit〉
- ●Cover Support SS×1
- ●Hexagon Socket Bolt (M5×20) ×2
- ●T Nut SS(M5) ×2
- ●Truss Screw(M5×10) ×1

〈Cover Support SS Flat Kit〉
- ●Cover Support SS Flat×1
- ●Hexagon Socket Bolt (M5×8) ×2
- ●T Nut SS(M5) ×2
- ●Truss Screw(M5×10) ×1

※Bolt and Nut in CN (Stainless) Kit are stainless.

■Material/Technical Data

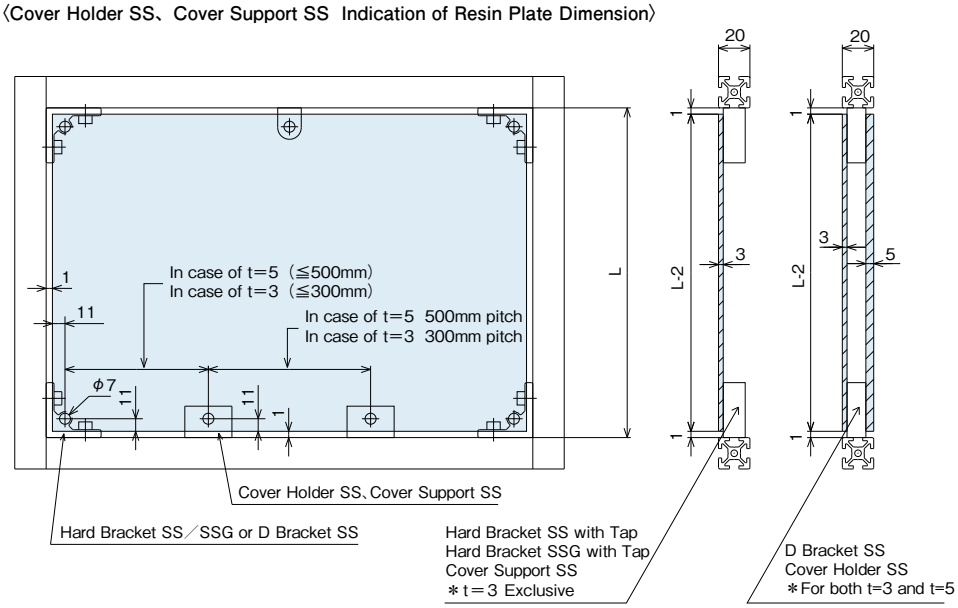
Cover Holder SS
Material: Polyamide, Color/Light gray
Weight: 4g ※M5 Nut ×1
Environment: ★RoHS Compliant, ★Green Procurement

Cover Suppot SS
Cover Suppot SS Flat
Material: A6063S-T5(Special order: Black Alumite is also available.)
Weight: 19g(Cover Support SS) 10g(Cover Suppot SS Flat)
Environment: ★RoHS Compliant, ★Green Procurement

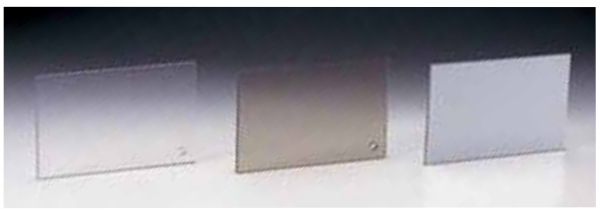
Name	Cover Holder SS	Cover Support SS	Cover Support SS Kit (Cover Support SS(Stainless)Kit)	Cover Support SS Flat	Cover Support SS Flat Kit (Cover Support SS Flat(Stainless)Kit)
Item No.	★SFA-KH5	★SFJ-K01	★SFK-K01〈★SFK-K01S〉	★SFJ-K11	★SFK-K11〈★SFK-K11S〉

How to fix Cover

〈Cover Holder SS、Cover Support SS Indication of Resin Plate Dimension〉



〈Resin plate〉



GO Various Resin Plates are available.
Refer P182～.

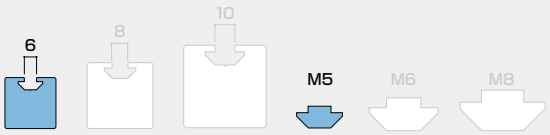
〈Door accessories〉



GO Various parts for door are available.
Refer P140～.

We sell Nut Material and Bracket Material as well.
T Nut SS Material P31
●Hard Bracket SS Material
●Angle Bracket SS Material
Material Frame

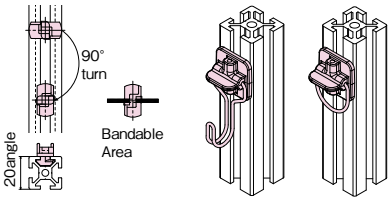
SF20 SERIES



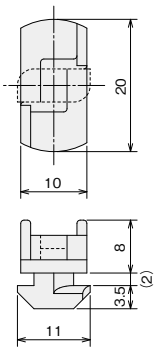
Cable Clamp SS (last-in) / Slot Hook SS (U), (J)



〈Cable ClampSS〉 〈Slot Hook SS〉

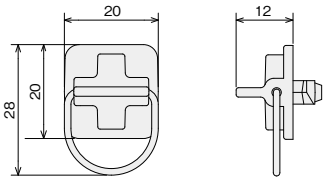


Cable Clamp SS

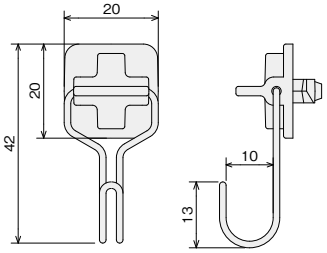


Slot Hook SS

U Type



J Type



Name	Cable Clamp SS (Black)	Cable Clamp SS (Light Gray)
Item No.	C1P-B03C	C1P-003C

Name	Slot Hook SS (U Type)	Slot Hook SS (J Type)
Item No.	SFK-K31U	SFK-K31J

■Usable Frame



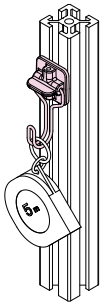
Compatible to all SF20 series (Groove Width 6mm)

■Material/Technical Data

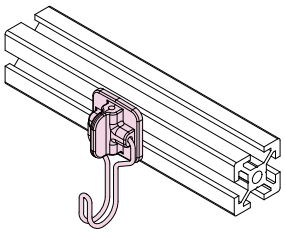
	Cable Clamp SS	Slot Hook SS U Type・J Type
Material	Polyamide(Body) Stainless(Hook) Color/Black・Light Gray	Polyamide(Body) Stainless(Hook) Color/Light Gray
Weight	1g/piece	2.5g(U Type) ・3g(J Type)/Load capacity 1.5kg
Environment	RoHS Compliant Green Procurement	

How to use Slot Hook

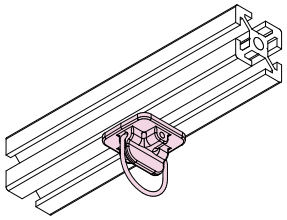
〈To hang small article and tool〉



〈To hang memo pad〉

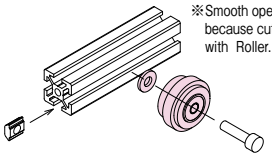


〈To store manual where you can see anytime〉



Slot Roller SS

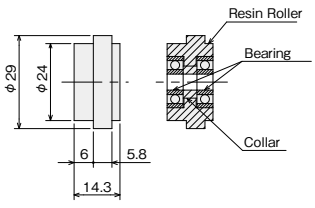




※Smooth operation is possible because cutting work is done with Roller.

Name	Slot Roller SS
Item No.	SFK-805

Slot Roller SS



■Usable Frame



Compatible to all SF20 series (Groove Width 6mm)

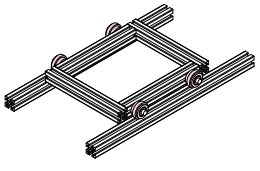
■Material/Technical Data

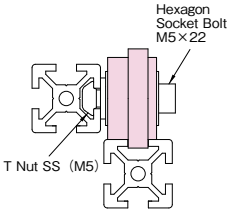
Material Nylon 6(Resin Roller) S45C(Collar) Steel(Bearing)
Weight 18g
Environment RoHS Compliant Green Procurement

※Size of the attaching bolt : M5
※Appropriate Tightening Torque : 7.4N・m
※2 Bearings・1 Collar・1 Washer

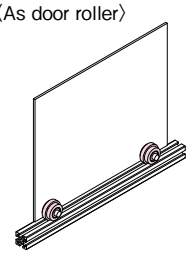
Example of use

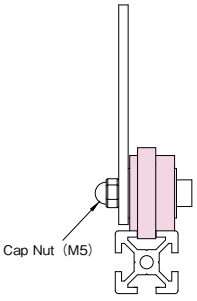
〈To frame's movable part〉





〈As door roller〉





Parts
How to order
Item No. Quantity (Pac)
C1P-B03C □□

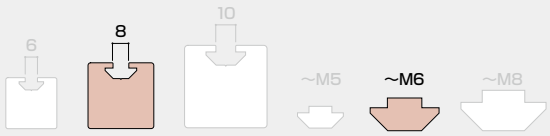


STANDARD FRAME

SF30

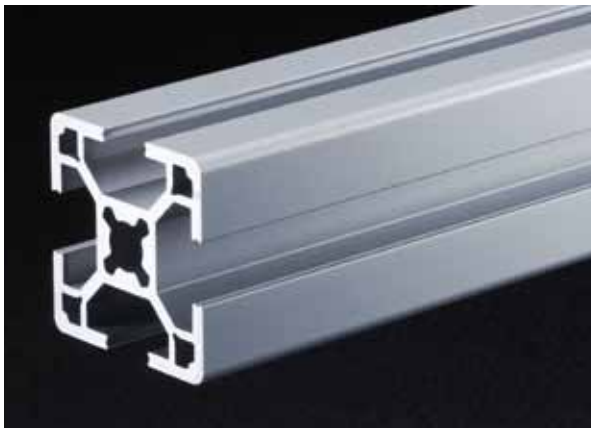
SERIES

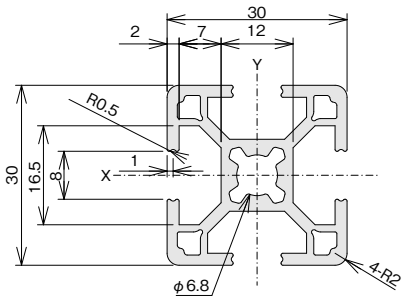
SF30 SERIES



SF2-30·30

Asia





Name	SF2-30·30 ℓ= 4000	SF2-30·30 ℓ=50~4000
Item No.	SFF-322-T	SFF-324-T

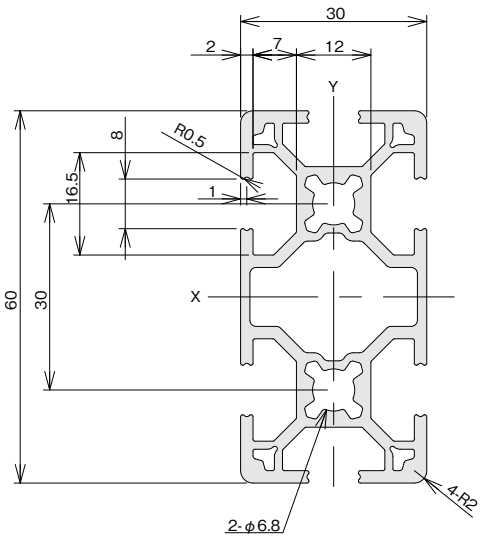
■Material/Technical Data

Material	Aluminium Alloy
	Alumite Treatment
Environment	**RoHS** Compliant
	Green Procurement
Geometrical Moment of Inertia	Ix=2.85×10⁴mm⁴
	Iy=2.85×10⁴mm⁴
Section Modulus	Zx=1.90×10³mm³
	Zy=1.90×10³mm³
Unit Mass	0.83kg/m

SF2-30·60

Asia





Name	SF2-30·60 ℓ= 4000	SF2-30·60 ℓ=50~4000
Item No.	SFF-332-T	SFF-334-T

■Material/Technical Data

Material	Aluminium Alloy
	Alumite Treatment
Environment	**RoHS** Compliant
	Green Procurement
Geometrical Moment of Inertia	Ix=20.79×10⁴mm⁴
	Iy=5.41×10⁴mm⁴
Section Modulus	Zx=6.93×10³mm³
	Zy=3.61×10³mm³
Unit Mass	1.49kg/m

Example of order

SF Frame

Standard(ℓ=4000) (Cut by customer)
Item No. SFF-322-T
ℓ=4030·Effective range of use ℓ=4000

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. SFF-324-T Length (mm) ℓ=800

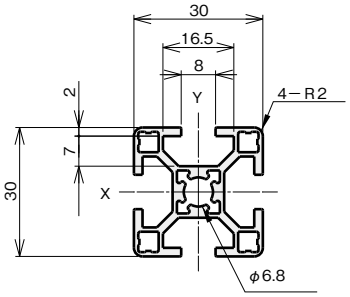
SF-K•30•30

Asia



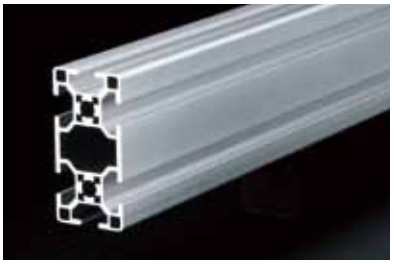
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=2.38×10⁴mm⁴
Iy=2.38×10⁴mm⁴
Section Modulus ..... Zx=1.59×10³mm³
Zy=1.59×10³mm³
Unit Mass 0.73kg/m

Name	SF-K•30•30 ℓ= 4000	SF-K•30•30 ℓ=50~4000
Item No.	SFF-B12-T	SFF-B14-T



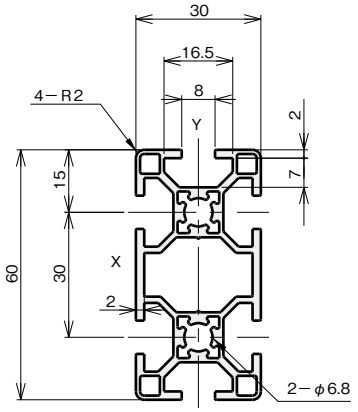
SF-K•30•60

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=16.68×10⁴mm⁴
Iy=4.63×10⁴mm⁴
Section Modulus ..... Zx=5.56×10³mm³
Zy=3.09×10³mm³
Unit Mass 1.30kg/m

Name	SF-K•30•60 ℓ= 4000	SF-K•30•60 ℓ=50~4000
Item No.	SFF-B22-T	SFF-B24-T



SF-30•90 / SF-30•120

Asia (SF-30•90 only)

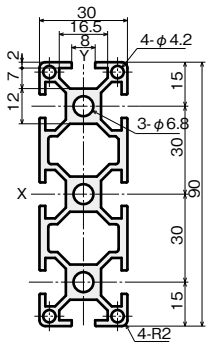


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement

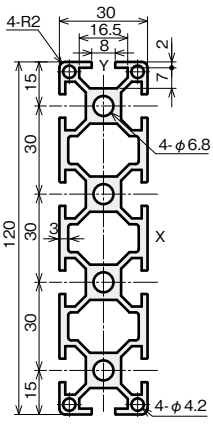
	SF-30•90	SF-30•120
Geometrical Moment of Inertia	Ix=66.28×10⁴mm⁴	Ix=152.16×10⁴mm⁴
	Iy=8.44×10⁴mm⁴	Iy=11.19×10⁴mm⁴
Section Modulus	Zx=14.7×10³mm³	Zx=25.36×10³mm³
	Zy=5.6×10³mm³	Zy=7.46×10³mm³
Unit Mass	2.44kg/m	3.21kg/m

Name	SF-30•90 ℓ= 4000	SF-30•90 ℓ=50~4000
Item No.	SFF-392-T	SFF-394-T

Name	SF-30•120 ℓ= 4000	SF-30•120 ℓ=50~4000
Item No.	SFF-312	SFF-314



SF-30•90



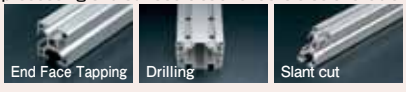
SF-30•120

●Exclusive Nut

T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P60~

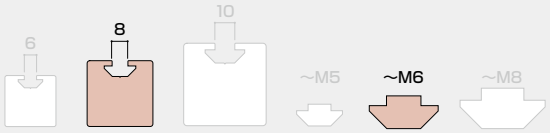
●Exclusive Cap

Frame Cap
P80.81

●Additional processing and surface treatment are also available.


P208~

SF30 SERIES

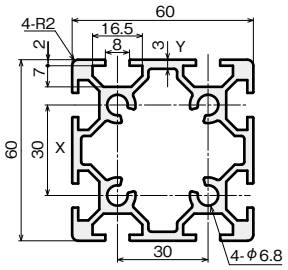


SF-60·60·2S

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=41.38×10⁴mm⁴
Iy=41.38×10⁴mm⁴
Section Modulus ..... Zx=13.79×10³mm³
Zy=13.79×10³mm³
Unit Mass 2.63kg/m

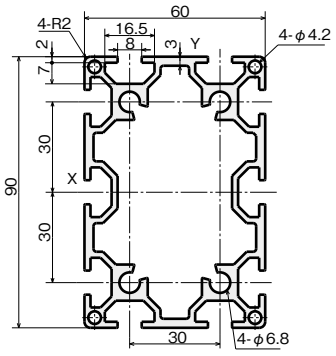


Name	SF-60·60·2S ℓ= 4000	SF-60·60·2S ℓ=50~4000
Item No.	SFF-602W-T	SFF-604W-T

SF-60·90

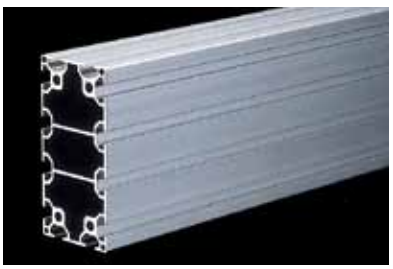


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=111.61×10⁴mm⁴
Iy=52.65×10⁴mm⁴
Section Modulus ..... Zx=24.8×10³mm³
Zy=17.56×10³mm³
Unit Mass 3.10kg/m

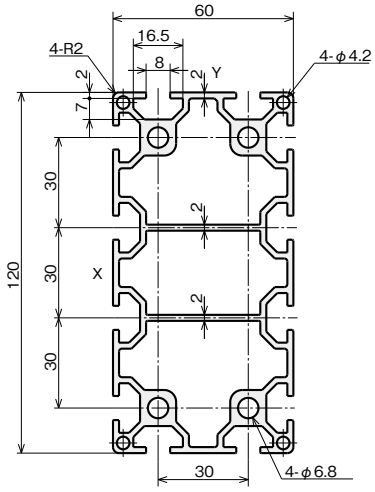


Name	SF-60·90 ℓ= 4000	SF-60·90 ℓ=50~4000
Item No.	SFF-692	SFF-694

SF-60·120



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=242.90×10⁴mm⁴
Iy=65.97×10⁴mm⁴
Section Modulus ..... Zx=40.48×10³mm³
Zy=21.99×10³mm³
Unit Mass 4.13kg/m



Name	SF-60·120 ℓ= 4000	SF-60·120 ℓ=50~4000
Item No.	SFF-612	SFF-614

SF Frame
Standard(ℓ =4000) (Cut by customer)
Item No. ℓ=4030·Effective range of use ℓ=4000
SFF-602W-T

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) Item No. Length (mm)
SFF-604W-T ℓ=800

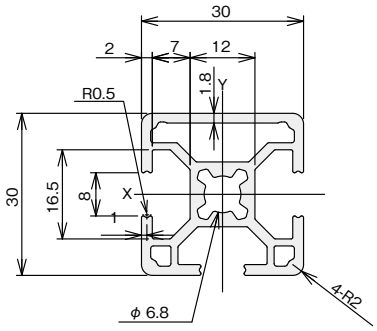
Example of order

SF2-30•30•1F

Asia



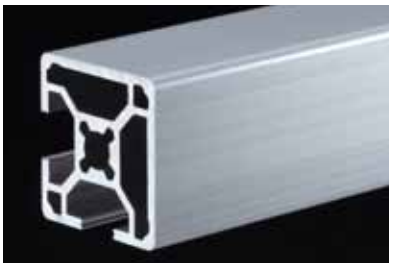
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=3.03×10⁴mm⁴
Iy=2.82×10⁴mm⁴
Section Modulus ..... Zx=1.99×10³mm³
Zy=1.88×10³mm³
Unit Mass 0.85kg/m



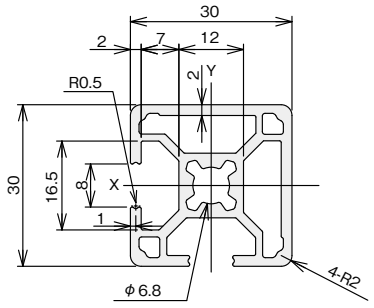
Name	SF2-30•30•1F ℓ = 4000	SF2-30•30•1F ℓ =50~4000
Item No.	SFF-3E2-T	SFF-3E4-T

SF2-30•30•2F

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=3.09×10⁴mm⁴
Iy=3.09×10⁴mm⁴
Section Modulus ..... Zx=1.98×10³mm³
Zy=1.98×10³mm³
Unit Mass 0.89kg/m



Name	SF2-30•30•2F ℓ = 4000	SF2-30•30•2F ℓ =50~4000
Item No.	SFF-3F2-T	SFF-3F4-T

SF2-30•30•3F / SF2-30•30•2H

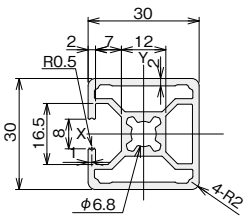
Asia



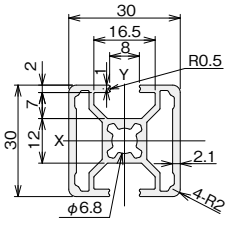


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement

	SF2-30•30•3F	SF2-30•30•2H
Geometrical Moment of Inertia	Ix=3.01×10⁴mm⁴	Ix=2.7×10⁴mm⁴
	Iy=3.27×10⁴mm⁴	Iy=3.25×10⁴mm⁴
Section Modulus	Zx=1.93×10³mm³	Zx=1.8×10³mm³
	Zy=2.18×10³mm³	Zy=2.17×10³mm³
Unit Mass	0.90kg/m	0.86kg/m



SF2-30•30•3F



SF2-30•30•2H

Name	SF2-30•30•3F ℓ = 4000	SF2-30•30•3F ℓ =50~4000
Item No.	SFF-3G2-T	SFF-3G4-T

Name	SF2-30•30•2H ℓ = 4000	SF2-30•30•2H ℓ =50~4000
Item No.	SFF-3H2-T	SFF-3H2-T

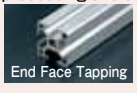
●Exclusive Nut T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P60~

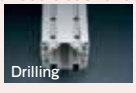


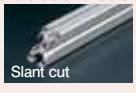
●Exclusive Cap
Frame Cap
P80,81



●Additional processing and surface treatment are also available.

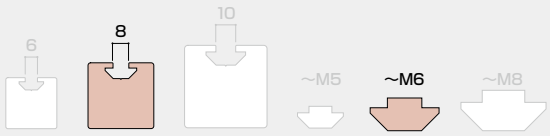

End Face Tapping


Drilling


Slant cut

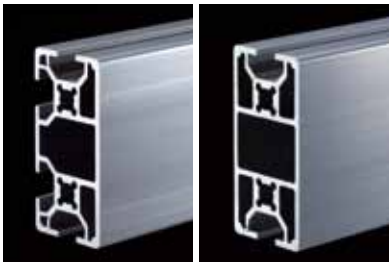
P208~

SF30 SERIES



SF2-30·60·1F / SF2-30·60·2H

Asia

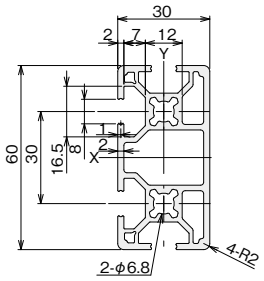


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement

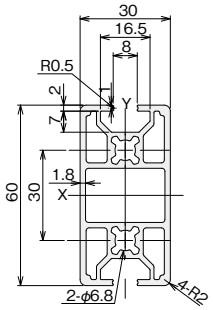
	SF2-30·60·1F	SF2-30·60·2H
Geometrical Moment of Inertia	Ix=20.93×10⁴mm⁴ Iy=5.95×10⁴mm⁴	Ix=21.21×10⁴mm⁴ Iy=6.35×10⁴mm⁴
Section Modulus	Zx=6.98×10³mm³ Zy=3.81×10³mm³	Zx=7.08×10³mm³ Zy=4.23×10³mm³
Unit Mass	1.55kg/m	1.58kg/m

Name	SF2-30·60·1F ℓ= 4000	SF2-30·60·1F ℓ=50~4000
Item No.	SFF-5E2-T	SFF-5E4-T

Name	SF2-30·60·2H ℓ= 4000	SF2-30·60·2H ℓ=50~4000
Item No.	SFF-6H2-T	SFF-6H4-T



SF2-30·60·1F



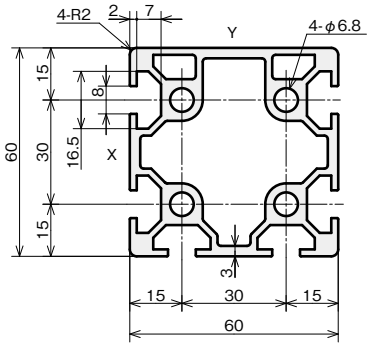
SF2-30·60·2H

SF-60·60·2S·1F

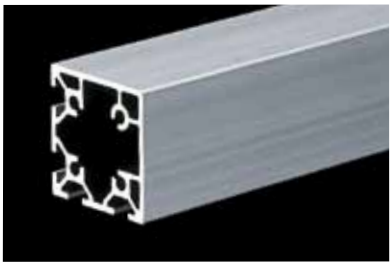


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=45.35×10⁴mm⁴ Iy=43.34×10⁴mm⁴
Section Modulus ..... Zx=15.61×10³mm³ Zy=14.45×10³mm³
Unit Mass 2.90kg/m

Name	SF-60·60·2S·1F ℓ= 4000	SF-60·60·2S·1F ℓ=50~4000
Item No.	SFF-E62W	SFF-E64W

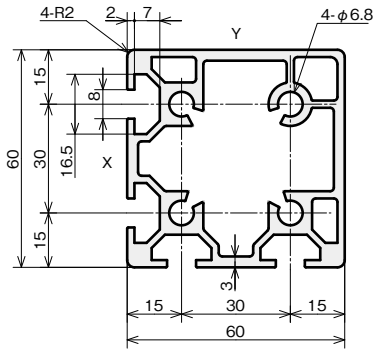


SF-60·60·2S·2F



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... x=43.75×10⁴mm⁴ Iy=43.75×10⁴mm⁴
Section Modulus ..... Zx=14.66×10³mm³ Zy=14.66×10³mm³
Unit Mass 2.73kg/m

Name	SF-60·60·2S·2F ℓ= 4000	SF-60·60·2S·2F ℓ=50~4000
Item No.	SFF-F62W	SFF-F64W



SF Frame
Standard(ℓ =4000) (Cut by customer)
Item No. ℓ=4030·Effective range of use ℓ =4000
SFF-5E2-T

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) Item No. Length (mm)
□□ SFF-5E4-T ℓ =800

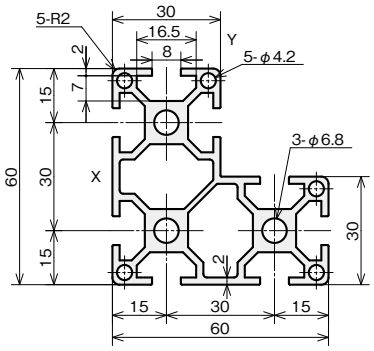
Example of order

SF-30·60·60



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=27.29×10⁴㎜⁴ Iy=27.29×10⁴㎜⁴
Section Modulus	Zx=10.75×10³㎜³ Zy=10.75×10³㎜³
Unit Mass	2.33kg/m



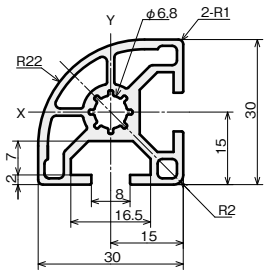
Name	SF-30·60·60 ℓ= 4000	SF-30·60·60 ℓ=50~4000
Item No.	SFF-G12	SFF-G14

SF-30·30·R



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=2.42×10⁴㎜⁴ Iy=2.42×10⁴㎜⁴
Section Modulus	Zx=1.53×10³㎜³ Zy=1.53×10³㎜³
Unit Mass	0.82/m

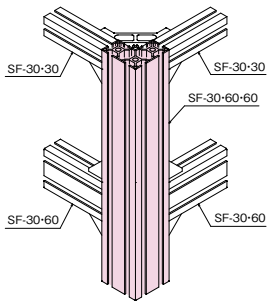


SF-30·30·R

Name	SF-30·30·R ℓ= 4000	SF-30·30·R ℓ=50~4000
Item No.	SFF-R62	SFF-R64

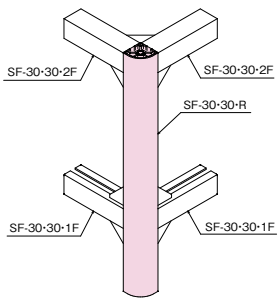
How to use Frames

〈SF-30·60·60〉



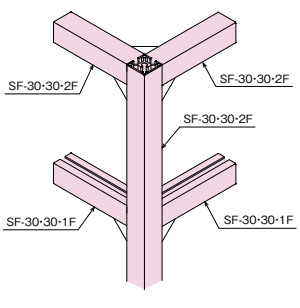
●As the reinforcing Frame at corner, or to ensure space inside.

〈SF-30·30·R〉



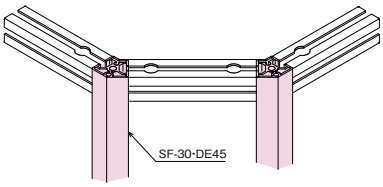
●For safety and beauty by the round corner.

〈SF-30·30·1F〉
〈SF-30·30·2F〉



●For the clean environment without Frame grave externally.

〈SF-30·DE30〉
〈SF-30·DE45〉
〈SF-30·DE60〉



●Many variations to construct angles other than 90°

●Exclusive Nut



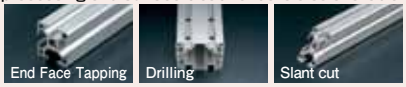
T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P60~

●Exclusive Cap



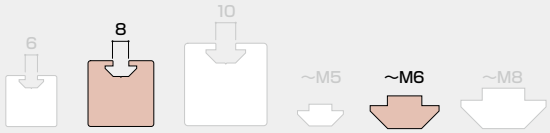
Frame Cap
P80.81

●Additional processing and surface treatment are also available.



P208~

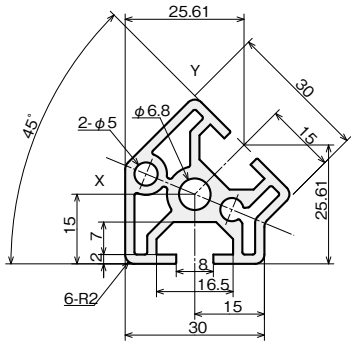
SF30 SERIES



SF-30·DE45

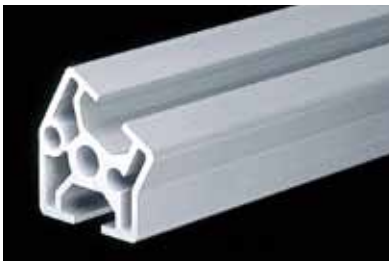


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=3.21×10⁴mm⁴
Iy=3.72×10⁴mm⁴
Section Modulus ..... Zx=1.56×10³mm³
Zy=1.86×10³mm³
Unit Mass 1.08kg/m

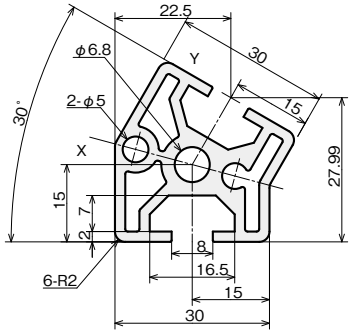


Name	SF-30·DE45 ℓ= 4000	SF-30·DE45 ℓ=50~4000
Item No.	SFF-J62B	SFF-J64B

SF-30·DE30

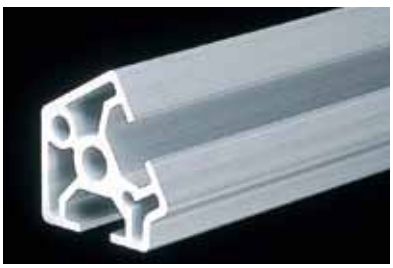


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=3.15×10⁴mm⁴
Iy=3.86×10⁴mm⁴
Section Modulus ..... Zx=1.58×10³mm³
Zy=2.00×10³mm³
Unit Mass 1.11kg/m

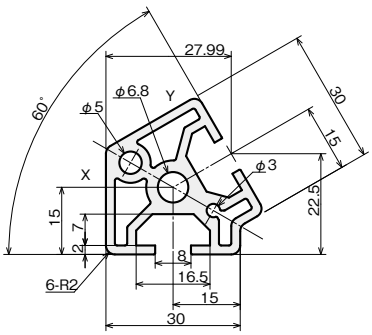


Name	SF-30·DE30 ℓ= 4000	SF-30·DE30 ℓ=50~4000
Item No.	SFF-J62A	SFF-J64A

SF-30·DE60



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=3.33×10⁴mm⁴
Iy=3.70×10⁴mm⁴
Section Modulus ..... Zx=1.67×10³mm³
Zy=1.89×10³mm³
Unit Mass 1.10kg/m



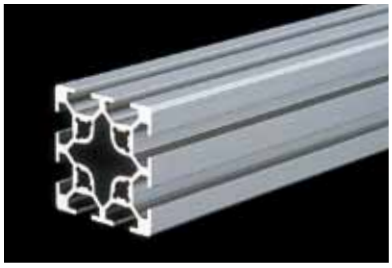
Name	SF-30·DE60 ℓ= 4000	SF-30·DE60 ℓ=50~4000
Item No.	SFF-J62C	SFF-J64C

SF Frame
Standard(ℓ =4000) (Cut by customer)
Item No. SFF-J62B
ℓ=4030·Effective range of use ℓ =4000
Quantity (pcs) □□
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. SFF-J64B
Length (mm) ℓ=800

Example of order

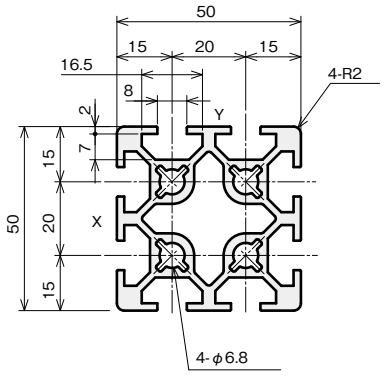
SF-50•50•2S

Asia



■Material/Technical Data

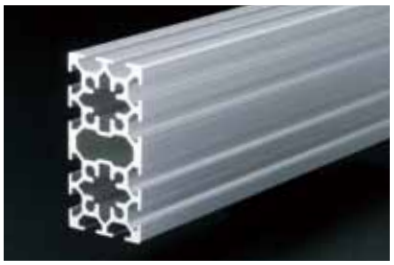
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=21.67×10⁴mm⁴ Iy=21.67×10⁴mm⁴
Section Modulus	Zx=8.67×10³mm³ Zy=8.67×10³mm³
Unit Mass	2.32kg/m



Name	SF-50•50•2S ℓ= 4000	SF-50•50•2S ℓ=50~4000
Item No.	SFF-502-T	SFF-504-T

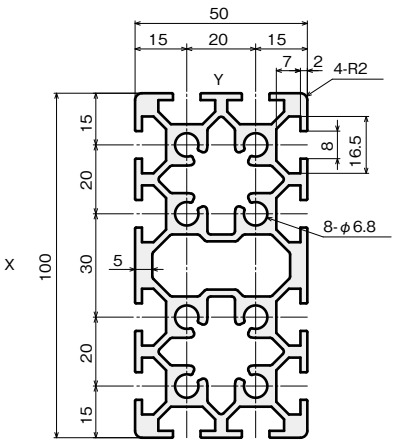
SF-50•100•2S

Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=153.40×10⁴mm⁴ Iy=42.48×10⁴mm⁴
Section Modulus	Zx=30.68×10³mm³ Zy=16.99×10³mm³
Unit Mass	4.28kg/m



Name	SF-50•100•2S ℓ= 4000	SF-50•100•2S ℓ=50~4000
Item No.	SFF-512-T	SFF-514-T

SF-50•50•2S•1F / SF-50•50•2S•2F



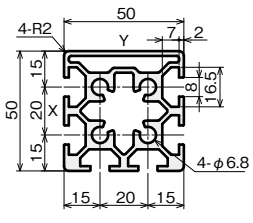


■Material/Technical Data

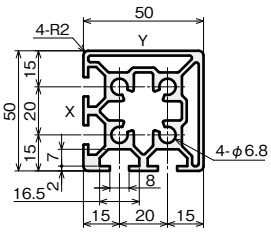
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-50•50•2S•1F	SF-50•50•2S•2F
Geometrical Moment of Inertia	Ix=22.23×10⁴mm⁴ Iy=21.4×10⁴mm⁴	Ix=22.26×10⁴mm⁴ Iy=22.26×10⁴mm⁴
Section Modulus	Zx=8.87×10³mm³ Zy=8.56×10³mm³	Zx=8.77×10³mm³ Zy=8.77×10³mm³
Unit Mass	2.33kg/m	2.36kg/m

Name	SF-50•50•2S•1F ℓ= 4000	SF-50•50•2S•1F ℓ=50~4000
Item No.	SFF-E52	SFF-E54

Name	SF-50•50•2S•2F ℓ= 4000	SF-50•50•2S•2F ℓ=50~4000
Item No.	SFF-F52	SFF-F54



SF-50•50•2S•1F



SF-50•50•2S•2F

●Exclusive Nut



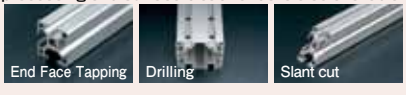
T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P60~

●Exclusive Cap



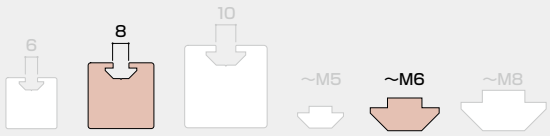
Frame Cap P80, 81

●Additional processing and surface treatment are also available.



P208~

SF30 SERIES

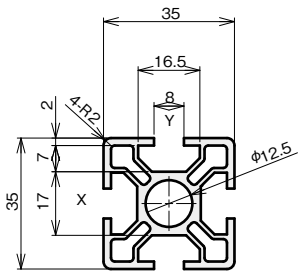


SF-35·35



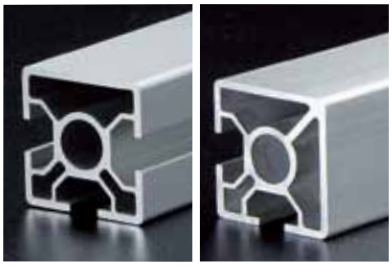
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=5.12×10⁴㎜⁴ Iy=5.12×10⁴㎜⁴
Section Modulus	Zx=2.93×10³㎜³ Zy=2.93×10³㎜³
Unit Mass	1.11kg/m



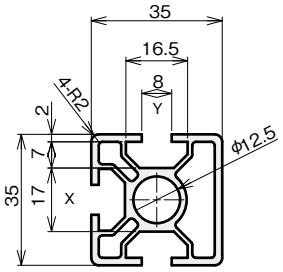
Name	SF-35·35 ℓ= 4000	SF-35·35 ℓ=50~4000
Item No.	SFF-3A2	SFF-3A4

SF-35·35·1F / SF-35·35·2F

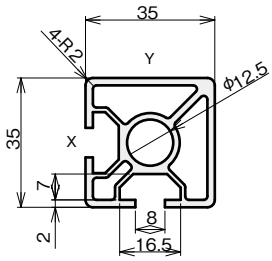


■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment	
Environment	**RoHS** Compliant **Green** Procurement	
	SF-35·35·1F	SF-35·35·2F
Geometrical Moment of Inertia	Ix=4.98×10⁴㎜⁴ Iy=5.17×10⁴㎜⁴	Ix=5.37×10⁴㎜⁴ Iy=5.37×10⁴㎜⁴
Section Modulus	Zx=2.84×10³㎜³ Zy=2.92×10³㎜³	Zx=2.98×10³㎜³ Zy=2.98×10³㎜³
Unit Mass	1.06kg/m	1.09kg/m



SF-35·35·1F



SF-35·35·2F

Name	SF-35·35·1F ℓ= 4000	SF-35·35·1F ℓ=50~4000
Item No.	SFF-EA2	SFF-EA4

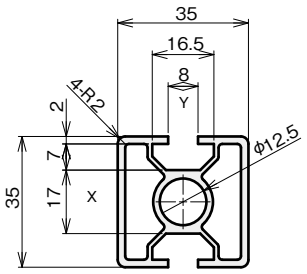
Name	SF-35·35·2F ℓ= 4000	SF-35·35·2F ℓ=50~4000
Item No.	SFF-FA2	SFF-FA4

SF-35·35·2H



■Material/Technical Data

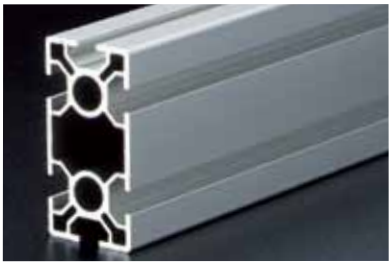
Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=4.83×10⁴㎜⁴ Iy=5.23×10⁴㎜⁴
Section Modulus	Zx=2.76×10³㎜³ Zy=2.99×10³㎜³
Unit Mass	1.02kg/m



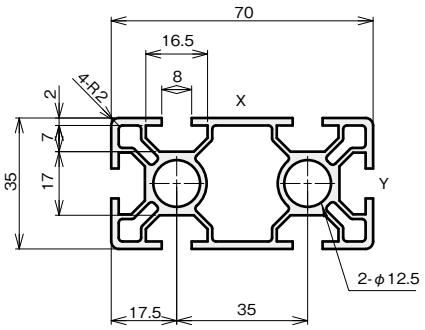
Name	SF-35·35·2H ℓ= 4000	SF-35·35·2H ℓ=50~4000
Item No.	SFF-GA2	SFF-GA4

SF Frame
Standard(ℓ =4000) (Cut by customer)
Item No. SFF-3A2 ℓ=4030·Effective range of use ℓ=4000
Quantity (pcs) □□
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. SFF-3A4 Length (mm) ℓ=800

SF-35・70

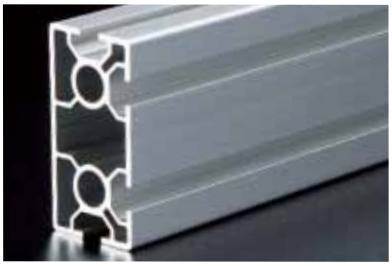


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=35.09×10⁴㎜⁴
Iy=9.04×10⁴㎜⁴
Section Modulus ..... Zx=10.03×10³㎜³
Zy=5.16×10³㎜³
Unit Mass 1.80kg/m

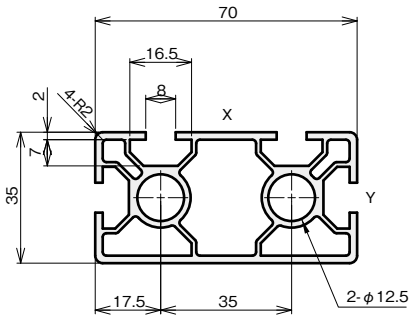


Name	SF-35・70 ℓ= 4000	SF-35・70 ℓ=50~4000
Item No.	SFF-3B2	SFF-3B4

SF-35・70・1F

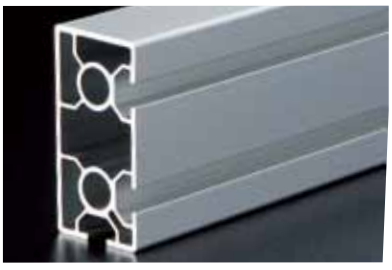


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=33.94×10⁴㎜⁴
Iy=9.47×10⁴㎜⁴
Section Modulus ..... Zx=9.70×10³㎜³
Zy=5.36×10³㎜³
Unit Mass 1.78kg/m

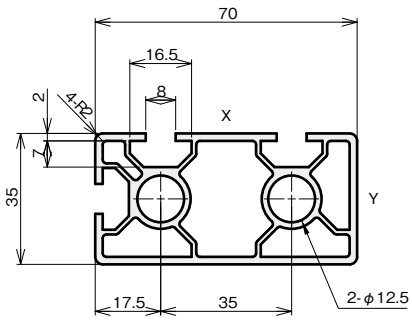


Name	SF-35・70・1F ℓ= 4000	SF-35・70・1F ℓ=50~4000
Item No.	SFF-EB2	SFF-EB4

SF-35・70・2F



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... **RoHS** Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=34.26×10⁴㎜⁴
Iy=9.42×10⁴㎜⁴
Section Modulus ..... Zx=9.79×10³㎜³
Zy=5.27×10³㎜³
Unit Mass 1.77kg/m



Name	SF-35・70・2F ℓ= 4000	SF-35・70・2F ℓ=50~4000
Item No.	SFF-FB2	SFF-FB4

●Exclusive Nut

T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P60~

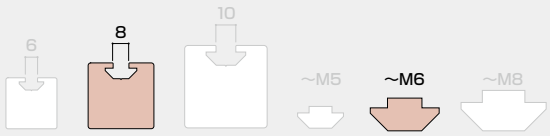
●Exclusive Cap

Frame Cap
P80.81

●Additional processing and surface treatment are also available.

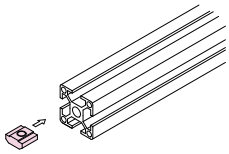

P208~

SF30 SERIES

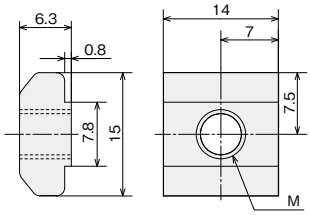


T Nut S (M※) / Anti-Sliding Cap S





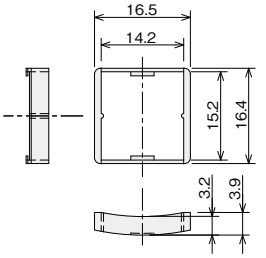
T Nut S (M※)



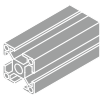
Name	T Nut S(M6) 〈ST Nut S (M6)〉	T Nut S(M5) 〈ST Nut S (M5)〉	T Nut SS(M4) 〈ST Nut SS (M4)〉	T Nut SS(M3) 〈ST Nut SS (M3)〉
Item No.	SFB-002 〈SFN-TS6〉	SFB-001 〈SFN-TS5〉	SFB-006 〈SFN-TS4〉	SFB-005 〈SFN-TS3〉

Name	Anti-Sliding Cap S (50pcs/pack)
Item No.	SFA-906

Anti-Sliding Cap S
(for T Nut S and Aluminum T Nut S)



■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

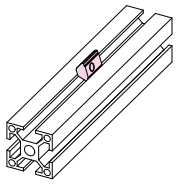
■Material/Technical Data

	T Nut SS	ST Nut SS	Anti-Sliding Cap SS
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	Black Polyamide
Weight	8g	8g	0.2g/piece

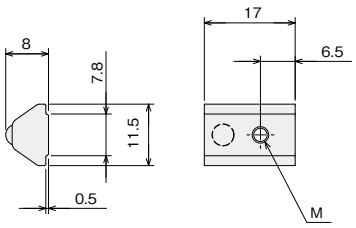
Environment **RoHS** Compliant **Green** Procurement

Easy Nut SS (M※)





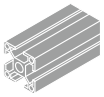
※One-Touch to insert later and Anti-Skid as well



Name	Easy Nut S (M6)	Easy Nut S (M5)	Easy Nut S (M4)	Easy Nut S (M3)
Item No.	SFB-PN19	SFB-PN18	SFB-PN17	SFB-PN16

Name	S Easy Nut S (M6) Stainless	S Easy Nut S (M5) Stainless	S Easy Nut S (M4) Stainless	S Easy Nut S (M3) Stainless
Item No.	SFN-ES6	SFN-ES5	SFN-ES4	SFN-ES3

■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

■Material/Technical Data

	Easy Nut S	S Easy Nut S
Material	Equivalent to S10C Uni-Chrome plating	Stainless With Conductive
Weight	6g/piece	

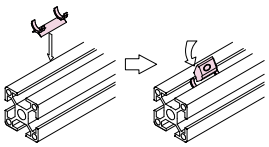
Environment **RoHS** Compliant **Green** Procurement

Example of order

Parts
How to order
Item No.
SFB-002
Quantity (pcs)
□□

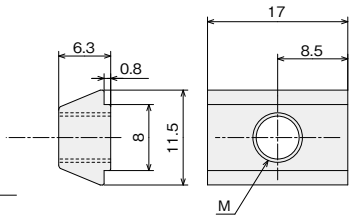
After Nut S(M※) / After Nut Support S



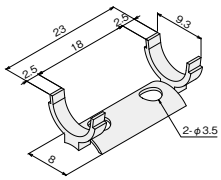


※Using After Nut Support together prevents from slipping.

After Nut S(M※)



After Nut Support S
(for After Nut・Last-In Lock Nut)



Name	After Nut S(M6) 〈S After Nut S(M6)〉	Free Nut S 〈S After Nut S(M5)〉	Free Nut S 〈S After Nut S(M4)〉	Free Nut S 〈S After Nut S(M3)〉
Item No.	SFB-616(SFN-AS6)	SFB-615(SFN-AS5)	SFB-614(SFN-AS4)	SFB-613(SFN-AS3)

Name	After Nut Support S(50pcs/pack)
Item No.	SFA-9A2

■Usable Frame



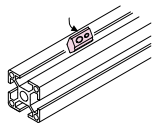
Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

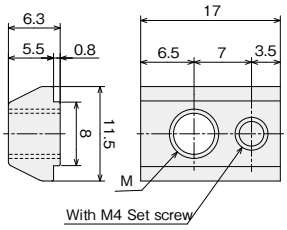
	After Nut S	S After Nut S	After Nut Support S
Material	Equivalent to S10C Uni-Chrome	Stainless	PP Resin
Weight	7g	7g	0.2g/piece
Environment	★RoHS Compliant ★Green Procuremen		

Lock Nut S(M※)



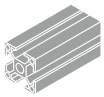


※You can fix Nut and conduct electricity by tightening attached Set Screw.



Name	Lock Nut S(M6) 〈S Lock Nut S(M6)〉	Lock Nut S(M5) 〈Lock Nut S(M5)〉	Lock Nut S(M4) 〈Lock Nut S(M4)〉	Lock Nut S(M3) 〈S Lock Nut S(M3)〉
Item No.	★SFB-4B6(★SFN-LS6)	★SFB-4B5(★SFN-LS5)	★SFB-4B4(★SFN-LS4)	★SFB-4B3(★SFN-LS3)

■Usable Frame



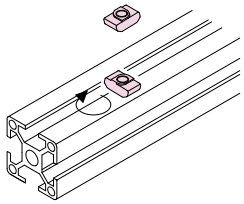
Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

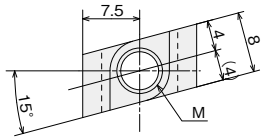
	Lock Nut S	S Lock Nut S
Material	Equivalent to S10C Uni-Chrome	Stainless
Weight	7g	7g
Environment	★RoHS Compliant ★Green Procuremen	

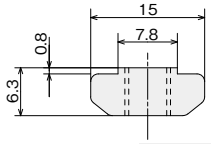
S Free Nut S(M※)





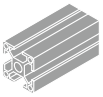
S Free Nut S(M※)





Name	※1 S Free Nut S(M6)	S Free Nut S(M5)	S Free Nut S(M4)	S Free Nut S(M3)
Item No.	SFB-S64	SFN-FS5	SFN-FS4	SFN-FS3

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

	S Free Nut S
Material	Stainless With Conductive Function
Weight	4g
Environment	RoHS Compliant Green Procurement

※1 No conductive type for S Free Nut S (M6)

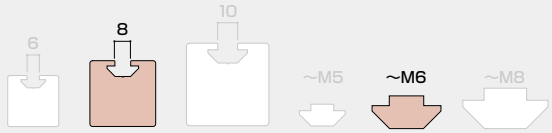
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

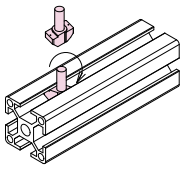

Material Frame

SF30 SERIES

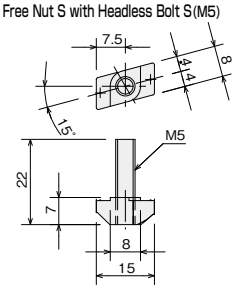


Free Nut S with Headless Bolt S（M5）/ Free Stud S（M5）/ Free Nut Stopper S

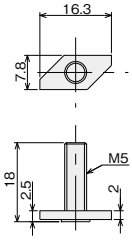




Free Nut S with Headless Bolt S(M5)



Free Stud S(M5)

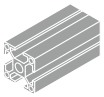


Free Nut Stopper S



Name	Free Nut S with Headless Bolt S(M5)	Free Stud S(M5)
Item No.	★SFN-NS5	★SFN-NSE1

Name	Free Nut Stopper S
Item No.	★SFA-9F1



■Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

■Material/Technical Data

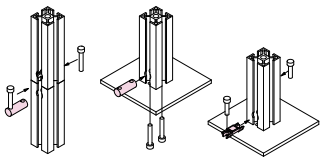
	Free Nut S with Headless Bolt S	Free Stud S	Free Nut Stopper S
Material	Stainless With Conductive Function	SPHC Uni-Chrome Plating	Polyamide
Weight	7g	4g	0.3g
Environment	★RoHS Compliant ★Green Procurement		

※Tightening Torque is below 1.2N·m for Free Stad S.
(Use Knurling Nut)

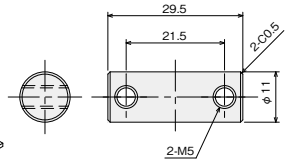
Double Round Lock Nut S30/S Double Joint 30



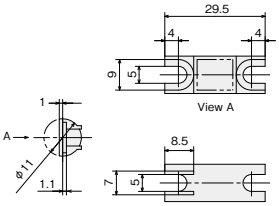




Double Round Lock Nut S30

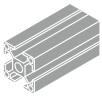


S Double Joint 30



Name	Double Round Lock Nut S30	S Double Joint 30
Item No.	SFJ-250S	SFK-391S

■Usable Frame



SF-30·30、SF-30·60
SF-30·90、SF-30·120

■Material/Technical Data

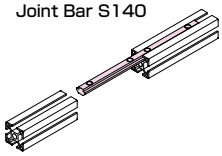
	Double Round Lock Nut S30	S Double Joint 30
Material	Stainless	Stainless
Weight	19g	34g
Environment	★RoHS Compliant ★Green Procurement	

Joint Bar S140 / T Nut S Material / After Nut S Material

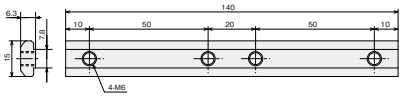




Joint Bar S140

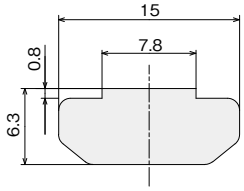


Joint Bar S140

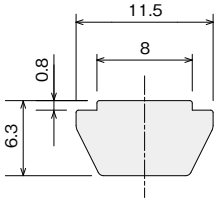


Joint Bar S140 Kit Contents
●Joint Bar S140×1
●Set Screw(M6×8)×4

T Nut S Material
〈T Nut S Material〉



After Nut S Material
〈After Nut S Material〉



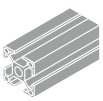
Name(Single Item)	Joint Bar S140	Name(with Set Screw)	Joint Bar S140 Kit
Item No.	★SFJ-606	Item No.	★SFK-606

Name	T Nut S Material ℓ=(2800) 〈ST Nut S Material ℓ=(2800)〉	T Nut S Material ℓ=450 〈ST Nut S Material ℓ=(450)〉
Item No.	★SFX-100〈★SFX-002〉	★SFX-120〈★SFX-S00〉

Name	After Nut S Material ℓ=(2800) 〈S After Nut S Materiall ℓ=(2800)〉	After Nut S Material ℓ=450 〈S After Nut S Material ℓ=(450)〉
Item No.	★SFX-103〈★SFX-007〉	★SFX-123〈★SFX-S07〉

・Note : T Nut material will be delivered without plating.

■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

■Material/Technical Data

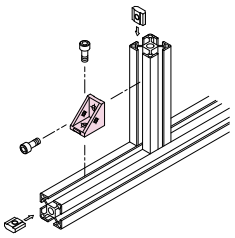
	Joint Bar S140	T Nut S material / After Nut S material	ST Nut S material / S After Nut S material
Material	Equivalent to S10C Uni-Chrome Plating	Equivalent to S10C Not plating	Stainless
Weight	86g	653g/m(T Nut S) 483g/m(After Nut S)	668g/m(ST Nut S) 494g/m(S After Nut S)
Environment	★RoHS Compliant ★Green Procurement		

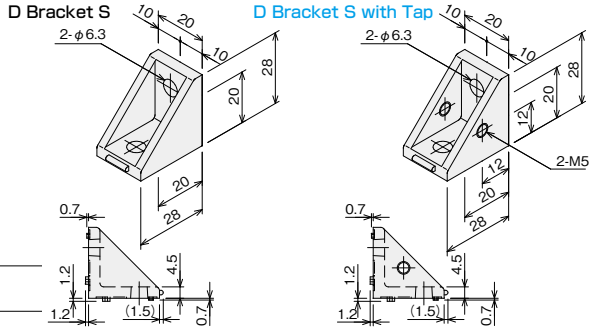
Example of order

Parts
How to order
Item No.
SFN-NS5
Quantity (pcs)
□□

D Bracket S

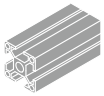






Name(Single Item)	D Bracket S 〈D Bracket S with Tap〉	D Bracket S-CN 〈D Bracket S-CN with Tap〉
Item No.	SFJ-018〈SFJ-019〉	SFJ-018N〈SFJ-019N〉

Name(Bolt and Nut Kit)	D Bracket S Kit 〈D Bracket S Kit with Tap〉	D Bracket S(Stainless)Kit 〈D Bracket S with Tap (Stainless) Kit〉	D Bracket S-CN Kit 〈D Bracket S-CN Kit with Tap〉
Item No.	SFK-018〈SFK-019〉	SFK-018S〈SFK-019S〉	SFK-018N〈SFK-019N〉



■Usable Frame

Compatible to all SF30 series (Groove Width 8mm)

●Cap

P81

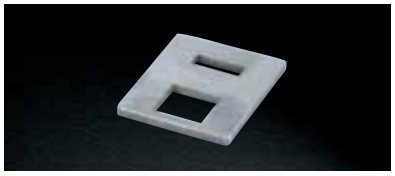
■Kit Contents

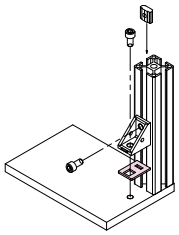
●D Bracket S〈or with Tap〉×1
●Hexagon Socket Bolt (M6×12)×2
●T nut S(M6)×2
※Bolt and Nut in CN· (Stainless) Kit are stainless.

■Material/Technical Data

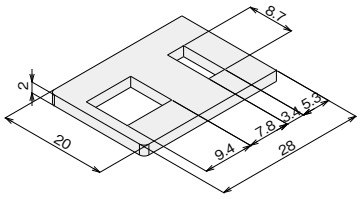
Material Aluminum Die-Cast(ADC12) (CN/Electroless Nickel Plating) With Anti-Skid Function
Weight 13g
Environment ★RoHS Compliant
★Green Procurement

D Bracket Spacer S



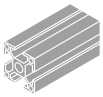


●Setting to bottom of D Bracket enables to fix on a flat base.



Name(Single Item)	D Bracket Spacer S
Item No.	SFJ-401S

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

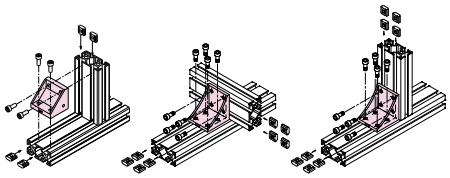
■Material/Technical Data

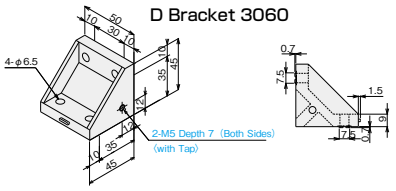
Material Stainless
Weight 8g
Environment ★RoHS Compliant
★Green Procurement

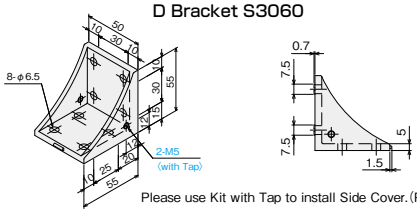
D Bracket 3060 / D Bracket S3060











Please use Kit with Tap to install Side Cover.(P74)

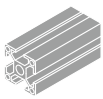
Name(Single Item)	D Bracket 3060 〈D Bracket 3060 with Tap〉	D Bracket S3060 〈D Bracket S 3060 with Tap〉
Item No.	SFJ-021 〈SFJ-021T〉	SFJ-A13〈SFJ-A13T〉

Name(Bolt and Nut Kit)	3060Kit 〈3060 Kit with Tap〉	3060(Stainless)Kit 〈3060 with Tap(Stainless)Kit〉	S3060 Kit 〈S3060 Kit with Tap〉	S3060(Stainless)Kit 〈S3060 with Tap(Stainless)Kit〉
Item No.	SFK-021〈SFK-021T〉	SFK-021S〈SFK-021P〉	SFK-A13〈SFK-A13T〉	SFK-A13S〈SFK-A13P〉

Name(Single Item)	D Bracket 3060-CN 〈D Bracket 3060-CN with Tap〉
Item No.	SFJ-021N〈SFJ-021C〉

Name(Bolt and Nut Kit)	D Bracket 3060-CN Kit 〈D Bracket 3060-CN Kit with Tap〉
Item No.	SFK-021N〈SFK-021C〉

■Usable Frame



SF-30·60 /1F
SF-60·60·2S/1F/2F
SF-60·90/60·120

■Kit Contents

〈D Bracket 3060 Kit〉
●D Bracket 3060〈or with Tap〉×1
●Hexagon Socket Bolt (M6×15)×4
●T Nut S(M6)×4

〈D Bracket S3060 Kit〉
●D Bracket S3060〈or with Tap〉×1
●Hexagon Socket Bolt (M6×12)×8
●T Nut S(M6)×8
※Bolt and Nut in CN· (Stainless) Kit are stainless.

■Material/Technical Data

	D Bracket 3060	D Bracket S3060
Material	Aluminum Die-Cast(ADC12) (CN/Electroless Nickel Plating) With Anti-Skid Function	
Weight	100g	65g
Environment	★RoHS Compliant ★Green Procurement	

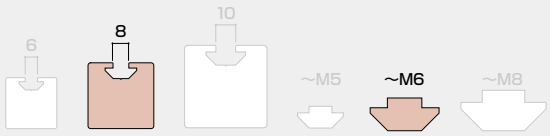
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

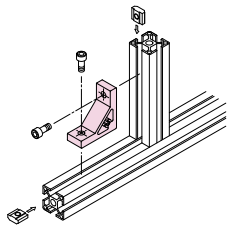

Material Frame

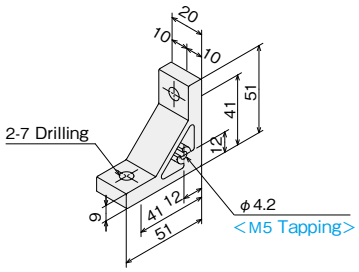
SF30 SERIES



Hard Bracket S



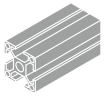




Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket S ⟨Hard Bracket S with Tap⟩
Item No.	SFJ-N03⟨SFJ-N03T⟩

Name(Bolt and Nut Kit)	Hard Bracket S Kit ⟨Hard Bracket S Kit with Tap⟩	Hard Bracket S(Stainless)Kit ⟨Hard Bracket S (Stainless) Kit with Tap⟩
Item No.	SFK-N03⟨SFK-N03T⟩	SFK-N03S⟨SFK-N03P⟩



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)

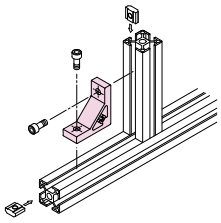
■Kit Contents
- Hard Bracket S⟨or with Tap⟩×1
- Hexagon Socket Bolt (M6×15)×2
- T Nut S(M6)×2

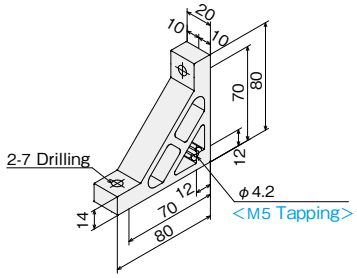
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
44g
Weight RoHS Compliant
Environment Green Procurement

Hard Bracket SG



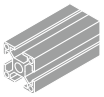




Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket SG ⟨Hard Bracket SG with Tap⟩
Item No.	SFJ-N26⟨SFJ-N26T⟩

Name(Bolt and Nut Kit)	Hard Bracket SG Kit ⟨Hard Bracket SG Kit with Tap⟩	Hard Bracket SG(Stainless)Kit ⟨Hard Bracket SG(Stainless)Kit with Tap⟩
Item No.	SFK-N26⟨SFK-N26T⟩	SFK-N26S⟨SFK-N26P⟩



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)

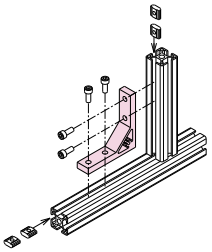
■Kit Contents
- Hard Bracket SG⟨or with Tap⟩×1
- Hexagon Socket Bolt (M6×22)×2
- T Nut S(M6)×2

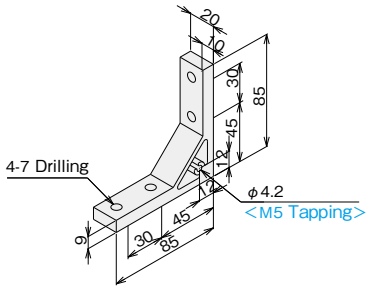
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
101g
Weight RoHS Compliant
Environment Green Procurement

Hard Bracket SW3030



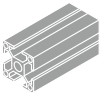




Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket SW3030 ⟨Hard Bracket SW3030 with Tap⟩
Item No.	SFJ-N11⟨SFJ-N11T⟩

Name(Bolt and Nut Kit)	Hard Bracket SW3030 Kit ⟨Hard Bracket SW3030 Kit with Tap⟩	Hard Bracket SW3030(Stainless)Kit ⟨Hard Bracket SW3030(Stainless)Kit with Tap⟩
Item No.	SFK-N11⟨SFK-N11T⟩	SFK-N11S⟨SFK-N11P⟩



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)

■Kit Contents
- Hard Bracket SW3030⟨or with Tap⟩×1
- Hexagon Socket Bolt (M6×15)×4
- T Nut S(M6)×4

※Bolt and Nut in (Stainless) Kit are stainless.

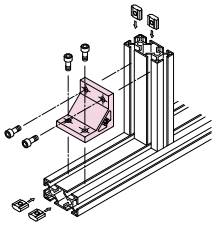
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 76g
Environment RoHS Compliant
Green Procurement

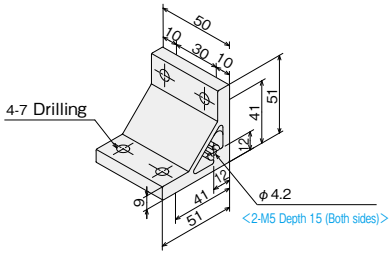
Parts How to order
Item No. SFJ-N03
Quantity (pcs) □□

●Cap for Bracket
P81

Hard Bracket S3060



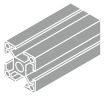




Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket S3060 〈Hard Bracket S3060 with Tap〉
Item No.	SFJ-N04〈SFJ-N04T〉

Name(Bolt and Nut Kit)	Hard Bracket S3060 Kit 〈Hard Bracket S3060 Kit with Tap〉	Hard Bracket S3060(Stainless)Kit 〈Hard Bracket S3060 (Stainless) Kit with Tap〉
Item No.	SFK-N04〈SFK-N04T〉	SFK-N04S〈SFK-N04P〉



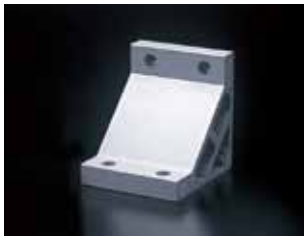
■Usable Frame
SF-30·60/1F
SF-60·60·2S/1F/2F
SF-60·90/60·120

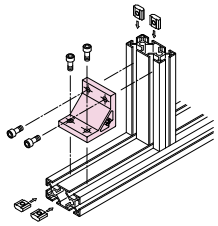
■Kit Contents
- ●Hard Bracket S3060〈or with Tap〉×1
- ●Hexagon Socket Bolt(M6×15)×4
- ●T Nut S(M6)×4

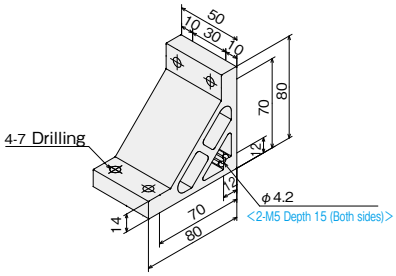
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 111g
Environment RoHS Compliant
Green Procurement

Hard Bracket SG3060







Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket SG3060 〈Hard Bracket SG3060 with Tap〉
Item No.	SFJ-N27〈SFJ-N27T〉

Name(Bolt and Nut Kit)	Hard Bracket SG3060 Kit 〈Hard Bracket SG3060 Kit with Tap〉	Hard Bracket SG3060(Stainless)Kit 〈Hard Bracket SG3060 (Stainless) Kit with Tap〉
Item No.	SFK-N27〈SFK-N27T〉	SFK-N27S〈SFK-N27P〉



■Usable Frame
SF-30·60/1F
SF-60·60·2S/1F/2F
SF-60·90/60·120

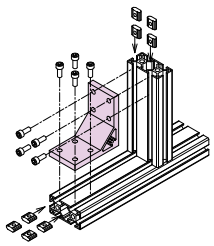
■Kit Contents
- ●Hard Bracket SG3060〈or with Tap〉×1
- ●Hexagon Socket Bolt (M6×22)×4
- ●T Nut S(M6)×4

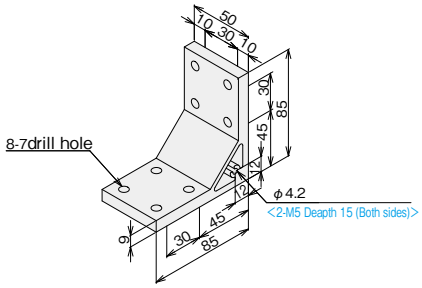
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 256g
Environment RoHS Compliant
Green Procurement

Hard Bracket SW3060



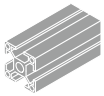




Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket SW3060 〈Hard Bracket SW3060 with Tap〉
Item No.	SFJ-N12〈SFJ-N12T〉

Name(Bolt and Nut Kit)	Hard Bracket SW3060 Kit 〈Hard Bracket SW3060 Kit with Tap〉	Hard Bracket SW3060(Stainless)Kit 〈Hard Bracket SW3060 (Stainless) Kit with Tap〉
Item No.	SFK-N12〈SFK-N12T〉	SFK-N12S〈SFK-N12P〉



■Usable Frame
SF-30·60/1F
SF-60·60·2S/1F/2F
SF-60·90/60·120

■Kit Contents
- ●Hard Bracket SW3060〈or with Tap〉×1
- ●Hexagon Socket Bolt (M6×15)×8
- ●T Nut S(M6)×8

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 192g
Environment RoHS Compliant
Green Procurement

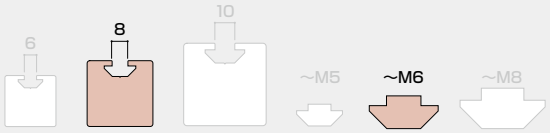
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

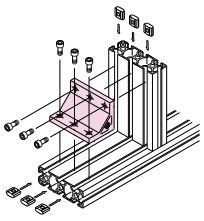

Material Frame

SF30 SERIES

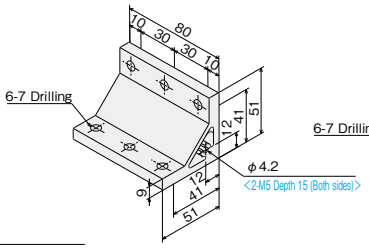


Hard Bracket S3090／SG3090

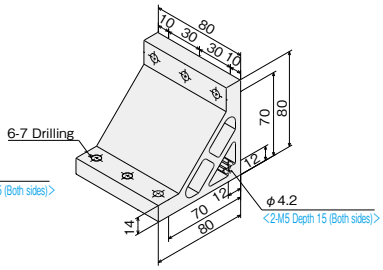




Hard Bracket S3090



Hard Bracket SG3090

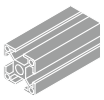


Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket S3090 〈Hard Bracket S3090 with Tap〉	Hard Bracket SG3090 〈Hard Bracket SG3090 with Tap〉
Item No.	SFJ-N10〈SFJ-N10T〉	SFJ-N28〈SFJ-N28T〉

Name(Bolt and Nut Kit)	S3090 Kit 〈S3090 Kit with Tap〉	S3090(Stainless) Kit 〈S3090 (Stainless) Kit with Tap〉	SG3090 Kit 〈SG3090 Kit with Tap〉	SG3090(Stainless) Kit 〈SG3090 (Stainless) Kit with Tap〉
Item No.	SFK-N10〈SFK-N10T〉	SFK-N10S〈SFK-N10P〉	SFK-N28〈SFK-N28T〉	SFK-N28S〈SFK-N28P〉

■Usable Frame



SF-30·90
SF-60·90

■Kit Contents

〈Hard Bracket S3090 Kit〉
- Hard Bracket S3090〈or with Tap〉×1
- Hexagon Socket Bolt (M6×15)×6
- T Nut S(M6)×6

〈Hard Bracket SG3090 Kit〉
- Hard Bracket SG3090〈or with Tap〉×1
- Hexagon Socket Bolt (M6×22)×6
- T Nut S(M6)×6

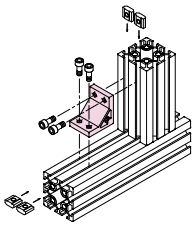
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

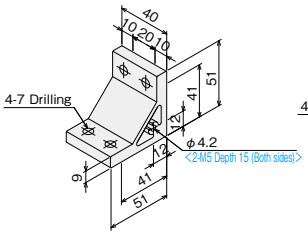
Material Aluminium Alloy Alumite Treatment
Weight 180g(S3090) 409g(SG3090)
Environment **RoHS** Compliant **Green** Procurement

Hard Bracket S50／SG50

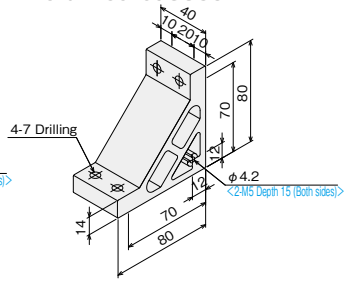




Hard Bracket S50



Hard Bracket SG50



Please use Kit with Tap to install Side Cover. (Refer P82 for details.)

Name(Single Item)	Hard Bracket S50 〈Hard Bracket S50 with Tap〉	Hard Bracket SG50 〈Hard Bracket SG50 with Tap〉
Item No.	SFJ-N45〈SFJ-N45T〉	SFJ-N47〈SFJ-N47T〉

Name(Bolt and Nut Kit)	S50 Kit 〈S50 Kit with Tap〉	S50(Stainless) Kit 〈S50 (Stainless) Kit with Tap〉	SG50 Kit 〈SG50 Kit with Tap〉	SG50(Stainless) Kit 〈SG50 (Stainless) Kit with Tap〉
Item No.	SFK-N45〈SFK-N45T〉	SFK-N45S〈SFK-N45P〉	SFK-N47〈SFK-N47T〉	SFK-N47S〈SFK-N47P〉

■Usable Frame



SF-50·50·2S
SF-50·100·2S

■Kit Contents

〈Hard Bracket S50 Kit〉
- Hard Bracket S50〈or with Tap〉×1
- Hexagon Socket Bolt (M6×15)×4
- T Nut S(M6)×4

〈Hard Bracket SG50 Kit〉
- Hard Bracket SG50〈or with Tap〉×1
- Hexagon Socket Bolt (M6×22)×4
- T Nut S(M6)×4

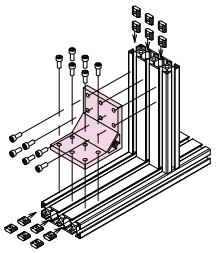
※Bolt and Nut in (Stainless) Kit are stainless.

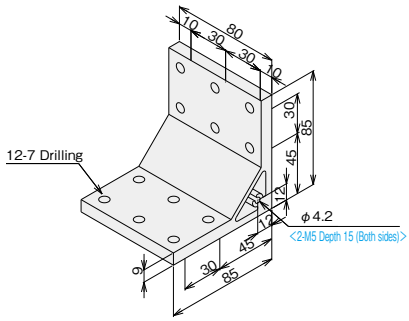
■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 95g(S50) 218g(SG50)
Environment **RoHS** Compliant **Green** Procurement

Hard Bracket SW3090





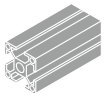


Please use Kit with Tap to install Side Cover.(Refer P82 for details.)

Name(Single Item)	Hard Bracket SW3090 〈Hard Bracket SW3090 with Tap〉
Item No.	SFJ-N13〈SFJ-N13T〉

Name(Bolt and Nut Kit)	Hard Bracket SW3090 Kit 〈Hard Bracket SW3090 Kit with Tap〉	Hard Bracket SW3090(Stainless)Kit 〈Hard Bracket SW3090 (Stainless) Kit with Tap〉
Item No.	SFK-N13〈SFK-N13T〉	SFK-N13S〈SFK-N13P〉

■Usable Frame



SF-30·90
SF-60·90

■Kit Contents
- Hard Bracket SW3090〈or with Tap〉×1
- Hexagon Socket Bolt(M6×15)×12
- T Nut S(M6)×12

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 309g
Environment **RoHS** Compliant **Green** Procurement

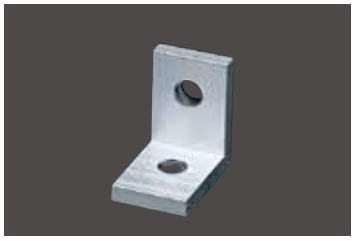
Example of order

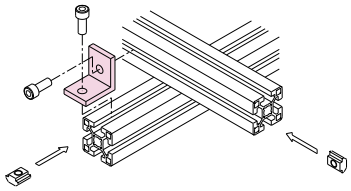
Parts
How to order
Item No.
SFJ-N10
Quantity (pcs)
□□

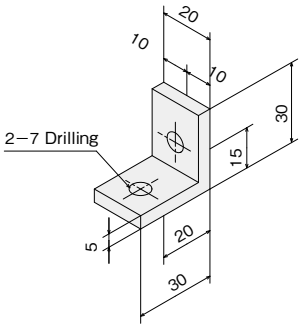
●Cap for Bracket
P81



Angle Bracket S

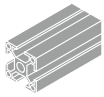






Name(Single Item)	Angle Bracket S
Item No.	★SFJ-A03

Name(Bolt and Nut Kit)	Angle Bracket S Kit 〈Angle Bracket S(Stainless) Kit〉
Item No.	★SFK-A03〈★SFK-A03S〉



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)

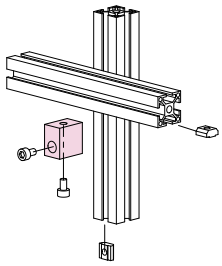
■Kit Contents
- ●Angle Bracket Hard S×1
- ●Hexagon Socket Bolt(M6×12)×2
- ●T Nut S(M6)×2

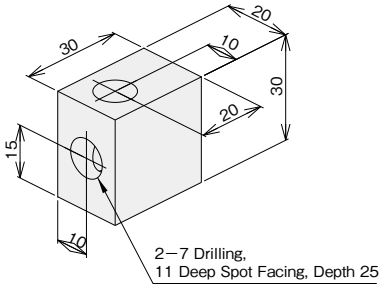
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 14g
Environment ★RoHS Compliant
★Green Procurement

Angle Bracket Hard S

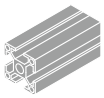






Name(Single Item)	Angle Bracket Hard S
Item No.	SFJ-A15

Name(Bolt and Nut Kit)	Angle Bracket Hard S Kit 〈Angle Bracket Hard S(Stainless) Kit〉
Item No.	SFK-A15〈SFK-A15S〉



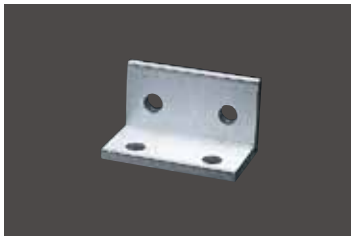
■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)

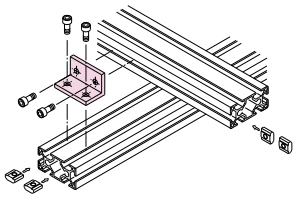
■Kit Contents
- ●Angle Bracket Hard S×1
- ●Hexagon Socket Bolt(M6×12)×2
- ●T Nut S(M6)×2

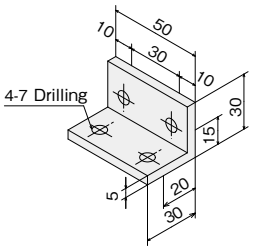
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 37g
Environment RoHS Compliant
Green Procurement

Angle Bracket S3060

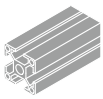






Name(Single Item)	Angle Bracket S3060
Item No.	★SFJ-A04

Name(Bolt and Nut Kit)	Angle Bracket S3060 Kit 〈Angle Bracket S3060(Stainless) Kit〉
Item No.	★SFK-A04〈★SFK-A04S〉



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)
※Doesn't meet with SF-35·35 (include 1F/2F/2H)SF-35·70(include 1F/2F).

■Kit Contents
- ●Angle Bracket S3060×1
- ●Hexagon Socket Bolt(M6×12)×4
- ●T Nut S(M6)×4

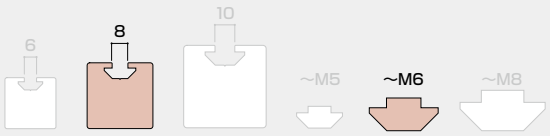
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
35g
Weight ★RoHS Compliant
Environment ★Green Procurement

We sell Nut Material and Bracket Material as well.
T Nut S Material P62
●Hard Bracket S Material
●Angle Bracket S Material



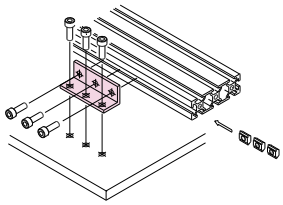
SF30 SERIES



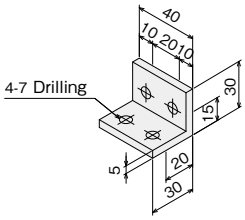
Angle Bracket S50 / S3090



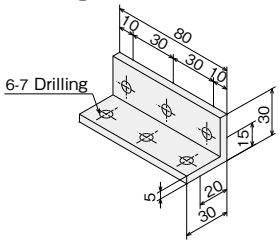




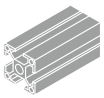
Angle Bracket S50



Angle Bracket S3090



Name(Single Item)	Angle Bracket S50	Angle Bracket S3090
Item No.	SFJ-A11	SFJ-A10
Name(Bolt and Nut Kit)	Angle Bracket S50 Kit 〈Angle Bracket S50(Stainless) Kit〉	Angle Bracket S3090 Kit 〈Angle Bracket S3090(Stainless) Kit〉
Item No.	SFK-A11〈SFK-A11S〉	SFK-A10〈SFK-A10S〉



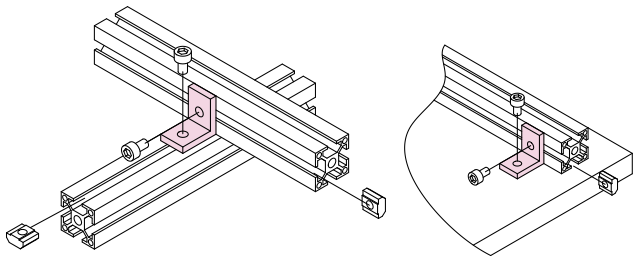
■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)
※Doesn't meet with SF-35·35 (include 1F/2F/2H)SF-35·70(include 1F/2F).

■Kit Contents
〈Angle Bracket S50 Kit〉
●Angle Bracket S50×1
●Hexagon Socket Bolt(M6×12)×4
●T Nut S(M6)×4
〈Angle Bracket S3090 Kit〉
●Angle Bracket S3090×1
●Hexagon Socket Bolt(M6×12)×6
●T Nut S(M6)×6
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 29g(S50)
60g(S3090)
Environment **RoHS** Compliant
Green Procurement

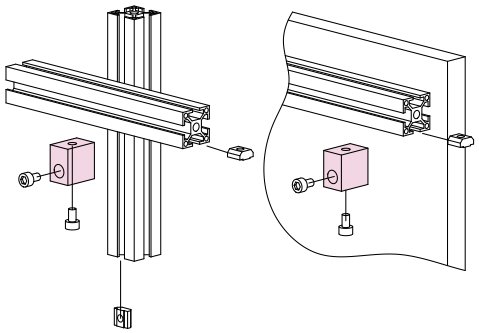
How to use Angle Bracket・Angle Bracket Hard・Offset Angle S3060

Angle Bracket



●For cross joint of frames and base fixing

Angle Bracket Hard



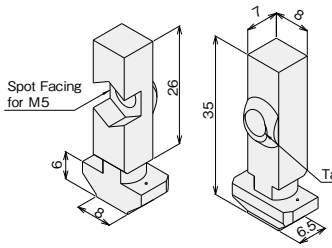
●For the point which is applied vertical load

Example of order
Parts
How to order
Item No. SFJ-A11
Quantity (pcs) □□

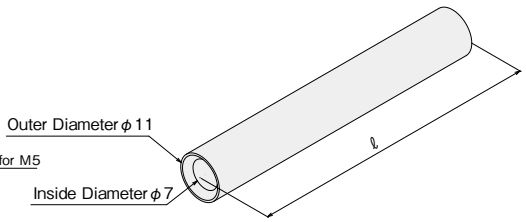
QC Joint S

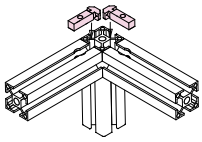


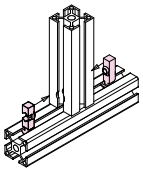
QC Joint S(Common Parts)



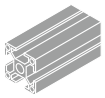
Round Metal Tool S







	S Kit	S50 Kit	S60 Kit	S90 Kit	S100 Kit	S120 Kit
ℓ	12	32	42	72	82	102



■Usable Frame
Compatible to all SF30 series (Groove Width 8mm)
※Doesn't meet with SF-35·35 (include 1F/2F/2H)SF-35·70(include 1F/2F).

Name	QC Joint S Kit	QC Joint S50 Kit	QC Joint S60 Kit	QC Joint S90 Kit	QC Joint S100 Kit	QC Joint S120 Kit
Item No.	SFK-Q30	SFK-Q31	SFK-Q32	SFK-Q33	SFK-Q34	SFK-Q35

Kit contents

Kit Name	QC Joint	Round metal tool	Bolt
QC Joint S Kit	QC Joint S×1Set	Round metal tool S30×1	Hexagon Socket Bolt (M5×22) Stainless×1
QC Joint S50 Kit		Round metal tool S50×1	Hexagon Socket Bolt (M5×45) Stainless×1
QC Joint S60 Kit		Round metal tool S60×1	Hexagon Socket Bolt (M5×55) Stainless×1
QC Joint S90 Kit		Round metal tool S90×1	Hexagon Socket Bolt (M5×85) Stainless×1
QC Joint S100 Kit		Round metal tool S100×1	Hexagon Socket Bolt (M5×90) Stainless×1
QC Joint S120 Kit		Round metal tool S120×1	Hexagon Socket Bolt (M5×115)Stainless×1

■Material/Technical Data

	QC Joint S	Round metal tool S
Material	Stainless With conductive function	Stainless

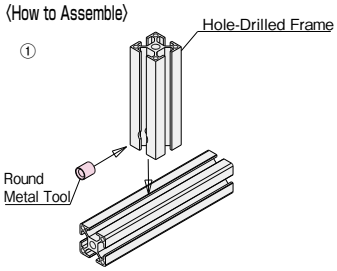
Weight	S Kit	S50 Kit	S60 Kit	S90 Kit	S100 Kit	S120 Kit
	45g	58g	63g	82g	87g	100g

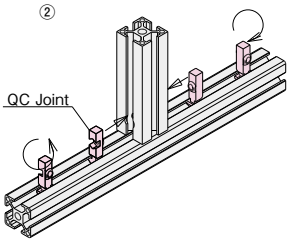
Environment **RoHS** Compliant **Green** Procurement

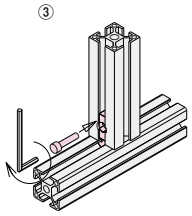
QC Joint S

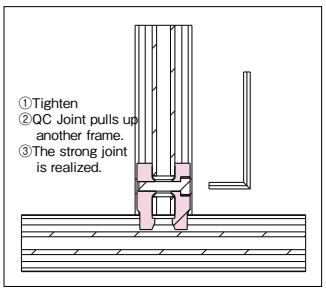
〈Characteristics〉 It's easy to set vertically and hardly make gap, because 2 frames are pulled at each other to combine. Also, you don't have to let nuts into frame in advance, and strong fixing is possible by one bolt, so the assembly man-hour is reduced.

〈How to Assemble〉



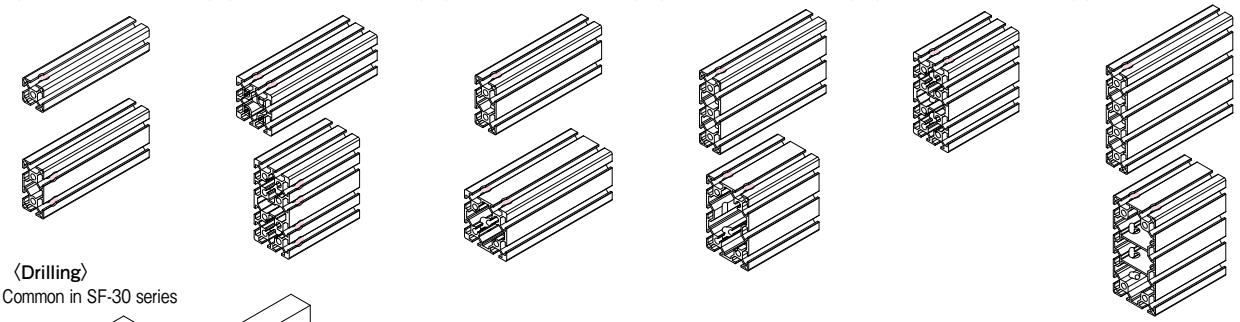




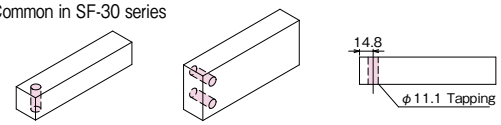


〈Example of Kit Selection〉

●QC Joint S Kit (For drilled hole to the direction of 30mm)
●QC Joint S50 Kit (For drilled hole to the direction of 50mm)
●QC Joint S60 Kit (For drilled hole to the direction of 60mm)
●QC Joint S90 Kit (For drilled hole to the direction of 90mm)
●QC Joint S100 Kit (For drilled hole to the direction of 100mm)
●QC Joint S120 Kit (For drilled hole to the direction of 120mm)



〈Drilling〉
Common in SF-30 series



GO ●Drillid by SUS Processing Symbol P212~

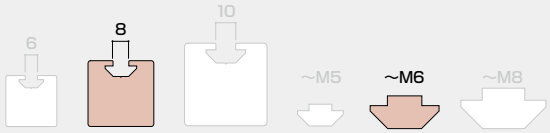
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

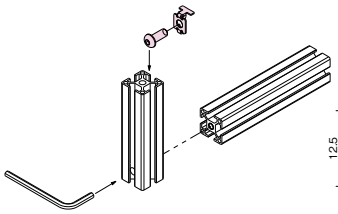


SF30 SERIES

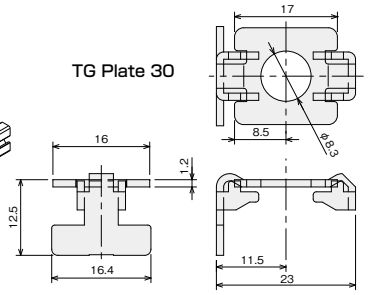


TG Joint Kit 30 / Wrench Hole Cap

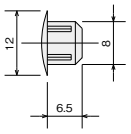




TG Plate 30



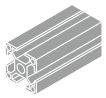
Wrench Hole Cap



※Hole Cover for Flat Type Frame (For 1F,2F,2H,3F)

Name	TG Joint Kit 30
Item No.	★SFK-206

Name	Wrench Hole Cap
Item No.	★SFA-155



■Usable Frame
SF-30·30/1F/2F/2H/3F
SF-30·60/1F/2H
SF-30·90
SF-60·60·2S/1F/2F

■Kit Contents
●TG Plate30×1
●Hexagon Socket Button Bolt (M8×20)×1

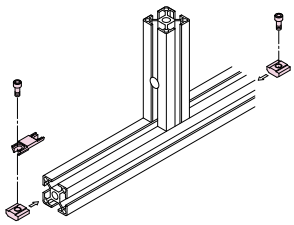
■Material/Technical Data

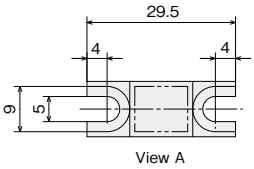
	TG Joint kit 30	Wrench Hole Cap
Material	SPCC(TG Plate 30) Uni-Chrome Plating	Polypropylene(Grey)
Weight	13g	0.2g

Environment ★RoHS Compliant
★Green Procurement

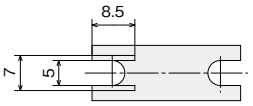
S Double Joint Kit

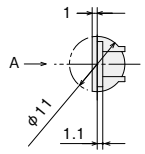




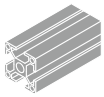


View A





■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)
※ Doesn't meet with SF-30·30·2F/SF-60·60·2S(or 1F/2F)SF-60·90/SF-60·120. Doesn't meet with SF-35·35(include 1F/2F/2H)SF-35·70(include 1F/2F).

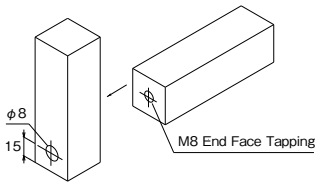
Name	S Double Joint Kit 30
Item No.	SFK-301S

■Kit Contents
●S Double Joint S×1
●T Nut S(M5)×2
●Hexagon Socket Bolt (M5×22)Stainless×2

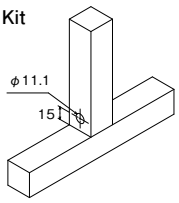
■Material/Technical Data
Material Stainless
Weight 34g
Environment RoHS Compliant
Green Procurement

TG Joint・Double Joint・KF Joint

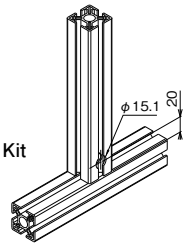
●TG Joint Kit



●S Double Joint Kit



●KF Joint Kit



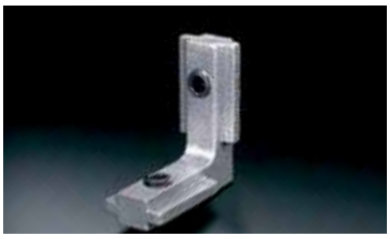
TG, Double Joint, KF Joint are easy to set vertically and hardly make gap, because 2 frames are pulled each other.
Also, it looks clear because the joint part doesn't bulge outside.

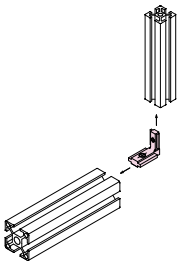
GO ●How to assemble. Refer P198~

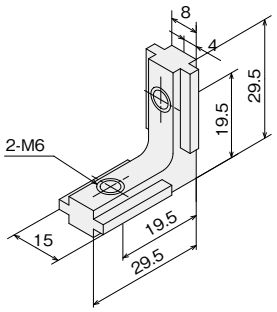
GO ●Drillid by SUS
Processing Symbol P212~

Example of order
Parts
How to order
Item No.
SFK-206
Quantity (pcs)

S Blind Bracket S

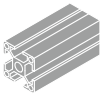






Name	S Blind Bracket S
Item No.	SFK-601S

■Usable Frame



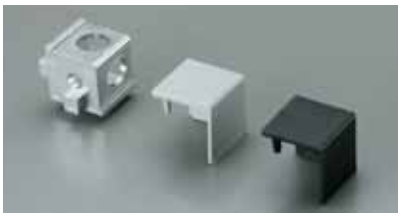
Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

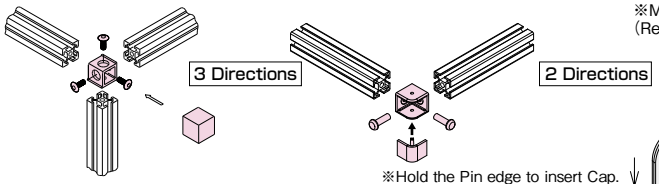
Material Stainless
Weight 26g
Environment RoHS Compliant
Green Procurement

2 Set Screws M6×8 Stainless Included.

Block Bracket S Kit / Corner Block S Kit

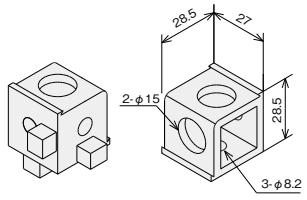




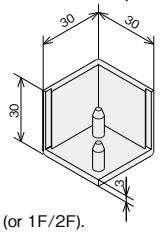


※Hold the Pin edge to insert Cap.

Block Bracket S

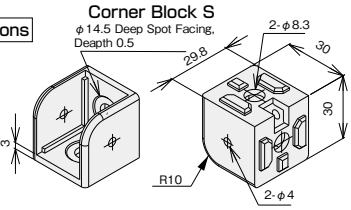


Block Cap S

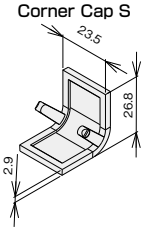


※M8 Tapping is needed to the section of SF30·30 (or 1F/2F). (Refer P209～ for details.)

Corner Block S



Corner Cap S

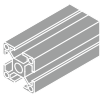


※M8 Tapping is needed to the section of SF30·30 (or 1F/2F). (Refer P209～ for details.)
※Corner block S Kit is installable by Tapping Bolt as well.

Name	Block Bracket S Kit (Black)	Block Bracket S Kit (Light Gray)
Item No.	SFK-Q12	SFK-Q12G

Name	Corner Block S Kit (Black)	Corner Block S Kit (Light Gray)
Item No.	SFK-Q62	SFK-Q62G

■Usable Frame



⟨Block Bracket S Kit⟩
SF-30·30(Include 1F/2F)
⟨Corner Block S Kit⟩
SF-30·30(1F/2F/3F/2H)

■Material/Technical Data

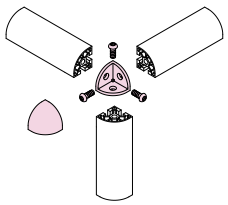
	Block Bracket S Kit※1	Corner Block S Kit※2
Material	Zinc Die-Cast(Block Bracket S) Polyamide(Block Cap S)	Stainless(Corner Block S) Polyamide(Corner Cap S)
Weight	59g(Block Bracket S) 8g(Block Cap S)	71g(Corner Block S) 3.2g(Corner Cap S)

Environment RoHS Compliant

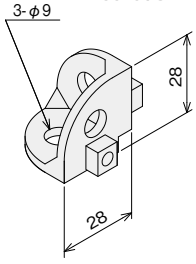
※1 3 Hexagon Socket Button Bolt M8×25 Included.
※2 2 Hexagon Socket Button Bolt M8×25 Included.

R Bracket S Kit

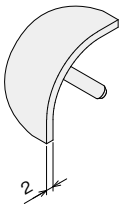




R Bracket S



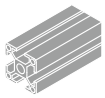
R Cap S



※M8 Tapping is needed to the section of SF30·30·R. (Refer P209～ for details.)

Name	R Bracket S Kit (Black)	R Bracket S Kit (Light Gray)
Item No.	SFK-R02	SFK-R02G

■Usable Frame



SF-30·30·R

■Material/Technical Data

R Bracket S Kit※3
Material Stainless(R Bracket S) Polyamide(R Cap S)
Weight 47g(R Bracket S) 6g(R Cap S)
Environment RoHS Compliant

※3 Hexagon Socket Button Bolt M8×25 Included.

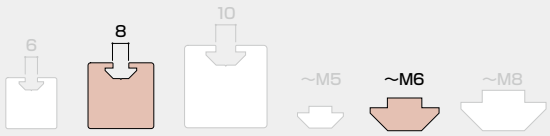
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

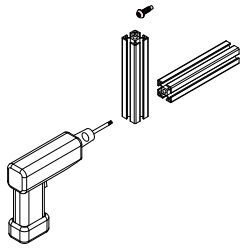


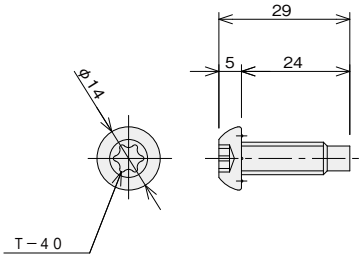
SF30 SERIES



Tapping Bolt S

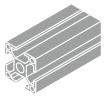






Name	Tapping Bolt S
Item No.	SFB-T30

■Usable Frame



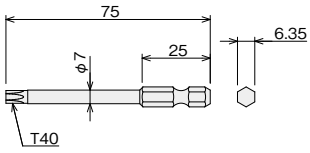
SF-30·30(1F/2F/3F/2H)
SF-30·60(1F)
SF-30·90/30·120
SF-60·60·2S(1F/2F)

■Material/Technical Data

Material SWCH 18A
Uni-Chrome Plating
Weight 9g
Environment **RoHS** Compliant
Green Procurement

Torque Bit T40 / Torque Driver T40





Weight 20g

Name	Torque Bit T40
Item No.	SFA-JT40

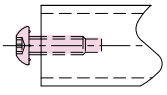


Weight 126g

Name	Torque Driver T40
Item No.	SFA-T40H

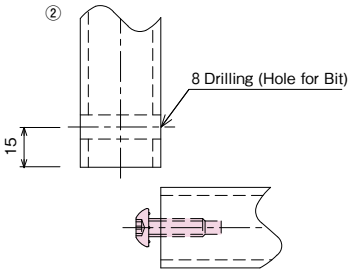
How to fix Tapping Bolt

①



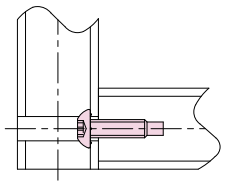
Fix the frame with jig etc, and screw the Tapping Bolt halfway into the end face. (Temporary joint)
* In case it's too tight, please use cutting oil.

②



Put the bolt head through T slot of another frame.

③



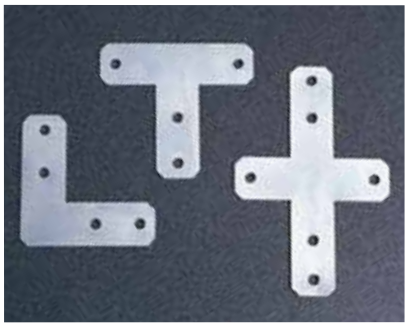
Tighten by Manual tool to fix.
※Manual tool is recommended, because the reaction of torque up is big by using electric drill.

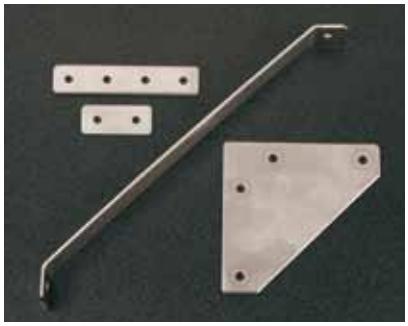
GO ●Drillid by SUS
Processing Symbol P212~

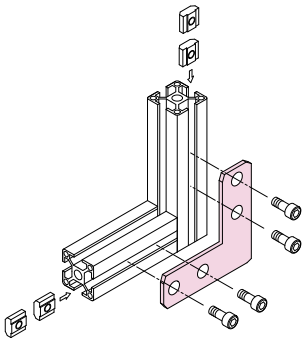
Example of order

Parts
How to order
Item No.
SFB-T30
Quantity (pcs)
□□

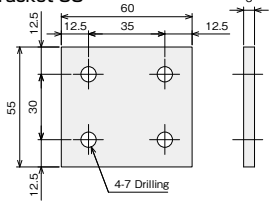
Plate Bracket S





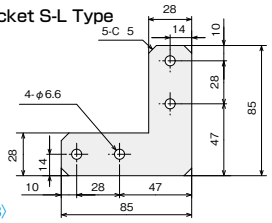


S Plate Bracket SG



t=5

Plate Bracket S-L Type

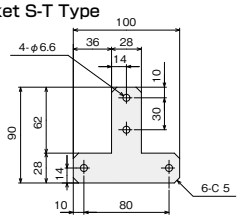


t=3.2 〈t=3〉

Name	S Plate Bracket SG	S Plate Bracket SG Kit	Plate Bracket S-L Type 〈S Plate Bracket S-L Type〉	Plate Bracket S-L Type Kit 〈S Plate Bracket S-L Type Kit〉
Item No.	SFJ-122S	SFK-122S	SFJ-104〈SFJ-104S〉	SFK-104〈SFK-104S〉

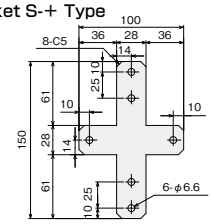
Kit contents		
	●Plate Bracket SG×1 ●Hexagon Socket Bolt(M6×12)Stainless×4 ●ST Nut S(M6)×4	●Plate Bracket S-L×1 ●Hexagon Socket Bolt(M6×10)×4 ●T Nut S(M6)×4 ●S Plate Bracket S-L×1 ●Hexagon Socket Bolt(M6×10)Stainless×4 ●ST Nut S(M6)×4

Plate Bracket S-T Type



t=3.2 〈t=3〉

Plate Bracket S-+ Type

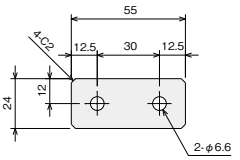


t=3.2 〈t=3〉

Name	Plate Bracket S-T Type 〈S Plate Bracket S-T Type〉	Plate Bracket S-T Type Kit 〈S Plate Bracket S-T Type Kit〉	Plate Bracket S-+ Type 〈S Plate Bracket -+ Type〉	Plate Bracket S-+ Type Kit 〈S Plate Bracket -+ Type Kit〉
Item No.	SFJ-103〈SFJ-103S〉	SFK-103〈SFK-103S〉	SFJ-105〈SFJ-105S〉	SFK-105〈SFK-105S〉

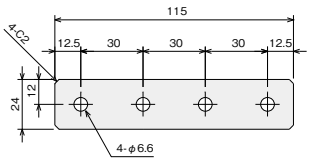
Kit contents		
	●Plate Bracket S-T×1 ●Hexagon Socket Bolt((M6×10)×4 ●T Nut S(M6)×4 ●S Plate Bracket S-T×1 ●Hexagon Socket Bolt (M6×10)Stainless×4 ●ST Nut S(M6)×4	●Plate Bracket S-+×1 ●Hexagon Socket Bolt(M6×10)×6 ●T Nut S(M6)×6 ●S Plate Bracket S-+×1 ●Hexagon Socket Bolt(M6×10)Stainless×6 ●ST Nut S(M6)×6

Plate Bracket S-H2



t=3

Plate Bracket S-H4

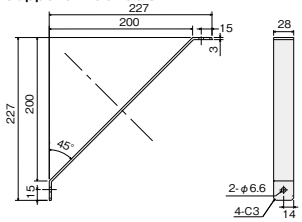


t=3

Name	Plate Bracket S-H2	Plate Bracket S-H2 Kit	Plate Bracket S-H4	Plate Bracket S-H4 Kit
Item No.	SFJ-125S	SFK-125S	SFJ-129S	SFK-129S

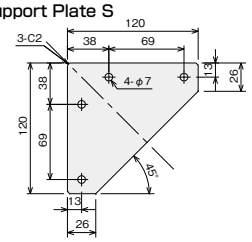
Kit contents		
	●Plate Bracket S-H2×1 ●Hexagon Socket Bolt(M6×10)Stainless×2 ●ST Nut S(M6)×2	●Plate Bracket S-H4×1 ●Hexagon Socket Bolt(M6×10)Stainless×4 ●ST Nut S(M6)×4

Corner Support Bracket S



t=3

Corner Support Plate S



t=2

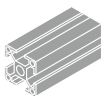
Name	Corner Support Bracket S	Corner Support Bracket S Kit	Corner Support Plate S	Corner Support Plate S Kit
Item No.	SFJ-134S	SFK-134S	SFJ-137S	SFK-137S

Kit contents		
	●Corner Support Bracket S×1 ●Hexagon Socket Bolt(M6×10)Stainless×2 ●ST Nut S(M6)×2	●Corner Support Plate S×1 ●Hexagon Socket Bolt(M6×10)Stainless×4 ●ST Nut S(M6)×4

■Material/Technical Data

Name	Weight(g)	Material	Environment
Plate Bracket SG	125	SUS304	RoHS Compliant Green Procurement
Plate Bracket S-L	92	SPCC Uni-Chrome	
S Plate Bracket S-L	87	SUS304	
Plate Bracket S-T	106	SPCC Uni-Chrome	
S Plate Bracket S-T	96	SUS304	
Plate Bracket S-+	145	SPCC Uni-Chrome	
S Plate Bracket S-+	135	SUS304	
Plate Bracket S-H2	29.6	SUS304	
Plate Bracket S-H4	62.2	SUS304	
Corner Reinforced Bracket S	200	SUS304	
Corner Reinforced Plate S	155.8	SUS304	

■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)
※Plate Bracket S-H2/H4 doesn't meet with SF-35·35(include 1F/2F/2H) SF-35·70(include 1F/2F).

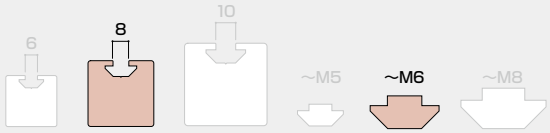
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

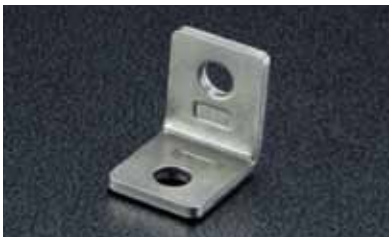
●Hard Bracket S Material
●Angle Bracket S Material

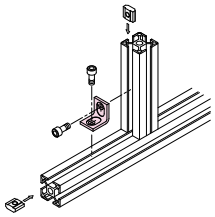

Material Frame

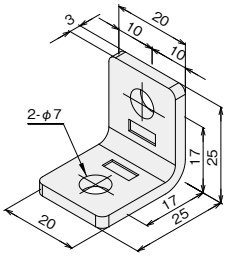
SF30 SERIES

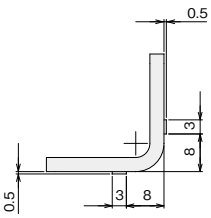


L Bracket S (Stainless)



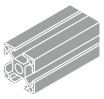






Name(Single Item)	L Bracket S (Stainless)
Item No.	SFJ-101S
Name(Bolt and Nut Kit)	L Bracket S (Stainless)Kit
Item No.	SFK-101S

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

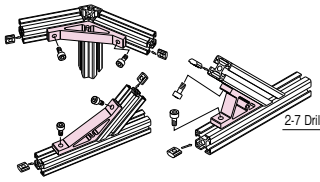
■Kit Contents
- L Bracket S (Stainless)×1
- Hexagon Socket Bolt (M6×10)Stainless×2
- ST Nut S(M6)×2

■Material/Technical Data

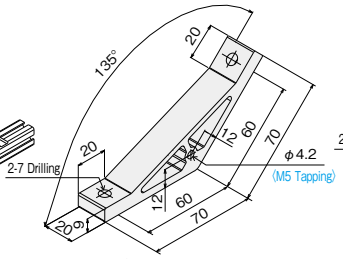
Material SUS304
Weight 18g
Environmen RoHS Compliant
Green Procurement

Hard Bracket S·DE

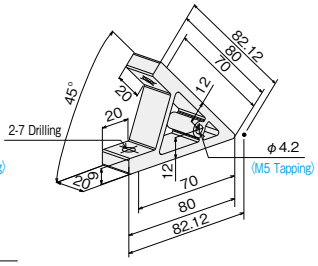


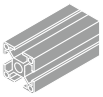


Hard Bracket S・DE135



Hard Bracket S・DE45





■Usable Frame
SF30·DE45·SF35 Series 45°slant cut frame (Refer P208)

Please use Kit with Tap to install Side Cover.(Refer P82 for details.)

Name(Single Item)	Hard Bracket S·DE135 〈Hard Bracket S·DE135 with Tap〉		Hard Bracket S·DE45 〈Hard Bracket S·DE45 with Tap〉	
Item No.	SFJ-N33〈SFJ-N33T〉		SFJ-N34〈SFJ-N34T〉	
Name(Bolt and Nut Kit)	S·DE135 Kit 〈S·DE135 Kit with Tap〉	S·DE135(Stainless)Kit 〈S·DE135(Stainless)Kit with Tap〉	S·DE45 Kit 〈S·DE45 Kit with Tap〉	S·DE45(Stainless)Kit 〈S·DE45(Stainless)Kit with Tap〉
Item No.	SFK-N33〈SFK-N33T〉	SFK-N33S〈SFK-N33P〉	SFK-N34〈SFK-N34T〉	SFK-N34S〈SFK-N34P〉

■Kit Contents

〈Hard Bracket S·DE135 Kit〉
- Hard Bracket S·DE135〈or with Tap〉×1
- Hexagon Socket Bolt(M6×15)×2
- T Nut S(M6)×2

〈Hard Bracket S·DE45 Kit〉
- Hard Bracket ·DE45〈or with Tap〉×1
- Hexagon Socket Bolt(M6×15)×2
- T Nut S(M6)×2

※Bolt and Nut in (Stainless) Kit are stainless.

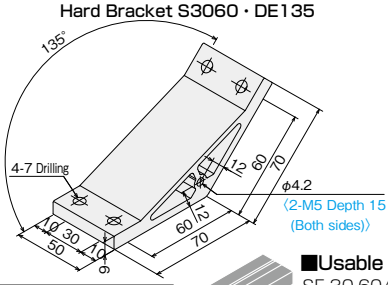
■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 68g(DE135) 58g(DE45)
Environment RoHS Compliant
Green Procurement

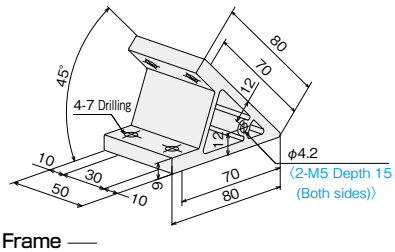
Hard Bracket SS3060·DE

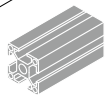


Hard Bracket S3060・DE135



Hard Bracket S3060・DE45





■Usable Frame
SF·30·60/60·60·2S/60·90/60·120Series 45°slant cut frame(Refer P208)

Please use Kit with Tap to install Side Cover.(Refer P82 for details.)

Name(Single Item)	Hard Bracket S3060·DE135 〈Hard Bracket S3060·DE135 with Tap〉		Hard Bracket S3060·DE45 〈Hard Bracket S3060·DE45 with Tap〉	
Item No.	SFJ-N40〈SFJ-N40T〉		SFJ-N39〈SFJ-N39T〉	
Name(Bolt and Nut Kit)	S3060·DE135 Kit 〈S3060·DE135 Kit with Tap〉	S3060·DE135(Stainless)Kit 〈S3060·DE135(Stainless)Kit with tTap〉	S3060·DE45 Kit 〈S3060·DE45 Kit with Tap〉	S3060·DE45(Stainless)Kit 〈S3060·DE45(Stainless)Kit with Tap〉
Item No.	SFK-N40〈SFK-N40T〉	SFK-N40S〈SFK-N40P〉	SFK-N39〈SFK-N39T〉	SFK-N39S〈SFK-N39P〉

■Kit Contents

〈Hard Bracket S3060·DE135 Kit〉
- Hard Bracket S3060·DE135〈or with Tap〉×1
- Hexagon Socket Bolt(M6×15)×4
- T Nut S(M6)×4

〈Hard Bracket S3060·DE45 Kit〉
- Hard Bracket S3060·DE45〈or with Tap〉×1
- Hexagon Socket Bolt(M6×15)×4
- T Nut S(M6)×4

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Weight 185g(DE135) 158g(DE45)
Environment RoHS Compliant
Green Procurement

Example of order

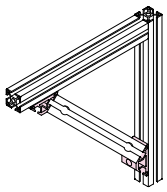
Parts How to order

Item No. SFJ-101S

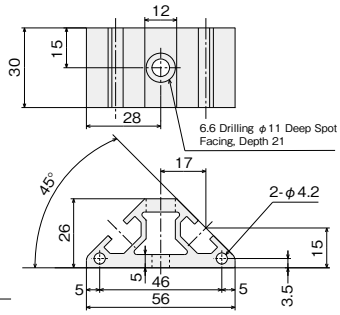
Quantity (pcs) □□

Truss Joint S



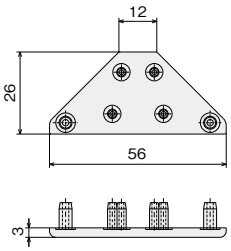


Truss Joint S



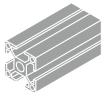
※Groove size is as same as SF-30·30

Truss Cap S



Name(Single Item)	Truss Joint S	
Item No.	SFJ-J02	
Name(Bolt and Nut Kit)	Truss Cap S (Black)	Truss Cap S (Light Gray)
Item No.	SFA-J02	SFA-J02G

■Usable Frame



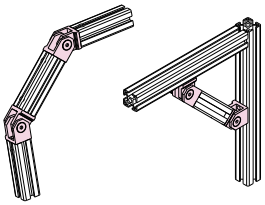
(Frame to reinforce)
SF-30·30
(Frame to combine)
SF-30·40·45 series installable

■Material/Technical Data

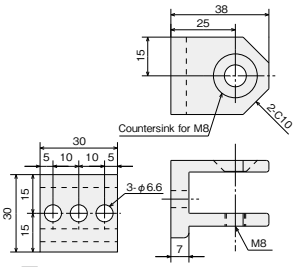
	Truss Joint S	Truss Cap S
Material	Aluminium Alloy Alumite Treatment	Polyamide
	37g	3.5g
Weight	RoHS Compliant	
Environment	Green Procurement	

Turn Bracket 30A / B

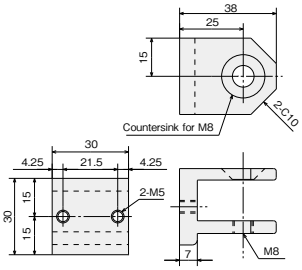




Turn Bracket 30A

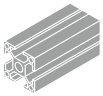


Turn Bracket 30B



Name	Turn Bracket 30A	Turn Bracket 30B
Item No.	SFK-41A	SFK-41B

■Usable Frame



(End Surface Installation)
SF-30·30 Exclusive.
(Side surface Installation)
T Nut is M6.

■Material/Technical Data

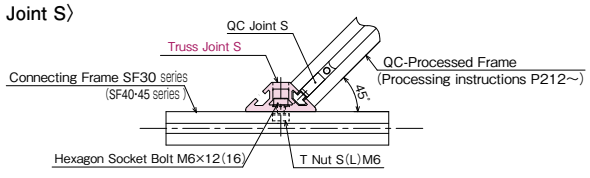
Turn Bracket 30A/B※

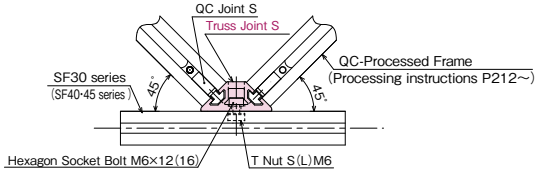
Material	Aluminium Alloy Alumite Treatment
Weight	33g(30A)/35g(30B)
Environment	RoHS Compliant

※30A and B each include Hexagon Socket Flat Head Cap Screw(M8×12).

How to use Truss Joint・Turn Bracket

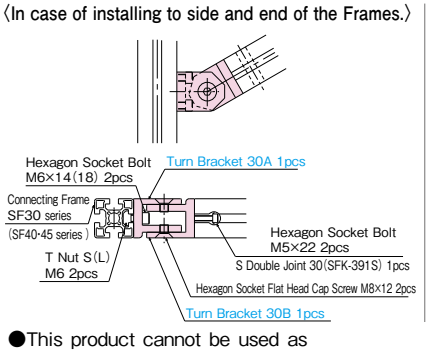
〈Truss Joint S〉



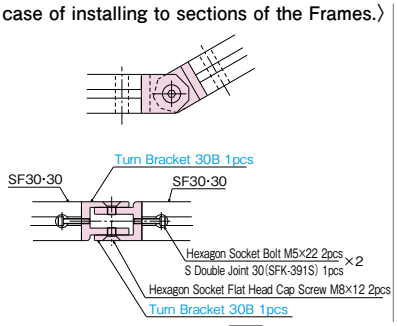


〈Turn Bracket〉

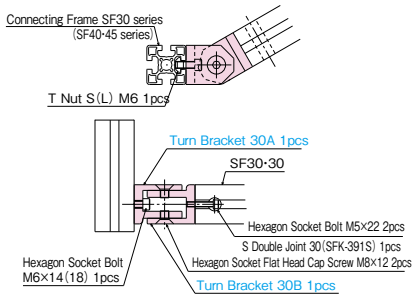
〈In case of installing to side and end of the Frames.〉



〈In case of installing to sections of the Frames.〉



〈In case of installing to side and end of the Frames.〉



●This product cannot be used as supporting point of movable part.

GO ●Use Processing Symbols written from P214~ to specify frilling for Double Joint.

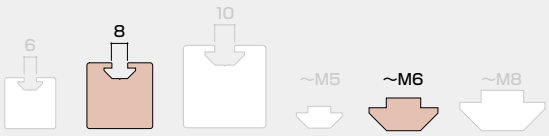
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

●Hard Bracket S Material
●Angle Bracket S Material

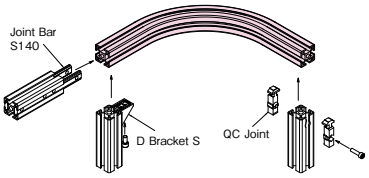


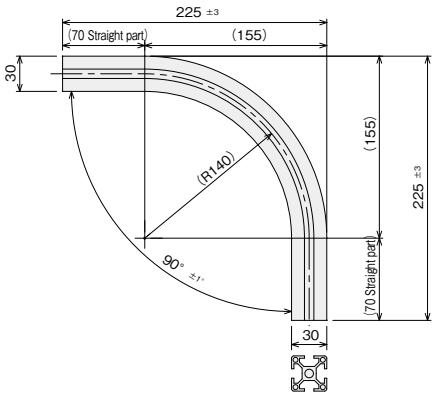
SF30 SERIES



Bend Bracket S

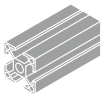






Name	Bend Bracket S (Stainless)
Item No.	SFJ-V01

■Kit Contents



Compatible to SF-30·30 series (1F/2F/2H/3F).

■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
(Special order:Black Alumite is available.)
Weight 332g
Environment **RoHS** Compliant
Green Procurement







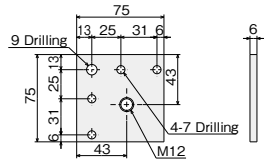
Parts How to order
Item No. SFJ-V01
Quantity (pcs) □□

Adjuster Kit



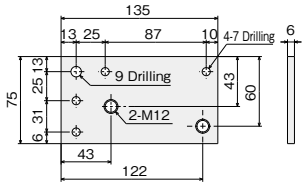
■Plate

Adjuster Plate S / Adjuster Plate S(Stainless)



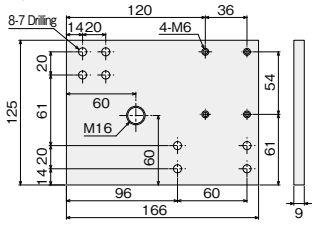
	Material	Treatment	Weight
Adjuster Plate S	SS400	Uni-Chrome	0.24kg
Adjuster Plate S(Stainless)	SUS304		

Adjuster Caster Plate S / Adjuster Caster Plate S(Stainless)



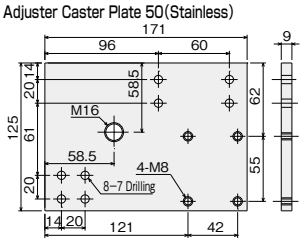
	Material	Treatment	Weight
Adjuster Caster Plate S	SS400	Uni-Chrome	0.44kg
Adjuster Caster Plate S(Stainless)	SUS304		

Adjuster Caster Plate 50



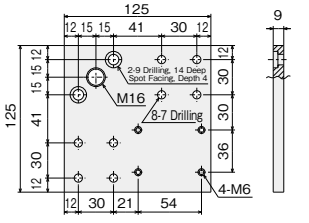
	Material	Treatment	Weight
Adjuster Caster Plate 50	SS400	Uni-Chrome	1.03kg

Adjuster Caster Plate 50(Stainless)



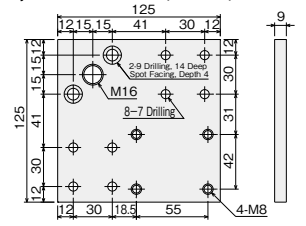
	Material	Treatment	Weight
Adjuster Caster Plate 50(Stainless)	SUS304		1.04kg

Adjuster Caster Plate 60



	Material	Treatment	Load Capacity
Adjuster Caster Plate 60	SS400	Uni-Chrome	1.03kg

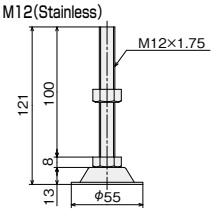
Adjuster Caster Plate 60(Stainless)



	Material	Treatment	Load Capacity
Adjuster Caster Plate 60(Stainless)	SUS304		1.04kg

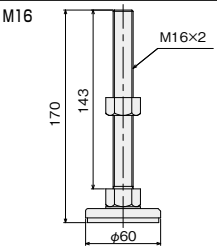
■Adjuster

Adjuster M12 / Adjuster M12(Stainless)



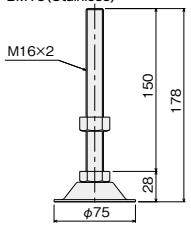
	Material	Treatment	Load Capacity	Weight
Adjuster M12	SS400	Uni-Chrome	500kg	169g
Adjuster M12(Stainless)	SUS304	Electrolytic Polishing	300kg	165g

Adjuster M16



	Material	Treatment	Load Capacity	Weight	Bottom
Adjuster M16	SS400	Zn Black	500kg	386g	Neoprene rubber

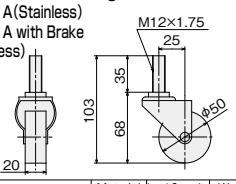
Adjuster BM16(Stainless)



	Material	Treatment	Load Capacity	Weight
Adjuster BM16(Stainless)	SUS304	Electrolytic Polishing	560kg	375g

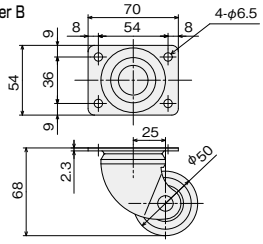
■Caster

Caster A / Caster A brake attaching / Caster A(Stainless) / Caster A with Brake (Stainless)



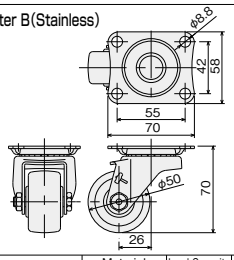
	Material	Load Capacity	Weight
Caster A	Rubber	30kg	189g
Caster A with Brake	Rubber	30kg	223g
Caster A(Stainless)	Nylon	40.8kg	147g

Caster B



	Material	Load Capacity	Weight
Caster B	Phenol Resin	150kg	340g

Caster B(Stainless)



	Material	Load Capacity	Weight
Caster B(Stainless)	Phenol Resin	71.4kg	285g

	Item No.	Name	Compatible Frame	Kit contents		
Adjuster + Plate	SFK-503A	Level Adjuster Kit S	SF-30·30	●Adjuster Plate S×1 ●T Nut S(M6)×4	●Adjuster M12×1 ●Hexagon Socket Bolt(M6×12)×4	
	SFK-503S	Level Adjuster Kit S(Stainless)	SF-30·30	●Adjuster Plate S(Stainless)×1 ●ST Nut S(M6)×4	●Adjuster M12(Stainless)×1 ●Hexagon Socket Bolt(M6×12)Stainless×4	
	SFK-517	Level Adjuster Kit 50	SF-50·50·2S	●Adjuster Caster Plate 50×1 ●T Nut S(M6)×8	●Adjuster M16×1 ●Hexagon Socket Bolt(M6×15)×8	
	SFK-517S	Level Adjuster Kit 50(Stainless)	SF-50·50·2S	●Adjuster Caster Plate 50(Stainless)×1 ●ST Nut S(M6)×8	●Adjuster BM16(Stainless)×1 ●Hexagon Socket Bolt(M6×15)Stainless×8	
	SFK-511A	Level Adjuster Kit 60	SF-60·60·2S	●Adjuster Caster Plate 60×1 ●T Nut S(M6)×8	●Adjuster M16×1 ●Hexagon Socket Bolt(M6×15)×8	
	SFK-511S	Level Adjuster Kit 60(Stainless)	SF-60·60·2S	●Adjuster Caster Plate 60(Stainless)×1 ●ST Nut S(M6)×8	●Adjuster BM16(Stainless)×1 ●Hexagon Socket Bolt(M6×15)Stainless×8	
Caster + Plate	SFK-505A	Caster Kit S	SF-30·30	●Adjuster Plate S×1 ●T Nut S(M6)×4	●Caster A×1 ●Hexagon Socket Bolt(M6×12)×4	●Hexagon Nut(M12)×1
	SFK-505S	Caster Kit S(Stainless)	SF-30·30	●Adjuster Plate S(Stainless)×1 ●ST Nut S(M6)×4	●Caster A(Stainless)×1 ●Hexagon Socket Bolt(M6×12)Stainless×4	●Hexagon Nut(M12)Stainless×1
	SFK-506A	Caster Kit S with Brake	SF-30·30	●Adjuster Plate S×1 ●T Nut S(M6)×4	●CasterA brake attaching×1 ●Hexagon Socket Bolt(M6×12)×4	●Hexagon Nut(M12)×1
	SFK-506S	Caster Kit S with Brake(Stainless)	SF-30·30	●Adjuster Plate S(Stainless)×1 ●ST Nut S(M6)×4	●CasterA brake attaching(Stainless)×1 ●Hexagon Socket Bolt(M6×12)Stainless×4	●Hexagon Nut(M12)Stainless×1
Caster Adjuster + Plate	SFK-504A	Level Adjuster Kit with Caster S	SF-30·30	●Adjuster Caster Plate S×1 ●Adjuster M12×1	●Caster A×1 ●T Nut S(M6)×4	●Hexagon Socket Bolt(M6×12)×4 ●Hexagon Nut(M12)×1
	SFK-504S	Level Adjuster Kit with Caster S(Stainless)	SF-30·30	●Adjuster Caster Plate S(Stainless)×1 ●Adjuster M12(Stainless)×1	●Caster A(Stainless)×1 ●ST Nut S(M6)×4	●Hexagon Socket Bolt(M6×12)Stainless×4 ●Hexagon Nut(M12)Stainless×1
	SFK-518	Level Adjuster Kit with Caster 50	SF-50·50·2S	●Adjuster Caster Plate 50×1 ●Adjuster M16×1	●Caster B×1 ●T Nut S(M6)×8	●Hexagon Socket Bolt(M6×15)×8 ●Hexagon Socket Bolt(M6×10)×4
	SFK-518S	Level Adjuster Kit with Caster 50(Stainless)	SF-50·50·2S	●Adjuster Caster Plate 50(Stainless)×1 ●Adjuster BM16(Stainless)×1	●Caster B(Stainless)×1 ●ST Nut S(M6)×8	●Hexagon Socket Bolt(M6×15)Stainless×8 ●Hexagon Socket Bolt(M8×12)Stainless×4
	SFK-512A	Level Adjuster Kit with Caster 60	SF-60·60·2S	●Adjuster Caster Plate 60×1 ●Adjuster M16×1	●Caster B×1 ●T Nut S(M6)×8	●Hexagon Socket Bolt(M6×15)×8 ●Hexagon Socket Bolt(M6×10)×4
	SFK-512S	Level Adjuster Kit with Caster 60(Stainless)	SF-60·60·2S	●Adjuster Caster Plate 60(Stainless)×1 ●Adjuster BM16(Stainless)×1	●Caster B(Stainless)×1 ●STNut S(M6)×8	●Hexagon Socket Bolt(M6×15)Stainless×8 ●Hexagon Socket Bolt(M8×12)Stainless×4

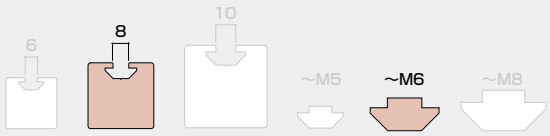
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

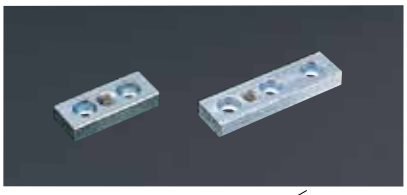
●Hard Bracket S Material
●Angle Bracket S Material



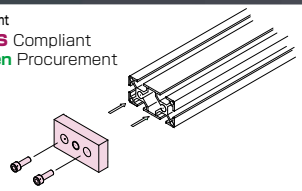
SF30 SERIES



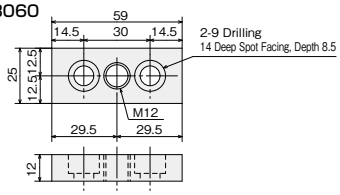
Foot Base



Environment
★RoHS Compliant
★Green Procurement



Foot Base 3060

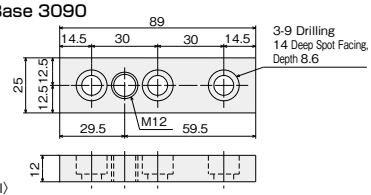


〈Material〉

Foot Base3060	SS400 Uni-Chrome Plating Hexagon Socket Bolt(M8×20)Include 2 Weight/100g
Foot Base3060 (Stainless)	SUS304 Hexagon Socket Bolt(M8×20) Include 2 Stainless Bolts Weight/101g

■Usable Frame
SF-30·60(or 1F)

Foot Base 3090

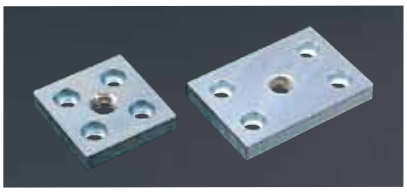


〈Material〉

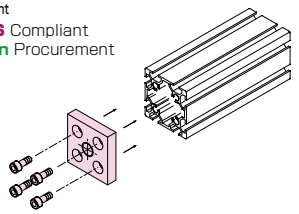
Foot Base 3090	SS400 Uni-Chrome Plating Hexagon Socket Bolt(M8×20)Include3 Weight/156g
Foot Base 3090 (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include3 Stainless Bolts Weight/157g

■Usable Frame
SF-30·90

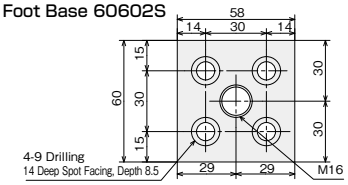
Name	Foot Base 3060 〈Foot Base 3060(Stainless)〉	Foot Base 3090 〈Foot Base 3090(Stainless)〉
Item No.	★SFK-56A(★SFK-56AS)	★SFK-52A(★SFK-52AS)



Environment
★RoHS Compliant
★Green Procurement



Foot Base 60602S

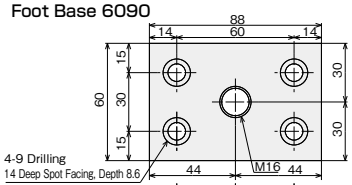


〈Material〉

Foot Base 60602S	SS400 Uni-Chrome Plating Hexagon Socket Bolt(M8×20)Include 4 Weight/257g
Foot Base 60602S (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include 4 Stainless Bolts Weight/259g

■Usable Frame
SF-60·60·2S(or 1F)

Foot Base 6090



〈Material〉

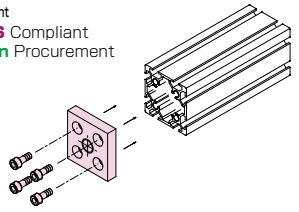
Foot Base 6090	SS400 Uni-Chrome plating Hexagon Socket Bolt(M8×20)Include4 Weight/427g
Foot Base 6090 (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include4 Stainless Bolts Weight/431g

■Usable Frame
SF-60·90

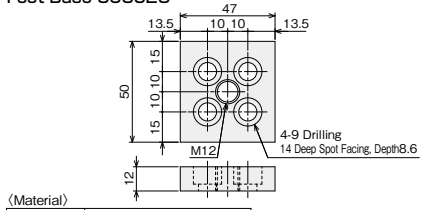
Name	Foot Base 60602S 〈Foot Base 60602S(Stainless)〉	Foot Base 6090 〈Foot Base 6090(Stainless)〉
Item No.	★SFK-58A(★SFK-58AS)	★SFK-53A(★SFK-53AS)



Environment
★RoHS Compliant
★Green Procurement



Foot Base 50502S

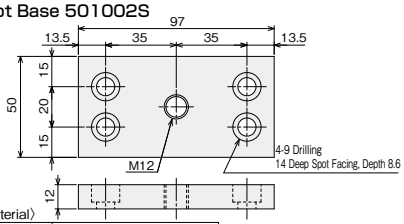


〈Material〉

Foot Base 50502S	SS400 Uni-Chrome Plating Hexagon Socket Bolt(M8×20)Include 4 Weight/164g
Foot Base 50502S (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include 4 Stainless Bolts Weight/165g

■Usable Frame
SF-50·50·2S

Foot Base 501002S



〈Material〉

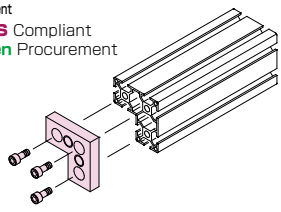
Foot Base 501002S	SS400 Uni-chrome Plating Hexagon Socket Bolt (M8×20)Include4 Weight/400g
Foot Base 501002S (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include4 Stainless Bolts Weight/404g

■Usable Frame
SF-50·100·2S

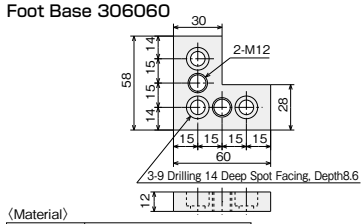
Name	Foot Base 50502S 〈Foot Base 50502S(Stainless)〉	Foot Base 501002S 〈Foot Base 501002S(Stainless)〉
Item No.	★SFK-68A(★SFK-68AS)	★SFK-69A(★SFK-69AS)



Environment
★RoHS Compliant
★Green Procurement



Foot Base 306060

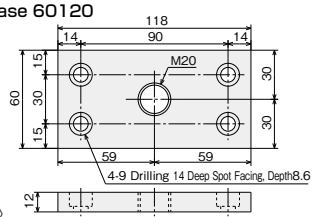


〈Material〉

Foot Base 306060	SS400 Uni-Chrome Plating Hexagon Bolt with Hole(M8×20)Include 3 Weight/181g
Foot Base 306060 (Stainless)	SUS304 Hexagon Bolt with Hole (M8×20) Include 3 Stainless Bolts Weight/182g

■Usable Frame
SF-30·60·60

Foot Base 60120



〈Material〉

Foot Base 60120	SS400 Uni-Chrome Plating Hexagon Socket Bolt(M8×20)Include 4 Weight/578g
Foot Base 60120 (Stainless)	SUS304 Hexagon Socket Bolt (M8×20) Include 4 Stainless Bolts Weight/83g

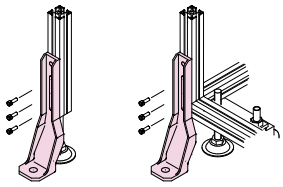
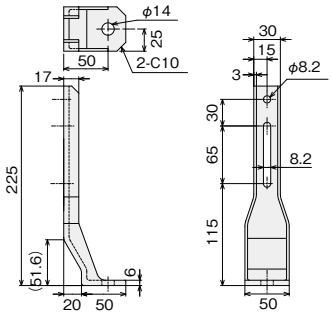
■Usable Frame
SF-60·120

Name	Foot Base 306060 〈Foot Base 306060(Stainless)〉	Foot Base 60120 〈Foot Base 60120(Stainless)〉
Item No.	★SFK-63A(★SFK-63AS)	★SFK-64A(★SFK-64AS)

Parts How to order
Item No.
SFK-56A
Quantity (pcs)
□□

Anchor Bracket

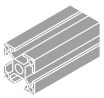


Name(Single Item)	Anchor Bracket 〈Anchor Bracket(Electroless nickel plating)〉
Item No.	SFJ-70A〈SFJ-70AS〉

Name(Bolt and Nut Kit)	Anchor Kit S 〈Anchor Kit S(Electroless nickel plating)〉
Item No.	SFK-70A〈SFK-70AS〉

■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)
※2F Frame excluded

■Kit Contents

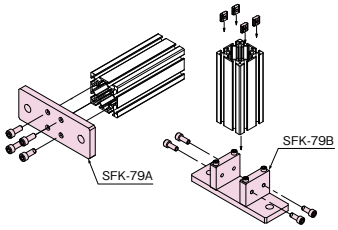
- Anchor Bracket×1
- T Nut S(M6)×3
- Hexagon Socket Bolt (M6×14)×3
- M6 Flat Washer×3

※Bolt and Nut in (Electroless nickel) Kit are stainless.

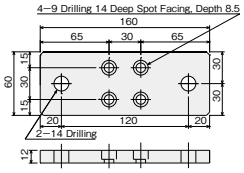
■Material/Technical Data

	Anchor Bracket	Anchor Bracket (Electroless nickel plating)
Material	S45C Anion Electrodeposition Coating	S45C Electroless nickel plating
Weight	577g	577g
Environment	RoHS Compliant Green Procurement	

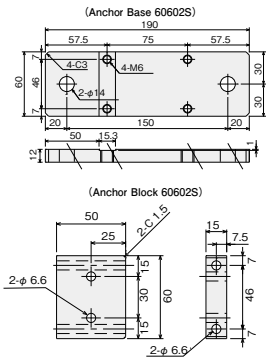
Anchor Plate 60602S / Anchor Plate Bracket 60602S Kit

Anchor Plate 60602S



Anchor Plate Bracket 60602S Kit



Name(Single Item)	Anchor Plate 60602S
Item No.	SFK-79A

Name(Bolt and Nut Kit)	Anchor Plate Bracket 60602S Kit
Item No.	SFK-79B

■Usable Frame



SF-60·60·2S

■Kit Contents

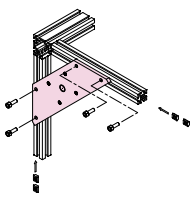
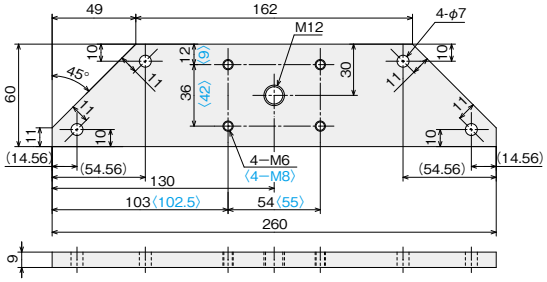
- Anchor Base 60602S×1
- Anchor Block 60602S×2
- Hexagon Socket Bolt (M6×60)Stainless×4
- Hexagon Socket Bolt (M6×22)Stainless×4
- ST Nut S(M6)×4
- Anti-Sliding Cap S

■Material/Technical Data

	Anchor Plate 60602S※	Anchor Plate Bracket 60602S Kit
Material	SUS304	SUS304(Base) A6063 Alumite Treatment(Anchor Block)
Weight	890g	1328g
Environment	RoHS Compliant Green Procurement	

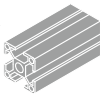
※Hexagon Socket Bolt (M8×25) Stainless 4

Caster Plate S

Name	Caster Plate S 〈Caster Plate S(Stainless)〉
Item No.	★SFJ-7A2〈★SFJ-7A2S〉

■Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

■How to use

- Adjuster M12
- Caster A
- Caster B
- Commercial Hanging Bolt, etc

■Material/Technical Data

	Caster Plate S	Caster Plate S(Stainless)
Material	SS400 Uni-Chrome Plating	SUS304
Weight	900g	909g
Environment	★RoHS Compliant ★Green Procurement	

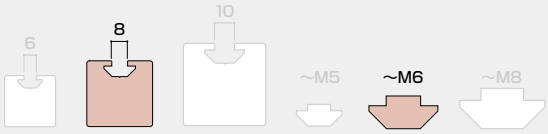
We sell Nut Material and Bracket Material as well.

T Nut S Material P62

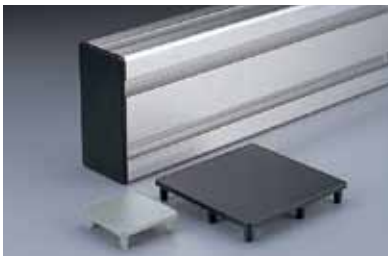
●Hard Bracket S Material
●Angle Bracket S Material


Material Frame

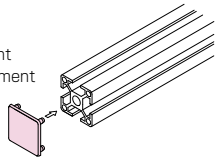
SF30 SERIES



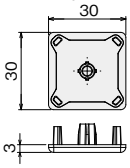
Frame Cap



Material Polyamide
Weight Refer Drawing
Environment **RoHS** Compliant
Green Procurement



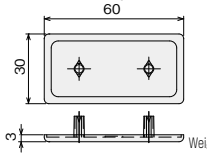
Frame Cap N3030



Weight/2.4g

■Usable Frame
SF-30·30(or 1F/2F/3F/2H)
SF Light 30·30/SF-K·30·30

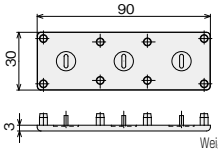
Frame Cap 3060



Weight/4.7g

■Usable Frame
SF-30·60、SF-30·60·1F、
SF-K·30·60※SF-30·120

Frame Cap 3090



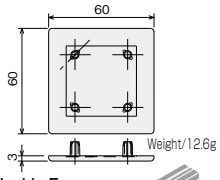
Weight/9.5g

■Usable Frame
SF-30·90

Name	Frame Cap 3030 (Black)	Frame Cap 3030 (Light Gray)	Frame Cap 3060 (Black)	Frame Cap 3060 (Light Gray)	Frame Cap 3090 (Black)	Frame Cap 3090 (Light Gray)
Item No.	SFA-033B	SFA-033G	SFA-005	SFA-005G	SFA-013	SFA-013G

※Use 2 pcs for SF-30·120.

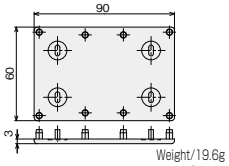
Frame Cap 60602S



Weight/12.6g

■Usable Frame
SF-60·60(or 1F/2F)

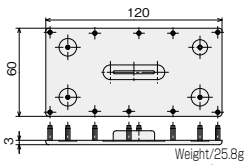
Frame Cap 6090



Weight/19.6g

■Usable Frame
SF-60·90

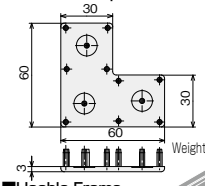
Frame Cap 60120



Weight/25.8g

■Usable Frame
SF-60·120

Frame Cap 306060

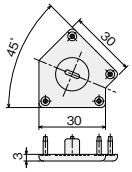


Weight/10.0g

■Usable Frame
SF-30·60·60

Name	Frame Cap 60602S (Black)	Frame Cap 60602S (Light Gray)	Frame Cap 6090 (Black)	Frame Cap 6090 (Light Gray)	Frame Cap 60120 (Black)	Frame Cap 60120 (Light Gray)	Frame Cap 306060 (Black)	Frame Cap 306060 (Light Gray)
Item No.	SFA-011	SFA-011G	SFA-015	SFA-015G	SFA-018	SFA-018G	SFA-J9B	SFA-J9BG

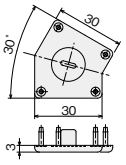
Frame Cap 30·DE45



Weight/3.2g

■Usable Frame
SF-30·DE45

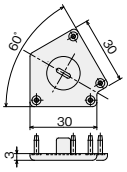
Frame Cap 30·DE30



Weight/3.2g

■Usable Frame
SF-30·DE30

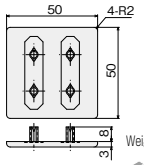
Frame Cap 30·DE60



Weight/3.2g

■Usable Frame
SF-30·DE60

Frame Cap 5050



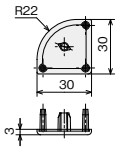
Weight/8.0g

■Usable Frame
SF-50·50·2S※SF-50·100·2S

Name	Frame Cap 30·DE45 (Black)	Frame Cap 30·DE45 (Light Gray)	Frame Cap 30·DE30 (Black)	Frame Cap 30·DE30 (Light Gray)	Frame Cap 30·DE60 (Black)	Frame Cap 30·DE60 (Light Gray)	Frame Cap 5050 (Black)	Frame Cap 5050 (Light Gray)
Item No.	SFA-J6B	SFA-J6BG	SFA-J6A	SFA-J6AG	SFA-J6C	SFA-J6CG	SFA-026	SFA-026G

※Use 2 pcs for SF-50·100.

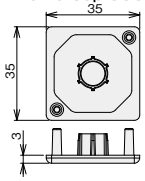
Frame Cap 30·30·R



Weight/2.4g

■Usable Frame
SF-30·30·R

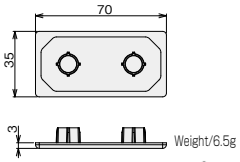
Frame Cap 3535



Weight/3.6g

■Usable Frame
SF-35·35(or 1F/2F/2H)

Frame Cap 3570



Weight/6.5g

■Usable Frame
SF-35·70(or 1F/2F)

Name	Frame Cap 30·30·R (Black)	Frame Cap 30·30·R (Light Gray)	Frame Cap 3535 (Black)	Frame Cap 3535 (Light Gray)	Frame Cap 3570 (Black)	Frame Cap 3570 (Light Gray)
Item No.	SFA-020	SFA-020G	SFA-031	SFA-031G	SFA-032	SFA-032G

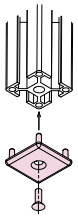
Parts How to order

Example of order

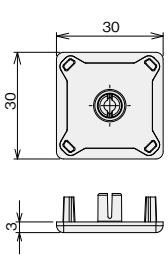
Item No. SFA-001 Quantity (pcs) □□

Frame Cap Lock Type

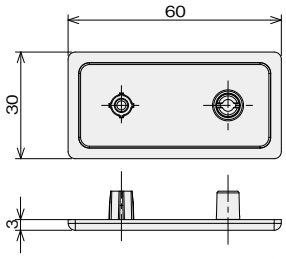




※Provided bolt enabled to lock without Tap Processing to Frame.



■Usable Frame
SF-30·30/SF-K·30·30



■Usable Frame
SF-30·60/SF-K·30·60

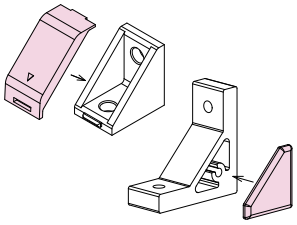
Material Polyamide(Cap)、SWCH10R(Bolt)、Chromate Black Treatment or Stainless(Bolt)
Weight 3.7g(3030)、5.9g(3060)
Environment **RoHS** Compliant
Green Procurement

Name	Frame Cap Lock Type 3030(Black)※1	Frame Cap Lock Type 3030(Light Gray)※2	Frame Cap Lock Type 3060(Black)※3	Frame Cap Lock Type 3060(Light Gray)※4
Item No.	SFK-05LB	SFK-05LG	SFK-04L	SFK-04LG

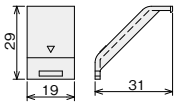
※1 With Small Flat Screw with Cross Hole (M4×12) Chromate Black ※2 With Small Flat Screw with Cross Hole (M4×12) Stainless ※3 With Small Flat Screw with Cross Hole (M4×12) Chromate Black ※4 With Small Flat Screw with Cross Hole (M4×12) Stainless

D Bracket Cap S/Hard Bracket Cap/G Cap

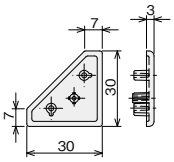




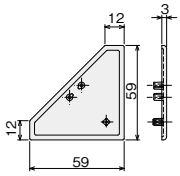
D Bracket Cap S



Hard Bracket Cap



Hard Bracket G Cap

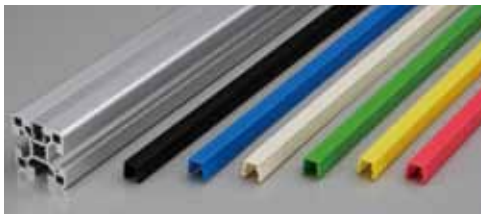


Name	D Bracket Cap S (Black)	D Bracket Cap S (Light Gray)	Hard Bracket Cap (Black)	Hard Bracket Cap (Light Gray)	Hard Bracket G Cap (Black)	Hard Bracket G Cap (Light Gray)
Item No.	SFA-J13	SFA-J13G	SFA-J11	SFA-J11G	SFA-J12	SFA-J12G

■Usable Bracket
〈D Bracket Cap〉
D Bracket S/Black/CN
〈Hard Bracket Cap〉
Hard Bracket S/S3060
S3090/Black
〈Hard Bracket G Cap〉
Hard Bracket SG/SG3060
SG3090/Black

■Material/Technical Data
Material Polyamide
Weight 2.1g(D Bracket Cap S)
1.8g(Hard Bracket Cap)
6.1g(Hard Bracket G Cap)
Environment **RoHS** Compliant
Green Procurement

Slot Cap S / Slot Seal S

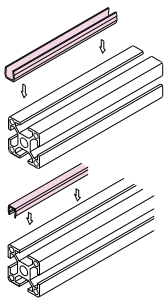




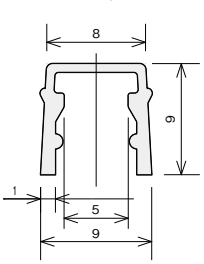
Name	Slot Cap S(ℓ=2000mm/pcs) (Black)	(Light Gray)	(Blue)	(Ivory)	(Green)	(Yellow)	(Red)
Item No.	SFA-104	SFA-104G	SFA-104L	SFA-104V	SFA-104M	SFA-104Y	SFA-104R

Name	Slot Seal S(ℓ=5000mm/pcs)
Item No.	SFA-171

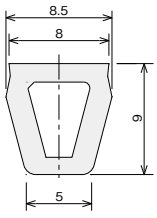
Slot Cap S



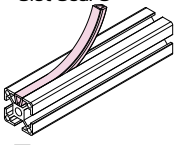
Slot Cap S



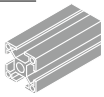
Slot Seal S



Slot Seal S



・Exclusive Cutter for Slot Cap and Slot Seal is available.



■Usable Frame
Compatible to all SF30 series
(Groove Width 8mm)

■Material/Technical Data

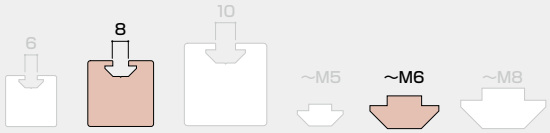
	Slot Cap S	Slot Seal S
Material	Polyethylene	Elastomer
unit mass	25g/m	45g/m

Environment **RoHS** Compliant
Green Procurement

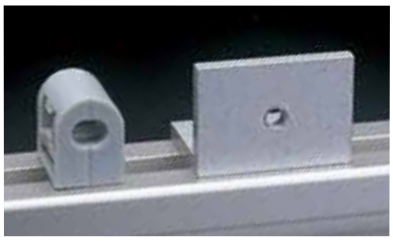
We sell Nut Material and Bracket Material as well.
T Nut S Material P62
●Hard Bracket S Material
●Angle Bracket S Material

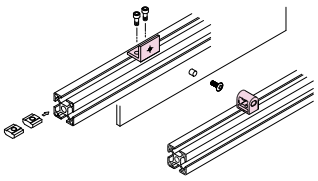


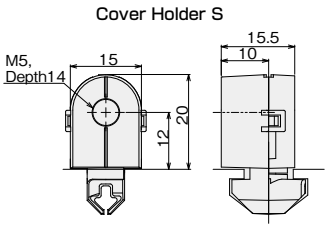
SF30 SERIES

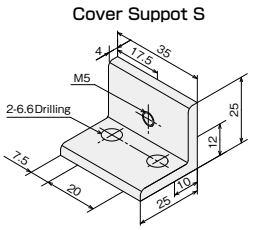


Cover Holder S／Cover Suppot S





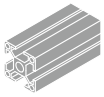




Name(Single Item)	Cover Holder S	Cover Suppot S
Item No.	★SFA-KH6	★SFJ-K02

Name(Bolt and Nut Kit)	Cover Suppot S Kit (Cover Suppot S(Stainless)Kit)
Item No.	★SFK-K02 (★SFK-K02S)

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

■Kit contents

- Cover Suppot S×1
- Hexagon Socket Bolt(M6×12)×2
- T Nut S(M6)×2
- Truss Screw(M5×10)×1

※Bolt and Nut in (Stainless) Kit are stainless.

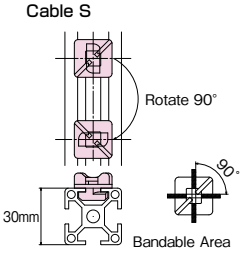
■Material/Technical Data

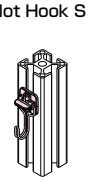
	Cover Holder S※	Cover Suppot S
Material	Polyamide	Aluminium Alloy Alumite Treatment (Special order:Black Alumite is also available.)
Weight	6g	17g
Environment	RoHS Compliant Green Procurement	

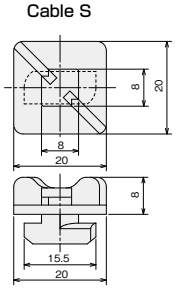
※With M5 nut

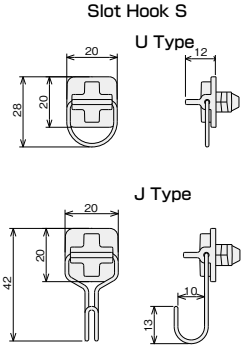
Cable Clamp S／Slot Hook S (U)・(J)











Name	Cable S(50pcs/pack) (Black)	(Light Gray)
Item No.	C1P-B04C	C1P-004C

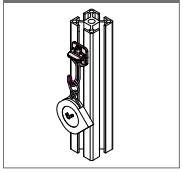
Name	Slot Hook S (U Type)	(J Type)
Item No.	SFK-K32U	SFK-K32J

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

How to use Slot Hook

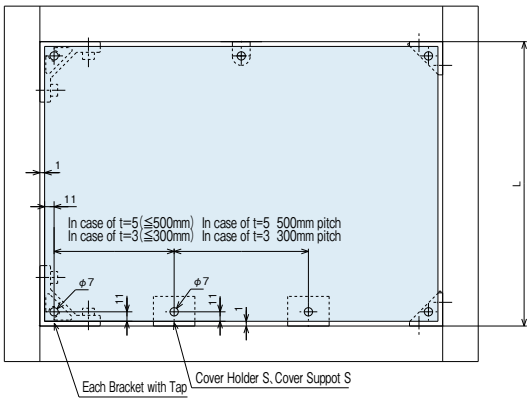


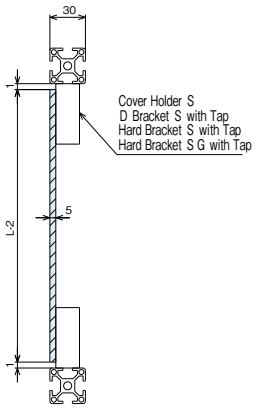
■Material/Technical Data

	Cable S	Slot HookS
Material	Polyamide	Polyamide(Body) Stainless(Hook)
Weight	2g/piece	3g(U Type)·4g(J Type)/Load capacity1.5kg
Environment	RoHS Compliant Green Procurement	

How to fix Cover

〈Indication of Cover Holder S,Cover Suppot S,Resin Plate Size〉





If the cover thickness is 5mm, Frame and Cover surfaces become flat.

〈Resin plate〉



GO ●Various Resin plates are available. Refer P182～.

〈Door accessories〉



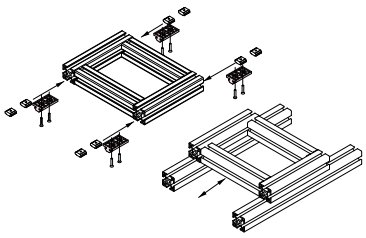
GO ●Various parts for doors are available. Refer P140～.

Example of order

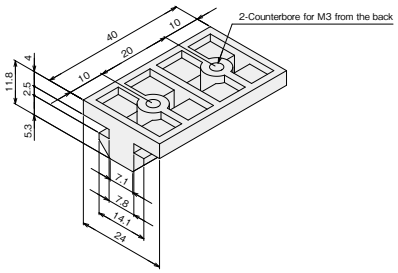
Parts
How to order
Item No. Quantity (pcs)
SFK-K96 □□

Slider S



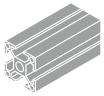


Slider S



Name	Slider S
Item No.	SFA-510

■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

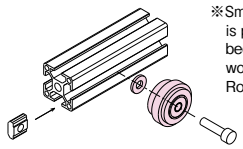
Material Polyacetal (Gray)
Weight 9g
Environment **RoHS** Compliant
Green Procurement

■Recommendation Bolt and Nut Installation List

Name	Installation Frame	Recommendation Bolt	Recommendation Nut	Appropriate Tightening Torque(N·m)
Slider S	SF30 series	Hexagon Socket Flat Head Cap Screw(M3×20)	T Nut S(M3)	0.7

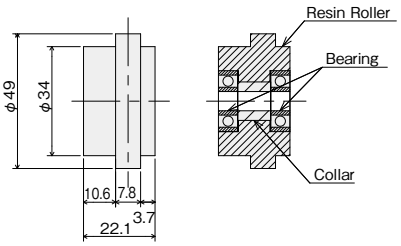
Slot Roller S



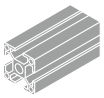


※Smooth operation is possible because cutting work is done with Roller.

Slot Roller S



■Usable Frame



Compatible to all SF30 series (Groove Width 8mm)

■Material/Technical Data

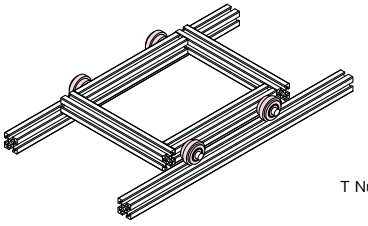
Material Nylon 6(Resin Roller)
S45C(Collar)
Steel(Bearing)
Weight 45g
Environment **RoHS** Compliant
Green Procurement

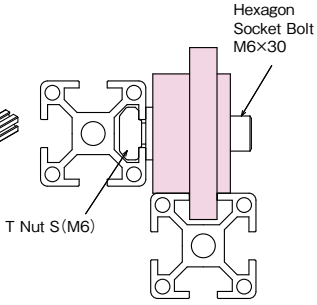
Name	Slot Roller S
Item No.	SFK-806

※Installation bolt size M6
※Appropriate Tightening Torque 9.0N·m
※With 2 Bearings, Collar and Flat Washer.

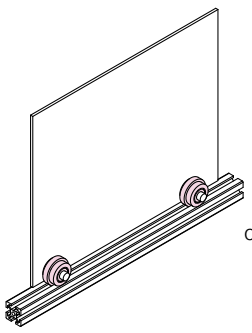
How to use Slot Roller

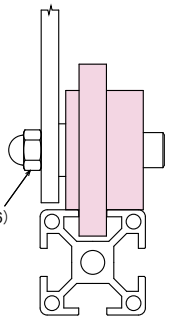
〈To frame's movable part〉





〈As door roller〉





We sell Nut Material and Bracket Material as well.
T Nut S Material P62
●Hard Bracket S Material
●Angle Bracket S Material

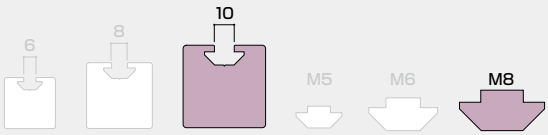




STANDARD FRAME

SF40·45 SERIES

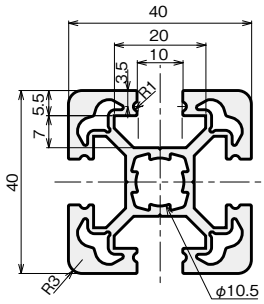
SF40•45 SERIES



SF2-40•40

Asia





Name	SF2-40•40 (ℓ=4000)	SF2-40•40 ℓ=50~4000
Item No.	SFF-422-T	SFF-424-T

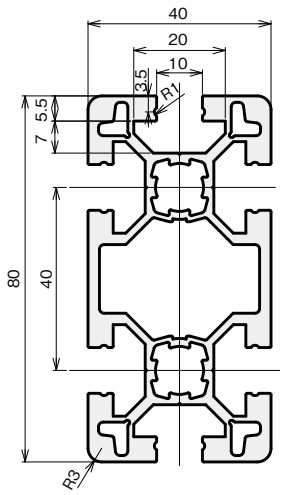
■Material/Technical Data

Material	Aluminium Alloy
	Alumite Treatment
Environment	**RoHS** Compliant
	Green Procurement
Geometrical Moment of Inertia	Ix=10.54×10⁴mm⁴
	Iy=10.54×10⁴mm⁴
Section Modulus	Zx=5.27×10³mm³
	Zy=5.27×10³mm³
Unit Mass	1.61kg/m

SF2-40•80

Asia





Name	SF2-40•80 (ℓ=4000)	SF2-40•80 ℓ=50~4000
Item No.	SFF-432-T	SFF-434-T

■Material/Technical Data

Material	Aluminium Alloy
	Alumite Treatment
Environment	**RoHS** Compliant
	Green Procurement
Geometrical Moment of Inertia	Ix=72.40×10⁴mm⁴
	Iy=19.92×10⁴mm⁴
Section Modulus	Zx=18.10×10³mm³
	Zy=9.96×10³mm³
Unit Mass	2.8kg/m

Example of order

SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-422-T

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. **SFF-424-T** Length (mm) ℓ=800

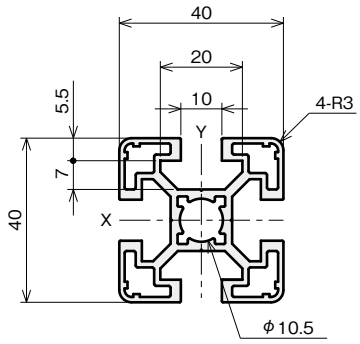
SF-K・40・40

Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=7.5×10⁴mm⁴ Iy=7.5×10⁴mm⁴
Section Modulus	Zx=3.7×10³mm³ Zy=3.7×10³mm³
Unit Mass	1.33kg/m



Name	SF-K・40・40 (ℓ=4000)	SF-K・40・40 ℓ=50~4000
Item No.	SFF-C02-T	SFF-C04-T

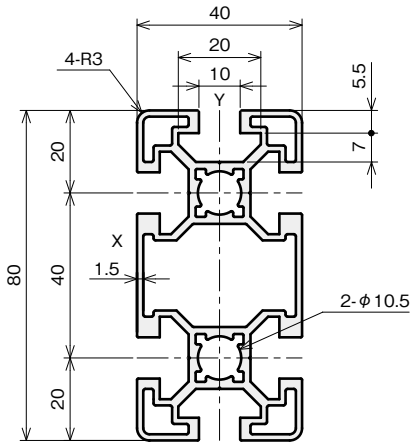
SF-K・40・80

Asia



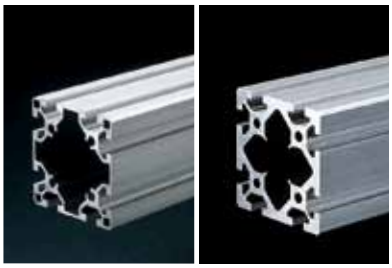
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=55.3×10⁴mm⁴ Iy=14.4×10⁴mm⁴
Section Modulus	Zx=13.8×10³mm³ Zy=7.2×10³mm³
Unit Mass	2.31kg/m



Name	SF-K・40・80 (ℓ=4000)	SF-K・40・80 ℓ=50~4000
Item No.	SFF-C482-T	SFF-C484-T

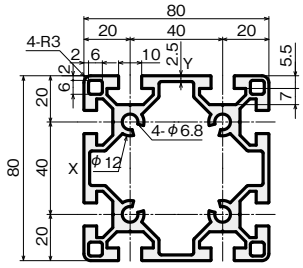
SF-80・80 / SF-80・80・H



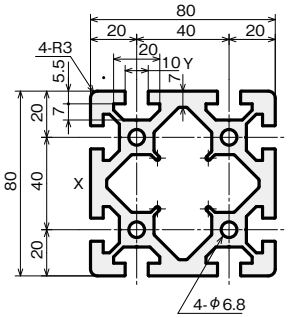
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-80・80	SF-80・80・H
Geometrical Moment of Inertia	Ix=129.84×10⁴mm⁴ Iy=129.84×10⁴mm⁴	Ix=182.5×10⁴mm⁴ Iy=182.5×10⁴mm⁴
Section Modulus	Zx=32.46×10³mm³ Zy=32.46×10³mm³	Zx=45.6×10³mm³ Zy=45.6×10³mm³
Unit Mass	4.57kg/m	7.13kg/m

SF-80・80



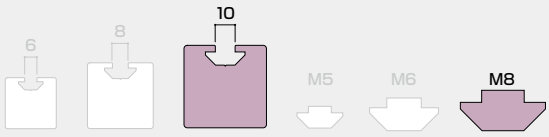
SF-80・80・H



Name	SF-80・80 (ℓ=4000)	SF-80・80 ℓ=50~4000
Item No.	SFF-802	SFF-804

Name	SF-80・80・H(ℓ=4000)	SF-80・80・H ℓ=50~4000
Item No.	SFF-H82	SFF-H84

SF40•45 SERIES



SF-40•160 / SF-80•160

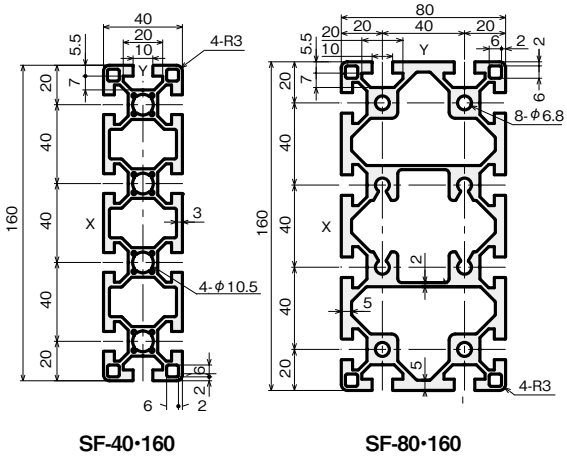


■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment	
Environment	**RoHS** Compliant **Green** Procurement	
	SF-40•160	SF-80•160
Geometrical Moment of Inertia	Ix=498.8×10⁴mm⁴ Iy=38.5×10⁴mm⁴	Ix=1000.9×10⁴mm⁴ Iy=295.3×10⁴mm⁴
Section Modulus	Zx=62.3×10³mm³ Zy=19.2×10³mm³	Zx=125.1×10³mm³ Zy=73.8×10³mm³
Unit Mass	5.54kg/m	10.51kg/m

Name	SF-40•160 (ℓ=4000)	SF-40•160 ℓ=50~4000
Item No.	SFF-4162	SFF-4164

Name	SF-80•160 (ℓ=4000)	SF-80•160 ℓ=50~4000
Item No.	SFF-812	SFF-814



SF-40•160 SF-80•160

SF-60•60•1S

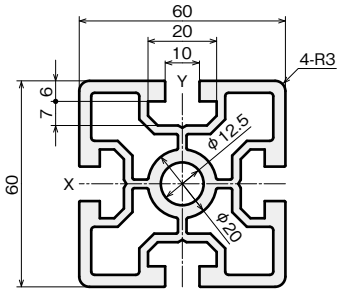
Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=49.27×10⁴mm⁴ Iy=49.27×10⁴mm⁴
Section Modulus	Zx=16.42×10³mm³ Zy=16.42×10³mm³
Unit Mass	3.72kg/m

Name	SF-60•60•1S (ℓ=4000)	SF-60•60•1S ℓ=50~4000
Item No.	SFF-602-T	SFF-604-T



SF-80•80•1S

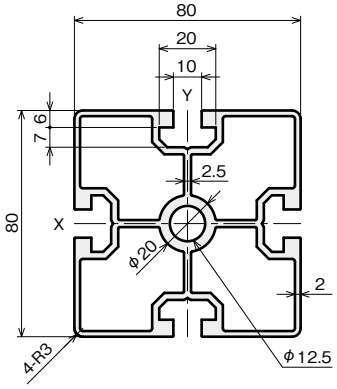
Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=90.46×10⁴mm⁴ Iy=90.46×10⁴mm⁴
Section Modulus	Zx=22.62×10³mm³ Zy=22.62×10³mm³
Unit Mass	3.94kg/m

Name	SF-80•80•1S (ℓ=4000)	SF-80•80•1S ℓ=50~4000
Item No.	SFF-822-T	SFF-824-T



Example of order

SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-4162

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. **SFF-4164** Length (mm) ℓ=800

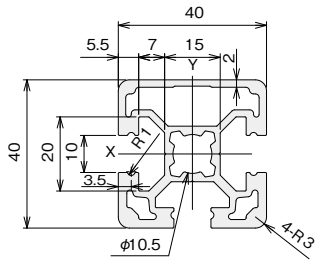
SF2-40・40・1F

Asia



■Material/Technical Data

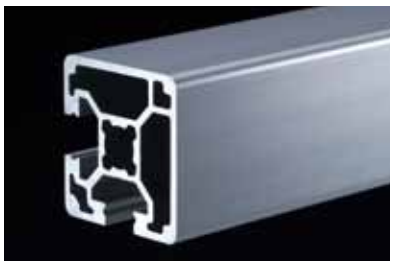
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=9.7×10⁴mm⁴ Iy=9.99×10⁴mm⁴
Section Modulus	Zx=4.58×10³mm³ Zy=5.00×10³mm³
Unit Mass	1.53kg/m



Name	SF2-40・40・1F (ℓ=4000)	SF2-40・40・1F ℓ=50~4000
Item No.	SFF-E12-T	SFF-E14-T

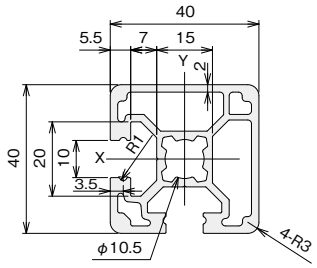
SF2-40・40・2F

Asia



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=9.72×10⁴mm⁴ Iy=9.72×10⁴mm⁴
Section Modulus	Zx=4.81×10³mm³ Zy=4.81×10³mm³
Unit Mass	1.49kg/m



Name	SF2-40・40・2F (ℓ=4000)	SF2-40・40・2F ℓ=50~4000
Item No.	SFF-F12-T	SFF-F14-T

SF2-40・40・3F / SF2-40・40・2H

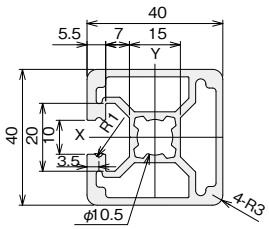
Asia



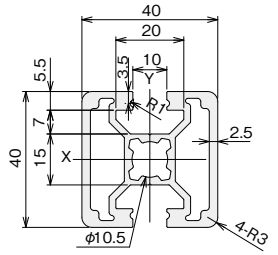
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF2-40・40・3F	SF2-40・40・2H
Geometrical Moment of Inertia	Ix=10.1×10⁴mm⁴ Iy=10.52×10⁴mm⁴	Ix=10.15×10⁴mm⁴ Iy=10.55×10⁴mm⁴
Section Modulus	Zx=5.00×10³mm³ Zy=5.26×10³mm³	Zx=5.08×10³mm³ Zy=5.28×10³mm³
Unit Mass	1.55kg/m	1.57kg/m

SF-40・40・3F



SF-40・40・2H



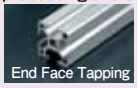
Name	SF2-40・40・3F (ℓ=4000)	SF2-40・40・3F ℓ=50~4000
Item No.	SFF-FF12-T	SFF-FF14-T

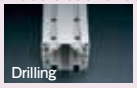
Name	SF2-40・40・2H(ℓ=4000)	SF2-40・40・2H ℓ=50~4000
Item No.	SFF-FH12-T	SFF-FH14-T

●Exclusive Nut T Nut L, After Nut L, Lock Nut L, Free Nut L P98~

●Exclusive Cap Frame Cap P122・123

●Additional processing and surface treatment are also available.

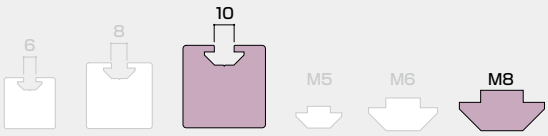

End Face Tapping


Drilling


Slant Cut

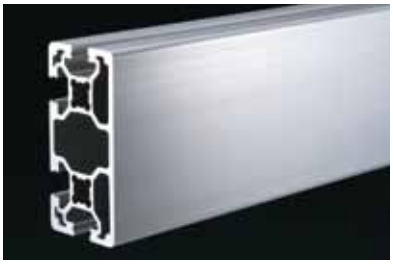
P206~

SF40•45 SERIES

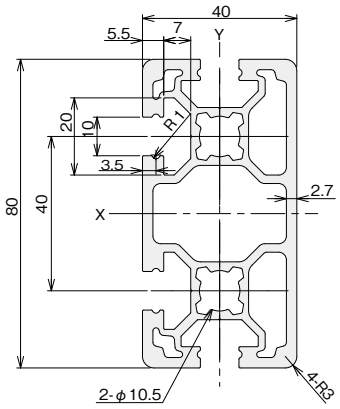


SF2-40•80•1F

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=71.00×10⁴mm⁴
Iy=20.35×10⁴mm⁴
Section Modulus ..... Zx=17.75×10³mm³
Zy=10.16×10³mm³
Unit Mass 2.82kg/m

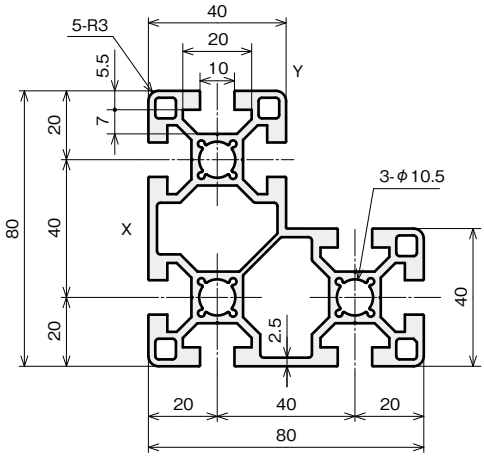


Name	SF2-40•80•1F (ℓ=4000)	SF2-40•80•1F ℓ=50~4000
Item No.	SFF-4E82-T	SFF-4E84-T

SF-40•80•80

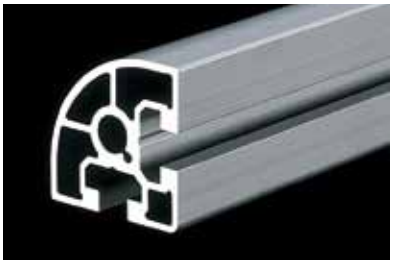


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=94.15×10⁴mm⁴
Iy=94.15×10⁴mm⁴
Section Modulus ..... Zx=20.53×10³mm³
Zy=20.53×10³mm³
Unit Mass 4.19kg/m

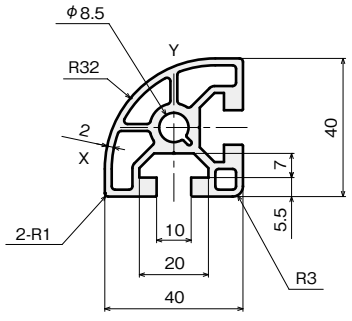


Name	SF-40•80•80 (ℓ=4000)	SF-40•80•80 ℓ=50~4000
Item No.	SFF-G22	SFF-G24

SF-40•40•R



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... x=7.82×10⁴mm⁴
Iy=7.82×10⁴mm⁴
Section Modulus ..... Zx=3.53×10³mm³
Zy=3.53×10³mm³
Unit Mass 1.53kg/m



Name	SF-40•40•R (ℓ=4000)	SF-40•40•R ℓ=50~4000
Item No.	SFF-R72	SFF-R74

Example of order

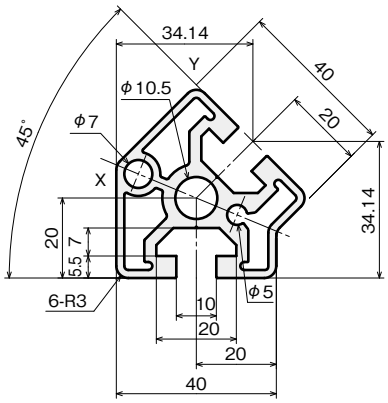
SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-4E82-T

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. **SFF-4E84-T** Length (mm) ℓ=800

SF-40·DE45



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=9.87×10⁴mm⁴
Iy=10.37×10⁴mm⁴
Section Modulus ..... Zx=3.59×10³mm³
Zy=3.99×10³mm³
Unit Mass 1.83kg/m

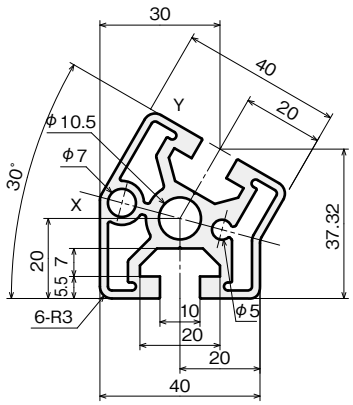


Name	SF-40·DE45 (ℓ=4000)	SF-40·DE45 ℓ=50~4000
Item No.	SFF-J72B	SFF-J74B

SF-40·DE30



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=9.89×10⁴mm⁴
Iy=10.64×10⁴mm⁴
Section Modulus ..... Zx=3.73×10³mm³
Zy=4.20×10³mm³
Unit Mass 1.88kg/m

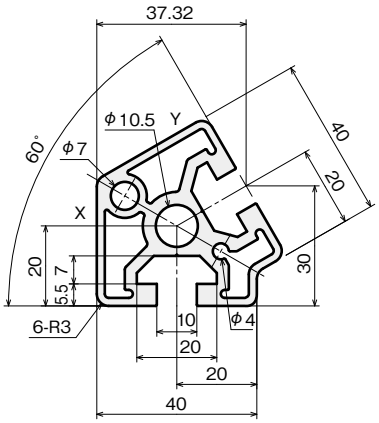


Name	SF-40·DE30 (ℓ=4000)	SF-40·DE30 ℓ=50~4000
Item No.	SFF-J72A	SFF-J74A

SF-40·DE60



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=9.99×10⁴mm⁴
Iy=10.53×10⁴mm⁴
Section Modulus ..... Zx=3.74×10³mm³
Zy=4.14×10³mm³
Unit Mass 1.84kg/m



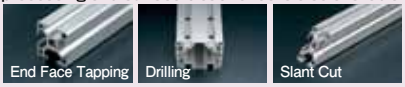
Name	SF-40·DE60 (ℓ=4000)	SF-40·DE60 ℓ=50~4000
Item No.	SFF-J72C	SFF-J74C

●Exclusive Nut

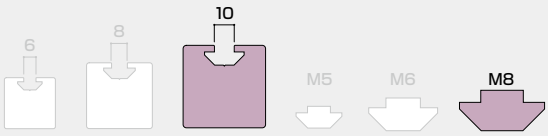
T Nut L
After Nut L
Lock Nut L
Free Nut L
P98~

●Exclusive Cap

Frame Cap
P122·123

●Additional processing and surface treatment are also available.

End Face Tapping | Drilling | Slant Cut
P206~

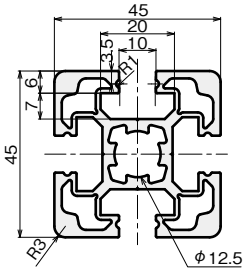
SF40•45 SERIES



SF2-45•45

Asia





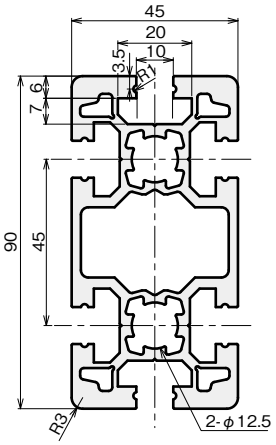
Name	SF2-45•45 (ℓ=4000)	SF2-45•45 ℓ=50~4000
Item No.	SFF-442-T	SFF-444-T

■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=15.28×10⁴mm⁴
Iy=15.28×10⁴mm⁴
Section Modulus ..... Zx=6.79×10³mm³
Zy=6.79×10³mm³
Unit Mass 1.92kg/m

SF2-45•90

Asia





Name	SF2-45•90 (ℓ=4000)	SF2-45•90 ℓ=50~4000
Item No.	SFF-472-T	SFF-474-T

■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=129.24×10⁴mm⁴
Iy=33.32×10⁴mm⁴
Section Modulus ..... Zx=28.72×10³mm³
Zy=14.81×10³mm³
Unit Mass 3.87kg/m

Example of order

SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-442-T

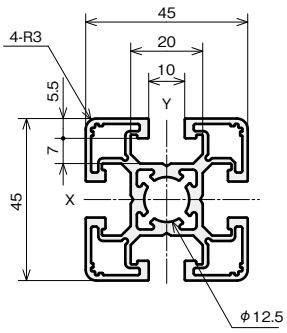
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. **SFF-444-T** Length (mm) ℓ=800

SF-K·45·45

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=11.73×10⁴mm⁴
Iy=11.73×10⁴mm⁴
Section Modulus ..... Zx=5.21×10³mm³
Zy=5.21×10³mm³
Unit Mass 1.70kg/m



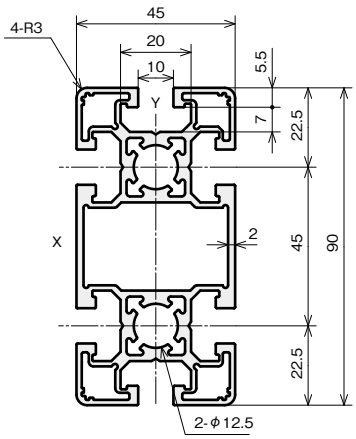
Name	SF-K·45·45 (ℓ=4000)	SF-K·45·45 ℓ=50~4000
Item No.	SFF-B02-T	SFF-B04-T

SF-K·45·90

Asia



■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=87.16×10⁴mm⁴
Iy=22.87×10⁴mm⁴
Section Modulus ..... Zx=19.37×10³mm³
Zy=10.16×10³mm³
Unit Mass 2.98kg/m



Name	SF-K·45·90 (ℓ=4000)	SF-K·45·90 ℓ=50~4000
Item No.	SFF-B492-T	SFF-B494-T

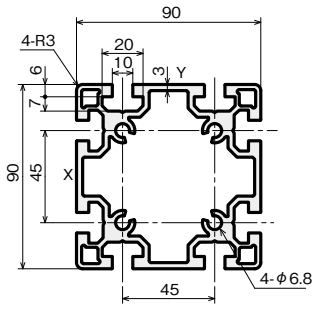
SF-90·90 / SF-90·90·H



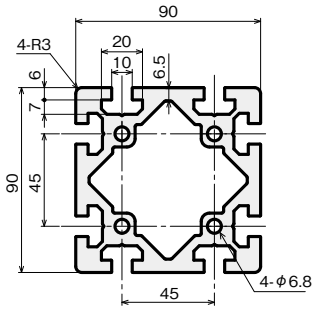


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement

	SF-90·90	SF-90·90·H
Geometrical Moment of Inertia	Ix=209.2×10⁴mm⁴ Iy=209.2×10⁴mm⁴	Ix=303.40×10⁴mm⁴ Iy=303.40×10⁴mm⁴
Section Modulus	Zx=46.5×10³mm³ Zy=46.5×10³mm³	Zx=67.42×10³mm³ Zy=67.42×10³mm³
Unit Mass	5.8kg/m	8.83kg/m



SF-90·90



SF-90·90·H

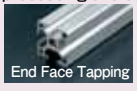
Name	SF-90·90 (ℓ=4000)	SF-90·90 ℓ=50~4000
Item No.	SFF-902	SFF-904

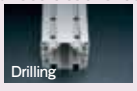
Name	SF-90·90·H (ℓ=4000)	SF-90·90·H ℓ=50~4000
Item No.	SFF-H92	SFF-H94

●Exclusive Nut T Nut L
After Nut L
Lock Nut L
Free Nut L
P98~

●Exclusive Cap
Frame Cap
P122·123

●Additional processing and surface treatment are also available.

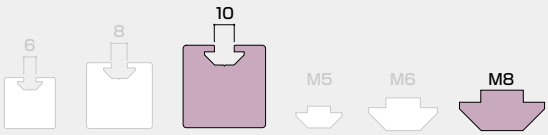

End Face Tapping


Drilling


Slant Cut

P206~

SF40•45 SERIES



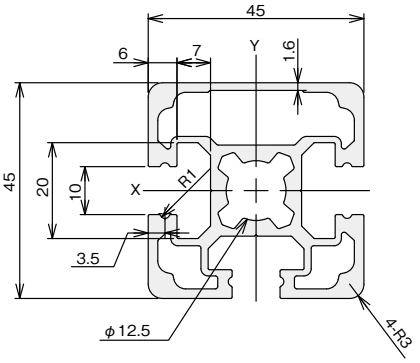
SF2-45•45•1F

Asia



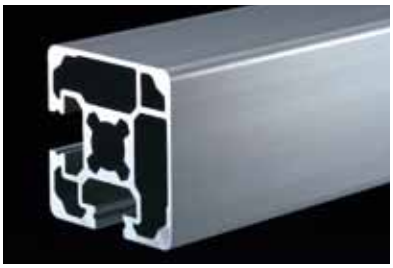
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=13.94×10⁴mm⁴
Iy=14.71×10⁴mm⁴
Section Modulus ..... Zx=5.97×10³mm³
Zy=6.53×10³mm³
Unit Mass 1.83kg/m

Name	SF2-45•45•1F (ℓ=4000)	SF2-45•45•1F ℓ=50~4000
Item No.	SFF-4J2-T	SFF-4J4-T



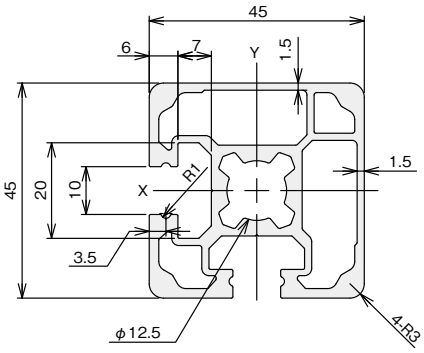
SF2-45•45•2F

Asia



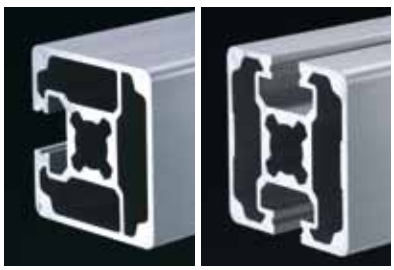
■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement
Geometrical Moment of Inertia ..... Ix=14.14×10⁴mm⁴
Iy=14.14×10⁴mm⁴
Section Modulus ..... Zx=6.15×10³mm³
Zy=6.15×10³mm³
Unit Mass 1.78kg/m

Name	SF2-45•45•2F (ℓ=4000)	SF2-45•45•2F ℓ=50~4000
Item No.	SFF-4K2-T	SFF-4K4-T



SF2-45•45•3F / SF2-45•45•2H

Asia

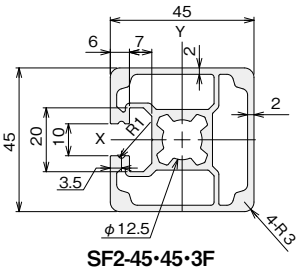


■Material/Technical Data
Material ..... Aluminium Alloy
Alumite Treatment
Environment ..... RoHS Compliant
Green Procurement

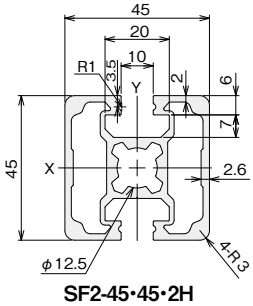
	SF2-45•45•3F	SF2-45•45•2H
Geometrical Moment of Inertia	Ix=14.91×10⁴mm⁴	Ix=14.55×10⁴mm⁴
	Iy=15.09×10⁴mm⁴	Iy=14.73×10⁴mm⁴
Section Modulus	Zx=6.54×10³mm³	Zx=6.47×10³mm³
	Zy=6.71×10³mm³	Zy=6.55×10³mm³
Unit Mass	1.83kg/m	1.83kg/m

Name	SF2-45•45•3F (ℓ=4000)	SF2-45•45•3F ℓ=50~4000
Item No.	SFF-4L2-T	SFF-4L4-T

Name	SF2-45•45•2H (ℓ=4000)	SF2-45•45•2H ℓ=50~4000
Item No.	SFF-4M2-T	SFF-4M4-T



SF2-45•45•3F



SF2-45•45•2H

Example of order

SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-4J2-T

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. SFF-4J4-T Length (mm) ℓ=800

SF-K・45・45・1F / SF-K・45・45・2F



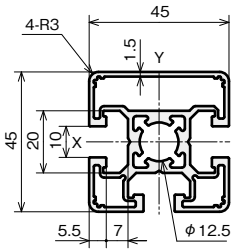


■Material/Technical Data

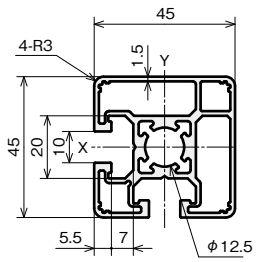
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
Geometrical Moment of Inertia	SF-K・45・45・1F Ix=10.88×10⁴mm⁴ Iy=11.33×10⁴mm⁴	SF-K・45・45・2F Ix=11.13×10⁴mm⁴ Iy=11.13×10⁴mm⁴
Section Modulus	Zx=5.04×10³mm³ Zy=5.03×10³mm³	Zx=4.99×10³mm³ Zy=4.91×10³mm³
Unit Mass	1.60kg/m	1.58kg/m

Name	SF-K・45・45・1F (ℓ=4000)	SF-K・45・45・1F ℓ=50~4000
Item No.	SFF-BE02	SFF-BE04

Name	SF-K・45・45・2F (ℓ=4000)	SF-K・45・45・2F ℓ=50~4000
Item No.	SFF-BF02	SFF-BF04



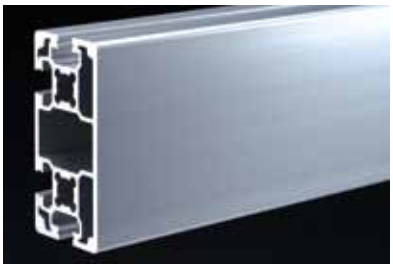
SF-K・45・45・1F



SF-K・45・45・2F

SF2-45・90・1F

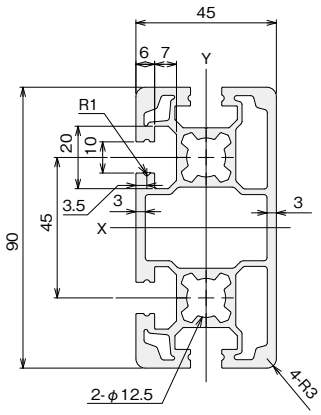
Asia



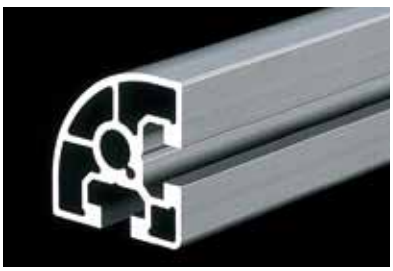
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=117.53×10⁴mm⁴ Iy=32.08×10⁴mm⁴
Section Modulus	Zx=26.12×10³mm³ Zy=14.07×10³mm³
Unit Mass	3.61kg/m

Name	SF2-45・90・1F (ℓ=4000)	SF2-45・90・1F ℓ=50~4000
Item No.	SFF-EF2-T	SFF-EF4-T



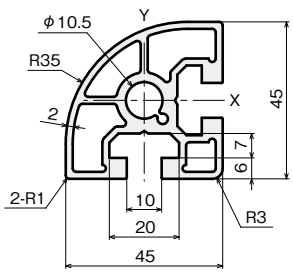
SF-45・45・R



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	Ix=11.33×10⁴mm⁴ Iy=11.33×10⁴mm⁴
Section Modulus	Zx=4.52×10³mm³ Zy=4.52×10³mm³
Unit Mass	1.79kg/m

Name	SF-45・45・R(ℓ=4000)	SF-45・45・R ℓ=50~4000
Item No.	SFF-R82	SFF-R84



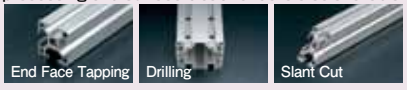
●Exclusive Nut

T Nut L
After Nut L
Lock Nut L
Free Nut L
P98~

●Exclusive Cap

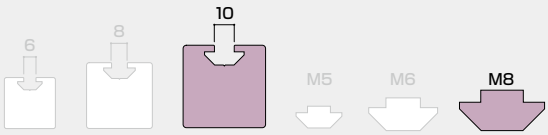
Frame Cap
P122・123

●Additional processing and surface treatment are also available.



P206~

SF40•45 SERIES



SF-45•180 / SF-90•180

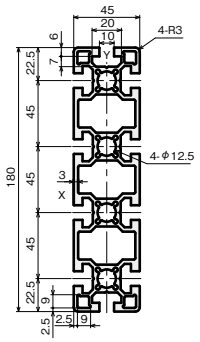


■Material/Technical Data

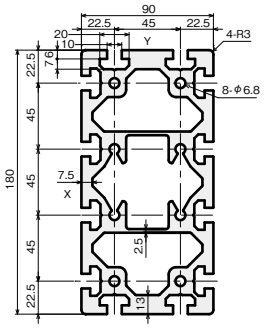
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF-45•180	SF-90•180
Geometrical Moment of Inertia	Ix=804.81×10⁴mm⁴ Iy=60.75×10⁴mm⁴	Ix=2136.6×10⁴mm⁴ Iy=598.51×10⁴mm⁴
Section Modulus	Zx=89.42×10³mm³ Zy=27×10³mm³	Zx=237.4×10³mm³ Zy=133×10³mm³
Unit Mass	7.12kg/m	17.07kg/m

Name	SF-45•180 (ℓ=4000)	SF-45•180 ℓ=50~4000
Item No.	SFF-4182	SFF-4184

Name	SF-90•180 (ℓ=4000)	SF-90•180 ℓ=50~4000
Item No.	SFF-912	SFF-914

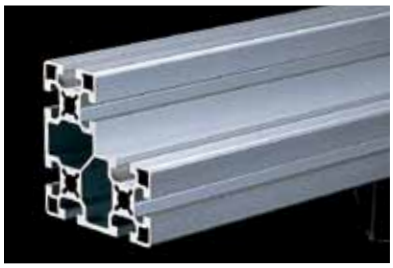


SF-45•180



SF-90•180

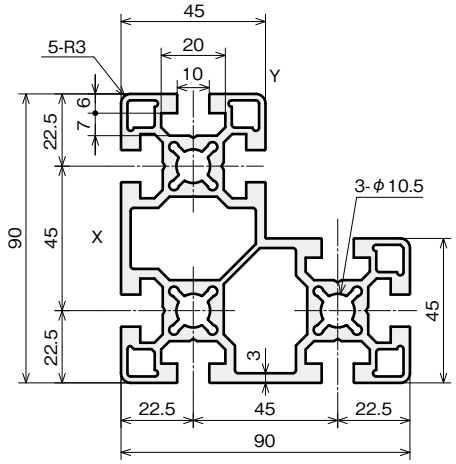
SF-45•90•90



■Material/Technical Data

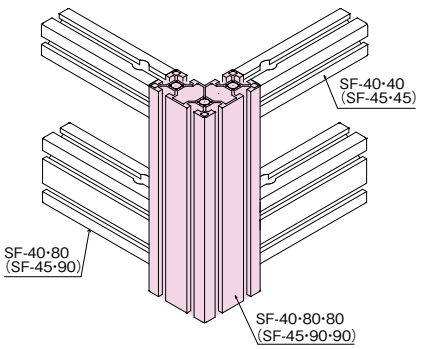
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
Geometrical Moment of Inertia	Ix=149.53×10⁴mm⁴ Iy=149.53×10⁴mm⁴	
Section Modulus	Zx=28.83×10³mm³ Zy=28.83×10³mm³	
Unit Mass	5.55kg/m	

Name	SF-45•90•90 (ℓ=4000)	SF-45•90•90 ℓ=50~4000
Item No.	SFF-G32	SFF-G34



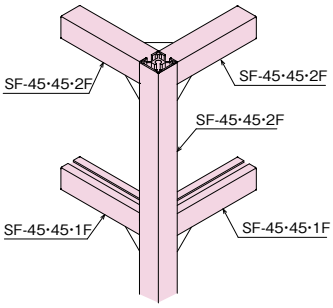
How to use Frame

〈SF-40•80•80〉
〈SF-45•90•90〉



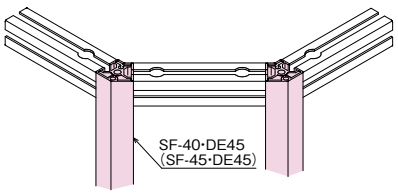
●As the reinforcing Frame at corner, or to ensure space inside

〈SF-45•45•1F〉
〈SF-45•45•2F〉



●For the clean environment without groove on Frame externally

〈SF-40•DE30〉〈SF-45•DE30〉
〈SF-40•DE45〉〈SF-45•DE45〉
〈SF-40•DE60〉〈SF-45•DE60〉



●Many variations to construct angles other than 90°

Example of order

SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-4182

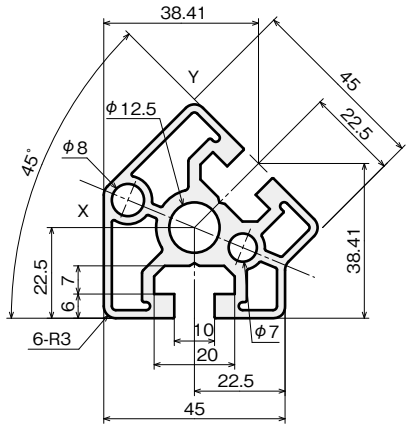
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) □□ Item No. **SFF-4184** Length (mm) ℓ=800

SF-45・DE45



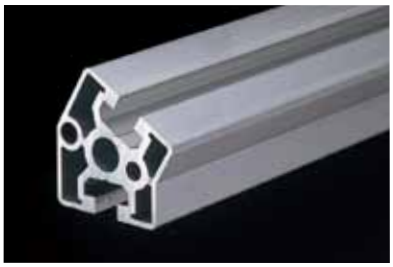
■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=14.78×10⁴㎜⁴ Iy=15.49×10⁴㎜⁴
Section Modulus	Zx=4.72×10³㎜³ Zy=5.36×10³㎜³
Unit Mass	2.22kg/m



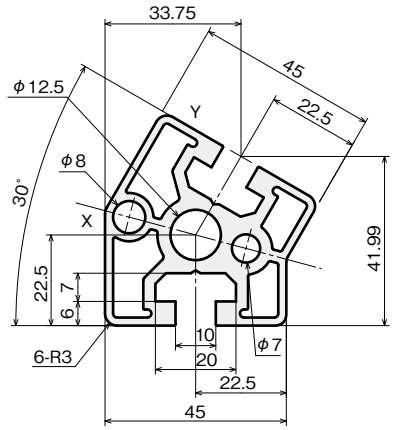
Name	SF-45・DE45 (ℓ=4000)	SF-45・DE45 ℓ=50~4000
Item No.	SFF-J82B	SFF-J84B

SF-45・DE30



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=14.91×10⁴㎜⁴ Iy=15.95×10⁴㎜⁴
Section Modulus	Zx=4.95×10³㎜³ Zy=5.70×10³㎜³
Unit Mass	2.30kg/m



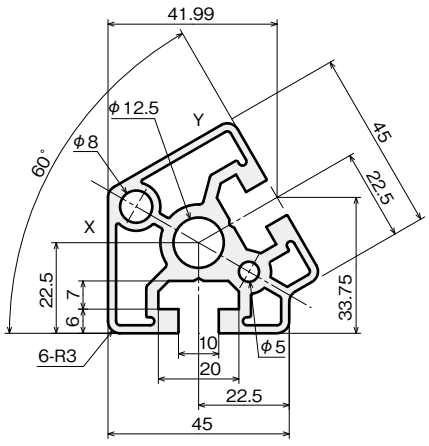
Name	SF-45・DE30 (ℓ=4000)	SF-45・DE30 ℓ=50~4000
Item No.	SFF-J82A	SFF-J84A

SF-45・DE60



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	**RoHS** Compliant **Green** Procurement
Geometrical Moment of Inertia	Ix=14.94×10⁴㎜⁴ Iy=15.93×10⁴㎜⁴
Section Modulus	Zx=4.86×10³㎜³ Zy=5.78×10³㎜³
Unit Mass	2.26kg/m



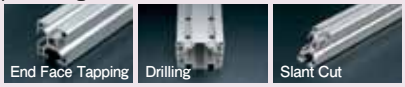
Name	SF-45・DE60 (ℓ=4000)	SF-45・DE60 ℓ=50~4000
Item No.	SFF-J82C	SFF-J84C

●Exclusive Nut

T Nut L
After Nut L
Lock Nut L
Free Nut L
P98~

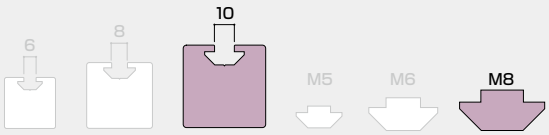
●Exclusive Cap

Frame Cap
P122・123

●Additional processing and surface treatment are also available.


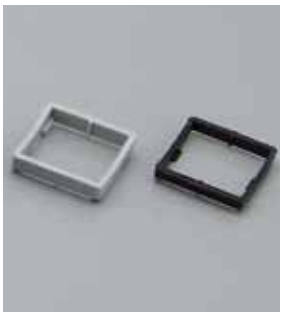
P206~

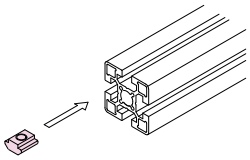
SF40・45 SERIES



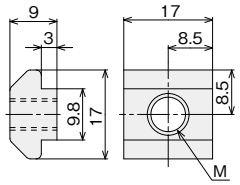
T Nut L(M※) / Anti-Skid Cap L40 / L45



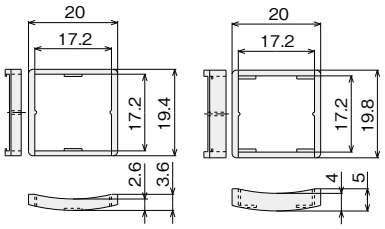




T Nut L(M※)



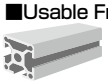
Anti-Skid Cap
(for T Nut L)



Name	T Nut L(M8) ⟨ST Nut L(M8)⟩	T Nut L(M6) ⟨ST Nut L(M6)⟩	T Nut L(M5) ⟨ST Nut L(M5)⟩	T Nut L(M4) ⟨ST Nut L(M4)⟩
Item No.	SFB-004⟨SFN-TL8⟩	SFB-003⟨SFN-TL6⟩	SFB-008⟨SFN-TL5⟩	SFB-007⟨SFN-TL4⟩

Name	Anti-Skid Cap L40 (50pcs/pack)	Anti-Skid Cap L45 (50pcs/pack)
Item No.	SFA-907	SFA-908

■Usable Frame



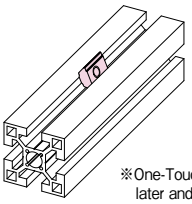
Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Material/Technical Data

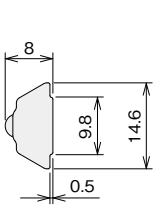
	T Nut L	ST Nut L	Anti-Skid Cap
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	Black Polyamide(L40) Gray Polyamide(L45)
Weight	14g	14g	0.3g/piece(L40) 0.5g/piece(L45)
Environment	**RoHS** Compliant **Green** Procurement		

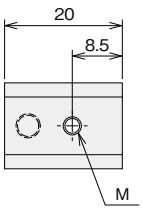
Easy Nut L(M※)





※One-Touch to insert later and Anti-Skid as well.





Name	Easy Nut L (M8)	Easy Nut L (M6)	Easy Nut L (M5)	Easy Nut L (M4)	Easy Nut L (M3)
Item No.	SFB-PN24	SFB-PN23	SFB-PN22	SFB-PN21	SFB-PN20

Name	S Easy Nut L (M8) Stainless	S Easy Nut L (M6) Stainless	S Easy Nut L (M5) Stainless	S Easy Nut L (M4) Stainless	S Easy Nut L (M3) Stainless
Item No.	SFN-EL8	SFN-EL6	SFN-EL5	SFN-EL4	SFN-EL3

■Usable Frame



Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Material/Technical Data

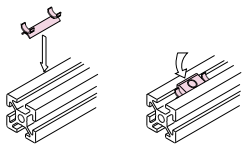
	Easy Nut L	S Easy Nut L
Material	Equivalent to S10C Uni-Chrome plating	Stainless With Conductive
Weight	10g/piece	
Environment	**RoHS** Compliant **Green** Procurement	

Example of order

Parts
How to order
Item No.
SFB-004
Quantity (pcs)
□□

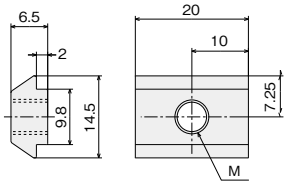
After Nut L(M※) / After Nut Support L



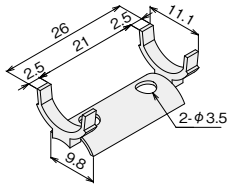


※Using After Nut Support together prevents from slipping.

After Nut L(M※)



After Nut Support L
(for After Nut and Lock Nut)



Name	After Nut L(M8) 〈S After Nut L(M8)〉	After Nut L(M6) 〈S After Nut L(M6)〉	After Nut L(M5) 〈S After Nut L(M5)〉	After Nut L(M4) 〈S After Nut L(M4)〉
Item No.	SFB-628〈SFN-AL8〉	SFB-626〈SFN-AL6〉	SFB-625〈SFN-AL5〉	SFB-624〈SFN-AL4〉

Name	After Nut Support L(50pcs/pack)
Item No.	SFA-9A3

■Usable Frame



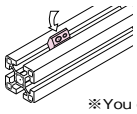
Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Material/Technical Data

	After Nut L	SAfter Nut L	After Nut Support L
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	PP Resin
Weight	10g	10g	0.3g/piece
Environment	RoHS Compliant	Green Procurement	

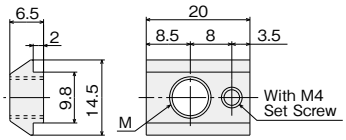
Lock Nut L(M※)





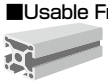
※You can fix nut and conduct electricity by tightening attached Set Screw.

Lock Nut L(M※)



Name	Lock Nut L(M8) 〈S Lock Nut L(M8)〉	Lock Nut L(M6) 〈S Lock Nut L(M6)〉	Lock Nut L(M5) 〈S Lock Nut L(M5)〉	Lock Nut L(M4) 〈S Lock Nut L(M4)〉
Item No.	★SFB-4A8〈★SFN-LL8〉	★SFB-4A6〈★SFN-LL6〉	★SFB-4A5〈★SFN-LL5〉	★SFB-4A4〈★SFN-LL4〉

■Usable Frame



Compatible to all SF40 and 45 series
(Groove Width 10mm)

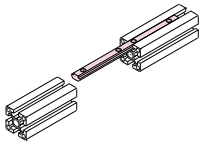
■Material/Technical Data

	Lock Nut L	S Lock Nut L
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function
Weight	10g	10g
Environment	★RoHS Compliant	★Green Procurement

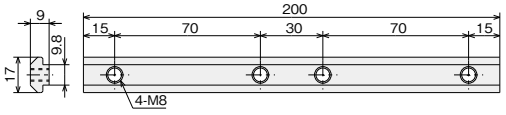
Joint Bar L200 / T Nut L Material / After Nut L Material



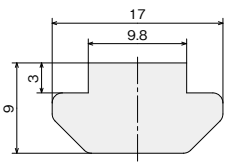




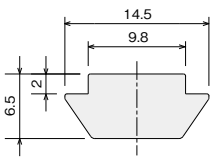
Joint Bar L200



T Nut L Material
〈ST Nut L Material〉



After Nut L Material
〈S After Nut L Material〉



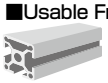
Name(Single Item)	Joint Bar L200	Name(With Set screw)	Joint Bar L200 Kit
Item No.	★SFJ-607	Item No.	★SFK-607

Name	T Nut L Material ℓ=(2800) 〈ST Nut L Material ℓ=(2800)〉	T Nut L Material ℓ=450 〈ST Nut L Material ℓ=450〉
Item No.	★SFX-101〈★SFX-003〉	★SFX-121〈★SFX-S01〉

Name	After Nut L Material ℓ=(2800) 〈S After Nut L Material ℓ=(2800)〉	After Nut L Material ℓ=450 〈S After Nut L Material ℓ=450〉
Item No.	★SFX-102〈★SFX-008〉	★SFX-122〈★SFX-S08〉

・Note : T Nut material will be delivered without plating.

■Usable Frame



Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Kit contents

●Joint Bar L200×1
●Set screw(M8×10) ×4

■Material/Technical Data

	Joint Bar L200	T Nut L Material After Nut L Material	ST Nut L Material S After Nut L Material
Material	Equivalent to S10C Uni-Chrome plating	Equivalent to S10C Not plating	SUS303
Weight	171g	925g/m(T Nut L) 574g/m(After Nut L)	940g/m(ST Nut L) 583g/m(S After Nut L)
Environment	★RoHS Compliant	★Green Procurement	

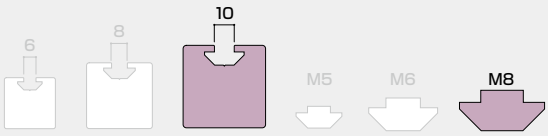
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material

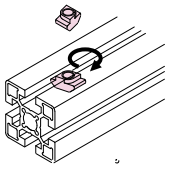


SF40•45 SERIES

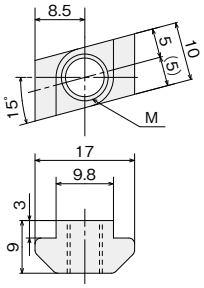


S Free Nut L(M※)





S Free Nut L(M※)



Name	S Free Nut L(M8)	S Free Nut L(M6)	S Free Nut L(M5)	S Free Nut L(M4)
Item No.	SFN-FL8	SFN-FL6	SFN-FL5	SFN-FL4

■Usable Frame



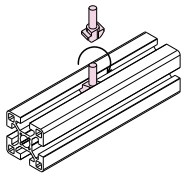
Compatible to all SF40 and 45 series (Groove Width 10mm)

■Material/Technical Data

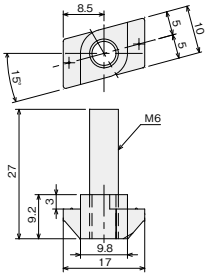
	S Free Nut L
Material	Stainless With Conductive Function
Weight	7g
Environment	RoHS Compliant Green Procurement

Free Nut with Headless Bolt L(M6) / Free Stud L(M5) / Free Nut Stopper L

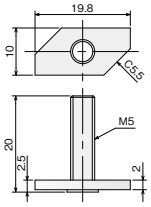




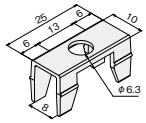
Free Nut with Headless Bolt L(M6)



Free Stud L(M5)



Free Nut Stopper L



Position can be fixed by inserting it to the groove onto Free Nut.

Name	Free Nut with Headless Bolt L(M6)	Free Nut Stopper L
Item No.	★SFN-NL6	★SFA-9F2

Name	Free Stud L(M5)
Item No.	★SFN-NLE1

■Usable Frame



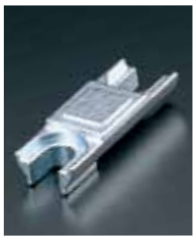
Compatible to all SF40 and 45 series (Groove Width 10mm)

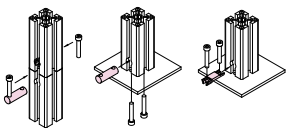
■Material/Technical Data

	Free Nut with Headless Bolt L	Free Stud L	Free Nut Stopper L
Material	Stainless With Conductive Function	SPHC Uni-Chrome	Polyamide
Weight	12g	4.7g	0.6g
Environment	★RoHS Compliant	★Green Procurement	

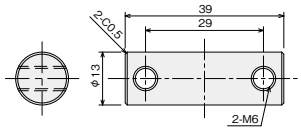
Double Round Lock Nut L40/L45 / S Double Joint 40/45



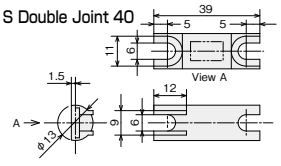




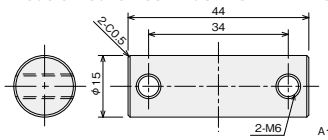
Double Round Lock Nut L40



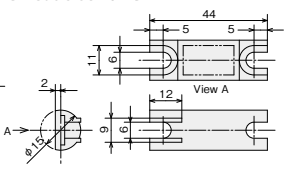
S Double Joint 40



Double Round Lock Nut L45



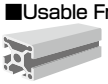
S Double Joint 45



Name	Double Round Lock Nut L40	Double Round Lock Nut L45
Item No.	SFJ-251S	SFJ-252S

Name	S Double Joint 40	S Double Joint 45
Item No.	SFK-394S	SFK-392S

■Usable Frame



SF-40·40, SF-40·80, SF-40·120, SF-45·45, SF-45·90, SF-45·180

■Material/Technical Data

	Double Round Lock Nut L40/L45	S Double Joint 40/45
Material	SUS304	SCS13(Stainless)
Weight	36g(Double Round Lock Nut L40) 55g(Double Round Lock Nut L45)	61g(S Double Joint 40) 73g(S Double Joint 45)
Environment	RoHS Compliant	Green Procurement

Example of order

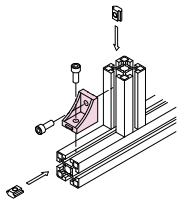
Parts How to order

Item No. **SFB-104**

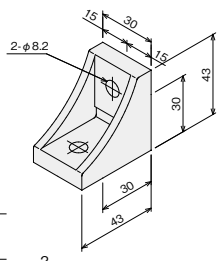
Quantity (pcs) □□

D Bracket L

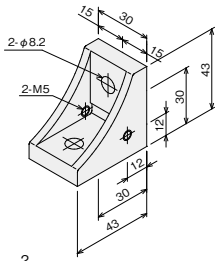


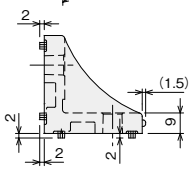


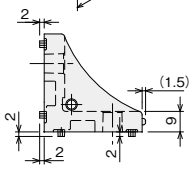
D Bracket L



D Bracket L with Tap







Name(Single Item)	D Bracket L ⟨D Bracket L with Tap⟩	D Bracket L-CN ⟨D Bracket L-CN with Tap⟩
Item No.	★SFJ-013⟨★SFJ-014⟩	★SFJ-013N⟨★SFJ-014N⟩

Name(Bolt and Nut Kit)	D Bracket L Kit ⟨D Bracket L Kit with Tap⟩	D Bracket L(Stainless)Kit ⟨D Bracket L with Tap (Stainless) Kit⟩	D Bracket L-CN Kit ⟨D Bracket L-CN Kit with Tap⟩
Item No.	★SFK-013⟨★SFK-014⟩	★SFK-013S⟨★SFK-014S⟩	★SFK-013N⟨★SFK-014N⟩

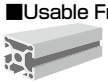
Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

●Cap P123

■Kit Contents
- ●D Bracket L⟨or with Tap⟩×1
- ●Hexagon Socket Bolt(M8×20)×2
- ●T Nut (M8)×2
- ※Bolt and Nut in CN (Stainless) Kit are stainless.

■Material/Technical Data
- Material: Aluminum Die-Cast (CN:Electroless Nickel Plating) With Anti-Skid Function
- Weight: 54g(D Bracket L) 53g(D Bracket L with Tap)
- Environment: ★RoHS Compliant ★Green Procurement

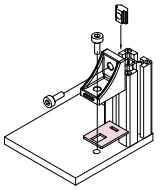
■Usable Frame



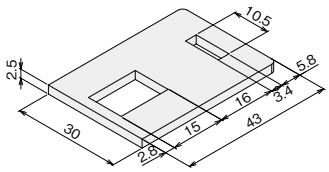
Compatible to all SF40 and 45 series (Groove Width 10mm)

D Bracket Spacer L





●Setting to bottom of D Bracket enables to fix on a flat base.



Name	D Bracket Spacer L
Item No.	SFJ-402S

■Material/Technical Data
- Material: SUS304
- Weight: 22g
- Environment: RoHS Compliant Green Procurement

■Usable Frame

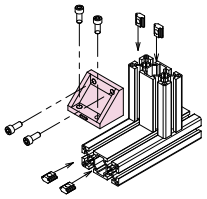


Compatible to all SF40 and 45 series (Groove Width 10mm)

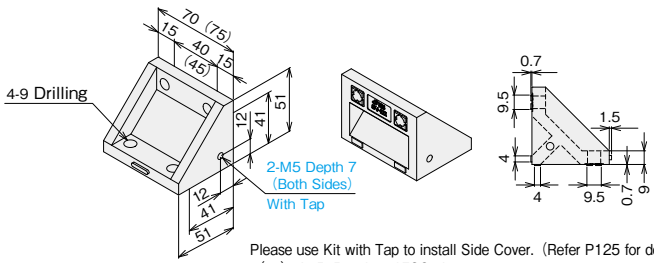
D Bracket 4080 / 4590







D Bracket 4080／D Bracket 4590



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)
( ) is D Bracket 4590 size.

Name(Single Item)	D Bracket 4080 ⟨4080 with Tap⟩	D Bracket 4080-CN ⟨4080-CN with Tap⟩	D Bracket 4590 ⟨4590 with Tap⟩	D Bracket 4590-CN ⟨4590-CN with Tap⟩
Item No.	SFJ-022⟨SFJ-022T⟩	SFJ-022N⟨SFJ-022C⟩	SFJ-023⟨SFJ-023T⟩	SFJ-023N⟨SFJ-023C⟩

Name(Bolt and Nut Kit)	4080 Kit ⟨4080 Kit with Tap⟩	4080-CN Kit ⟨4080-CN Kit with Tap⟩	4590 Kit ⟨4590 Kit with Tap⟩	4590-CN Kit ⟨4590-CN Kit with Tap⟩
Item No.	SFK-022⟨SFK-022T⟩	SFK-022N⟨SFK-022C⟩	SFK-023⟨SFK-023T⟩	SFK-023N⟨SFK-023C⟩

Name(Bolt and Nut Kit)	D Bracket 4080(Stainless) Kit ⟨D Bracket 4080 with Tap (Stainless) Kit⟩	D Bracket 4590(Stainless) Kit ⟨D Bracket 4590 with Tap (Stainless) Kit⟩
Item No.	SFK-022S⟨SFK-022P⟩	SFK-023S⟨SFK-023P⟩

■Usable Frame



SF-40·80/1F, SF-80·80/H
SF-45·90/1F, SF-90·90/H

■Kit Contents

⟨D Bracket 4080 Kit⟩
- ●D Bracket 4080⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M8×20)×4
- ●T Nut L(M8)×4

⟨D Bracket 4590 Kit⟩
- ●D Bracket 4590⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M8×20)×4
- ●T Nut L(M8)×4
- ※Bolt and Nut in CN (Stainless) Kit are stainless.

■Material/Technical Data

	D Bracket 4080	D Bracket 4590
Material	Aluminum Die-Cast(ADC-12) (CN:Electroless Nickel Plating) With Anti-Skid Function	Aluminum Die-Cast(ADC-12) (CN:Electroless Nickel Plating) With Anti-Skid Function
Weight	170g	180g

Environment: RoHS Compliant Green Procurement

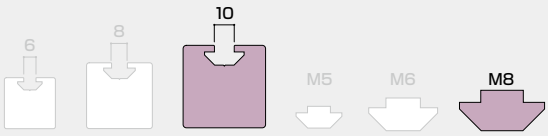
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material

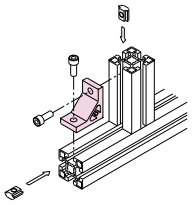


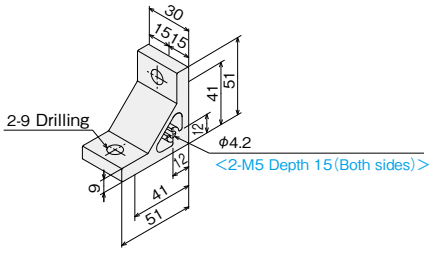
SF40・45 SERIES



Hard Bracket L





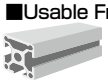


Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket L ⟨Hard Bracket L with Tap⟩
Item No.	★SFJ-N05⟨★SFJ-N05T⟩

Name(Bolt and Nut Kit)	Hard Bracket L Kit ⟨Hard Bracket L Kit with Tap⟩	Hard Bracket L(Stainless)Kit ⟨Hard Bracket L with Tap (Stainless) Kit⟩
Item No.	★SFK-N05⟨★SFK-N05T⟩	★SFK-N05S⟨★SFK-N05P⟩

■Usable Frame



Compatible to all SF40 and 45 series (Groove Width 10mm)

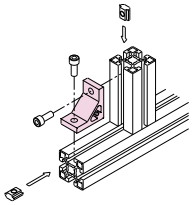
■Kit Contents
- ●Hard Bracket L⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M8×20)×2
- ●T Nut L(M8)×2

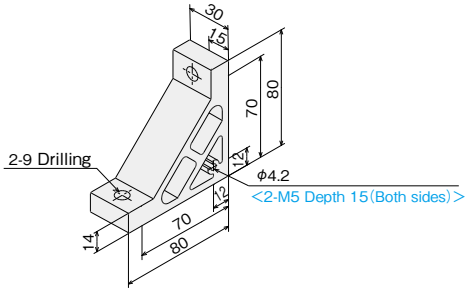
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  Perpendicular surface is machining finished.
- Weight 66g
- Environment ★RoHS Compliant
  ★Green Procurement

Hard Bracket LG







Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

NamAe(Single Item)	Hard Bracket L ⟨Hard Bracket LG with Tap⟩
Item No.	★SFJ-N29⟨★SFJ-N29T⟩

Name(Bolt and Nut Kit)	Hard Bracket LG Kit ⟨Hard Bracket LG with Tap Kit⟩	Hard Bracket LG(Stainless)Kit ⟨Hard Bracket LG with Tap (Stainless) Kit⟩
Item No.	★SFK-N29⟨★SFK-N29T⟩	★SFK-N29S⟨★SFK-N29P⟩

■Usable Frame



Compatible to all SF40 and 45 series (Groove Width 10mm)

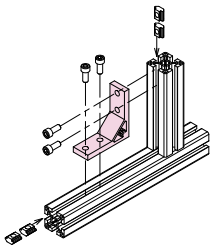
■Kit Contents
- ●Hard Bracket LG⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M8×25)×2
- ●T Nut L(M8)×2

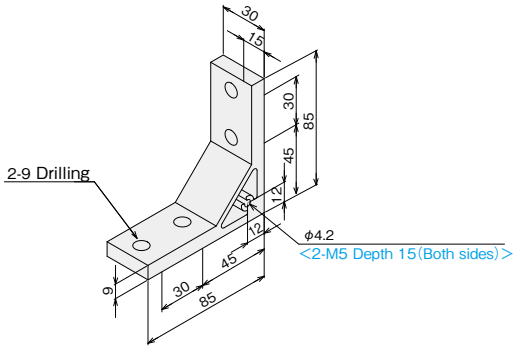
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  Perpendicular surface is machining finished.
- Weight 151g
- Environment ★RoHS Compliant
  ★Green Procurement

Hard Bracket LW





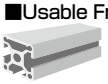


Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

NamAe(Single Item)	Hard Bracket LW ⟨Hard Bracket LW with Tap⟩
Item No.	SFJ-N19⟨SFJ-N19T⟩

Name(Bolt and Nut Kit)	Hard Bracket LW Kit ⟨Hard Bracket LW Kit with Tap⟩	Hard Bracket LW(Stainless)Kit ⟨Hard Bracket LW with Tap (Stainless) Kit⟩
Item No.	SFK-N19⟨SFK-N19T⟩	SFK-N19S⟨SFK-N19P⟩

■Usable Frame



Compatible to all SF40 and 45 series (Groove Width 10mm)

■Kit Contents
- ●Hard Bracket LW⟨or with Tap⟩×1
- ●Hexagon Socket Bolt (M8×20)×4
- ●T Nut L(M8)×4

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
- Material Aluminium Alloy
  Alumite Treatment
  Perpendicular surface is machining finished.
- Weight 113g
- Environment RoHS Compliant
  Green Procurement

Example of order

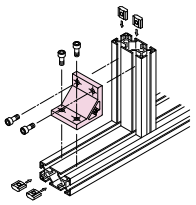
Parts How to order
Item No. SFJ-N05
Quantity (pcs) □□

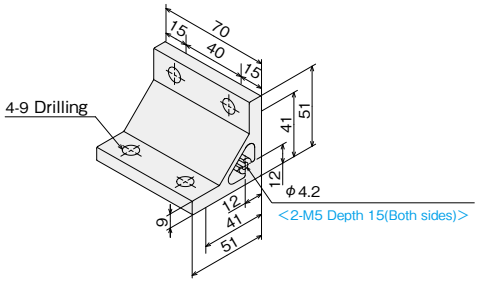
●Cap for Bracket
P123



Hard Bracket L4080







Name(Single Item)	Hard Bracket L4080 〈Hard Bracket L4080 with Tap〉
Item No.	★SFJ-N06〈★SFJ-N06T〉

Name(Bolt and Nut Kit)	Hard Bracket L4080 Kit 〈Hard Bracket L4080 Kit with Tap〉	Hard Bracket L4080(Stainless)Kit 〈Hard Bracket L4080 with Tap (Stainless) Kit〉
Item No.	★SFK-N06〈★SFK-N06T〉	★SFK-N06S〈★SFK-N06P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-40·80/1F
SF-80·80/H

■Kit Contents

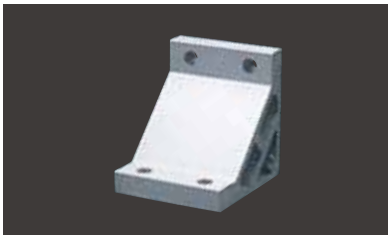
- Hard Bracket L4080〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×4
- T Nut L(M8)×4

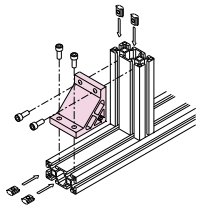
※Bolt and Nut in (Stainless) Kit are stainless.

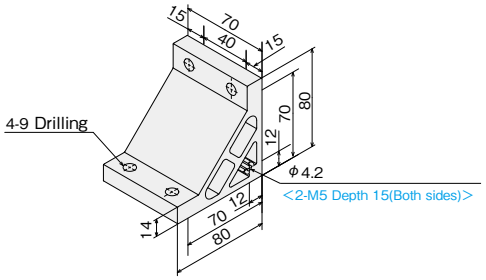
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 154g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket G80





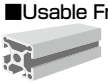


Name(Single Item)	Hard Bracket G80 〈Hard Bracket G80 with Tap〉
Item No.	★SFJ-N07〈★SFJ-N07T〉

Name(Bolt and Nut Kit)	Hard Bracket G80 Kit 〈Hard Bracket G80 Kit with Tap〉	Hard Bracket G80(Stainless)Kit 〈Hard Bracket G80 with Tap (Stainless) Kit〉
Item No.	★SFK-N07〈★SFK-N07T〉	★SFK-N07S〈★SFK-N07P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-40·80/1F
SF-80·80/H

■Kit Contents

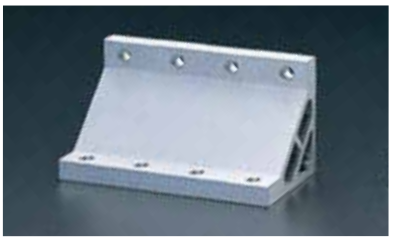
- Hard Bracket G80〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×4
- T Nut L(M8)×4

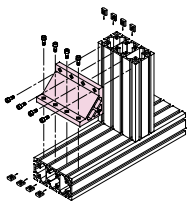
※Bolt and Nut in (Stainless) Kit are stainless.

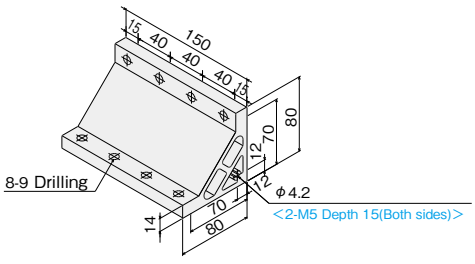
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 380g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket G80160







Name(Single Item)	Hard Bracket G80160 〈Hard Bracket G80160 with Tap〉
Item No.	SFJ-N48〈SFJ-N48T〉

Name(Bolt and Nut Kit)	Hard Bracket G80160 Kit 〈Hard Bracket G80160 Kit with Tap〉	Hard Bracket G80160(Stainless)Kit 〈Hard Bracket G80160 with Tap (Stainless) Kit〉
Item No.	SFK-N48〈SFK-N48T〉	SFK-N48S〈SFK-N48P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-80·160

■Kit Contents

- Hard Bracket G80160〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×8
- T Nut L(M8)×8

※Bolt and Nut in (Stainless) Kit are stainless.

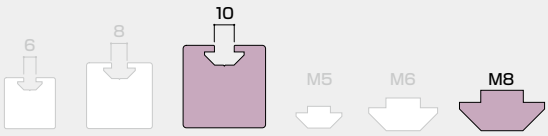
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 770g
Environment ★RoHS Compliant
★Green Procurement

We sell Nut Material and Bracket Material as well.
T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material

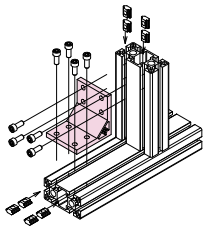


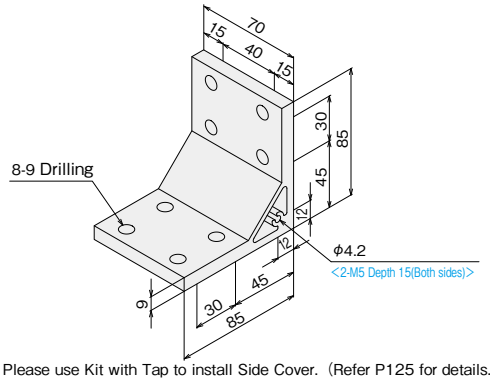
SF40・45 SERIES



Hard Bracket LW4080







Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket LW4080 〈Hard Bracket LW4080 with Tap〉
Item No.	SFJ-N20〈SFJ-N20T〉

Name(Bolt and Nut Kit)	Hard Bracket LW4080 Kit 〈Hard Bracket LW4080 Kit with Tap〉	Hard Bracket LW4080(Stainless)Kit 〈Hard Bracket LW4080 with Tap (Stainless) Kit〉
Item No.	SFK-N20〈SFK-N20T〉	SFK-N20S〈SFK-N20P〉

■Usable Frame



SF-40·80/1F
SF-80·80/H

■Kit Contents

- Hard Bracket LW4080〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×8
- T Nut L(M8)×8

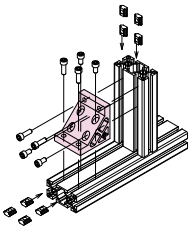
※Bolt and Nut in (Stainless) Kit are stainless.

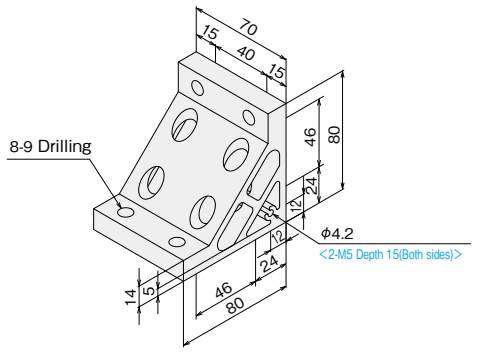
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 267g
Environment **RoHS** Compliant
Green Procurement

Hard Bracket GW80





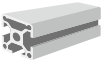


Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket GW80 〈Hard Bracket GW80 with Tap〉
Item No.	SFJ-N17〈SFJ-N17T〉

Name(Bolt and Nut Kit)	Hard Bracket GW80 Kit 〈Hard Bracket GW80 Kit with Tap〉	Hard Bracket GW80(Stainless)Kit 〈Hard Bracket GW80 with Tap (Stainless) Kit〉
Item No.	SFK-N17〈SFK-N17T〉	SFK-N17S〈SFK-N17P〉

■Usable Frame



SF-40·80/1F
SF-80·80/H

■Kit Contents

- Hard Bracket GW80〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×4
- Hexagon Socket Bolt (M8×15)×4
- T Nut L(M8)×8

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 333g
Environment **RoHS** Compliant
Green Procurement

Example of order

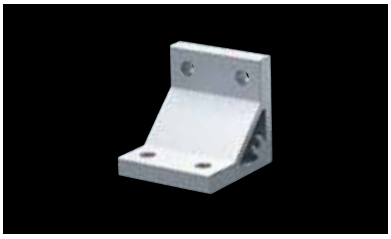
Parts
How to order
Item No.
SFJ-N20

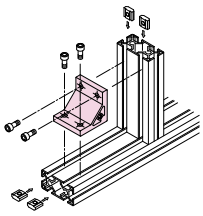
Quantity (pcs)
□□

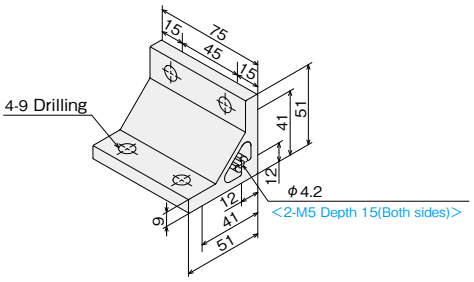
●Cap for Bracket
P123



Hard Bracket L4590





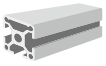


Name(Single Item)	Hard Bracket L4590 〈Hard Bracket L4590 with Tap〉
Item No.	★SFJ-N08〈★SFJ-N08T〉

Name(Bolt and Nut Kit)	Hard Bracket L4590 Kit 〈Hard Bracket L4590 Kit with Tap〉	Hard Bracket L4590(Stainless)Kit 〈Hard Bracket L4590 with Tap (Stainless) Kit〉
Item No.	★SFK-N08〈★SFK-N08T〉	★SFK-N08S〈★SFK-N08P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-45・90/1F
SF-90・90/45・90・90

■Kit Contents

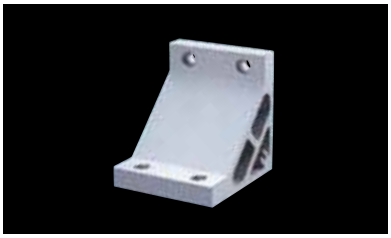
- Hard Bracket L4590〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×4
- T Nut L(M8)×4

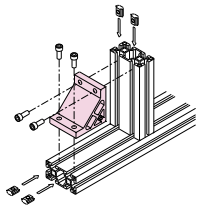
※Bolt and Nut in (Stainless) Kit are stainless.

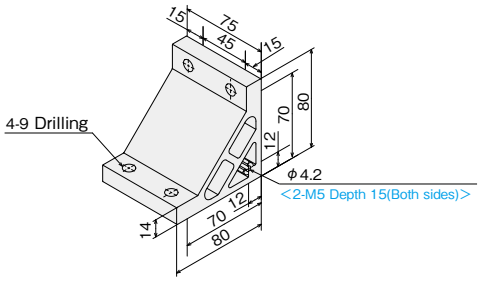
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 163g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket G90





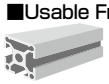


Name(Single Item)	Hard Bracket G90 〈Hard Bracket G90 with Tap〉
Item No.	★SFJ-N18〈★SFJ-N18T〉

Name(Bolt and Nut Kit)	Hard Bracket G90 Kit 〈Hard Bracket G90 Kit with Tap〉	Hard Bracket G90(Stainless)Kit 〈Hard Bracket G90 with Tap (Stainless) Kit〉
Item No.	★SFK-N18〈★SFK-N18T〉	★SFK-N18S〈★SFK-N18P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-45・90/1F
SF-90・90/H

■Kit Contents

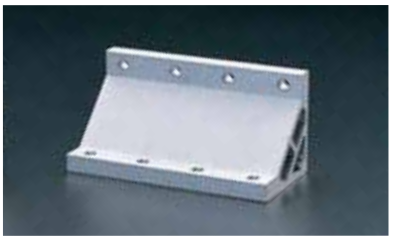
- Hard Bracket G90〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×4
- T Nut L(M8)×4

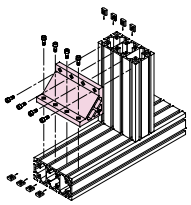
※Bolt and Nut in (Stainless) Kit are stainless.

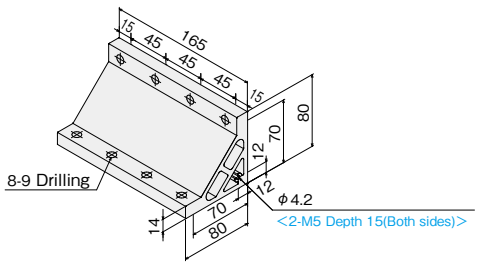
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 387g
Environment ★RoHS Compliant
★Green Procurement

Hard Bracket G90180







Name(Single Item)	Hard Bracket G90180 〈Hard Bracket G90180 with Tap〉
Item No.	SFJ-N49〈SFJ-N49T〉

Name(Bolt and Nut Kit)	Hard Bracket G90180 Kit 〈Hard Bracket G90180 Kit with Tap〉	Hard Bracket G90180(Stainless)Kit 〈Hard Bracket G90180 with Tap (Stainless) Kit〉
Item No.	SFK-N49〈SFK-N49T〉	SFK-N49S〈SFK-N49P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-90・180

■Kit Contents

- Hard Bracket G90180〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×8
- T Nut L(M8)×8

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 846g
Environment RoHS Compliant
Green Procurement

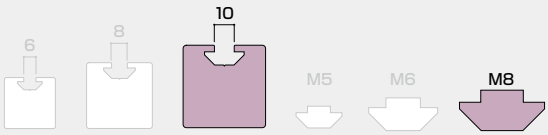
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material

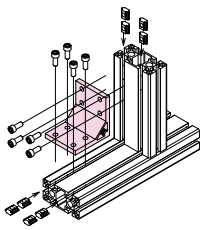

Material Frame

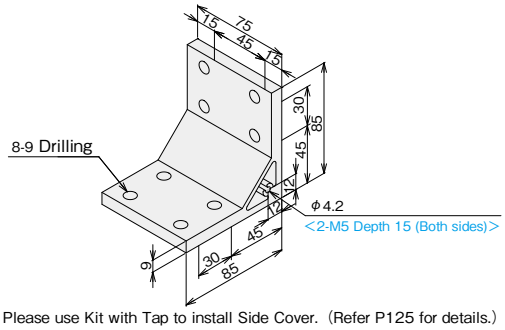
SF40・45 SERIES



Hard Bracket LW4590







Name(Single Item)	Hard Bracket LW4590 〈Hard Bracket LW4590 with Tap〉
Item No.	SFJ-N21〈SFJ-N21T〉

Name(Bolt and Nut Kit)	Hard Bracket LW4590 Kit 〈Hard Bracket LW4590 Kit with Tap〉	Hard Bracket LW4590(Stainless)Kit 〈Hard Bracket LW4590 with Tap (Stainless) Kit〉
Item No.	SFK-N21〈SFK-N21T〉	SFK-N21S〈SFK-N21P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-45·90/1F
SF-90·90/45·90·90

■Kit Contents

- Hard Bracket LW4590〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×8
- T Nut L(M8)×8

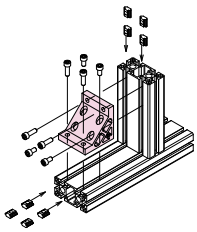
※Bolt and Nut in (Stainless) Kit are stainless.

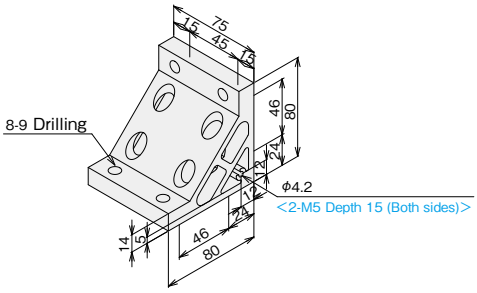
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 287g
Environment RoHS Compliant
Green Procurement

Hard Bracket GW90





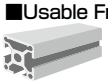


Name(Single Item)	Hard Bracket GW90 〈Hard Bracket GW90 with Tap〉
Item No.	SFJ-N22〈SFJ-N22T〉

Name(Bolt and Nut Kit)	Hard Bracket GW90 Kit 〈Hard Bracket GW90 Kit with Tap〉	Hard Bracket GW90(Stainless)Kit 〈Hard Bracket GW90 with Tap (Stainless) Kit〉
Item No.	SFK-N22〈SFK-N22T〉	SFK-N22S〈SFK-N22P〉

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■Usable Frame



SF-45·90/1F
SF-90·90/45·90·90

■Kit Contents

- Hard Bracket GW90〈or with Tap〉×1
- Hexagon Socket Bolt (M8×25)×4
- Hexagon Socket Bolt (M8×15)×4
- T Nut L(M8)×8

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 359g
Environment RoHS Compliant
Green Procurement

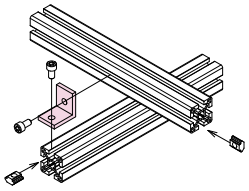
Example of order

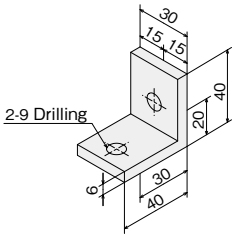
Parts
How to order
Item No.
SFJ-N21

Quantity (pcs)
□□

Angle Bracket L40







Name(Single Item)	Angle Bracket L40
Item No.	★SFJ-A05
Name(Bolt and Nut Kit)	Angle Bracket L40 Kit 〈Angle Bracket L40 (Stainless) Kit〉
Item No.	★SFK-A05〈★SFK-A05S〉

■Usable Frame



Compatible to all SF40 series (Groove Width 10mm)

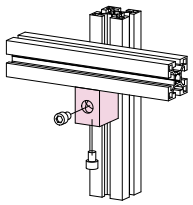
■Kit Contents
- Angle Bracket L40×1
- Hexagon Socket Bolt (M8×15)×2
- T Nut L(M8)×2

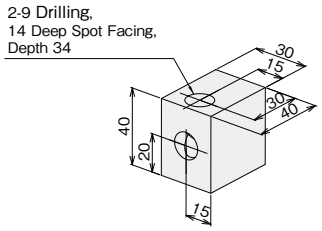
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 34g
Environment ★RoHS Compliant
★Green Procurement

Angle Bracket Hard L40







Name(Single Item)	Angle Bracket Hard L40
Item No.	SFJ-A16
Name(Bolt and Nut Kit)	Angle Bracket Hard L40 Kit 〈Angle Bracket Hard L40 (Stainless) Kit〉
Item No.	SFK-A16〈SFK-A16S〉

■Usable Frame



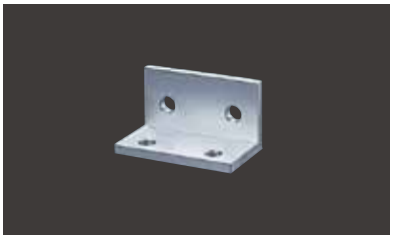
Compatible to all SF40 series (Groove Width 10mm)

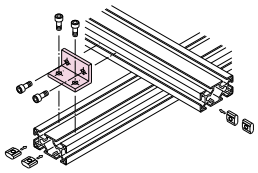
■Kit Contents
- Angle Bracket Hard L40×1
- Hexagon Socket Bolt (M8×15)×2
- T Nut L(M8)×2

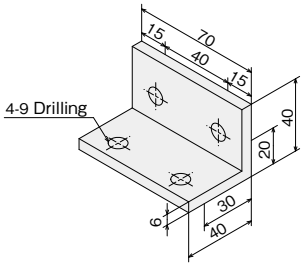
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 103g
Environment RoHS Compliant
Green Procurement

Angle Bracket L4080

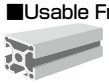






Name(Single Item)	Angle Bracket L4080
Item No.	★SFJ-A06
Name(Bolt and Nut Kit)	Angle Bracket L4080 Kit 〈Angle Bracket L4080(Stainless) Kit〉
Item No.	★SFK-A06〈★SFK-A06S〉

■Usable Frame



Compatible to all SF40 series (Groove Width 10mm)

■Kit Contents
- Angle Bracket L4080×1
- Hexagon Socket Bolt (M8×15)×4
- T Nut L(M8)×4

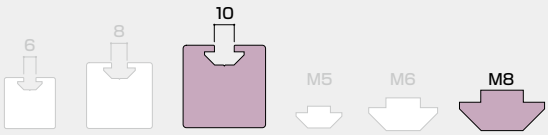
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 80g
Environment ★RoHS Compliant
★Green Procurement

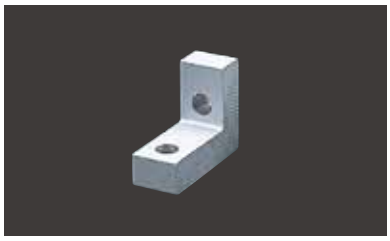
We sell Nut Material and Bracket Material as well.
T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material

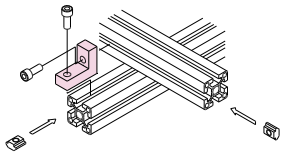
Material Frame

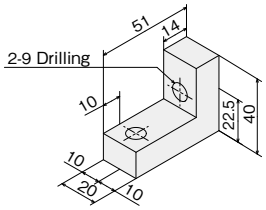
SF40・45 SERIES



Angle Bracket L45

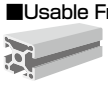






Name(Single Item)	Angle Bracket L45
Item No.	SFJ-007
Name(Bolt and Nut Kit)	Angle Bracket L45 Kit 〈Angle Bracket L45 (Stainless) Kit〉
Item No.	SFK-007〈SFK-007S〉

■Usable Frame



Compatible to all SF45 series (Groove Width 10mm)

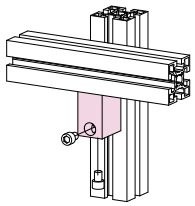
■Kit Contents
- Angle Bracket L45×1
- Hexagon Socket Button Bolt (M8×25)×2
- T Nut L(M8)×2

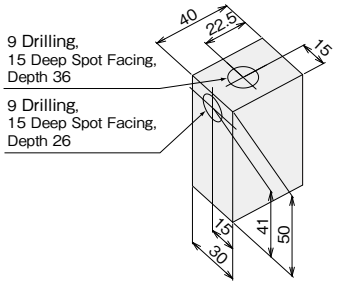
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 52g
Environment **RoHS** Compliant
Green Procurement

Angle Bracket Hard L45







Name(Single Item)	Angle Bracket Hard L45
Item No.	SFJ-A17
Name(Bolt and Nut Kit)	Angle Bracket Hard L45 Kit 〈Angle Bracket Hard L45 (Stainless) Kit〉
Item No.	SFK-A17〈SFK-A17S〉

■Usable Frame



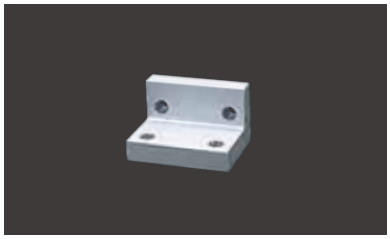
Compatible to all SF 45 series (Groove Width 10mm)

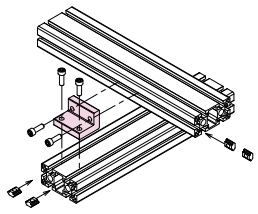
■Kit Contents
- Angle Bracket Hard L45×1
- Hexagon Socket Bolt (M8×25)×2
- T Nut L(M8)×2

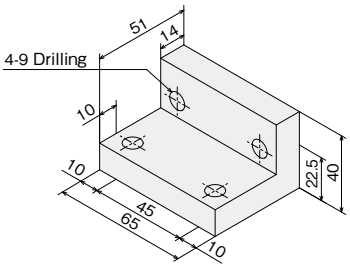
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 135g
Environment **RoHS** Compliant
Green Procurement

Angle Bracket L4590

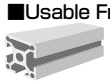






Name(Single Item)	Angle Bracket L4590
Item No.	SFJ-A08
Name(Bolt and Nut Kit)	Angle Bracket L4590 Kit 〈Angle Bracket L4590 (Stainless) Kit〉
Item No.	SFK-A08〈SFK-A08S〉

■Usable Frame



Compatible to all SF45 series (Groove Width 10mm)

■Kit Contents
- Angle Bracket L4590×1
- Hexagon Socket Button Bolt (M8×25)×4
- T Nut L(M8)×4

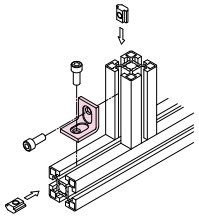
※Bolt and Nut in (Stainless) Kit are stainless.

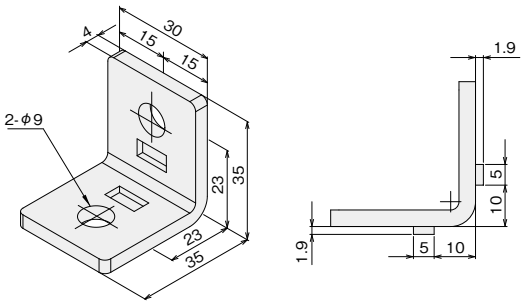
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Weight 175g
Environment **RoHS** Compliant
Green Procurement

Parts
How to order
Item No.
SFJ-007
Quantity (pcs)
□□

L Bracket L (Stainless)







Name(Single Item)	L Bracket L(Stainless)
Item No.	SFJ-102S

Name(Bolt and Nut Kit)	L Bracket L (Stainless) Kit
Item No.	SFK-102S

■Usable Frame



Compatible to all SF40 and 45 series (Groove Width 10mm)

■Kit Contents
- L Bracket L(Stainless)×1
- Hexagon Socket Bolt (M8×15)Stainless×2
- ST Nut L(M8)×2

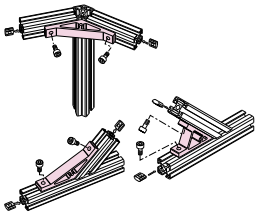
■Material/Technical Data

Material SUS304
Weight 58g
Environment **RoHS** Compliant
Green Procurement

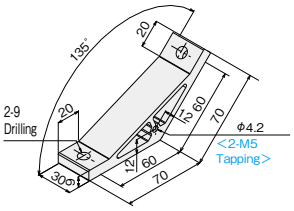
Hard Bracket L·DE



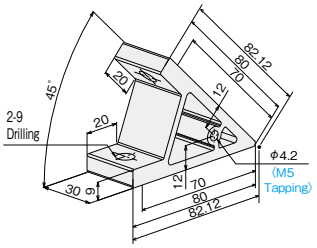




Hard Bracket L·DE135



Hard Bracket L·DE45



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket L·DE135 〈Hard Bracket L·DE135 with Tap〉		Hard Bracket L·DE45 〈Hard Bracket L·DE45 with Tap〉	
Item No.	SFJ-N35〈SFJ-N35T〉		SFJ-N36〈SFJ-N36T〉	
Name(Bolt and Nut Kit)	L·DE135 Kit 〈L·DE135 Kit with Tap〉	L·DE135(Stainless)Kit 〈L·DE135 with Tap(Stainless) Kit〉	L·DE45 Kit 〈L·DE45 Kit with Tap〉	L·DE45(Stainless)Kit 〈L·DE45 with Tap(Stainless) Kit〉
Item No.	SFK-N35〈SFK-N35T〉	SFK-N35S〈SFK-N35P〉	SFK-N36〈SFK-N36T〉	SFK-N36S〈SFK-N36P〉

■Usable Frame



SF-40·45 Series 45°slant cut frame
SF-40·DE45/SF-45·DE45(L·DE135 only)

■Kit Contents

〈Hard Bracket L·DE135 Kit〉
- Hard Bracket L·DE135〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×2
- T Nut L(M8)×2

〈Hard Bracket L·DE45 Kit〉
- Hard Bracket L·DE45〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×2
- T Nut L(M8)×2

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

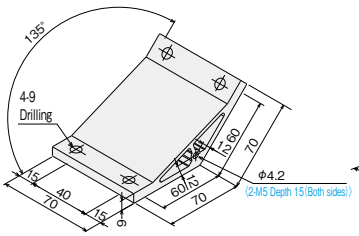
Material Aluminium Alloy
Alumite Treatment
Weight 103g(L·DE135)
88g(L·DE45)
Environment **RoHS** Coompliant
Green Procurement

Hard Bracket L4080·DE

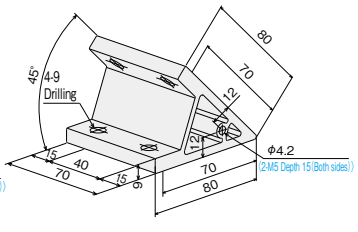




Hard Bracket L4080·DE135



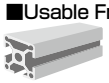
Hard Bracket L4080·DE45



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket L4080·DE135 〈Hard Bracket L4080·DE135 with Tap〉		Hard Bracket L4080·DE45 〈Hard Bracket L4080·DE45 with Tap〉	
Item No.	SFJ-N42〈SFJ-N42T〉		SFJ-N41〈SFJ-N41T〉	
Name(Bolt and Nut Kit)	L4080·DE135 Kit 〈L4080·DE135 Kit with Tap〉	L4080·DE135(Stainless)Kit 〈L4080·DE135 with Tap(Stainless) Kit〉	L4080·DE45 Kit 〈L4080·DE45 Kit with Tap〉	L4080·DE45(Stainless)Kit 〈L4080·DE45 with Tap(Stainless) Kit〉
Item No.	SFK-N42〈SFK-N42T〉	SFK-N42S〈SFK-N42P〉	SFK-N41〈SFK-N41T〉	SFK-N41S〈SFK-N41P〉

■Usable Frame



SF-40·80 45°slant cut frame

■Kit Contents

〈Hard Bracket L4080·DE135 Kit〉
- Hard Bracket L4080·DE135〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×4
- T Nut L(M8)×4

〈Hard Bracket L4080·DE45 Kit〉
- Hard Bracket L4080·DE45〈or with Tap〉×1
- Hexagon Socket Bolt (M8×20)×4
- T Nut L(M8)×4

※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 258g(L4080·DE135)
221g(L4080·DE45)
Environment **RoHS** Compliant
Green Procurement

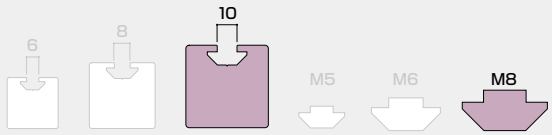
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

- Hard Bracket L Material
- Angle Bracket L Material


Material Frame

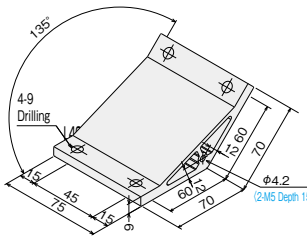
SF40•45 SERIES



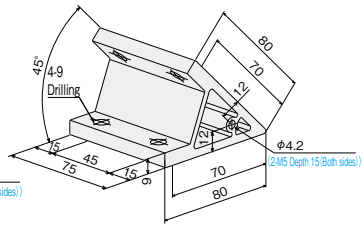
Hard Bracket L4590·DE



Hard Bracket L4590·DE135



Hard Bracket L4590·DE45



Please use Kit with Tap to install Side Cover.
(Refer P125 for details.)

Name(Single Item)	Hard Bracket L4590·DE135 〈Hard Bracket L4590·DE135 with Tap〉	Hard Bracket L4590·DE45 〈Hard Bracket L4590·DE45 with Tap〉
Item No.	SFJ-N44〈SFJ-N44T〉	SFJ-N43〈SFJ-N43T〉

Name(Bolt and Nut Kit)	L4590·DE135 Kit 〈L4590·DE135 Kit with Tap〉	L4590·DE135(Stainless)Kit 〈L4590·DE135 with Tap(Stainless) Kit〉	L4590·DE45 Kit 〈L4590·DE45 Kit with Tap〉	L4590·DE45(Stainless)Kit 〈L4590·DE45 with Tap(Stainless) Kit〉
Item No.	SFK-N44〈SFK-N44T〉	SFK-N44S〈SFK-N44P〉	SFK-N43〈SFK-N43T〉	SFK-N43S〈SFK-N43P〉

■Usable Frame



SF-45·90 45°slant cut frame

■Kit Contents

〈Hard Bracket L4590·DE135 Kit〉
- ●Hard Bracket L4590·DE135〈or with Tap〉×1
- ●Hexagon Socket Bolt (M8×20)×4
- ●T Nut L(M8)×4

〈Hard Bracket L4590·DE45 Kit〉
- ●Hard Bracket L4590·DE45〈or with Tap〉×1
- ●Hexagon Socket Bolt (M8×20)×4
- ●T Nut L(M8)×4

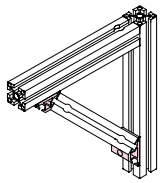
※Bolt and Nut in (Stainless) Kit are stainless.

■Material/Technical Data

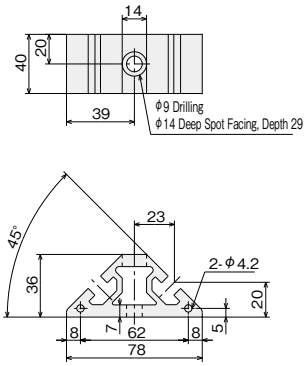
Material Aluminium Alloy Alumite Treatment
Weight 277g(L4590·DE135) 236g(L4590·DE45)
Environment **RoHS** Compliant **Green** Procurement

Truss Joint L40 / L45

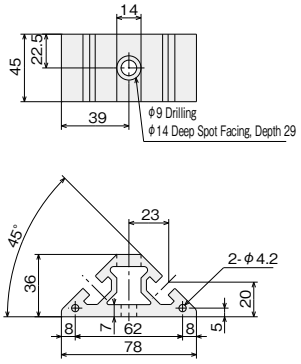




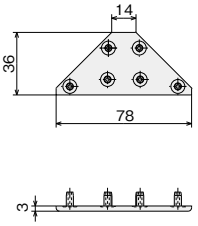
Truss Joint L40



Truss Joint L45



Truss Cap L

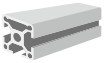


※Groove size is as same as SF-40·40, SF-45·45

Name	Truss Joint L40	Truss Joint L45
Item No.	SFJ-J03	SFJ-J04

Name	Truss Cap L(Black)	Truss Cap L(Light gray)
Item No.	SFA-J03	SFA-J03G

■Usable Frame



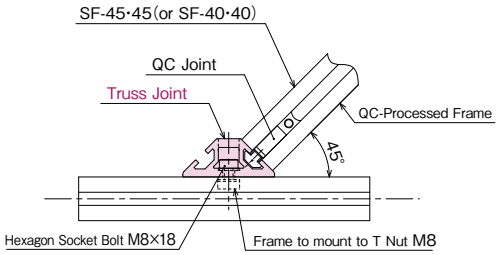
(Frame to reinforce)
SF-40·40/SF-K·40·40
SF-45·45/SF-K·45·45
(Frame to combine)
Compatible to SF-40·45 series

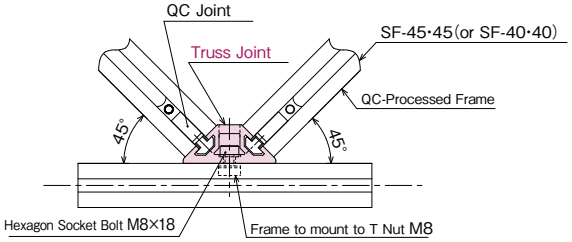
■Material/Technical Data

	Truss Joint L40/L45	Truss Cap L
Material	Aluminium Alloy Alumite Treatment	Polyamide
Weight	103g(L40) 117g(L45)	6.5g
Environment	**RoHS** Compliant **Green** Procurement	

Truss Joint

〈Truss Joint〉
Best suited to reinforce in 45° or truss stiffening.



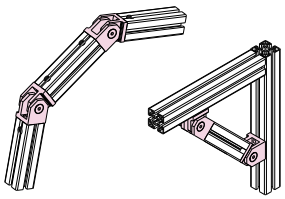


Example of order

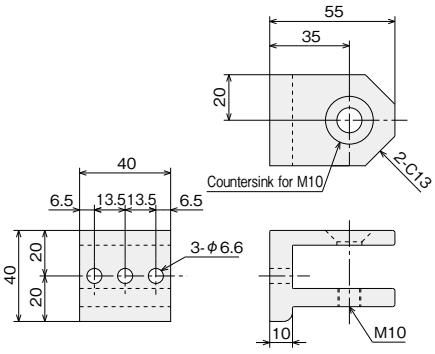
Parts
How to order
Item No.
SFJ-N44
Quantity (pcs)
□□

Turn Bracket 40A / 40B



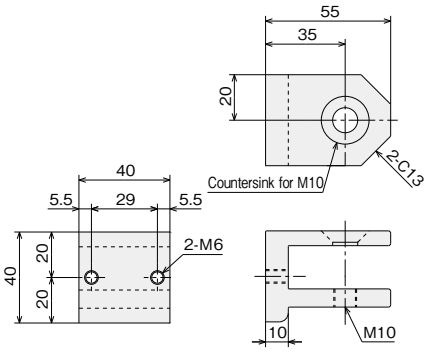


Turn Bracket 40A



Hexagon Socket Flat Head Cap Screw M10×16 included

Turn Bracket 40B



Hexagon Socket Flat Head Cap Screw M10×16 included
※Refer examples below to select bolt and nut you need.

Name	Turn Bracket 40A	Turn Bracket 40B
Item No.	SFK-42A	SFK-42B

■Usable Frame



〈Section Installation〉
SF-40・40(1F/K/2H include)
〈Side Installation〉
Compatible to all SF40 series

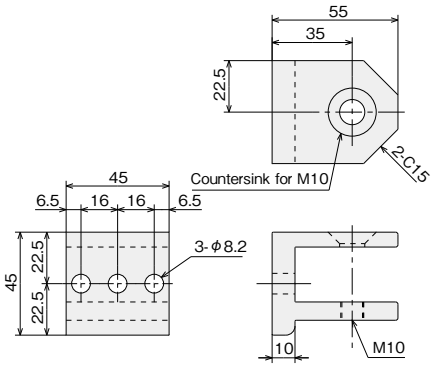
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 97g(40A)
98g(40B)
Environment **RoHS** Compliant

Turn Bracket 45A / 45B

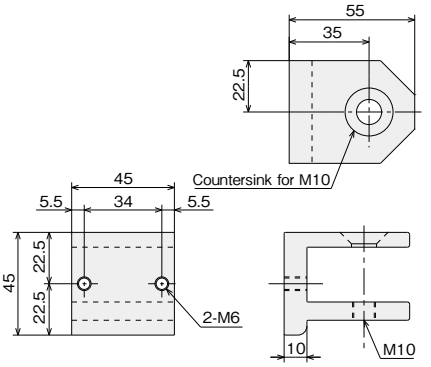


Turn Bracket 45A



Hexagon Socket Flat Head Cap Screw M10×16 included

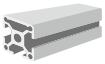
Turn Bracket 45B



Hexagon Socket Flat Head Cap Screw M10×16 included
※Refer examples below to select bolt and nut you need.

Name	Turn Bracket 45A	Turn Bracket 45B
Item No.	SFK-43A	SFK-43B

■Usable Frame



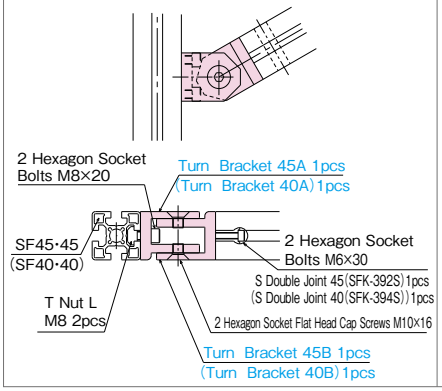
〈Section Installation〉
SF-45・45(1F/K/2H include)
〈Side Installation〉
Compatible to all SF45 series

■Material/Technical Data

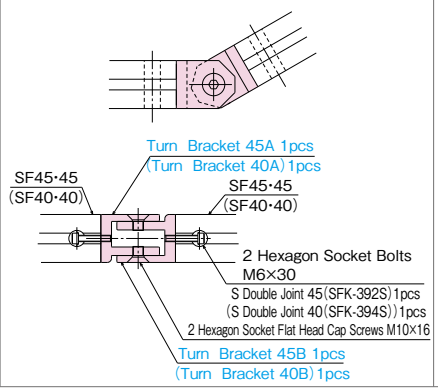
Material Aluminium Alloy
Alumite Treatment
Weight 113g(45A)
116g(45B)
Environment **RoHS** Compliant

Example of mounting Turn Bracket ※This product cannot be used as supporting point of movable part.

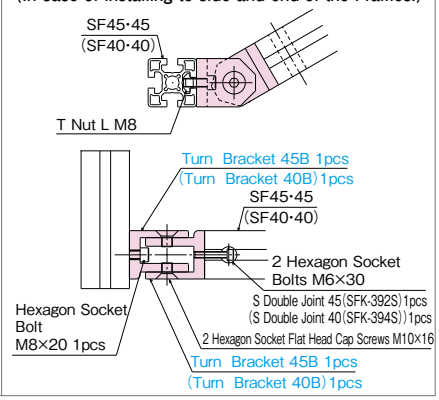
〈In case of installing to side and end of the Frames.〉



〈In case of installing to sections of the Frames.〉



〈In case of installing to side and end of the Frames.〉



GO ●Use Processing Symbols written from P214, P215 to specify frilling for Double Joint.

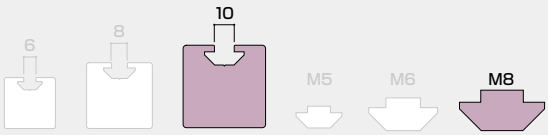
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

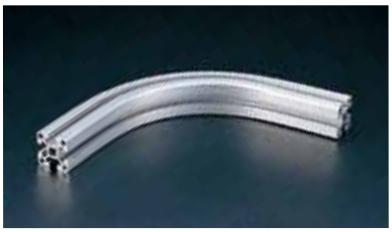
●Hard Bracket L Material
●Angle Bracket L Material

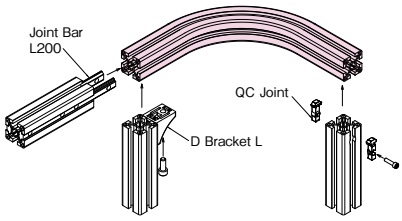


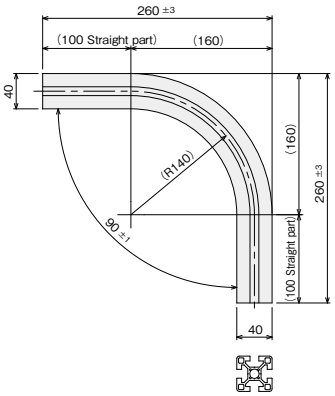
SF40・45 SERIES



Bend Bracket L40







Name	Bend Bracket L40
Item No.	SFJ-V02

■Usable Frame



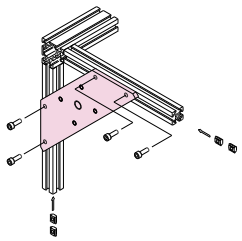
Compatible to SF40·40
(1F, 2F, 2H, 3F, K)

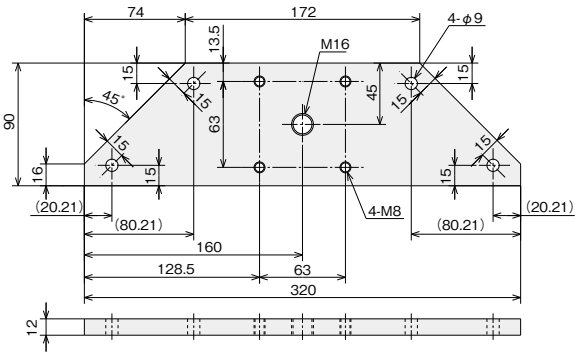
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 774g
Environment RoHS Compliant
Green Procurement

Caster Plate L

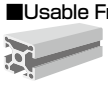






Name	Caster Plate L 〈Caster Plate L(Stainless)〉
Item No.	★SFJ-7A3〈★SFJ-7A3S〉

■Usable Frame



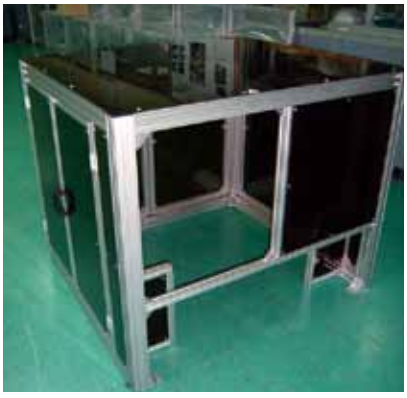
Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Use Example

- Adjuster M16 ●Caster C
- Double-Wheel Caster M16
- Marketing Hanging Bolt etc

■Material/Technical Data

	Caster Plate L	Caster Plate L (Stainless)
Material	SS400 Uni-Chrome	SUS304
Weight	2.1kg	2.1kg
Environment	★RoHS Compliant ★Green Procurement	







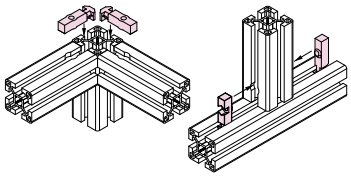
Example of order

Parts
How to order
Item No.
SFJ-V02

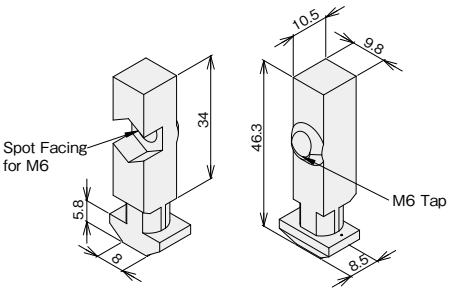
Quantity (pcs)
□□

QC Joint L

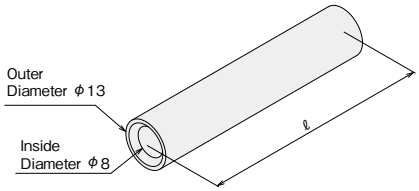




QC Joint L(Common Parts)



SS Round Metal Tool



	L40 Kit	L45 Kit	L60 Kit	L80 Kit	L90 Kit
R	15	19	34	55	64

Name	QC Joint L40 Kit	QC Joint L45 Kit	QC Joint L60 Kit	QC Joint L80 Kit	QC Joint L90 Kit
Item No.	SFK-Q40	SFK-Q41	SFK-Q42	SFK-Q43	SFK-Q44

Kit Contents

Kit Name	QC Joint	Round Metal Tool	Bolt
QC Joint L40 Kit	QC Joint L ×1set	L Round Metal Tool 40×1	Hexagon Socket Bolt (M6×30) Stainless×1
QC Joint L45 Kit		L Round Metal Tool 45×1	Hexagon Socket Bolt (M6×35) Stainless×1
QC Joint L60 Kit		L Round Metal Tool 60×1	Hexagon Socket Bolt (M6×50) Stainless×1
QC Joint L80 Kit		L Round Metal Tool 80×1	Hexagon Socket Bolt (M6×70) Stainless×1
QC Joint L90 Kit		L Round Metal Tool 90×1	Hexagon Socket Bolt (M6×80) Stainless×1

■Material/Technical Data

	QC Joint L	L Round metal tool
Material	Stainless With Conductive Function	Stainless

	L40 Kit	L45 Kit	L60 Kit	L80 Kit	L90 Kit
Weight	88g	92g	104g	119g	129g

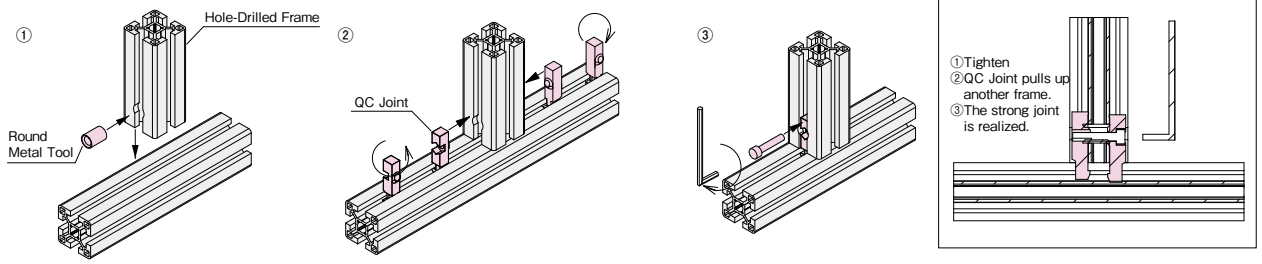
Environment **RoHS** Compliant **Green** Procurement

QC Joint L

〈Characteristics〉

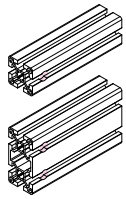
It's easy to set vertically and hardly make gap, because 2 frames are pulled at each other to combine. Also, you don't have to let nuts into frame in advance, and strong fixing is possible by one bolt, so the assembly man-hour is reduced.

〈How to assemble〉

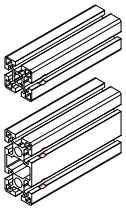


〈Example of Kit Selection〉

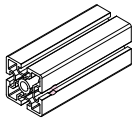
●QC Joint L40 Kit
(For drilled hole to the direction of 40mm)



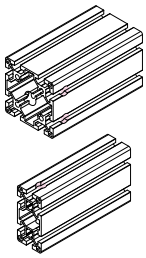
●QC Joint L45 Kit
(For drilled hole to the direction of 45mm)



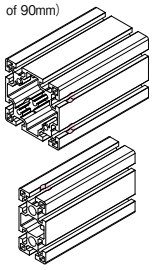
●QC Joint L60 Kit
(For drilled hole to the direction of 60mm)



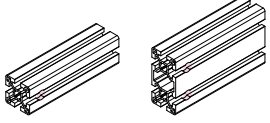
●QC Joint L80 Kit
(For drilled hole to the direction of 80mm)
※SF-80·80·1S Drilling is as same as L60 Kit

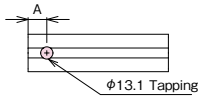


●QC Joint L90 Kit
(For drilled hole to the direction of 90mm)



〈Drilling 〉





	A
SF40 Series (SF-40/SF-K45)	20
SF45 Series (SF-60·1S/80·1S)	19.5

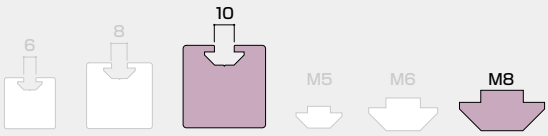
GO ●Drillid by SUS Processing Symbol P212

We sell Nut Material and Bracket Material as well.

T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material



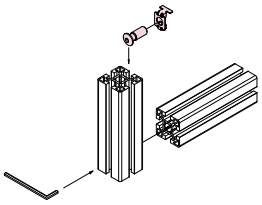
SF40・45 SERIES



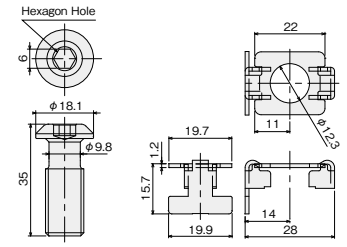
TG Joint Kit 4045 / 60 / 80 / Wrench Hole Cap



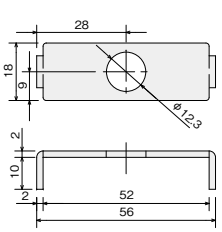
〈TG Bolt M12〉



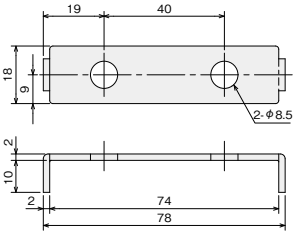
〈TG Plate 4045〉



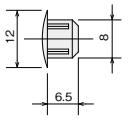
〈TG Plate 60〉



〈TG Plate 80〉



Wrench Hole Cap



※For Anacac of Flat type frame (For 1F,2F,2H,3F)

■Usable Frame



SF-40·40, SF-40·80, SF-40·160
SF-45·45, SF-45·90, SF-45·180
SF-K·40·40／K·40·80

■Kit Contents

〈TG Joint Kit 4045〉
●TG Plate 4045×1
●TG Bolt M12×1

■Usable Frame



SF-60·60·1S

■Kit Contents

〈TG Joint Kit 60〉
●TG Plate 60×1
●TG Bolt M12×1

■Usable Frame



SF-80·80(H)

■Kit Contents

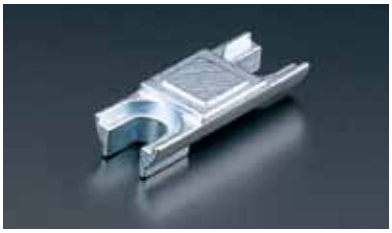
〈TG Joint Kit 80〉
●TG Plate 80×1
●Hexagon Socket Button Bolt M8×20(Uni-chrome) ×2

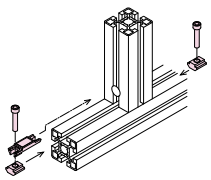
Name	TG Joint Kit 4045	TG Joint Kit 60	TG Joint Kit 80	Wrench Hole Cap
Item No.	★SFK-207	★SFK-208	★SFK-307	★SFA-155

■Material/Technical Data

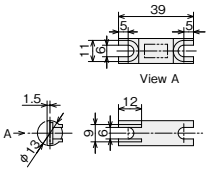
	TG Bolt M12	TG Plate 4045/60/80	Wrench Hole Cap
Material	SCM435 Uni-chrome	SPCC Uni-chrome	Polypropylene (Color/Gray)
Weight	34.6g(Kit4045) ·43.4g(Kit60) ·43g(Kit80)		0.3g(Wrench Hole Cap)
Environment	★RoHS Compliant ★Green Procurement		

S Double Joint Kit 40 / 45 / 60 / 80

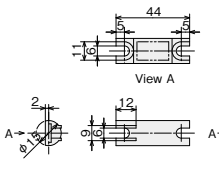




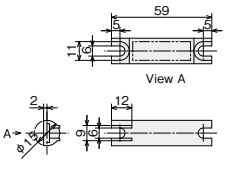
S Double Joint Kit 40



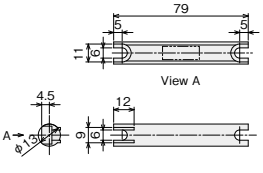
S Double Joint Kit 45



S Double Joint Kit 60



S Double Joint Kit 80



■Usable Frame



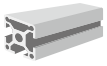
SF-40·40, SF-40·80
SF-K·40·40, SF-K·40·80

■Usable Frame



SF-45·45, SF-45·90
SF-K·45·45, SF-K·45·90

■Usable Frame



SF-60·60·1S

■Usable Frame



SF-80·80(H)
SF-80·80·1S
SF-40·80

Name	S Double Joint Kit 40	45	60	80
Item No.	SFK-304S	SFK-302S	SFK-303S	SFK-305S

■Kit Contents

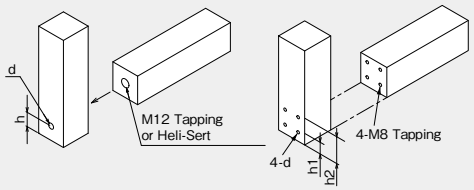
〈S Double Joint Kit 40/45/60/80〉
●Each S Double Joint Kit×1
●Hexagon Socket Bolt (M6×30) Stainless ×2
●ST Nut L(M6)×2

■Material/Technical Data

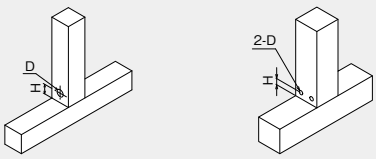
Material	Stainless(SCS13)
Weight	61g(Kit40) 85g(Kit60) 73g(Kit45) 103g(Kit80)
Environment	RoHS Compliant Green Procurement

TG Joint・S Double Joint

〈TG Joint Drilling Jig〉



〈S Double Joint Drilling Jig〉



TG, S Double Joint are easy to set vertically and hardly make gap, because 2 frames are pulled each other.
Also, it looks clear because the joint part doesn't bulge outside.

GO ●Refer from P198 how to assemble

Processing size(mm)

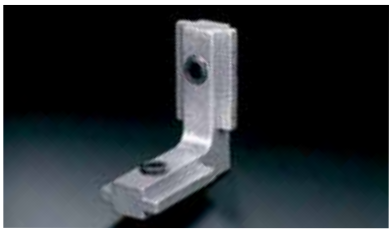
Usable Frame	H	h	D	d
SF-40·40/K·40·40	20	20	φ13.1	φ8
SF-45·45		22.5	φ15.1	
SF-60·60·1S		30		

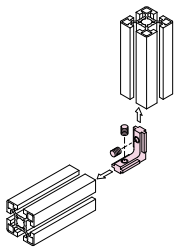
Usable Frame	H	h1	h2	D	d
SF-80·80(H)	20	20	40	φ13.1	φ8
SF-80·80·1S		—	—		—

GO ●Drillid by SUS Processing Symbol P212～

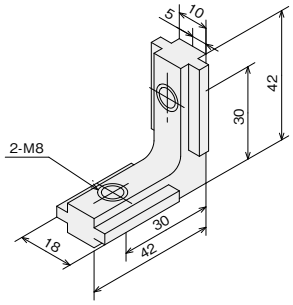
Parts How to order
Example of order
Item No. SFK-207
Quantity (pcs) □□

S Blind Bracket L





S Blind Bracket L



Name	S Blind Bracket L
Item No.	SFK-602S

■Material/Technical Data

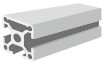
S Blind Bracket L

Material Stainless(SCS13)
(2 Set Screws〈M8×10〉Stainless Included)

Weight 70g

Environment **RoHS** Compliant **Green** Procurement

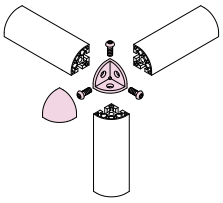
■Usable Frame



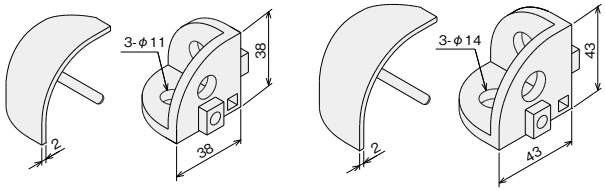
Compatible to all SF40 and 45 series (430): Other Frame SF30 series (K Frame excluded)

R Bracket L40 Kit / L45 Kit





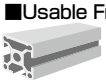
R Cap L40 R Bracket L40 R Cap L45 R Bracket L45



Name	R Bracket L40 Kit (Black)	R Bracket L40 Kit (Light Gray)
Item No.	SFK-R03	SFK-R03G

Name	R Bracket L45 Kit (Black)	R Bracket L45 Kit (Light Gray)
Item No.	SFK-R04	SFK-R04G

■Usable Frame



〈R Bracket L40 Kit〉
SF-40・40・R
〈R Bracket L45 Kit〉
SF-45・45・R

■Material/Technical Data

	R Bracket L40/L45	R Cap L40/L45
Material	Stainless(SCS13)	Polyamide
Weight	130g(L40)	10g(L40)
	167g(L45)	12g(L45)

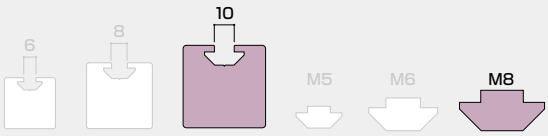
Environment **RoHS** Compliant

※L40 Kit:With 3 Hexagon Socket Button Bolts〈M10×30〉
L45 Kit:With 3 Hexagon Socket Button Bolts〈M12×35〉

We sell Nut Material and Bracket Material as well.
T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material

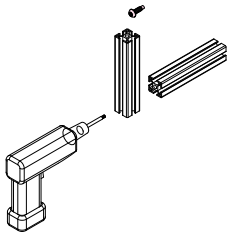
Material Frame

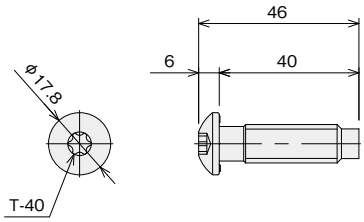
SF40・45 SERIES



Tapping Bolt L40

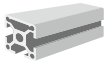






Name	Tapping Bolt L40
Item No.	SFB-T40

■Usable Frame



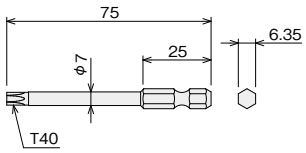
SF-40·40(1F/2F/3F/2H)
SF-40·80(1F)

■Material/Technical Data

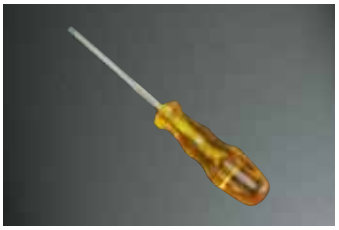
Material SAE1022Si
Uni-Chrome Plating
Weight 31g
Environment **RoHS** Compliant
Green Procurement

Torque Bit T40 / Torque Driver T40





Weight 20g

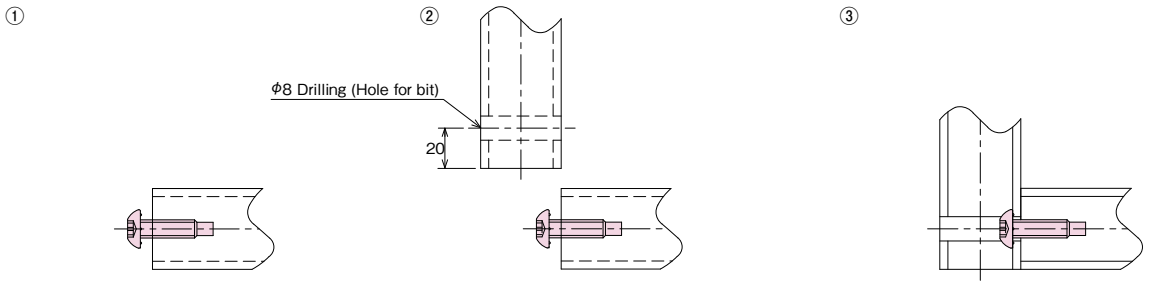


Weight 126g

Name	Torque Bit T40
Item No.	SFA-JT40

Name	Torque Driver T40
Item No.	SFA-T40H

How to fix Tapping Bolt



① Fix the frame with jig etc, and screw the Tapping Bolt halfway into the end face. (Temporary joint)
※ In case it is too tight, please use cutting oil.

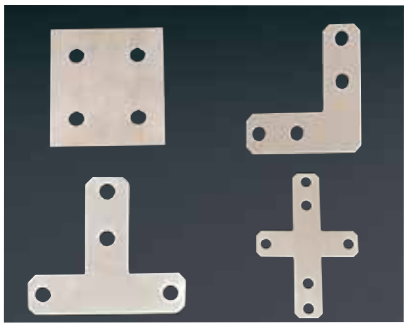
② Put the bolt head through T slot of another frame.

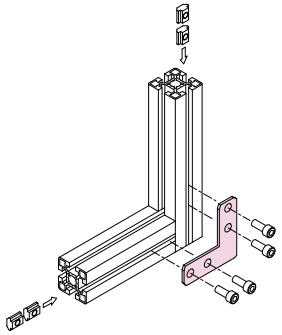
③ Tighten by Manual tool to fix.
※Manual tool is recommended, because the reaction of torque up is big by using electric drill.

GO ●Drillid by SUS
Processing Symbol P212～

Example of order
Parts
How to order
Item No.
SFB-T40
Quantity (pcs)
□□

Plate Bracket L





■Usable Frame

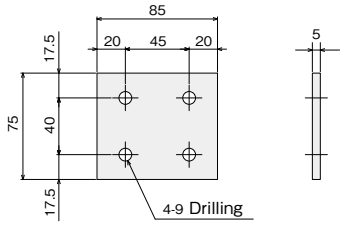


Compatible to all SF40 and 45 series
(Groove Width 10mm)
〈SF-60・60・1S, SF-40・DE※, SF-45・DE※excluded〉

■Material/Technical Data

Name	Weight(g)	Material	Environment
Plate Bracket LG	242	SUS304	★RoHS Compliant ★Green Procurement
Plate Bracket L-L	89	SPCC Uni-chrome	
S Plate Bracket L-L	89	SUS304	
Plate Bracket L-T	103	SPCC Uni-chrome	
S Plate Bracket L-T	103	SUS304	
Plate Bracket L-+	140	SPCC Uni-chrome	
S Plate Bracket L-+	140	SUS304	

S Plate Bracket LG

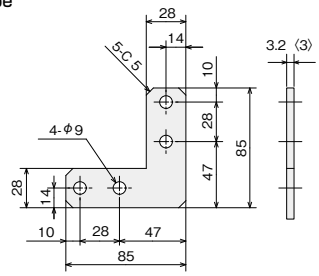


t = 5

■Kit Contents
〈Plate Bracket LG Kit〉
●Plate Bracket LG×1
●Hexagon Socket Bolt (M8×15)Stainless×4
●ST Nut L(M8)×4

Name	S Plate Bracket LG	S Plate Bracket LG Kit
Item No.	★SFJ-123S	★SFK-123S

Plate Bracket L-L Type

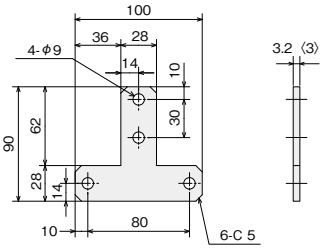


t = 3.2

■Kit Contents
〈Plate Bracket L-L Type Kit〉
●Plate Bracket L-L×1
●Hexagon Socket Bolt (M8×15)×4
●T Nut L(M8)×4
〈S Plate Bracket L-L Type Kit〉
●S Plate Bracket L-L×1
●Hexagon Socket Bolt(M8×15)Stainless×4
●ST Nut L(M8)×4

Name	Plate Bracket L-L Type 〈S Plate Bracket L-L Type〉	Plate Bracket L-L Type Kit 〈S Plate Bracket L-L Type Kit〉
Item No.	★SFJ-106〈★SFJ-106S〉	★SFK-106〈★SFK-106S〉

Plate Bracket L-T Type

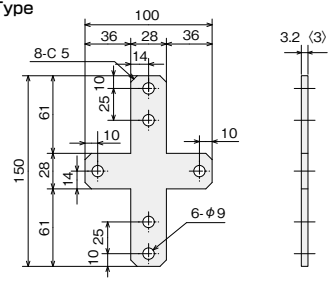


t = 3.2

■Kit Contents
〈Plate Bracket L-T Type Kit〉
●Plate Bracket L-T×1
●Hexagon Socket Bolt (M8×15)×4
●T Nut L(M8)×4
〈S Plate Bracket L-T Type Kit〉
●S Plate Bracket L-T×1
●Hexagon Socket Bolt(M8×15)Stainless×4
●ST Nut L(M8)×4

Name	Plate Bracket L-T Type 〈S Plate Bracket L-T Type〉	Plate Bracket L-T Type Kit 〈S Plate Bracket L-T Type Kit〉
Item No.	★SFJ-107〈★SFJ-107S〉	★SFK-107〈★SFK-107S〉

Plate Bracket L-+ Type



t = 3.2

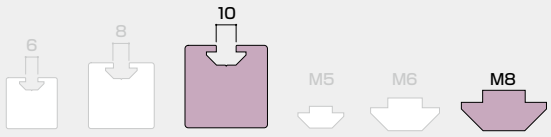
■Kit Contents
〈Plate Bracket L-+ Type Kit〉
●Plate Bracket L-+×1
●Hexagon Socket Bolt (M8×15)×6
●T Nut L(M8)×6
〈S Plate Bracket L-+ Type Kit〉
●S Plate Bracket L-T×1
●Hexagon Socket Bolt(M8×15)×6
●ST Nut L(M8)×6

Name	Plate Bracket L-+ Type 〈S Plate Bracket L-+ Type〉	Plate Bracket L-+ Type Kit 〈S Plate Bracket L-+ Type Kit〉
Item No.	★SFJ-108〈★SFJ-108S〉	★SFK-108〈★SFK-108S〉

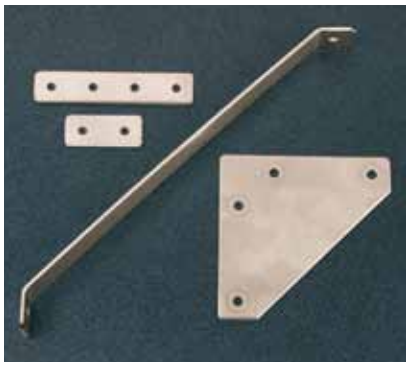
We sell Nut Material and Bracket Material as well.
T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material

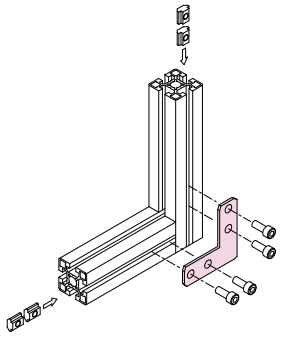
Material Frame

SF40・45 SERIES



S Plate Bracket





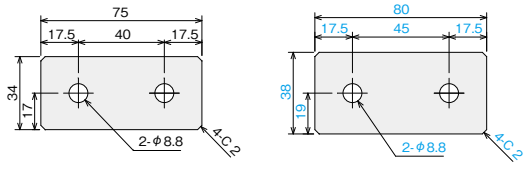
■Usable Frame

Compatible to all SF40 and 45 series
(Groove Width 10mm)
〈SF-60·60-1S, SF-40·DE※, SF-45·DE※excluded〉

■Material/Technical Data

Name	Weight(g)	Material	Environment
S Plate Bracket L40-H2	57.6	SUS304	RoHS Compliant Green Procurement
S Plate Bracket L45-H2	69.2		
S Plate Bracket L40-H4	119.4		
S Plate Bracket L45-H4	147.7		
S Corner Support Bracket L	570.6		
S Corner Support Plate L	374.4		

S Plate Bracket L40-H2　S Plate Bracket L45-H2

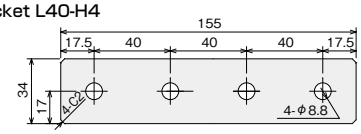


t = 3

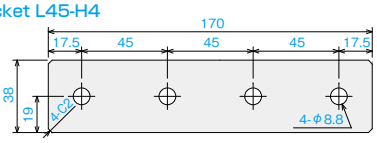
■Kit Contents
〈Plate Bracket L40〈L45〉 -H2 Kit〉
●Plate Bracket L40-H2〈or L45-H2〉×1
●Hexagon Socket Bolt(M8×15)Stainless×2
●ST Nut L(M8)×2

Name	S Plate Bracket L40-H2 〈S Plate Bracket L45-H2〉	S Plate Bracket L40-H2 Kit 〈S Plate Bracket L45-H2 Kit〉
Item No.	SFJ-126S〈SFJ-127S〉	SFK-126S〈SFK-127S〉

S Plate Bracket L40-H4



S Plate Bracket L45-H4

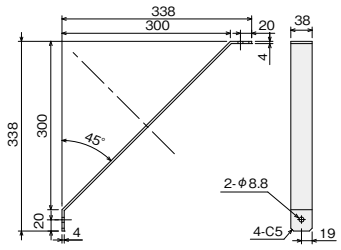


t = 3

■Kit Contents
〈Plate Bracket L40〈L45〉 -H4 Kit〉
●Plate Bracket L40-H4〈or L45-H4〉×1
●Hexagon Socket Bolt(M8×15)Stainless×4
●ST Nut L(M8)×4

Name	S Plate Bracket L40-H4 〈S Plate Bracket L45-H4〉	S Plate Bracket L40-H4 Kit 〈S Plate Bracket L45-H4 Kit〉
Item No.	SFJ-131S〈SFJ-132S〉	SFK-131S〈SFK-132S〉

S Corner Support Bracket L

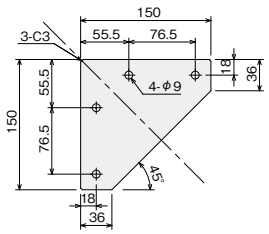


t = 4

■Kit Contents
〈Corner Support Bracket L Kit〉
●Corner Support Bracket L×1
●Hexagon Socket Bolt(M8×15)Stainless×2
●ST Nut L(M8)×2

Name	S Corner Support Bracket L	S Corner Support Bracket L Kit
Item No.	SFJ-133S	SFK-133S

S Corner Support Plate L



t = 3

■Kit Contents
〈Corner Support Plate L Kit〉
●Corner Support Plate L×1
●Hexagon Socket Bolt(M8×15)Stainless×4
●ST Nut L(M8)×4

Name	S Corner Support Plate L	S Corner Support Plate L Kit
Item No.	SFJ-138S	SFK-138S

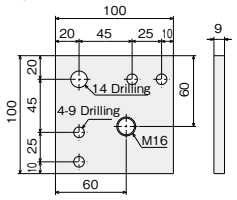
Example of order
Parts
How to order
Item No.
SFJ-126S
Quantity (pcs)
□□

Adjuster Kit



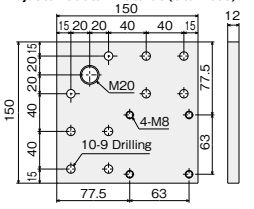
■Plate

Adjuster Plate L / Adjuster Plate L(Stainless)



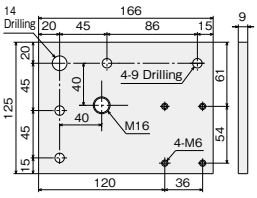
	Material	Treatment	Weight
Adjuster Plate L	SS400	Uni-Chrome	0.65kg
Adjuster Plate L(Stainless)	SUS304	—	0.66kg

Adjuster Caster Plate 80 / Adjuster Caster Plate 80(Stainless)



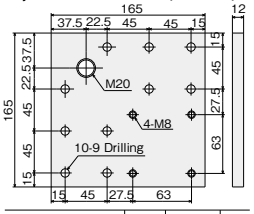
	Material	Treatment	Weight
Adjuster Caster Plate 80	SS400	Uni-Chrome	2kg
Adjuster Caster Plate 80(Stainless)	SUS304	—	2.02kg

Adjuster Caster Plate L



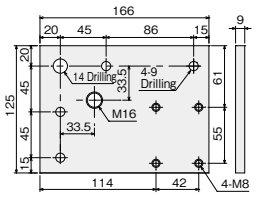
	Material	Treatment	Weight
Adjuster Caster Plate L	SS400	Uni-Chrome	1.03kg

Adjuster Caster Plate 90 / Adjuster Caster Plate 90(Stainless)



	Material	Treatment	Weight
Adjuster Caster Plate 90	SS400	Uni-Chrome	2.5kg
Adjuster Caster Plate 90(Stainless)	SUS304	—	2.53kg

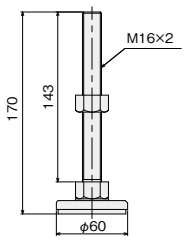
Adjuster Caster Plate L(Stainless)



	Material	Treatment	Weight
Adjuster Caster Plate L(Stainless)	SUS304	—	1.04kg

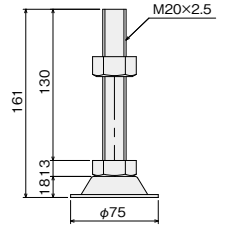
■Adjuster

Adjuster M16



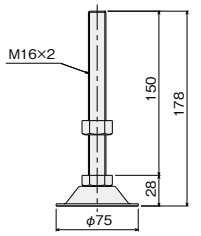
	Material	Treatment	Load Capacity	Weight	Bottom
Adjuster M16	SS400	Zn Black	500kg	386g	Neoprene Rubber

Adjuster BM20(Stainless)



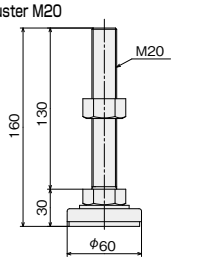
	Material	Treatment	Load Capacity	Weight
Adjuster BM20(Stainless)	SUS304	Electrolytic Polishing	880kg	540g

Adjuster BM16(Stainless)



	Material	Treatment	Load Capacity	Weight
Adjuster BM16(Stainless)	SUS304	Electrolytic Polishing	560kg	375g

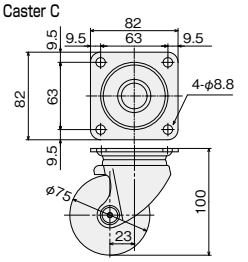
Adjuster M20



	Material	Treatment	Load Capacity	Weight
Adjuster M20	SS400	Zn Black	500kg	536g

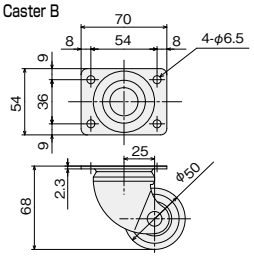
■Caster

Caster C



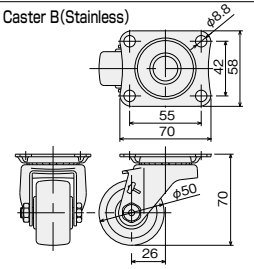
	Material	Load Capacity	Weight
Caster C	Nylon	300kg	902g

Caster B



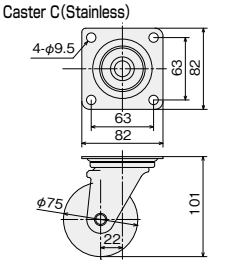
	Material	Load Capacity	Weight
Caster B	Phenol Resin	150kg	340g

Caster B(Stainless)



	Material	Load Capacity	Weight
Caster B(Stainless)	Phenol Resin	71.4kg	285g

Caster C(Stainless)



	Material	Load Capacity	Weight
Caster C(Stainless)	MC Nylon	150kg	520g

	Item No.	Name	Compatible Frames	Kit Contents
Adjuster + Plate	SFK-501A	Level Adjuster Kit L	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Plate L×1 ●Adjuster M16×1 ●T Nut L(M8)×4 ●Hexagon Socket Bolt(M8×20)×4
	SFK-501S	Level Adjuster Kit L(Stainless)	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Plate L(Stainless)×1 ●Adjuster BM16(Stainless)×1 ●ST Nut L(M8)×4 ●Hexagon Socket Bolt(M8×20)Stainless×4
	SFK-513A	Level Adjuster Kit 80	SF-80・80 SF-80・80・H	●Adjuster Caster Plate 80×1 ●Adjuster M20×1 ●Flat Washer(M8)×8 ●T Nut L(M8)×8 ●Hexagon Socket Bolt(M8×25)×8
	SFK-513S	Level Adjuster Kit 80(Stainless)	SF-80・80 SF-80・80・H	●Adjuster Caster Plate 80(Stainless)×1 ●Hexagon Socket Bolt(M8×25)Stainless×8 ●ST Nut L(M8)×8 ●Adjuster BM20(Stainless)×1 ●Flat Washer(M8)Stainless×8
	SFK-515	Level Adjuster Kit 90	SF-90・90 SF-90・90・H	●Adjuster Caster Plate 90×1 ●Adjuster M20×1 ●Flat Washer(M8)×8 ●T Nut (M8)×8 ●Hexagon Socket Bolt(M8×25)×8
	SFK-515S	Level Adjuster Kit 90(Stainless)	SF-90・90 SF-90・90・H	●Adjuster Caster Plate 90(Stainless)×1 ●Hexagon Socket Bolt(M8×25)Stainless×8 ●ST Nut (M8)×8 ●Adjuster BM20(Stainless)×1 ●Flat Washer(M8)Stainless×8
Adjuster Caster + Plate	SFK-502A	Level Adjuster Kit L with Caster	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Caster Plate L×1 ●Caster B×1 ●Hexagon Socket Bolt(M6×10)×4 ●Adjuster M16×1 ●T Nut L(M8)×4 ●Hexagon Socket Bolt(M8×20)×4
	SFK-502S	Level Adjuster Kit L with Caster(Stainless)	Compatible to all SF40 and 45 series (Groove Width 10mm)※	●Adjuster Caster Plate L(Stainless)×1 ●ST Nut L(M8)×4 ●Hexagon Socket Bolt(M8×12)Stainless×4 ●Adjuster BM16(Stainless)×1 ●Caster B(Stainless)×1 ●Hexagon Socket Bolt(M8×20)Stainless×4
	SFK-514A	Level Adjuster Kit 80 with Caster	SF-80・80 SF-80・80・H	●Adjuster Caster Plate 80×1 ●Adjuster M20×1 ●Hexagon Socket Bolt(M8×25)×8 ●Caster C×1 ●T Nut L(M8)×8 ●Flat Washer(M8)×8 ●Hexagon Socket Bolt(M8×12)×4
	SFK-514S	Level Adjuster Kit 80 with Caster(Stainless)	SF-80・80 SF-80・80・H	●Adjuster Caster Plate 80(Stainless)×1 ●Adjuster BM20(Stainless)×1 ●Hexagon Socket Bolt(M8×25)Stainless×8 ●Caster C(Stainless)×1 ●ST Nut L(M8)×8 ●Flat Washer(M8)Stainless×8 ●Hexagon Socket Bolt(M8×12)Stainless×4
	SFK-516	Level Adjuster Kit 90 with Caster	SF-90・90 SF-90・90・H	●Adjuster Caster Plate 90×1 ●Adjuster M20×1 ●Hexagon Socket Bolt(M8×25)×8 ●Caster C×1 ●T Nut L(M8)×8 ●Flat Washer(M8)×8 ●Hexagon Socket Bolt(M8×12)×4
	SFK-516S	Level Adjuster Kit 90 with Caster(Stainless)	SF-90・90 SF-90・90・H	●Adjuster Caster Plate 90(Stainless)×1 ●Adjuster BM20(Stainless)×1 ●Hexagon Socket Bolt(M8×25)×8 ●Caster C(Stainless)×1 ●ST Nut L(M8)×8 ●Flat Washer(M8)Stainless×8 ●Hexagon Socket Bolt(M8×12)×4

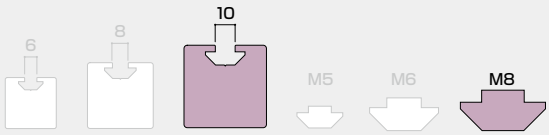
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material


Material Frame

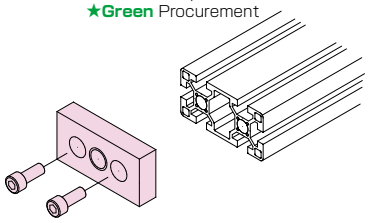
SF40・45 SERIES



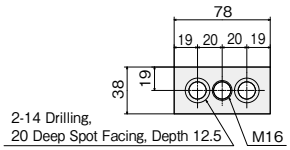
Foot Base



Environment ★RoHS Compliant
★Green Procurement



Foot Base 4080



t=16

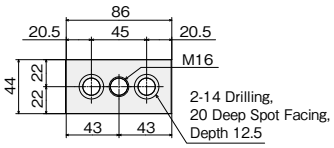
■Usable Frame — SF-40·80



〈Material〉

Foot Base 4080	SS400 Uni-Chrome Plating 2 Hexagon Socket Bolts (M12×25) Included Weight/274g
Foot Base 4080 (Stainless)	SUS304 2 Hexagon Socket Bolts (M12×25) Stainless Included Weight/276g

Foot Base 4590



t=16

■Usable Frame — SF-45·90

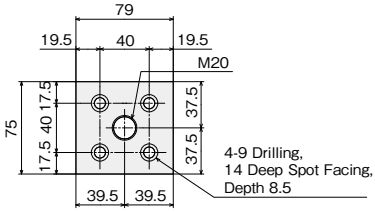


〈Material〉

Foot Base 4590	SS400 Uni-Chrome Plating 2 Hexagon Socket Bolts (M12×25) Included Weight/371g
Foot Base 4590 (Stainless)	SUS304 2 Hexagon Socket Bolts (M12×25) Stainless Included Weight/374g

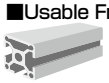
Name	Foot Base 4080〈Foot Base 4080(Stainless)〉	Foot Base 4590〈Foot Base 4590(Stainless)〉
Item No.	★SFK-57A〈★SFK-57AS〉	★SFK-60A〈★SFK-60AS〉

Foot Base 8080



t=16

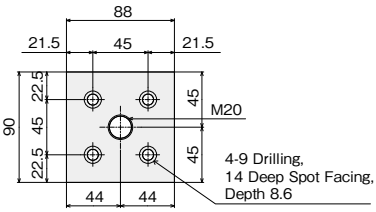
■Usable Frame — SF-80·80/H



〈Material〉

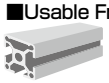
Foot Base 8080	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×25) Included Weight/625g
Foot Base 8080 (Stainless)	SUS304 4 Hexagon Socket Bolts (M8×25) Stainless Included Weight/631g

Foot Base 9090



t=16

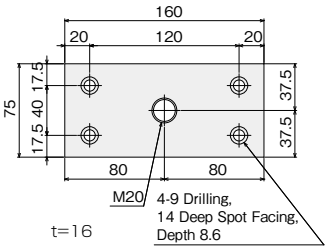
■Usable Frame — SF-90·90/H



〈Material〉

Foot Base 9090	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×25) Included Weight/861g
Foot Base 9090 (Stainless)	SUS304 4 Hexagon Socket Bolts (M8×25) Stainless Included Weight/869g

Foot Base 80160



t=16

■Usable Frame — SF-80·160

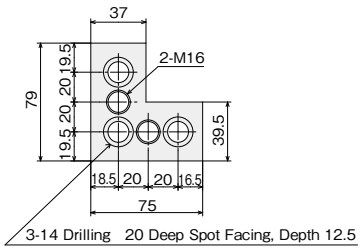


〈Material〉

Foot Base 80160	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×25) Included Weight/1417g
Foot Base 80160 (Stainless)	SUS304 4 Hexagon Socket Bolts (M8×25) Stainless Included Weight/1431g

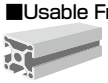
Name	Foot Base 8080〈Foot Base 8080(Stainless)〉	Foot Base 9090〈Foot Base 9090(Stainless)〉	Foot Base 80160〈Foot Base 80160(Stainless)〉
Item No.	★SFK-59A〈★SFK-59AS〉	★SFK-54A〈★SFK-54AS〉	★SFK-72A〈★SFK-72AS〉

Foot Base 408080



t=16

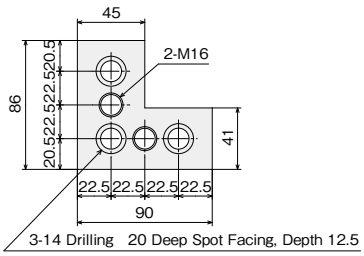
■Usable Frame — SF-40·80·80



〈Material〉

Foot Base 408080	SS400 Uni-Chrome Plating 3 Hexagon Socket Bolts (M12×25) Included Weight/383g
Foot Base 408080 (Stainless)	SUS304 3 Hexagon Socket Bolts (M12×25) Stainless Included Weight/387g

Foot Base 459090



t=16

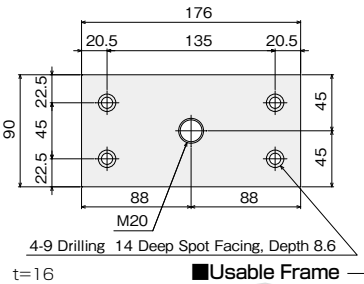
■Usable Frame — SF-45·90·90



〈Material〉

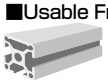
Foot Base 459090	SS400 Uni-Chrome Plating 3 Hexagon Socket Bolts (M12×25) Included Weight/541g
Foot Base 459090 (Stainless)	SUS304 3 Hexagon Socket Bolts (M12×25) Stainless Included Weight/546g

Foot Base 90180



t=16

■Usable Frame — SF-90·180



〈Material〉

Foot Base 90180	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×30) Included Weight/1899g
Foot Base 90180 (Stainless)	SUS304 4 Hexagon Socket Bolts (M8×30) Stainless Included Weight/1918g

Name	Foot Base 408080〈Foot Base 408080(Stainless)〉	Foot Base 459090〈Foot Base 459090(Stainless)〉	Foot Base 90180〈Foot Base 90180(Stainless)〉
Item No.	★SFK-65A〈★SFK-65AS〉	★SFK-66A〈★SFK-66AS〉	★SFK-73A〈★SFA-73AS〉

Parts How to order

Example of order

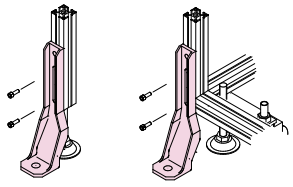
Item No. SFK-57A

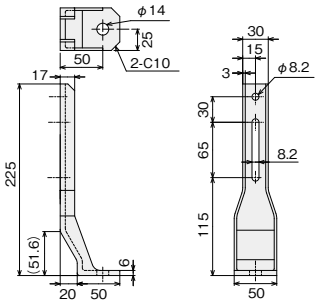
Quantity (pcs) □□

Anchor Bracket





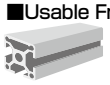




Name(Single Item)	Anchor Bracket 〈Anchor Bracket (Electroless Nickel Plating)〉
Item No.	SFJ-70A〈SFJ-70AS〉

Name(Bolt and Nut Kit)	Anchor Kit L 〈Anchor Kit L(Electroless Nickel Plating)〉
Item No.	SFK-71A〈SFK-71AS〉

■Usable Frame



SF40・45 series (Groove Width 10mm)
※2F Frame excluded

■Kit Contents

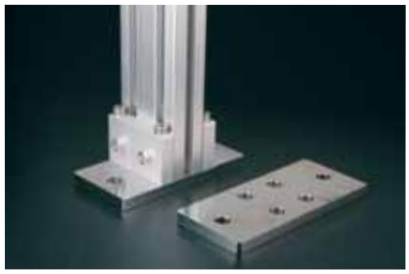
- Anchor Bracket ×1
- T Nut L(M8)×2
- Hexagon Socket Bolt (M8×18)×2

※(Electroless Nickel Plating)Kit Bolt and Nut in Stainless Kit are stainless.

■Material/Technical Data

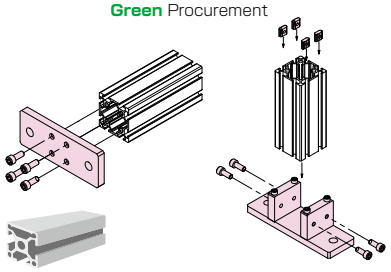
	Anchor Bracket	Anchor Bracket (Electroless Nickel Plating)
Material	S45C Anion Electrodeposition Black Coating	S45C Electroless Nickel Plating
Weight	577g	577g
Environment	RoHS Compliant Green Procurement	

Anchor Plate / Anchor Plate Bracket



[Left]Anchor Plate Bracket Kit [Right]Anchor Plate

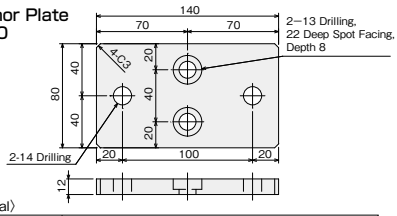
Environment RoHS Compliant
Green Procurement



■Usable Frame

(Anchor Plate 4080)SF-40・80, (Anchor Plate 4590)SF-45・90
(Anchor Plate 8080)SF-80・80, (Anchor Plate 9090)SF-90・90

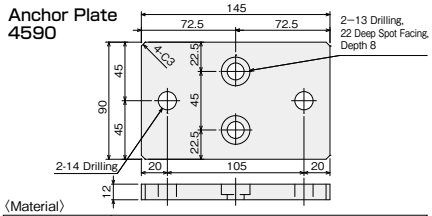
Anchor Plate 4080



〈Material〉

Anchor Plate 4080	SUS304 With 4 Hexagon Socket Bolts (M12×35)Stainless Weight/1049g

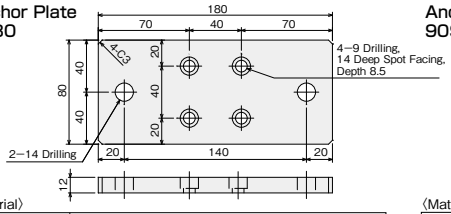
Anchor Plate 4590



〈Material〉

Anchor Plate 4590	SUS304 With 4 Hexagon Socket Bolts (M12×35)Stainless Weight/1224g

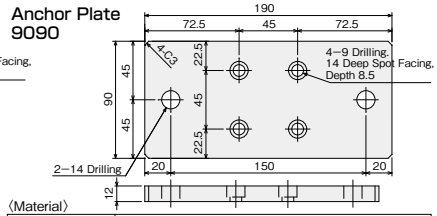
Anchor Plate 8080



〈Material〉

Anchor Plate 8080	SUS304 With 4 Hexagon Socket Bolts (M8×25)Stainless Weight/1345g

Anchor Plate 9090

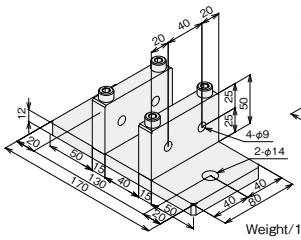


〈Material〉

Anchor Plate 9090	SUS304 With 4 Hexagon Socket Bolts (M8×25)Stainless Weight/1601g

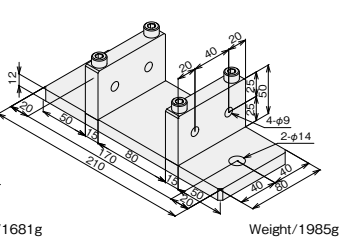
Name	Anchor Plate 4080	Anchor Plate 4590	Anchor Plate 8080	Anchor Plate 9090
Item No.	SFK-75A	SFK-76A	SFK-77A	SFK-78A

Anchor Plate Bracket 4080 Kit



Weight/1681g

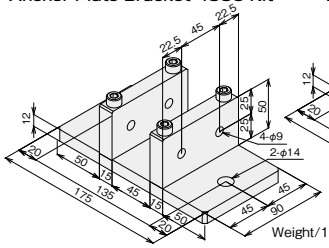
Anchor Plate Bracket 8080 Kit



Weight/1985g

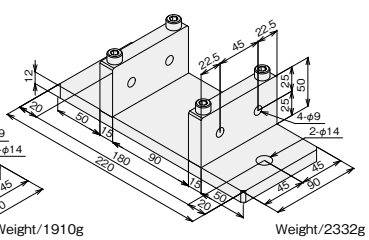
〈Material〉Base／SUS304, Anchor Block ／A6063(Alumite Treatment)

Anchor Plate Bracket 4590 Kit



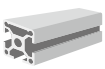
Weight/1910g

Anchor Plate Bracket 9090 Kit



Weight/2332g

〈Material〉Base／SUS304, Anchor Block ／A6063(Alumite Treatment)



■Usable Frame

(Anchor Plate Bracket 4080)SF-40・80
(Anchor Plate Bracket 8080)SF-80・80
(Anchor Plate Bracket 4590)SF-45・90
(Anchor Plate Bracket 9090)SF-90・90

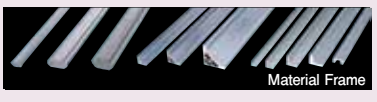
Name	4080 Kit	8080 Kit	4590 Kit	9090 Kit
Item No.	SFK-75B	SFK-77B	SFK-76B	SFK-78B

Kit Contents		
	●Anchor Base 4080(or 8080)×1 ●Anchor Block 4080×2 ●Hexagon Socket Bolt (M8×60)Stainless×4 ●Hexagon Socket Bolt (M8×25)Stainless×4 ●ST Nut L(M8)×4 ●Nut Anti-Skid Cap L40×4	●Anchor Base 4590(or 9090)×1 ●Anchor Block 4590×2 ●Hexagon Socket Bolt (M8×60)Stainless×4 ●Hexagon Socket Bolt (M8×25)Stainless×4 ●ST Nut L(M8)×4 ●Nut Anti-Skid Cap L45×4

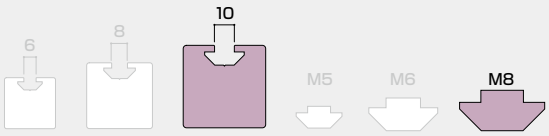
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material


Material Frame

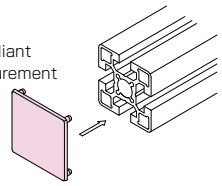
SF40・45 SERIES



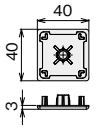
Frame Cap



Material Polyamide
Weight In Drowing
Environment **RoHS** Compliant
Green Procurement



Frame Cap N4040

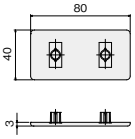


Weight/5.4g

■Usable Frame

SF-40·40, SF-40·40·1F/2F/3F/2H/SF-K·40·40

Frame Cap 4080

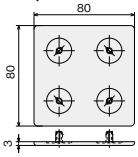


Weight/10.5g

■Usable Frame

SF-40·80, SF-40·80·1F※SF-40·160/SF-K·40·80

Frame Cap 8080



Weight/22.1g

■Usable Frame

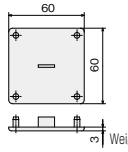
SF-80·80/H ※SF-80·160

Name	Frame Cap 4040 (Black)	Frame Cap 4040 (Light Gray)	Frame Cap 4080 (Black)	Frame Cap 4080 (Light Gray)	Frame Cap 8080 (Black)	Frame Cap 8080 (Light Gray)
Item No.	SFA-034B	SFA-034G	SFA-007	SFA-007G	SFA-008	SFA-008G

※Use 2 pcs for SF-40·160

※Use 2 pcs for SF-80·160

Frame Cap 60601S

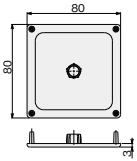


Weight/12.5g

■Usable Frame

SF-60·60·1S

Frame Cap 80801S

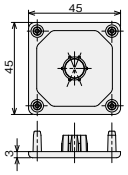


Weight/17.4g

■Usable Frame

SF-80·80·1S

Frame Cap 4545

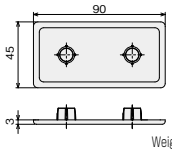


Weight/7.5g

■Usable Frame

SF-45·45/1F/2F/3F/2H, SF-K·45·45/1F/2F

Frame Cap 4590

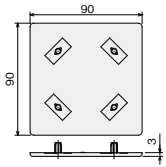


Weight/14.2g

■Usable Frame

SF-45·90/1F, SF-K·45·90※SF-45·180

Frame Cap 9090



Weight/28.2g

■Usable Frame

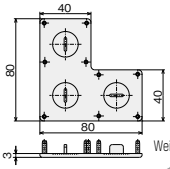
SF-90·90/H ※SF-90·180

Name	Frame Cap 60601S (Black)	Frame Cap 60601S (Light Gray)	Frame Cap 80801S (Black)	Frame Cap 80801S (Light Gray)	Frame Cap 4545 (Black)	Frame Cap 4545 (Light Gray)	Frame Cap 4590 (Black)	Frame Cap 4590 (Light Gray)	Frame Cap 9090 (Black)	Frame Cap 9090 (Light Gray)
Item No.	SFA-003	SFA-003G	SFA-030	SFA-030G	SFA-035B	SFA-035G	SFA-004	SFA-004G	SFA-016	SFA-016G

※Use 2 pcs for SF-90·180

※Use 2 pcs for SF-45·180

Frame Cap 40·80·80

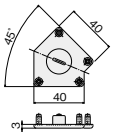


Weight/16.9g

■Usable Frame

SF-40·80·80

Frame Cap 40·DE45

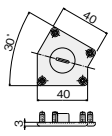


Weight/5.8g

■Usable Frame

SF-40·DE45

Frame Cap 40·DE30

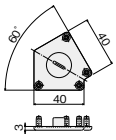


Weight/5.8g

■Usable Frame

SF-40·DE30

Frame Cap 40·DE60

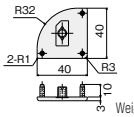


Weight/5.8g

■Usable Frame

SF-40·DE60

Frame Cap 40·40·R



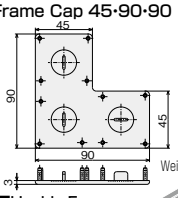
Weight/4.8g

■Usable Frame

SF-40·40·R

Name	Frame Cap 40·80·80 (Black)	Frame Cap 40·80·80 (Light Gray)	Frame Cap 40·DE45 (Black)	Frame Cap 40·DE45 (Light Gray)	Frame Cap 40·DE30 (Black)	Frame Cap 40·DE30 (Light Gray)	Frame Cap 40·DE60 (Black)	Frame Cap 40·DE60 (Light Gray)	Frame Cap 40·40·R (Black)	Frame Cap 40·40·R (Light Gray)
Item No.	SFA-J9C	SFA-J9CG	SFA-J7B	SFA-J7BG	SFA-J7A	SFA-J7AG	SFA-J7C	SFA-J7CG	SFA-024	SFA-024G

Frame Cap 45·90·90

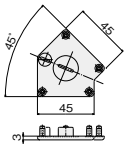


Weight/21.1g

■Usable Frame

SF-45·90·90

Frame Cap 45·DE45

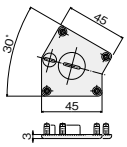


Weight/7.5g

■Usable Frame

SF-45·DE45

Frame Cap 45·DE30

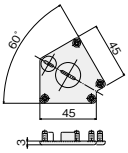


Weight/7.5g

■Usable Frame

SF-45·DE30

Frame Cap 45·DE60

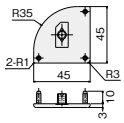


Weight/7.5g

■Usable Frame

SF-45·DE60

Frame Cap 45·45·R



Weight/6.1g

■Usable Frame

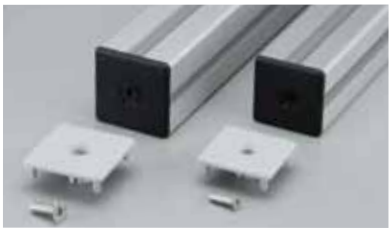
SF-45·45·R

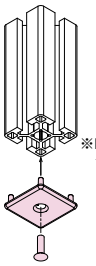
Name	Frame Cap 45·90·90 (Black)	Frame Cap 45·90·90 (Light Gray)	Frame Cap 45·DE45 (Black)	Frame Cap 45·DE45 (Light Gray)	Frame Cap 45·DE30 (Black)	Frame Cap 45·DE30 (Light Gray)	Frame Cap 45·DE60 (Black)	Frame Cap 45·DE60 (Light Gray)	Frame Cap 45·45·R (Black)	Frame Cap 45·45·R (Light Gray)
Item No.	SFA-J9D	SFA-J9DG	SFA-J8B	SFA-J8BG	SFA-J8A	SFA-J8AG	SFA-J8C	SFA-J8CG	SFA-025	SFA-025G

Example of order

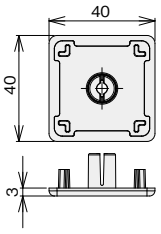
Parts
How to order
Item No.
SFA-034B
Quantity (pcs)
□□

Frame Cap Lock Type N4040 / 4045

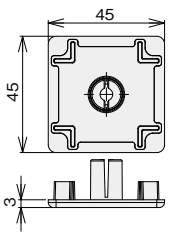




※Provided bolt enabled to lock without Tap Processing to Frame.



■Usable Frame
SF-40·40



■Usable Frame
SF-45·45

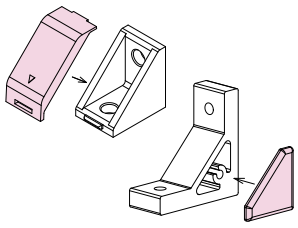
Material Polyamide(Cap), SWCH10R(Screw), Chromate Black or Stainless(Screw)
Weight 7.3g(4040), 10.2g(4545)
Environment **RoHS** Compliant **Green** Procurement

Name	Frame Cap Lock Type N4040(Black)※1	Frame Cap Lock Type 4040(Light Gray)※2	Frame Cap Lock Type 4545(Black)※3	Frame Cap Lock Type 4545(Light Gray)※4
Item No.	SFK-06LB	SFK-06LG	SFK-07LB	SFK-07LG

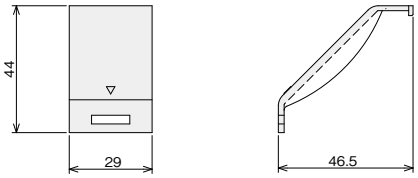
※1 With Small Flat Screw with Cross Hole (M5×16) Chromate Black
※2 With Small Flat Screw with Cross Hole (M5×16) Stainless
※3 With Small Flat Screw with Cross Hole (M6×18) Chromate Black
※4 With Small Flat Screw with Cross Hole (M6×18) Stainless

D Bracket Cap L / Hard Bracket Cap / G Cap





D Bracket Cap L

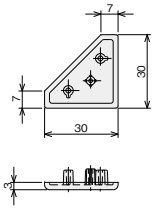


Name	D Bracket Cap L(Black)	D Bracket Cap L(Light Gray)
Item No.	SFA-J14	SFA-J14G

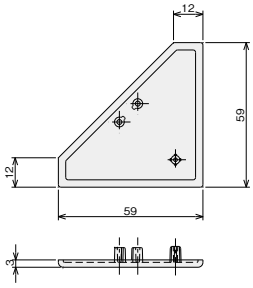
Name	Hard Bracket Cap(Black)	Hard Bracket Cap(Light Gray)
Item No.	SFA-J11	SFA-J11G

Name	Hard Bracket G Cap(Black)	Hard Bracket G Cap(Light Gray)
Item No.	SFA-J12	SFA-J12G

Hard Bracket Cap



Hard Bracket G Cap



■Usable Frame

〈D Bracket Cap L〉
D Bracket L

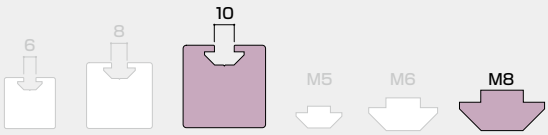
〈Hard Bracket Cap〉
Hard Bracket L/Black
L4080/Black
L4590/Black

〈Hard Bracket G Cap〉
Hard Bracket LG/Black
G80/Black
G90/Black
G80160
G90180

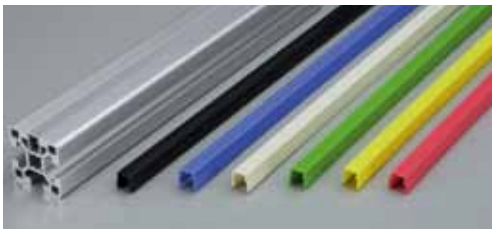
■Material/Technical Data
Material Polyamide
Weight 6.0g(D Bracket Cap L)
1.8g(Hard Bracket Cap)
6.1g(Hard Bracket G Cap)
Environment **RoHS** Compliant
Green Procurement

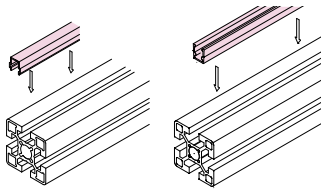
We sell Nut Material and Bracket Material as well.
T Nut L Material P99
●Hard Bracket L Material
●Angle Bracket L Material
Material Frame

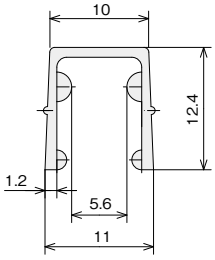
SF40・45 SERIES



Slot Cap







Name	Slot Cap L(ℓ=2000) (Black)	(Light Gray)
Item No.	SFA-102	SFA-102G

Name	Slot Cap L(ℓ=2000) (Blue)	(Ivory)	(Green)	(Yellow)	(Red)
Item No.	SFA-102L	SFA-102V	SFA-102M	SFA-102Y	SFA-102R

■Material/Technical Data

Material Polyethylene
Weight 46g/m
Environment **RoHS** Compliant
Green Procurement

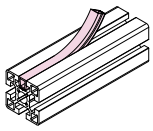
■Usable Frame

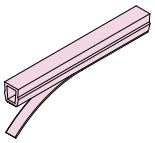


Compatible to all SF40 and 45 series (Groove Width 10mm)

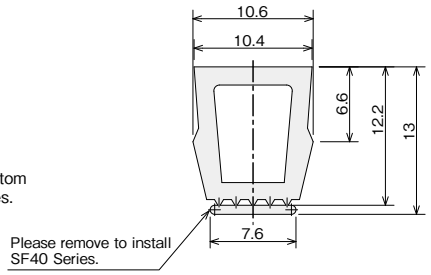
Slot Seal







※Please remove the bottom part to install SF40 Series.

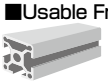


Name	Slot Seal L(ℓ=5000)
Item No.	SFA-172

■Material/Technical Data

Material Elastomer
Weight 68g/m
Environment **RoHS** Compliant
Green Procurement

■Usable Frame



Compatible to all SF40 and 45 series (Groove Width 10mm)

Example of order

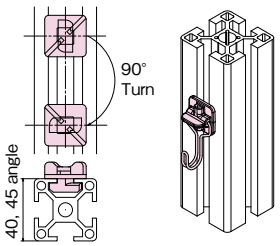
Parts
How to order
Item No.
SFA-102

Quantity (pcs)

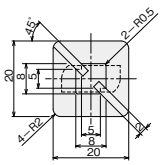
・Exclusive Cutter for Slot Cap and Slot Seal is available.

Cable Clamp L / Slot Hook / Slot Hook L (U), (J)

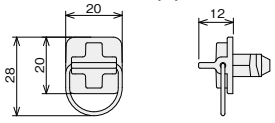




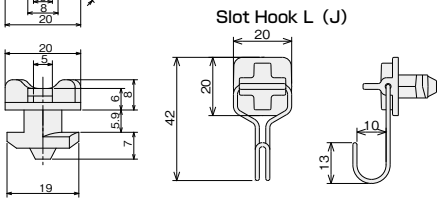
Cable Clamp L



Slot Hook L (U)



Slot Hook L (J)



Name	Cable Clamp L(50 pcs/Pack) (Black)	(Light Gray)
Item No.	C1P-B12C	C1P-012C

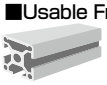
Name	Slot Hook L(U)	Slot Hook L(J)
Item No.	SFK-K33U	SFK-K33J

■Material/Technical Data

	Cable Clamp L	Slot Hook L (U), (J)
Material	Polyamide	Polyamide
Weight	2.5g/pcs	3.7g(U) 4.5g(J)
		Load Capacity 2kg

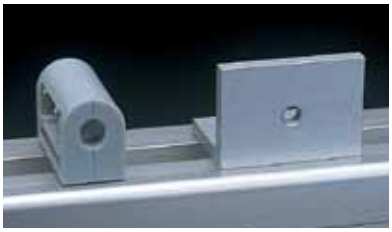
Environment **RoHS** Compliant
Green Procurement

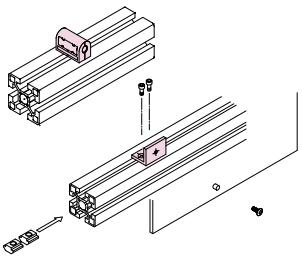
■Usable Frame



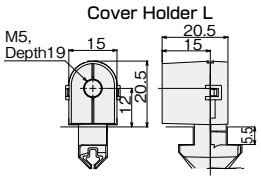
Compatible to all SF40 and 45 series
(Groove Width 10mm)

Cover Holder L / Cover Support L6

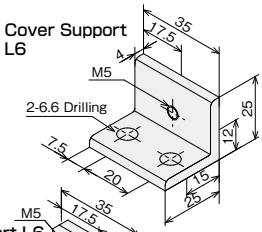




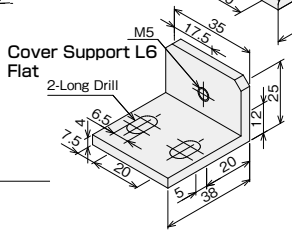
Cover Holder L



Cover Support L6



Cover Support L6 Flat



Name(Single Item)	Cover Holder L	Cover Support L6	Cover Support L6 Flat
Item No.	★SFA-KH7	★SFJ-K04	★SFJ-K14

Name(Bolt and Nut Kit)	Cover Support L6 Kit (Cover Support L6(Stainless)Kit)	Cover Support L6 Flat Kit (Cover Support L6 Flat (Stainless) Kit)
Item No.	★SFK-K04〈★SFK-K04S〉	★SFK-K14〈★SFK-K14S〉

■Usable Frame



Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Kit Contents

〈Cover Support L6 Kit〉
- Cover Support L6×1
- T Nut L(M6)×2
- Truss screw(M5×10)×1
- Hexagon Socket Bolt (M6×15)×2

〈Cover Support L6 Flat Kit〉
- Cover Support L6 Flat×1
- T Nut L(M6)×2
- Truss screw(M5×10)×1
- Hexagon Socket Bolt (M6×15)×2

※Bolt and Nut in (Stainless) Kit are stainless.

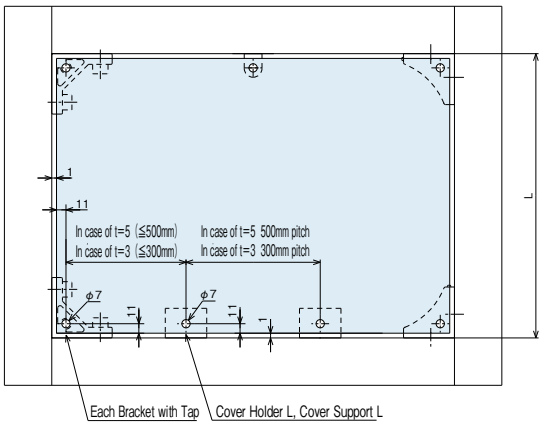
■Material/Technical Data

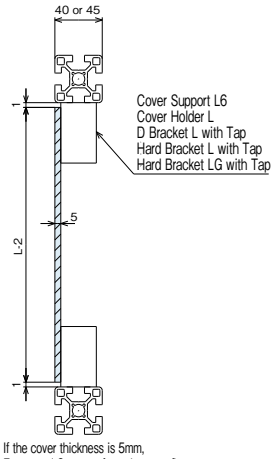
	Cover Holder L	Cover Support L6 Cover Support L6 Flat
Material	Polyamide Color/Light Gray	A6063S-T5 Alumite Treatment (Special order:Black Alumite is available.)
Weight	8g ※With M5 Nut	17g(Cover Support L6) 21g(Cover Support L6 Flat)

Environment ★**RoHS** Compliant
★**Green** Procurement

How to fix Cover

〈Indication of Cover Holder, Cover Support, Resin Plate Dimension〉





If the cover thickness is 5mm,
Frame and Cover surfaces become flat.

〈Resin Plate〉



GO ●Various Resin plates are available. Refer P182~.

〈Door accessories〉



GO ●Various parts for door are available. Refer P140~.

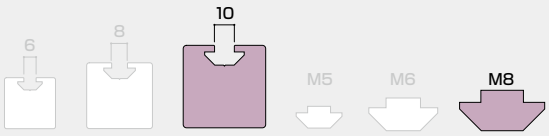
We sell Nut Material and Bracket Material as well.

T Nut L Material P99

●Hard Bracket L Material
●Angle Bracket L Material

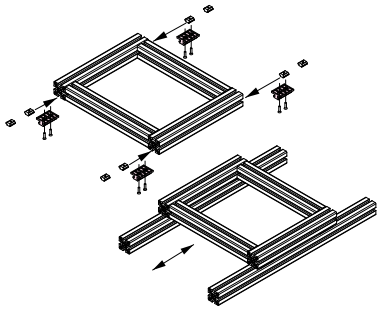


SF40・45 SERIES

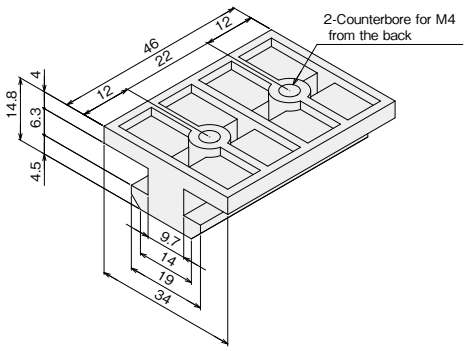


Slider L





Slider L



Name	Slider L
Item No.	SFA-511

■Usable Frame



Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Material/Technical Data

Material Polyacetal(Gray)
Weight 15g
Environment **RoHS** Compliant
Green Procurement

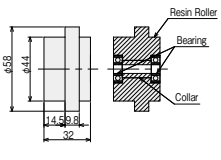
■Installation list of recommendation Bolt・Nut

Name	Installation Frame	Recommended Bolt	Recommended Nut	Appropriate Tightening Torque(N·m)
Slider L	SF40·45 series	Flat Bolt with Cross Hole(M4×25)	T Nut L(M4)	1.0

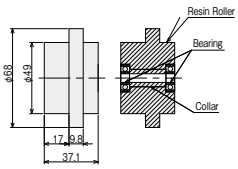
Slot Roller L40 / L45

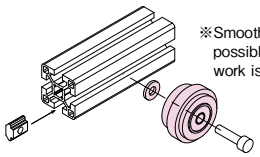


Slot Roller L40



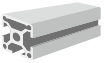
Slot Roller L45





※Smooth operation is possible because cutting work is done with Roller.

■Usable Frame



〈L40〉
Compatible to all SF40 series
(Groove Width 10mm)
〈L45〉
Compatible to all SF45 series
(Groove Width 10mm)

■Material/Technical Data

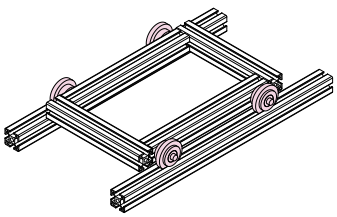
Material 6 Nylon(Resin Roller)
Steel(Bearing)
SC45C(Collar)
Weight 86.5g(L40)·120g(L45)
Environment **RoHS** Compliant
Green Procurement

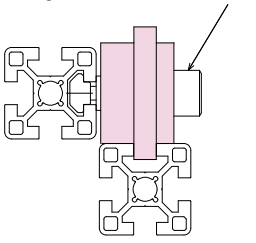
※Installation bolt size M6
※With 2 Bearings·Collar·Washer
※Appropriate Tightening Torque 9.0N·m

Name	Slot Roller L40	Slot Roller L45
Item No.	SFK-807	SFK-808

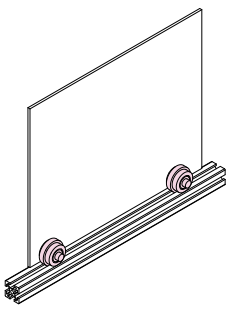
Example of using Slot Roller L

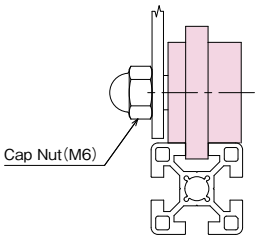
〈To frame's movable part〉





〈As door roller〉



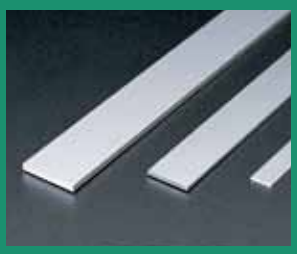


Example of order

Parts How to order

Item No.
SFA-511

Quantity (pcs)
□□

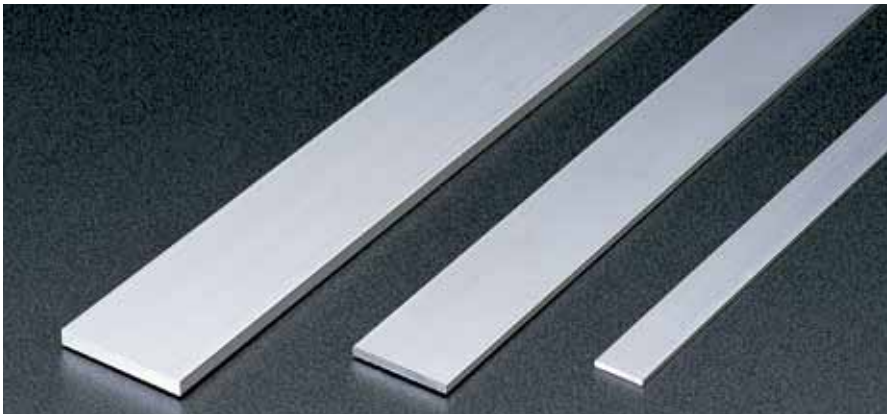


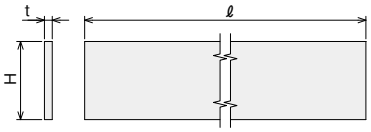
STANDARD FRAME

Complex Parts

Complex Parts

Flat Bar





■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant Green Procurement

Name	Item No.	H	t	Geometrical Moment of Inertia(×10⁴mm⁴)		Section Modulus(×10³mm³)		Unit Mass (kg/m)
				Ix	Iy	Zx	Zy	
Flat Bar15 T=2 ℓ=50~2000	SFF-A154	15	2	0.0562	0.001	0.075	0.01	0.08
Flat Bar15 T=3 ℓ=50~2000	SFF-A164	15	3	0.0843	0.0033	0.112	0.022	0.12
Flat Bar20 T=2 ℓ=50~2000	SFF-A174	20	2	0.1333	0.0013	0.133	0.013	0.11
Flat Bar20 T=3 ℓ=50~2000	SFF-A184	20	3	0.2	0.0045	0.2	0.03	0.16
Flat Bar20 T=5 ℓ=50~2000	SFF-A194	20	5	0.3333	0.0208	0.333	0.083	0.27
Flat Bar30 T=2 ℓ=50~2000	SFF-A204	30	2	0.45	0.002	0.3	0.02	0.16
Flat Bar30 T=3 ℓ=50~2000	SFF-A214	30	3	0.675	0.0067	0.45	0.045	0.24
Flat Bar30 T=5 ℓ=50~2000	SFF-A224	30	5	1.125	0.0312	0.75	0.125	0.41
Flat Bar40 T=3 ℓ=50~2000	SFF-A234	40	3	1.6	0.009	0.8	0.06	0.32
Flat Bar40 T=5 ℓ=50~2000	SFF-A244	40	5	2.666	0.0416	1.333	0.166	0.54
Flat Bar50 T=3 ℓ=50~2000	SFF-A384	50	3	3.125	0.011	1.25	0.075	0.40
Flat Bar50 T=5 ℓ=50~2000	SFF-A394	50	5	5.208	0.052	2.083	0.208	0.68

Example of order

SF Frame

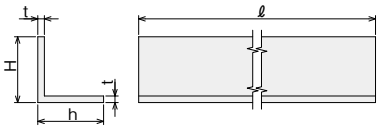
In case of specifying the length (Cut by SUS)

Item No. SFF-A154

Length (mm) ℓ=800

Angle





■Material/Technical Data

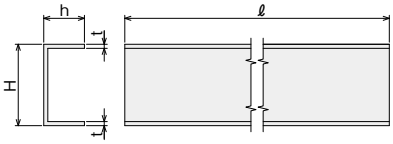
Material Aluminium Alloy
Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant Green Procurement

Name	Item No.	H	h	t	Geometrical Moment of Inertia(×10⁴mm⁴)		Section Modulus(×10³mm³)		Unit Mass (kg/m)
					Ix	Iy	Zx	Zy	
Angle2020 T=2 ℓ=50~2000	SFF-A014	20	20	2	0.288	0.288	0.201	0.201	0.21
Angle2020 T=3 ℓ=50~2000	SFF-A024	20	20	3	0.403	0.403	0.289	0.289	0.30
Angle2040 T=2 ℓ=50~2000	SFF-A034	20	40	2	0.348	1.964	0.219	0.758	0.31
Angle2040 T=3 ℓ=50~2000	SFF-A044	20	40	3	0.489	2.828	0.315	1.108	0.46
Angle3030 T=2 ℓ=50~2000	SFF-A054	30	30	2	1.019	1.019	0.468	0.468	0.31
Angle3030 T=3 ℓ=50~2000	SFF-A064	30	30	3	1.458	1.458	0.681	0.681	0.46
Angle3030 T=5 ℓ=50~2000	SFF-A074	30	30	5	2.216	2.216	1.071	1.071	0.74
Angle4040 T=2 ℓ=50~2000	SFF-A084	40	40	2	2.476	2.476	0.846	0.846	0.42
Angle4040 T=3 ℓ=50~2000	SFF-A094	40	40	3	3.581	3.581	1.239	1.239	0.62
Angle4040 T=5 ℓ=50~2000	SFF-A104	40	40	5	5.561	5.561	1.974	1.974	1.01
UF・51・40 ℓ=50~2000	A-032-4	40	51	14	12.86	24.32	4.899	7.661	2.91
Angle2550 T=3 ℓ=50~2000	SFF-A334	25	50	3	0.993	5.661	0.504	1.759	0.58
Angle5050 T=3 ℓ=50~2000	SFF-A344	50	50	3	7.149	7.149	1.964	1.964	0.79
Angle7575 T=6 ℓ=50~2000	SFF-A514	75	75	6	46.882	46.882	8.677	8.677	2.33
Angle100100 T=6 ℓ=50~2000	SFF-A524	100	100	6	114.390	114.390	15.718	15.718	3.14
Angle150150 T=6 ℓ=50~2000	SFF-A534	150	150	6	397.520	397.520	36.051	36.051	4.76

Complex Parts

Channel





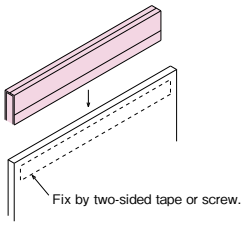
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant Green Procurement

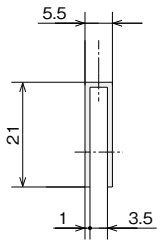
Name	Item No.	H	h	t	Geometrical Moment of Inertia(×10⁴mm⁴)		Section Modulus(×10³mm³)		Unit Mass (kg/m)
					Ix	Iy	Zx	Zy	
Channel1515 T=2 ℓ=50~2000	SFF-A114	15	15	2	0.277	0.181	0.37	0.196	0.22
Channel1530 T=2 ℓ=50~2000	SFF-A124	30	15	2	1.47	0.231	0.98	0.22	0.30
Channel2020 T=2 ℓ=50~2000	SFF-A134	20	20	2	0.718	0.452	0.718	0.36	0.30
Channel2040 T=2 ℓ=50~2000	SFF-A144	40	20	2	3.668	0.576	1.834	0.403	0.41
Channel2550 T=3 ℓ=50~2000	SFF-A374	50	25	3	10.42	1.64	4.169	0.929	0.76
Channel1848 T=2 ℓ=50~2000	SFX-535	48	18.5	2	5.69	0.498	2.369	0.355	0.49

Panel Guard

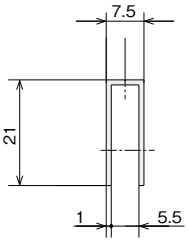




Panel Guard T3



Panel Guard T5



Name	Panel Guard T3 (ℓ=3000)	Panel Guard T3(ℓ=50~3000)	Panel Guard T5 (ℓ=3000)	Panel Guard T5(ℓ=50~3000)
Item No.	SFF-K32	SFF-K34	SFF-K52	SFF-K54

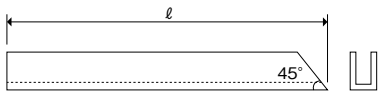
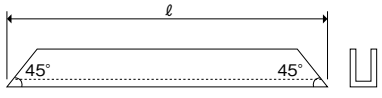
■Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Unit Mass 0.4kg/m
Environment RoHS Compliant Green Procurement

● ℓ=3000 Type is to be cut by customer. Effective range of use ℓ=(3000)

■Panel Guard Slat Cut Service



	Processing Contents	Processing Symbol
One Side		DVS
Both Side		DVW

Example of order

Panel Guard T5 800mm In case both sides are cut aslant
SFF-K54 800mm DVW (Or both sides are cut aslant)

Example of order

SF Frame

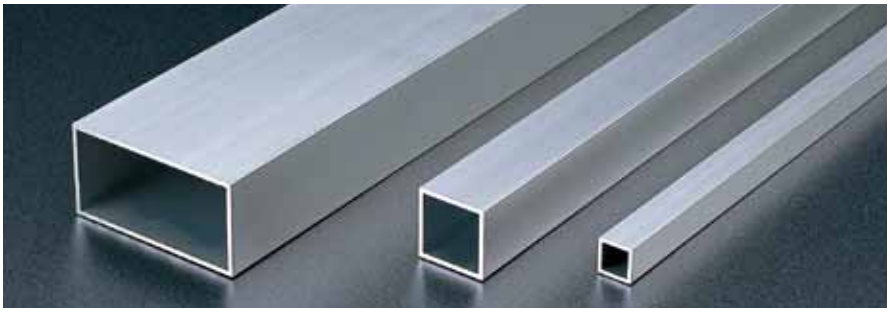
Standard Length (Cut by customer) ℓ=3100·Effective range of use ℓ=3000
Item No. SFF-K32
Quantity (pcs) □□

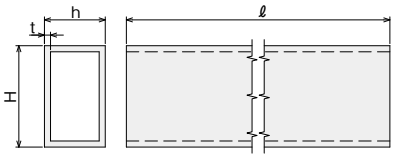
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. SFF-K34
Length (mm) ℓ=800

Parts

How to order
Item No. SFA-109
Quantity (pcs) □□

Square



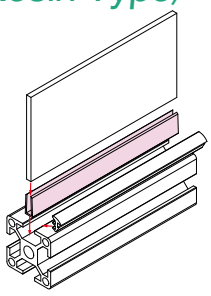


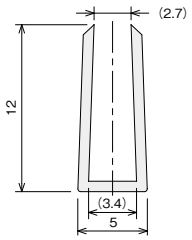
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment **RoHS** Compliant **Green** Procurement

Name	Item No.	H	h	t	Geometrical Moment of Inertia(×10⁴mm⁴)		Section Modulus(×10³mm³)		Unit Mass (kg/m)
					Ix	Iy	Zx	Zy	
Square1515 T=1.5 ℓ=50~2000	SFF-A254	15	15	1.5	0.249	0.249	0.332	0.332	0.22
Square1530 T=1.5 ℓ=50~2000	SFF-A264	30	15	1.5	1.406	0.454	0.937	0.606	0.34
Square2020 T=2 ℓ=50~2000	SFF-A274	20	20	2	0.787	0.787	0.787	0.787	0.39
Square2040 T=2 ℓ=50~2000	SFF-A284	40	20	2	4.445	1.437	2.222	1.437	0.61
Square3030 T=2 ℓ=50~2000	SFF-A294	30	30	2	2.941	2.941	1.961	1.961	0.61
Square3060 T=2 ℓ=50~2000	SFF-A304	60	30	2	15.94	5.297	5.316	3.531	0.93
Square4040 T=2 ℓ=50~2000	SFF-A314	40	40	2	7.336	7.336	3.668	3.668	0.82
Square4080 T=2 ℓ=50~2000	SFF-A324	80	40	2	38.97	13.11	9.743	6.558	1.25
Square2550 T=2 ℓ=50~2000	SFF-A354	50	25	2	9.007	2.96	3.603	2.368	0.77
Square5050 T=2 ℓ=50~2000	SFF-A364	50	50	2	14.77	14.77	5.908	5.908	1.04

Panel Guard T3 〈Resin Type〉





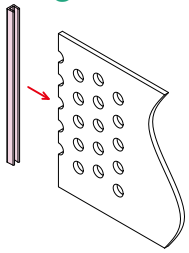


Name	Panel Guard T3〈Resin Type〉
Item No.	SFA-109

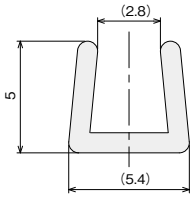
It becomes Spacer of t=5 by installing t=3 Panel.

■Material/Technical Data
Material Polyethylene(Silver)
Unit Mass 21g/m(ℓ=2000mm/PCS)
Environment **RoHS** Compliant **Green** Procurement

Punching Plate Guard



・Installable to end face of t=3 Panel.



Name	Punching Plate Guard
Item No.	EMP-020

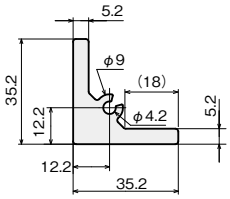
■Material/Technical Data
Material Nylon 6
Unit Mass 15g/m(ℓ=1000mm/PCS)
Environment **RoHS** Compliant **Green** Procurement

Complex Parts



Note : This product will be delivered without being Anodized.

UF-35·35

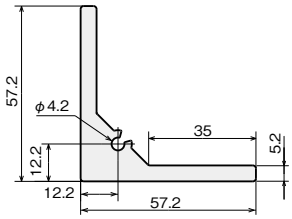


■Material/Technical Data

Material Aluminium Alloy Non Alumite Treatment
Geometrical Moment of Inertia Ix=3.70×10⁴㎜⁴ Iy=3.70×10⁴㎜⁴
Section Modulus Zx=3.68×10³㎜³ Zy=3.68×10³㎜³
Unit Mass 1.1kg/m
Environment **RoHS** Compliant **Green** Procurement

Name	UF-35·35 ℓ=50~2000
Item No.	SFF-U14

UF-57·57

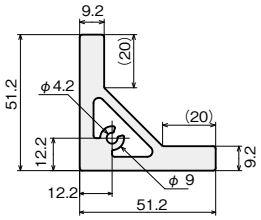


■Material/Technical Data

Material Aluminium Alloy Non Alumite Treatment
Geometrical Moment of Inertia Ix=17.4×10⁴㎜⁴ Iy=17.4×10⁴㎜⁴
Section Modulus Zx=11.62×10³㎜³ Zy=11.62×10³㎜³
Unit Mass 1.9kg/m
Environment **RoHS** Compliant **Green** Procurement

Name	UF-57·57 ℓ=50~2000
Item No.	SFF-U84

UF-H51·51

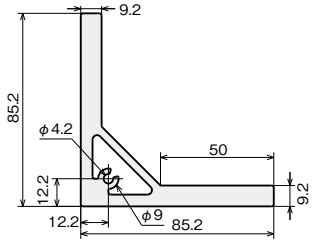


■Material/Technical Data

Material Aluminium Alloy Non Alumite Treatment
Geometrical Moment of Inertia Ix=19.06×10⁴㎜⁴ Iy=19.06×10⁴㎜⁴
Section Modulus Zx=11.79×10³㎜³ Zy=11.79×10³㎜³
Unit Mass 2.3kg/m
Environment **RoHS** Compliant **Green** Procurement

Name	UF-H51·51 ℓ=50~2000
Item No.	SFF-U24

UF-85·85

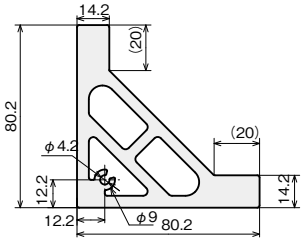


■Material/Technical Data

Material Aluminium Alloy Non Alumite Treatment
Geometrical Moment of Inertia Ix=100.0×10⁴㎜⁴ Iy=100.0×10⁴㎜⁴
Section Modulus Zx=40.13×10³㎜³ Zy=40.13×10³㎜³
Unit Mass 4.0kg/m
Environment **RoHS** Compliant **Green** Procurement

Name	UF-85·85 ℓ=50~2000
Item No.	SFF-U74

UF-80·80



■Material/Technical Data

Material Aluminium Alloy Non Alumite Treatment
Geometrical Moment of Inertia Ix=109.9×10⁴㎜⁴ Iy=109.9×10⁴㎜⁴
Section Modulus Zx=40.54×10³㎜³ Zy=40.54×10³㎜³
Unit Mass 5.3kg/m
Environment **RoHS** Compliant **Green** Procurement

Name	UF-80·80 ℓ=50~2000
Item No.	SFF-U34

Example of order

SF Frame

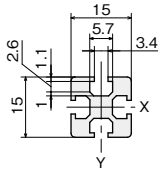
Standard Length (Cut by customer) ℓ=4030-Effective range of use ℓ=4000
Item No. SFF-U12
Quantity (pcs) □□

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. SFF-U14
Length (mm) ℓ=800

SF Light 15·15



Best suited for installing sensor, etc.

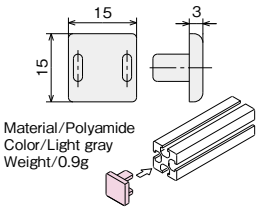


■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Geometrical Moment of Inertia Ix=0.28×10⁴mm⁴ Iy=0.28×10⁴mm⁴
Section Modulus Zx=0.37×10³mm³ Zy=0.37×10³mm³
Unit Mass 0.35kg/m
Environment ★RoHS Compliant ★Green Procurement

Name	SF Light15·15 (ℓ=2000)	SF Light15·15 ℓ=50~2000
Item No.	★SFF-L11	★SFF-L14

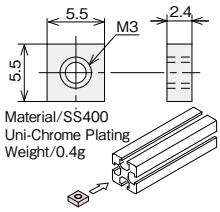
Frame Cap 1515



Material/Polyamide
Color/Light gray
Weight/0.9g

Name	Frame Cap 1515
Item No.	★SFA-021G

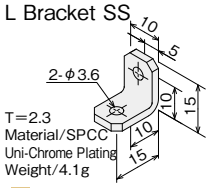
Square Nut M3



Material/SS400
Uni-Chrome Plating
Weight/0.4g

Name	Square Nut M3
Item No.	★SFB-201

L Bracket SS

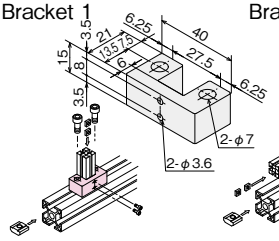


T=2.3
Material/SPCC
Uni-Chrome Plating
Weight/4.1g

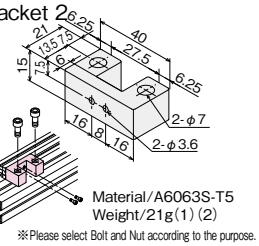
Kit contents
●L Bracket SS×1
●Hexagon Socket Bolt (M3×6)×2
●Square Nut (M3)×2

L Bracket SS	L Bracket SS Kit
★SFJ-903	★SFK-903

Bracket 1



Bracket 2



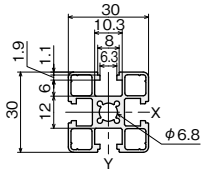
Material/A6063S-T5
Weight/21g(1)(2)

※Please select Bolt and Nut according to the purpose.

Bracket 1	Bracket 2
★SFJ-901	★SFJ-902

SF Light 30·30



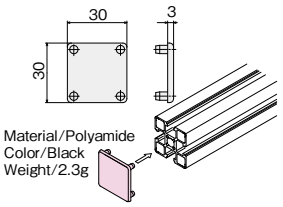


■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Geometrical Moment of Inertia Ix=2.14×10⁴mm⁴ Iy=2.14×10⁴mm⁴
Section Modulus Zx=1.42×10³mm³ Zy=1.42×10³mm³
Unit Mass 0.74kg/m
Environment ★RoHS Compliant ★Green Procurement
●Please select Bracket from SF30 Series.

Name	SF Light30·30 (ℓ=4000)	SF Light30·30 ℓ=50~4000
Item No.	★SFF-L32	★SFF-L34

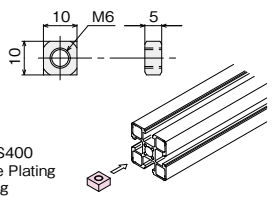
Frame Cap 3030



Material/Polyamide
Color/Black
Weight/2.3g

Name	Frame Cap 3030
Item No.	★SFA-001

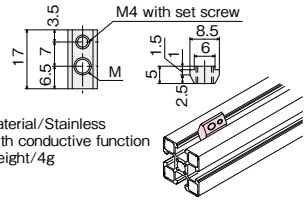
Square Nut M6



Material/SS400
Uni-Chrome Plating
Weight/2.7g

Name	Square Nut M6
Item No.	★SFB-202

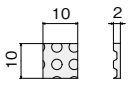
Lock Nut C(M※)



Material/Stainless
With conductive function
Weight/4g

S Lock Nut C(M5)	S Lock Nut C(M4)	S Lock Nut C(M3)
★SFN-LC5	★SFN-LC4	★SFN-LC3

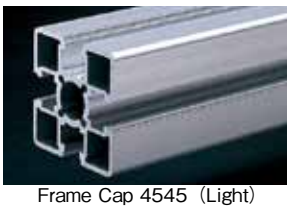
Anti-Skid Sheet L

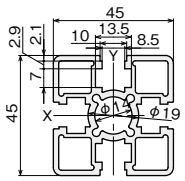


Material/Compressed Urethane
Compatible to Square Nut M6, M8
50 Sheets/1 Pack
Weight/2.9g

Name	Anti-Skid Sheet L
Item No.	★SFA-902

SF Light 45·45



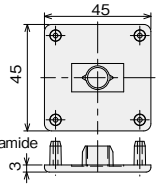


■Material/Technical Data

Material Aluminium Alloy Alumite Treatment
Geometrical Moment of Inertia Ix=11.97×10⁴mm⁴ Iy=11.97×10⁴mm⁴
Section Modulus Zx=5.32×10³mm³ Zy=5.32×10³mm³
Unit Mass 1.65kg/m
Environment ★RoHS Compliant ★Green Procurement
●Please select Bracket from SF40·45 Series.

Name	SF Light 45·45 (ℓ=4000)	SF Light 45·45 ℓ=50~4000
Item No.	★SFF-L42	★SFF-L44

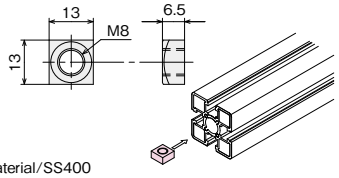
Frame Cap 4545 (Light)



Material/Polyamide
Color/Black
Weight/7.9g

Name	Frame Cap 4545 (Light)
Item No.	★SFA-022

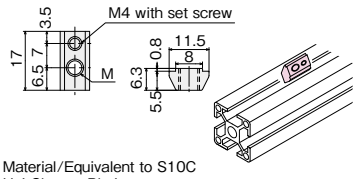
Square Nut M8



Material/SS400
Uni-Chrome Plating
Weight/5.5g

Name	Square Nut M8
Item No.	★SFB-204

Lock Nut S(M※)

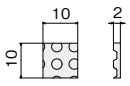


Material/Equivalent to S10C
Uni-Chrome Plating
Weight/7.0g

Lock Nut S(M6) ⟨S Lock Nut S(M6)⟩	Lock Nut S(M5) ⟨S Lock Nut S(M5)⟩	Lock Nut S(M4) ⟨S Lock Nut S(M4)⟩	Lock Nut S(M3) ⟨S Lock Nut S(M3)⟩
★SFB-4B6 ★⟨SFN-LS6⟩	★SFB-4B5 ★⟨SFN-LS5⟩	★SFB-4B4 ★⟨SFN-LS4⟩	★SFB-4B3 ★⟨SFN-LS3⟩

⟨S Lock Nut S⟩: Stainless With conductive function

Anti-Skid Sheet L



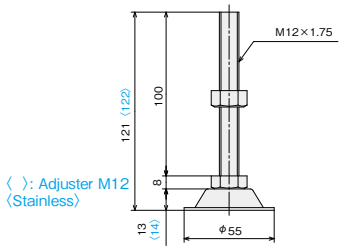
Material/Compressed Urethane
Compatible to Square Nut M6, M8
50 Sheets/1 Pack
Weight/2.9g

Name	Anti-Skid Sheet L
Item No.	★SFA-902

Complex Parts

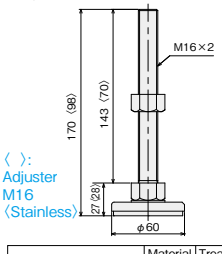
Adjuster・Foot as Single Item

Adjuster M12
Adjuster M12〈Stainless〉

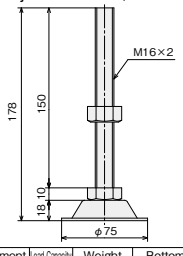


	Material	Treatment	Load Capacity	Weight
Adjuster M12	SS400	Uni-Chrome Plating	500kg	169g
Adjuster M12〈Stainless〉	SUS304	Electropolishing	300kg	165g

Adjuster M16
Adjuster M16S〈short〉

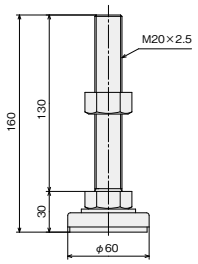


Adjuster BM16
Adjuster BM16〈Stainless〉

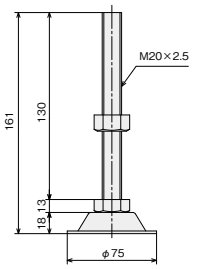


	Material	Treatment	Load Capacity	Weight	Bottom
Adjuster M16·M16〈short〉	SS400	Zn Black	500kg	386g (240g)	Neo Prene Rubber
Adjuster BM16	SS400	Uni-Chrome Plating	560kg	375g	SPCC
Adjuster BM16〈Stainless〉	SUS304	Electropolishing	560kg	375g	SUS304

Adjuster M20



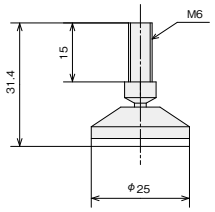
Adjuster BM20〈Stainless〉



	Material	Treatment	Load Capacity	Weight	Bottom
Adjuster M20	SS400	Zn Black	500kg	536g	Neo Prene Rubber
Adjuster BM20〈Stainless〉	SUS304	Electropolishing	880kg	540g	SUS304

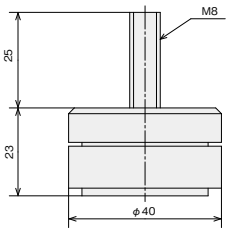
Name	Adjuster M12	Adjuster M12〈Stainless〉	Adjuster M16	Adjuster M16S〈Short〉	Adjuster BM16	Adjuster BM16〈Stainless〉	Adjuster M20	Adjuster BM20〈Stainless〉
Item No.	SFK-584	SFK-584U	SFK-596	SFK-596S	SFK-589	SFK-589S	SFK-599	SFK-598S

Foot M6



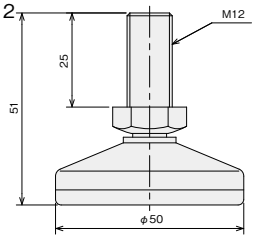
Material/Axis: Low-Carbon Steel Wire Rod Bottom:Polyamide Load capacity/30kg Weight/11g

Foot M8



Material/Axis: Low-Carbon Steel Wire Rod Bottom:Polyamide Load capacity/80kg Weight/35g

Foot M12



Material/Axis: Low-Carbon Steel Wire Rod Bottom:Polyamide Load capacity/100kg Weight/71g

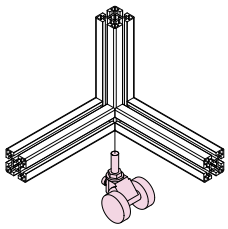
Name	Foot M6	Foot M8	Foot M12
Item No.	SFA-601	SFA-602	SFA-603



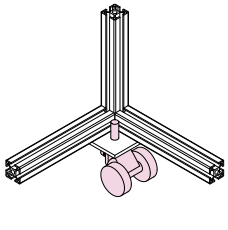
Example of order
Parts
How to order
Item No. SFK-584
Quantity (pcs) □□

Caster Pad

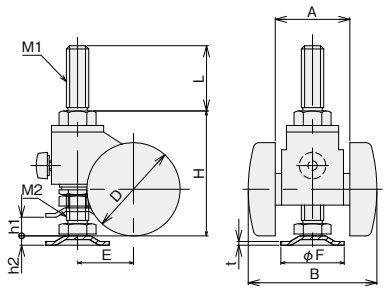




●Install to Fram's end face



●Install to Adjuster Plate



Name	Caster Pad φ50-M12	Caster Pad φ75-M16
Item No.	SFA-703	SFA-704

■Dimension Table

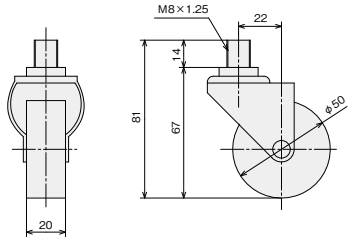
	D	H	h1	h2	E	F	A	B	L	t	M1	M2	Load Capacity (N)
Caster Pad φ50-M12	50	67	10	5	30	34	40	69	35	2	M12	M12	588
Caster Pad φ75-M16	75	95	24	5	35	42	50	84	35	2	M16	M12	1176

■Material/Technical Data

Material	Nylon(Black)(Caster) Equivalent to SS400 Uni-Chrome(Adjuster-Bolt)
Weight	253g(φ50) 392g(φ75)
Environment	**RoHS** Compliant **Green** Procurement

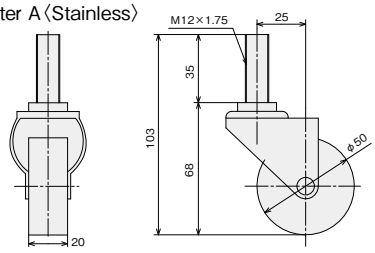
Caster as Single Item

Caster M8



Material/Rubber Load Capacity/30kg With Brake Available
Weight/154g(165g with Brake)

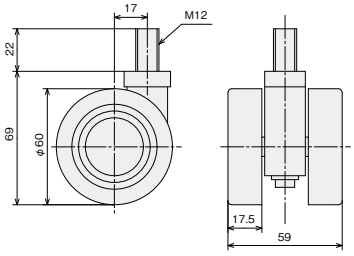
Caster A
Caster A〈Stainless〉



	Material	Load Capacity	Weight
Caster A	Rubber	30kg	189g(223g)
Caster A〈Stainless〉	Nylon	40.8kg	147g(175g)

( ) : with Brake

Double-Wheel Casters M12



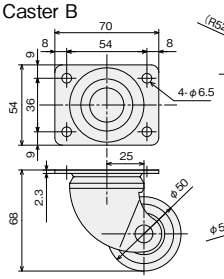
Material/Nylon Load Capacity/150kg With Brake Available
Weight/210g(219g with Brake)

Name	Caster M8	Caster M8 with Brake
Item No.	SFA-701	SFA-702

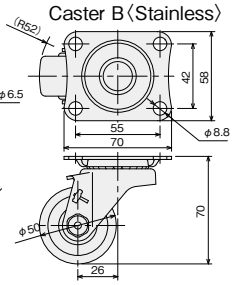
Caster A	Caster A with Brake	Caster A〈Stainless〉	Caster A with Brake(Stainless)
SFK-582	SFK-583	SFK-582S	SFK-583S

Double-Wheel Casters M12	Double-Wheel Casters M12 with Brake
TY60-12	TY60-12S

Caster B

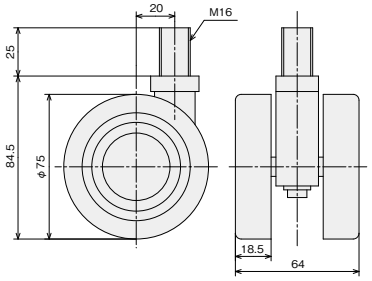


Caster B〈Stainless〉



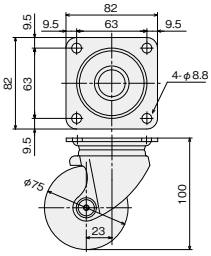
	Material	Load Capacity	Weight
Caster B	Phenol Resin	150kg	340g
Caster B(Stainless)	Phenol Resin	71.4kg	285g

Double-Wheel Casters M16

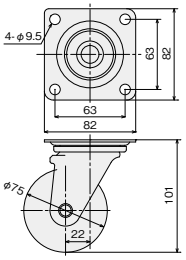


Material/Nylon Load Capacity/170kg Only with Brake Weight/291g

Caster C



Caster C〈Stainless〉



	Material	Load Capacity	Weight
Caster C	Nylon	300kg	902g
Caster C(Stainless)	MC Nylon	150kg	520g

Name	Caster B	Caster B〈Stainless〉
Item No.	SFK-595	SFK-595S

Double-Wheel Casters M16 with Brake
TY75-16S

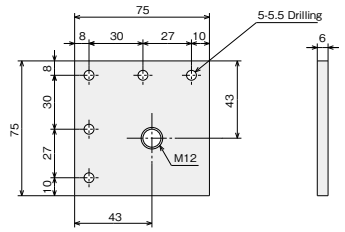
Caster C	Caster C〈Stainless〉
SFK-594	SFK-594S

Complex Parts

Adjuster・Caster Plate as Single Item

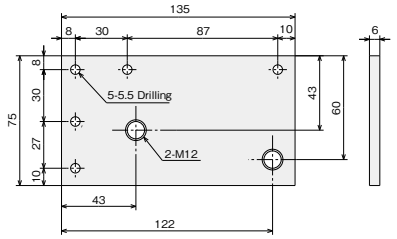
■Environment ★RoHS Compliant ★Green Procurement

Adjuster Plate SS



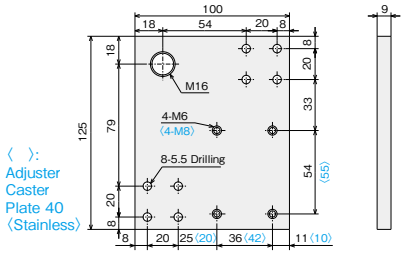
	Material	Treatment	Weight
Adjuster Plate SS	SS400	Uni-Chrome Plating	0.24kg
Adjuster Plate SS〈Stainless〉	SUS304	—	0.24kg

Adjuster Caster Plate SS



	Material	Treatment	Weight
Adjuster Caster Plate SS	SS400	Uni-Chrome Plating	0.45kg
Adjuster Caster Plate SS〈Stainless〉	SUS304	—	0.45kg

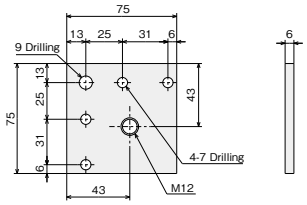
Adjuster Caster Plate 40



	Material	Treatment	Weight
Adjuster Caster Plate 40	SS400	Uni-Chrome Plating	0.82kg
Adjuster Caster Plate 40〈Stainless〉	SUS304	—	0.83kg

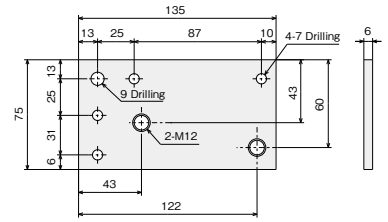
Name	Adjuster Plate SS	Adjuster Plate SS〈Stainless〉	Adjuster Caster Plate SS	Adjuster Caster Plate SS〈Stainless〉	Adjuster Caster Plate 40	Adjuster Caster Plate 40〈Stainless〉
Item No.	★SFK-570A	★SFK-570S	★SFK-575A	★SFK-575S	★SFK-576A	★SFK-576S

Adjuster Plate S



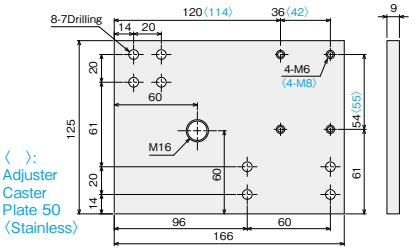
	Material	Treatment	Weight
Adjuster Plate S	SS400	Uni-Chrome Plating	0.24kg
Adjuster Plate S〈Stainless〉	SUS304	—	0.24kg

Adjuster Caster Plate S



	Material	Treatment	Weight
Adjuster Caster Plate S	SS400	Uni-Chrome Plating	0.44kg
Adjuster Caster Plate S〈Stainless〉	SUS304	—	0.44kg

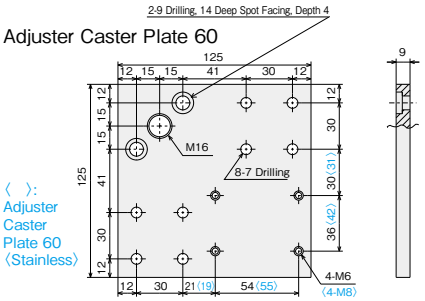
Adjuster Caster Plate 50



	Material	Treatment	Weight
Adjuster Caster Plate 50	SS400	Uni-Chrome Plating	1.03kg
Adjuster Caster Plate 50〈Stainless〉	SUS304	—	1.04kg

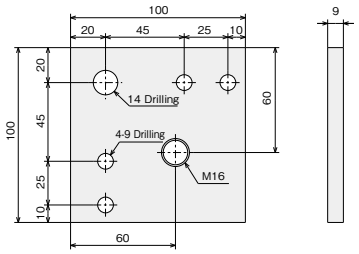
Name	Adjuster Plate S	Adjuster Plate S〈Stainless〉	Adjuster Caster Plate S	Adjuster Caster Plate S〈Stainless〉	Adjuster Caster Plate50	Adjuster Caster Plate50〈Stainless〉
Item No.	★SFK-580A	★SFK-580S	★SFK-581A	★SFK-581S	★SFJ-7B1	★SFJ-7B1S

Adjuster Caster Plate 60



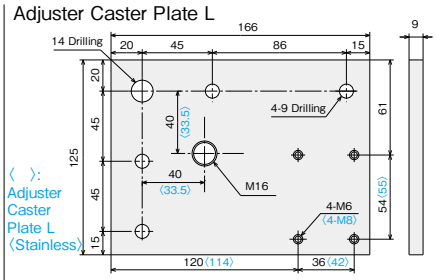
	Material	Treatment	Weight
Adjuster Caster Plate 60	SS400	Uni-Chrome Plating	1.03kg
Adjuster Caster Plate 60〈Stainless〉	SUS304	—	1.04kg

Adjuster Plate L



	Material	Treatment	Weight
Adjuster Plate L	SS400	Uni-Chrome Plating	0.65kg
Adjuster Plate L〈Stainless〉	SUS304	—	0.66kg

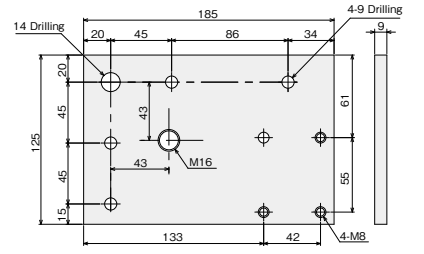
Adjuster Caster Plate L



	Material	Treatment	Weight
Adjuster Caster Plate L	SS400	Uni-Chrome Plating	1.03kg
Adjuster Caster Plate L〈Stainless〉	SUS304	—	1.04kg

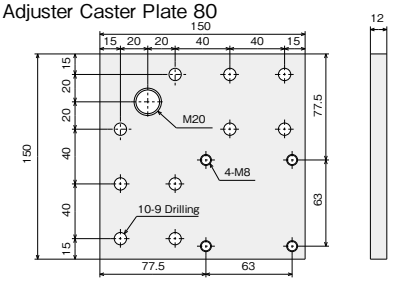
Name	Adjuster Caster Plate 60	Adjuster Caster Plate 60〈Stainless〉	Adjuster Plate L	Adjuster Plate L〈Stainless〉	Adjuster Caster Plate L	Adjuster Caster Plate L〈Stainless〉
Item No.	★SFK-592A	★SFK-592S	★SFK-590A	★SFK-590S	★SFK-591A	★SFK-591S

Adjuster Caster Plate L60〈Stainless〉



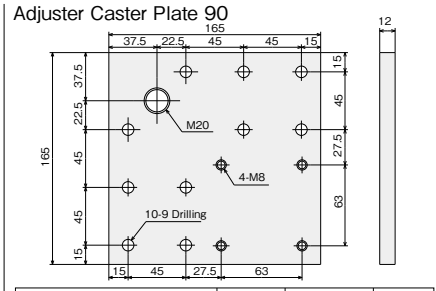
	Material	Treatment	Weight
Adjuster Caster Plate L60〈Stainless〉	SUS304	—	1.54kg

Adjuster Caster Plate 80



	Material	Treatment	Weight
Adjuster Caster Plate 80	SS400	Uni-Chrome Plating	2.0kg
Adjuster Caster Plate 80〈Stainless〉	SUS304	—	2.02kg

Adjuster Caster Plate 90



	Material	Treatment	Weight
Adjuster Caster Plate 90	SS400	Uni-Chrome Plating	2.5kg
Adjuster Caster Plate 90〈Stainless〉	SUS304	—	2.53kg

Name	Adjuster Caster Plate L60〈Stainless〉	Adjuster Caster Plate 80	Adjuster Caster Plate 80〈Stainless〉	Adjuster Caster Plate 90	Adjuster Caster Plate 90〈Stainless〉
Item No.	★SFJ-7C1S	★SFK-593A	★SFK-593S	★SFK-597A	★SFK-597S

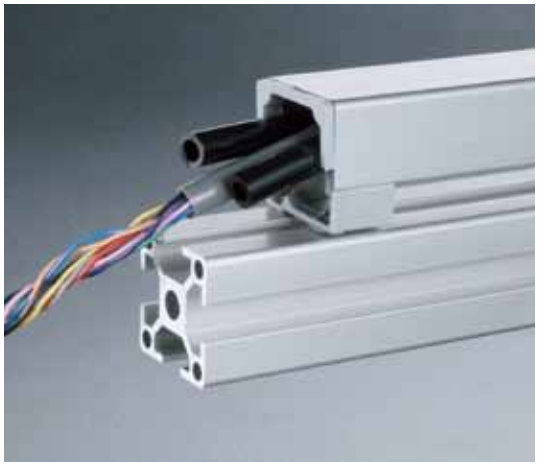
※Please refer P44, 79 and 112 for Caster Plates.

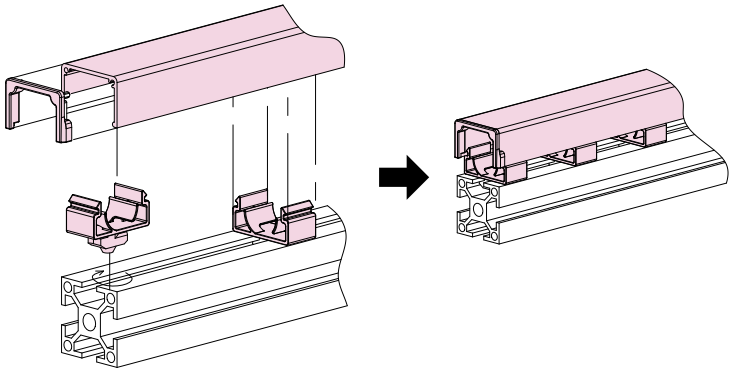
Example of order

How to order

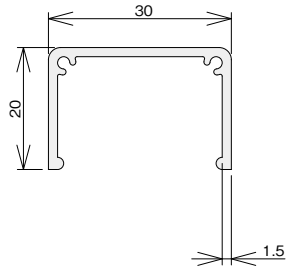
Item No. SFK-570A Quantity (pcs) □□

Duct Cover S

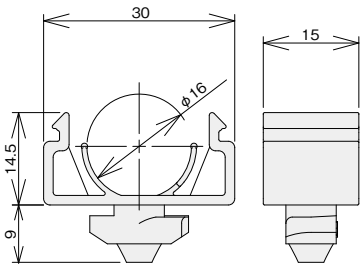




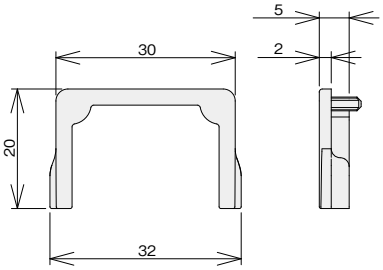
Duct Cover S



Duct Piece S



Duct Cap S

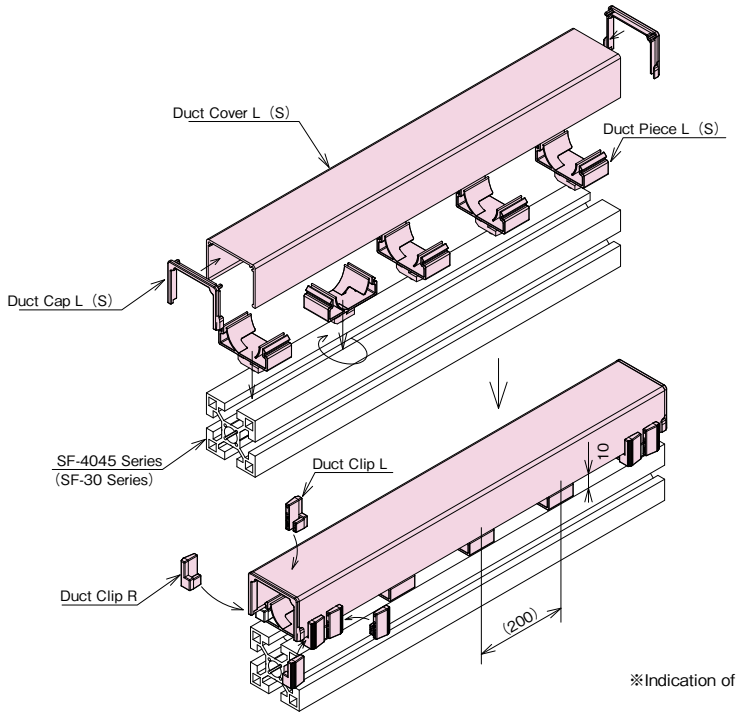


Name	Duct Cover S (ℓ=4000)	Duct Cover S (ℓ=50~4000)
Item No.	SFF-DA2	SFF-DA4

Name	Duct Piece S	Duct Cap S
Item No.	SFA-DAP1	SFA-DAK1

● ℓ=4000 Type is to be cut by customer. Effective range of use ℓ =4000

Example of use Duct Cover

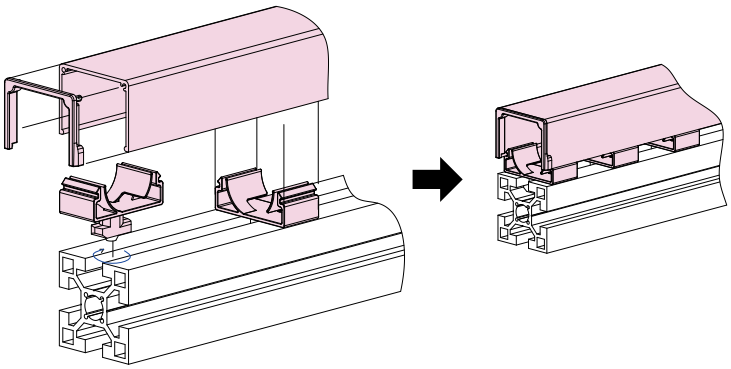


※Indication of the pitch to attach Duct Piece is 200mm.

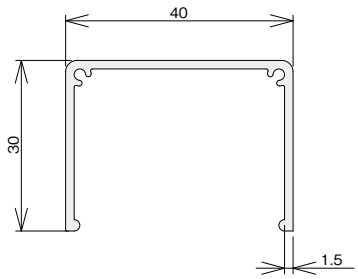
Complex Parts

Duct Cover L

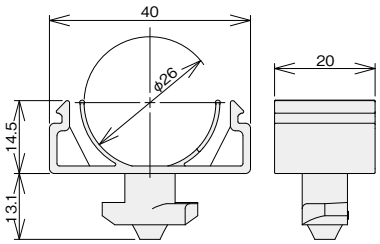




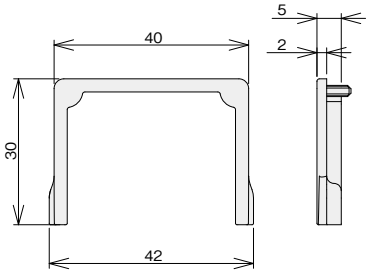
Duct Cover L



Duct Piece L



Duct Cap L



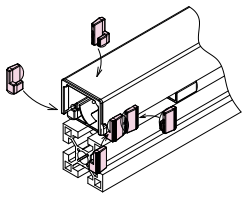
Name	Duct Cover L (ℓ=4000)	Duct Cover L (ℓ=50~4000)
Item No.	SFF-DB2	SFF-DB4

Name	Duct Piece L	Duct Cap L
Item No.	SFA-DBP1	SFA-DBK1

● ℓ=4000 Type is to be cut by customer. Effective range of use ℓ =4000

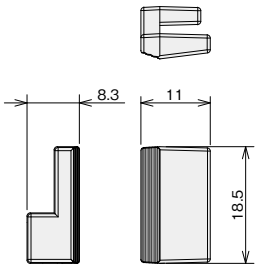
Duct Clip Kit



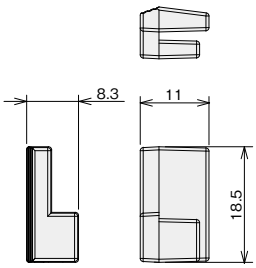


Item to prevent Duct Cover from coming off

Duct Clip L



Duct Clip R



Name	Duct Clip Kit
Item No.	SFK-DACP

■Kit contents
●Duct Clip L×2
●Duct Clip R×2

■Material/Technical Data

	Duct Cover S/L	Duct Piece S/L	Duct Cap S/L	Duct Clip L/R
Material	Aluminium Alloy Alumite Treatment (Special Order : Black Alumite is also available)	Polyamide	Polyamide	Polyamide
Unit Mass	0.29kg/m(S) 0.41kg/m(L)	3.0g(S) 4.5g(L)	0.7g(S) 1.0g(L)	1.0g/pcs
Environment	**RoHS** Compliant **Green** Procurement			

■Usable Frame



〈Duct Cover S〉
Meet with all SF30 Series (Groove Width 8mm)
〈Duct Cover L〉
Meet with all SF4045 Series (Groove Width 10mm)

Example of order

SF Frame

Standard Length (Cut by customer) ℓ=4030·Effective range of use ℓ=4000
Item No. SFF-DB2 Quantity (pcs) □□

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Item No. SFF-DB4 Length (mm) ℓ=800

Parts

How to order
Item No. SFA-DBP1 Quantity (pcs) □□



STANDARD FRAME

Door・Panel

Clean Equipment

Door•Panel Parts Fixed Hinge

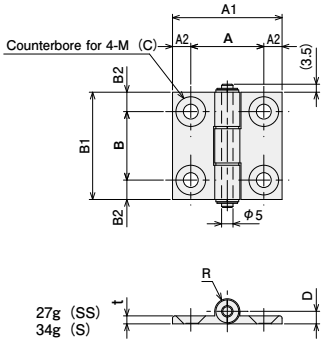
Fixed Hinge



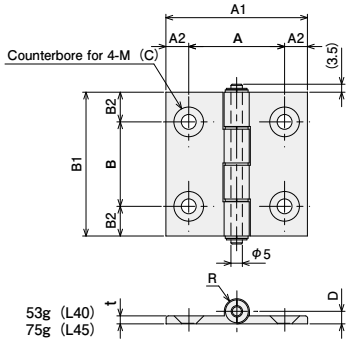
Material/Aluminium Alloy Alumite Treatment

■Environment **RoHS** Compliant **Green** Procurement

Fixed Hinge SS、S series



Fixed Hinge L series



Name	Item No.	A	B	A1	A2	B1	B2	(C)	D	t	R	Indication of the Load (N/Piece)
Fixed Hinge SS	SFA-211	21	25	36	7.5	47	11	5	5	3.5	5	49
Fixed Hinge SS Kit 〈Fixed Hinge SS(Stainless)Kit〉	SFK-211 〈SFK-211S〉											
Fixed Hinge S	SFA-221	32	30	48	8		8.5	6	5.5		5.5	73
Fixed Hinge S Kit 〈Fixed Hinge S (Stainless) Kit〉	SFK-221 〈SFK-221S〉											
Fixed Hinge L40(M6)	SFA-231	42	37	62	10	63	13					
Fixed Hinge L40(M6)Kit 〈Fixed Hinge L40(M6)Stainless Kit〉	SFK-231 〈SFK-231S〉											
Fixed Hinge L45(M6)	SFA-241	47	43	80	16.5		10			4.5		
Fixed Hinge L45(M6)Kit 〈Fixed Hinge L45(M6)Stainless Kit〉	SFK-241 〈SFK-241S〉											

Kit Contents

〈Fixed Hinge SS Kit〉
●Fixed Hinge SS×1
●Hexagon Soket Flat Head Cap Screw(M5×8)×4
●T Nut SS(M5)×4

〈Fixed Hinge S Kit〉
●Fixed Hinge S×1
●Hexagon Soket Flat Head Cap Screw(M6×10)×4
●T Nut S(M6)×4

〈Fixed Hinge L40(M6)Kit〉
●Fixed Hinge L40(M6)×1
●Hexagon Soket Flat Head Cap Screw(M6×12)×4
●T Nut L(M6)×4

〈Fixed Hinge L45(M6)Kit〉
●Fixed Hinge L45(M6)×1
●Hexagon Soket Flat Head Cap Screw(M6×15)×4
●T Nut L(M6)×4

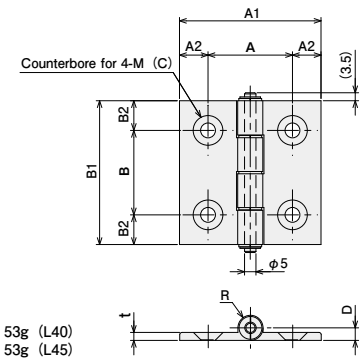
※Bolt and Nut for(Stainless)Kit is stainless.
Bolt of Stainless Kit is small flat screw with cross hole.

Fixed Hinge for Irregular Shape Frame



Material/Aluminium Alloy Alumite Treatment

■Environment **RoHS** Compliant **Green** Procurement



Name	Item No.	A	B	A1	A2	B1	B2	(C)	D	t	R	Indication of the Load (N/Piece)
Fixed Hinge L40-S	SFA-281	37	37	62	12.5	63	13	6	5.5	3.5	5.5	73
Fixed Hinge L40-S Kit 〈Fixed Hinge L40-S (Stainless) Kit〉	SFK-281 〈SFK-281S〉											
Fixed Hinge L45-S	SFA-291	39			11.5							
Fixed Hinge L45-S Kit 〈Fixed Hinge L45-S (Stainless) Kit〉	SFK-291 〈SFK-291S〉											

Kit Contents

〈Fixed Hinge L40-S Kit〉
●Fixed Hinge L40-S×1
●Hexagon Soket Flat Head Cap Screw(M6×10)×2
●Hexagon Soket Flat Head Cap Screw(M6×12)×2
●T Nut L(M6)×2
●T Nut S(M6)×2

〈Fixed Hinge L45-S Kit〉
●Fixed Hinge L45-S×1
●Hexagon Soket Flat Head Cap Screw(M6×10)×2
●Hexagon Soket Flat Head Cap Screw(M6×15)×2
●T Nut L(M6)×2
●T Nut S(M6)×2

※Bolt and Nut for(Stainless)Kit is stainless.
Bolt of Stainless Kit is small flat screw with cross hole.

Parts
How to order
Item No. Quantity (pcs)
SFA-211 □□

Slip-Joint Hinge / Irregular Shape Slip-Joint Hinge



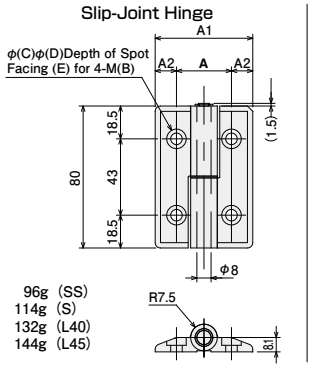
Electroless nickel plating



Acrylic Paint

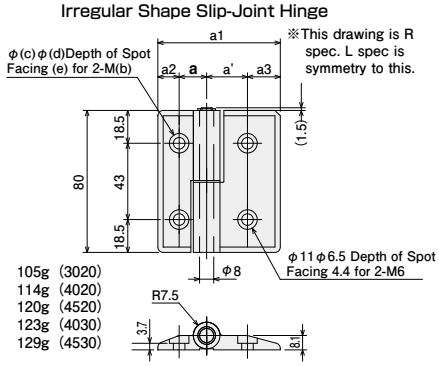
■Environment **RoHS** Compliant **Green** Procurement
■Material Aluminum Die-Casting (ADC12)

Slip-Joint Hinge



96g (SS)
114g (S)
132g (L40)
144g (L45)

Irregular Shape Slip-Joint Hinge



105g (3020)
114g (4020)
120g (4520)
123g (4030)
129g (4530)

Name	Item No. Single Item Electroless Nickel Plating	Item No. Single Item Acrylic Paint	Item No. (Bolt・Nut Kit (Stainless)) Electroless Nickel Plating	Item No. (Bolt・Nut Kit (Stainless)) Acrylic Paint	A	A1	A2	(B)	(C)	(D)	(E)	Indication of the Load (N/Piece)
Slip-Joint Hinge SS-L	SFA-2N2	SFA-2N2P	(SFK-2N2S)	(SFK-2N2P)	26	41	7.5	5	5.5	9.5	4.1	73
Slip-Joint Hinge SS-R	SFA-2N1	SFA-2N1P	(SFK-2N1S)	(SFK-2N1P)								
Slip-Joint Hinge S-L	SFA-2N4	SFA-2N4P	(SFK-2N4S)	(SFK-2N4P)	31	55	12	6	6.5	11	4.4	98
Slip-Joint Hinge S-R	SFA-2N3	SFA-2N3P	(SFK-2N3S)	(SFK-2N3P)								
Slip-Joint Hinge L40-L	SFA-2N6	SFA-2N6P	(SFK-2N6S)	(SFK-2N6P)	41	73	16					
Slip-Joint Hinge L40-R	SFA-2N5	SFA-2N5P	(SFK-2N5S)	(SFK-2N5P)								
Slip-Joint Hinge L45-L	SFA-2N8	SFA-2N8P	(SFK-2N8S)	(SFK-2N8P)	46	83	18.5					
Slip-Joint Hinge L45-R	SFA-2N7	SFA-2N7P	(SFK-2N7S)	(SFK-2N7P)								

Kit Contents

(Slip-Joint Hinge SS-L(R)Kit)
●Slip-Joint Hinge SS-L(R)×1
●Hexagon Socket Low Head Bolt(M5×8)Stainless×4
●ST Nut SS(M5)×4

(Slip-Joint Hinge S-L(R)Kit)
●Slip-Joint Hinge S-L(R)×1
●Hexagon Socket Low Head Bolt(M6×12)Stainless×4
●ST Nut S(M6)×4

(Slip-Joint Hinge L40-L(R)Kit)
●Slip-Joint Hinge L40-L(R)×1
●Hexagon Socket Low Head Bolt(M6×15)Stainless×4
●ST Nut L(M6)×4

(Slip-Joint Hinge L45-L(R)Kit)
●Slip-Joint Hinge L45-L(R)×1
●Hexagon Socket Low Head Bolt(M6×15)Stainless×4
●ST Nut L(M6)×4

Name	Item No. Single Item Electroless Nickel Plating	Item No. Single Item Acrylic Paint	Item No. (Bolt・Nut Kit (Stainless)) Electroless Nickel Plating	Item No. (Bolt・Nut Kit (Stainless)) Acrylic Paint	a	a'	a1	a2	a3	(b)	(c)	(d)	(e)	Indication of the Load (N/Piece)
Slip-Joint Hinge 3020-L	SFA-2D2	SFA-2D2P	(SFK-2D2S)	(SFK-2D2P)	13	15.5	48	7.5	12	5	5.5	9.5	4.1	73
Slip-Joint Hinge 3020-R	SFA-2D1	SFA-2D1P	(SFK-2D1S)	(SFK-2D1P)										
Slip-Joint Hinge 4020-L	SFA-2D4	SFA-2D4P	(SFK-2D4S)	(SFK-2D4P)		20.5	57		16					
Slip-Joint Hinge 4020-R	SFA-2D3	SFA-2D3P	(SFK-2D3S)	(SFK-2D3P)										
Slip-Joint Hinge 4520-L	SFA-2D6	SFA-2D6P	(SFK-2D6S)	(SFK-2D6P)		23	62		18.5					
Slip-Joint Hinge 4520-R	SFA-2D5	SFA-2D5P	(SFK-2D5S)	(SFK-2D5P)										
Slip-Joint Hinge 4030-L	SFA-2E2	SFA-2E2P	(SFK-2E2S)	(SFK-2E2P)	15.5	20.5	64	12	16	6	6.5	11	4.4	98
Slip-Joint Hinge 4030-R	SFA-2E1	SFA-2E1P	(SFK-2E1S)	(SFK-2E1P)										
Slip-Joint Hinge 4530-L	SFA-2E4	SFA-2E4P	(SFK-2E4S)	(SFK-2E4P)		23	69		18.5					
Slip-Joint Hinge 4530-R	SFA-2E3	SFA-2E3P	(SFK-2E3S)	(SFK-2E3P)										

Kit Contents

(Slip-Joint Hinge 3020-L(R)Kit)
●Slip-Joint Hinge 3020-L(R)×1
●Hexagon Socket Low Head Bolt(M5×8)Stainless×2
●Hexagon Socket Low Head Bolt(M6×12)Stainless×2
●ST Nut SS(M5)×2
●ST Nut S(M6)×2

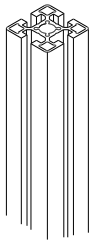
(Slip-Joint Hinge 4020-L(R)Kit)
●Slip-Joint Hinge 4020-L(R)×1
●Hexagon Socket Low Head Bolt(M5×8)Stainless×2
●Hexagon Socket Low Head Bolt(M6×15)Stainless×2
●ST Nut SS(M5)×2
●ST Nut L(M6)×2

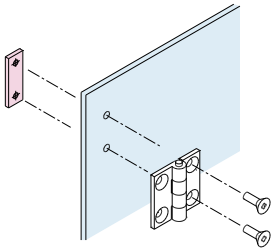
(Slip-Joint Hinge 4520-L(R)Kit)
●Slip-Joint Hinge 4520-L(R)×1
●Hexagon Socket Low Head Bolt(M5×8)Stainless×2
●Hexagon Socket Low Head Bolt(M6×15)Stainless×2
●ST Nut SS(M5)×2
●ST Nut L(M6)×2

(Slip-Joint Hinge 4030-L(R)Kit)
●Slip-Joint Hinge 4030-L(R)×1
●Hexagon Socket Low Head Bolt(M6×12)Stainless×2
●Hexagon Socket Low Head Bolt(M6×15)Stainless×2
●ST Nut S(M6)×2
●ST Nut L(M6)×2

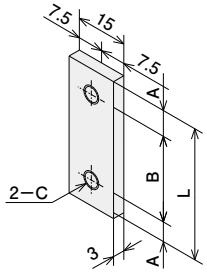
(Slip-Joint Hinge 4530-L(R)Kit)
●Slip-Joint Hinge 4530-L(R)×1
●Hexagon Socket Low Head Bolt(M6×12)Stainless×2
●Hexagon Socket Low Head Bolt(M6×15)Stainless×2
●ST Nut S(M6)×2
●ST Nut L(M6)×2

Plate Nut for Fixed Hinge





※Use it when the door is resin panel.



■Material/Technical Data

Material	Stainless
Weight	13g(SS)
	16g(S)
	20g(L40)
	22g(L45)
Environment	**RoHS** Compliant
	Green Procurement

Name	Item No.	A	B	L	C
Plate Nut for SS Hinge	SFB-303	7.5	25	40	M5
Plate Nut for S Hinge	SFB-304		30	45	M6
Plate Nut for L40 Hinge	SFB-305	9	37	55	
Plate Nut for L45 Hinge	SFB-306	10	43	63	

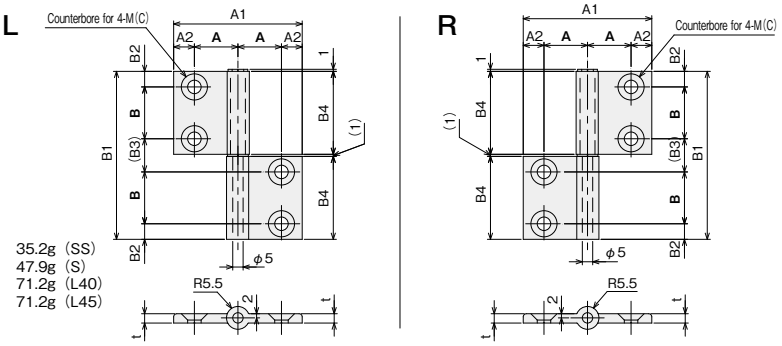
Door•Panel Parts Free Hinge

Free Hinge L and R * Seperatable



Material/Aluminium Alloy Alumite Treatment

■Environment **RoHS** Compliant **Green** Procurement



Name	Item No.			A	B	A1	A2	B1	B2	B3	B4	(C)	t	Indication of the Load (N/Piece)
	Single Item	Bolt・Nut Kit	Bolt·Nut(Stainless)Kit											
Free Hinge SS-L	SFA-21L	〈SFK-21L〉	〔SFK-21LS〕	16	20	48	8	71	7.5	16	35	5	4	49
Free Hinge SS-R	SFA-21R	〈SFK-21R〉	〔SFK-21RS〕											
Free Hinge S-L	SFA-22L	〈SFK-22L〉	〔SFK-22LS〕	21	25	62	10	81			40	6	4.5	73
Free Hinge S-R	SFA-22R	〈SFK-22R〉	〔SFK-22RS〕											
Free Hinge L40(M6)-L	SFA-23L	〈SFK-23L〉	〔SFK-23LS〕	26	30	80	14	101	10	21	50			
Free Hinge L40(M6)-R	SFA-23R	〈SFK-23R〉	〔SFK-23RS〕											
Free Hinge L45(M6)-L	SFA-24L	〈SFK-24L〉	〔SFK-24LS〕	28.5			11.5							
Free Hinge L45(M6)-R	SFA-24R	〈SFK-24R〉	〔SFK-24RS〕											

Kit Contents

〈Free Hinge SS-L(R)Kit〉
●Free Hinge SS-L(R)×1
●Cross-Recessed Small Flat Screw(M5×8)×4
●T Nut SS(M5)×4

〈Free Hinge S-L(R)Kit〉
●Free Hinge S-L(R)×1
●Cross-Recessed Small Flat Screw(M6×12)×4
●T Nut S(M6)×4

〈Free Hinge L40(M6)-L(R)Kit〉
●Free Hinge L40(M6)-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×4
●T Nut L(M6)×4

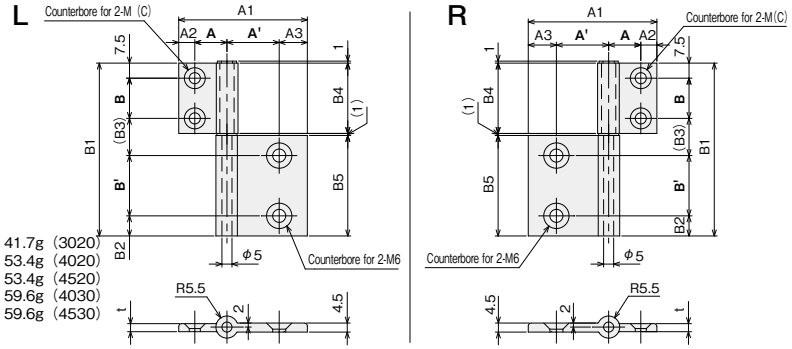
〈Free Hinge L45(M6)-L(R)Kit〉
●Free Hinge L45(M6)-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×4
●T Nut L(M6)×4

※Bolt and Nut for [Bolt·Nut (Stainless) Kit] is stainless.

Irregular Shape Free Hinge L and R * Seperatable



■Environment **RoHS** Compliant **Green** Procurement



Name	Item No.			A	A'	B	B'	A1	A2	A3	B1	B2	B3	B4	B5	(C)	t	Indication of the Load (N/Piece)
	Single Item	Bolt·Nut Kit	Bolt·Nut(Stainless)Kit															
Free Hinge 3020-L	SFA-25L	〈SFK-25L〉	〔SFK-25LS〕	16	21	20	25	55	8	10	76	7.5	16	35	40	5	4	49
Free Hinge 3020-R	SFA-25R	〈SFK-25R〉	〔SFK-25RS〕															
Free Hinge 4020-L	SFA-26L	〈SFK-26L〉	〔SFK-26LS〕		26		30	64		14	86	10	18.5		50			
Free Hinge 4020-R	SFA-26R	〈SFK-26R〉	〔SFK-26RS〕															
Free Hinge 4520-L	SFA-27L	〈SFK-27L〉	〔SFK-27LS〕		28.5					11.5								
Free Hinge 4520-R	SFA-27R	〈SFK-27R〉	〔SFK-27RS〕															
Free Hinge 4030-L	SFA-28L	〈SFK-28L〉	〔SFK-28LS〕	21	26	25		71	10	14	91			40		6	4.5	73
Free Hinge 4030-R	SFA-28R	〈SFK-28R〉	〔SFK-28RS〕															
Free Hinge 4530-L	SFA-29L	〈SFK-29L〉	〔SFK-29LS〕		28.5					11.5								
Free Hinge 4530-R	SFA-29R	〈SFK-29R〉	〔SFK-29RS〕															

Kit Contents

〈Free Hinge 3020-L(R)Kit〉
●Free Hinge 3020-L(R)×1
●Cross-Recessed Small Flat Screw(M6×12)×2
●Cross-Recessed Small Flat Screw(M5×8)×2
●T Nut S(M6)×2
●T Nut SS(M5)×2

〈Free Hinge 4020-L(R)Kit〉
●Free Hinge 4020-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×2
●Cross-Recessed Small Flat Screw(M5×8)×2
●T Nut L(M6)×2
●T Nut SS(M5)×2

〈Free Hinge 4520-L(R)Kit〉
●Free Hinge 4520-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×2
●Cross-Recessed Small Flat Screw(M5×8)×2
●T Nut L(M6)×2
●T Nut SS(M5)×2

〈Free Hinge 4030-L(R)Kit〉
●Free Hinge 4030-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×2
●Cross-Recessed Small Flat Screw(M6×12)×2
●T Nut L(M6)×2
●T Nut S(M6)×2

〈Free Hinge 4530-L(R)Kit〉
●Free Hinge 4530-L(R)×1
●Cross-Recessed Small Flat Screw(M6×15)×2
●Cross-Recessed Small Flat Screw(M6×12)×2
●T Nut L(M6)×2
●T Nut S(M6)×2

※Bolt and Nut for [Bolt·Nut (Stainless) Kit] is stainless.

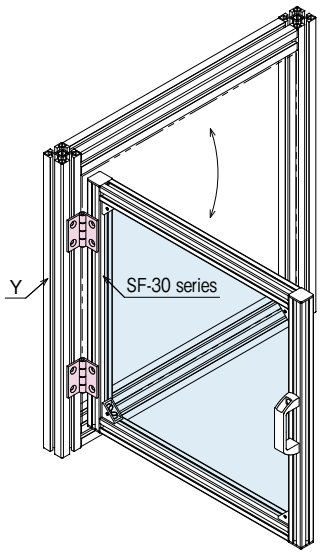
Parts How to order

Example of order

Item No. SFA-21L Quantity (pcs) □□

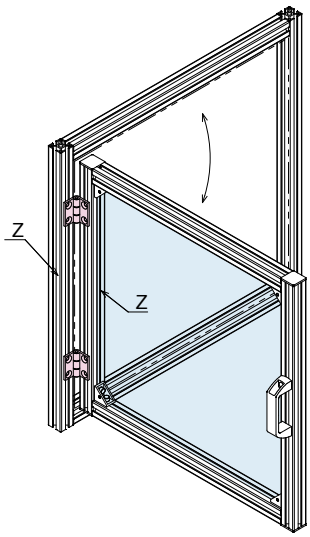
Choice of Fixed Hinge

In case door-side frame is SF30 series and the body frame is SF40 or 45 series.



Y	Fixed Hinge Name	Item No.
SF-40 series	Fixed Hinge L40-S	SFA-281
SF-45 series	Fixed Hinge L45-S	SFA-291

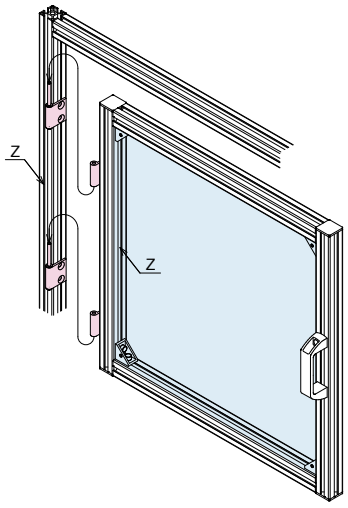
In case frames at door and body are the same series.



Z	Fixed Hinge Name	Item No.
SF-20 series	Fixed Hinge SS	SFA-211
SF-30 series	Fixed Hinge S	SFA-221
SF-40 series	Fixed Hinge L40 (M6)	SFA-231
SF-45 series	Fixed Hinge L45 (M6)	SFA-241

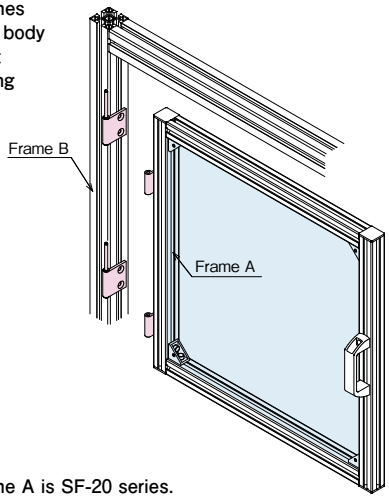
Choice of Free Hinge and Slip-Joint Hinge

In case frames at door and body are the same series. (This drawing is L type)



Z	Hinge Name	Item No.
SF-20 series	Free Hinge SS-L(R)	SFA-21L(SFA-21R)
	Slip-Joint Hinge SS-L(R)	SFA-2N2(SFA-2N1)
SF-30 series	Free Hinge S-L(R)	SFA-22L(SFA-22R)
	Slip-Joint Hinge S-L(R)	SFA-2N4(SFA-2N3)
SF-40 series	Free Hinge L40(M6)-L(R)	SFA-23L(SFA-23R)
	Slip-Joint Hinge L40-L(R)	SFA-2N6(SFA-2N5)
SF-45 series	Free Hinge L45(M6)-L(R)	SFA-24L(SFA-24R)
	Slip-Joint Hinge L45-L(R)	SFA-2N8(SFA-2N7)

In case frames at door and body are different (This drawing is L type)



In case frame A is SF-20 series.

Frame B	Hinge Name	Item No.
SF-30 series	Free Hinge 3020-L(R)	SFA-25L(SFA-25R)
	Slip-Joint Hinge 3020-L(R)	SFA-2D2(SFA-2D1)
SF-40 series	Free Hinge 4020-L(R)	SFA-26L(SFA-26R)
	Slip-Joint Hinge 4020-L(R)	SFA-2D4(SFA-2D3)
SF-45 series	Free Hinge 4520-L(R)	SFA-27L(SFA-27R)
	Slip-Joint Hinge 4520-L(R)	SFA-2D6(SFA-2D5)

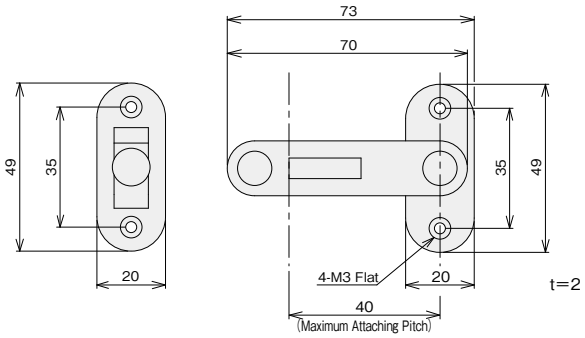
In case frame A is SF-30 series.

Frame B	Hinge Name	Item No.
SF-40 series	Free Hinge 4030-L(R)	SFA-28L(SFA-28R)
	Slip-Joint Hinge 4030-L(R)	SFA-2E2(SFA-2E1)
SF-45 series	Free Hinge 4530-L(R)	SFA-29L(SFA-29R)
	Slip-Joint Hinge 4530-L(R)	SFA-2E4(SFA-2E3)

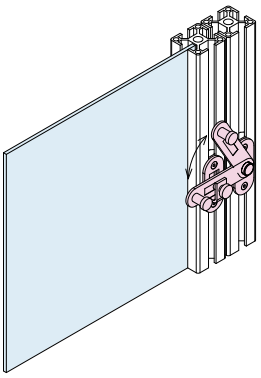
Door•Panel Parts Free Size Hinge

Door Lock



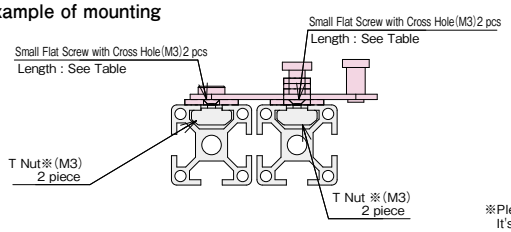


■Material Stainless SUS304
■Weight 54.9g
■Environment **RoHS** Compliant **Green** Procurement



Name	Stainless Door Lock
Item No.	SFA-3A1

Example of mounting



Frame	Screw Length(mm)
□For 20	6
□For 30	8

※Please select by the Frame Shape.
It's usable with Lock Nut as well.

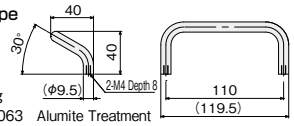
Parts
How to order
Item No. Quantity (pcs)
SFA-3A1 □□

Pull



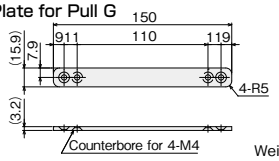
■Weight Refer Drawing
■Environment ★RoHS Compliant
Green Procurement

Pull G Type



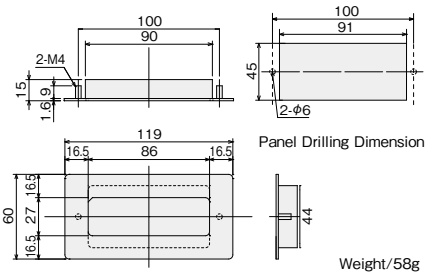
Weight/43g
Material/A6063 Alumite Treatment

Setting Plate for Pull G



※Pull G can be attached from the surface.
Material/A6063 Alumite Treatment Weight/20g

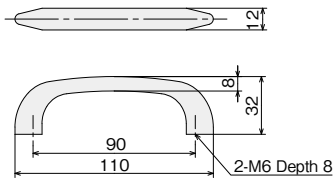
Inner Pull



Material/SUS304 Weight/58g
※With 2 M4 Nuts

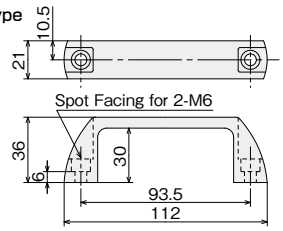
Name	Pull G Type	Setting Plate for Pull G	Inner Pull
Item No.	★SFA-305	★SFA-306	★SFA-307

Pull A Type



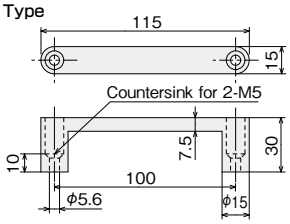
Material/Polycarbonate Black Weight/19g

Pull B Type



Material/Glass Fiber Reinforced Nylon Black Weight/30g
Attaching Bolt for M6

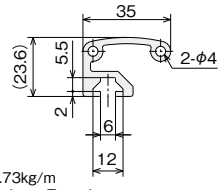
Pull C Type



Material/ZDC Satelite Chromeplating Weight/101g
Flat-Head Screw for M5

Name	Pull A Type	Pull B Type	Pull C Type
Item No.	★SFA-301	★SFA-302	SFA-304

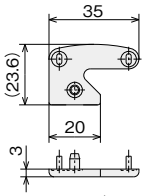
Pull Rail



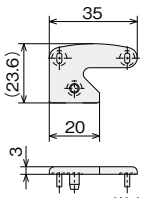
Unit Mass/0.73kg/m
Material/Aluminum Extrusion
Treatment/Alumite Treatment Usable Nut/SS Size(P30)

With Pull Rail Cap

With Pull Rail Cap A

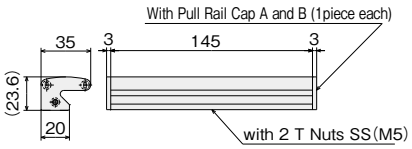


With Pull Rail Cap B



Material/Polyamide(Light Gray) Weight/2g

Pull D Type

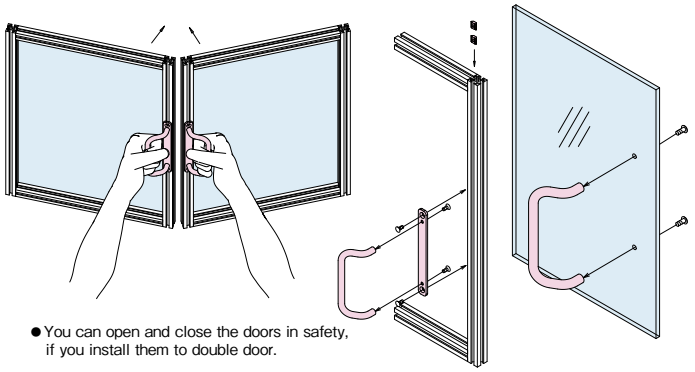


Weight/112g
※With 2 Slip Stoppers

Name	Pull Rail(ℓ=4000) (4M)	Pull Rail(ℓ=4000) (2M)	Pull Rail(ℓ=50~4000)	Pull Rail Cap A	Pull Rail Cap B	Pull D Type
Item No.	★SFF-T05	★SFF-T02	★SFF-T04	★SFA-390	★SFA-391	★SFK-701

●Handle Rail Cut Length 4M: ℓ=(4030mm)
It's material to be cut by customer
Effective use area ℓ=4000mm

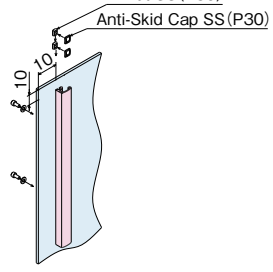
How to install Pull G



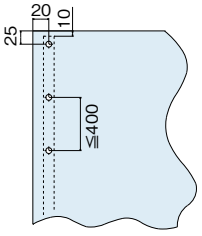
●You can open and close the doors in safety, if you install them to double door.

How to install Pull Rail

〈Pull Rail〉



〈Indication of Panel Processing Dimension〉



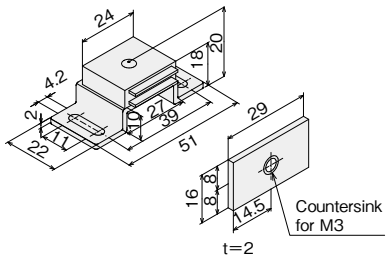
●It's effective to reinforce or to prevent flexure, when a door is constructed only by Resin Plate.

SF Door·Panel Parts Magnet Catch

Magnet Catch N (For Frame Rim Door)



Magnet Catch N(Adsorbability:29.4N)



Name	Magnet Catch N
Item No.	SFA-40A

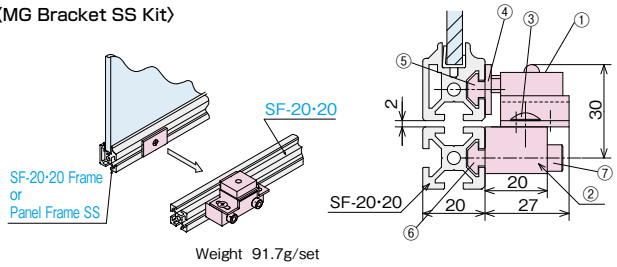
■Material/Technical Data

	Magnet Catch Housing	Magnet	MG Bracket
Material	Stainless Dark Brown Painting	Ferrite	Aluminum
Weight	35g(Magnet Catch N)		

■In case of Door Frame □20mm (Include Panel Frame)

Door Frame □20mm· Body Frame □20mm

〈MG Bracket SS Kit〉

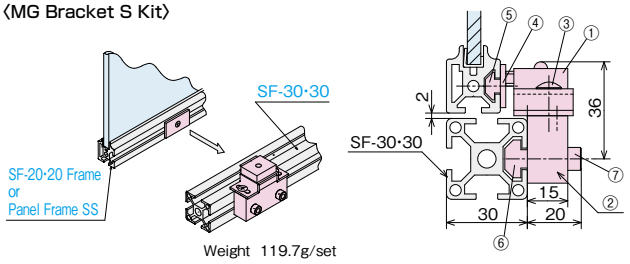


Name	MG Bracket SS Kit
Item No.	SFK-4AA

Kit Contents
①Magnet Catch N×1
②MG Bracket SS×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×6)×1
⑤T Nut SS M3×1
⑥T Nut SS M5×2
⑦Hexagon Socket Bolt (M5×25)×2

Door Frame □20mm· Body Frame □30mm

〈MG Bracket S Kit〉

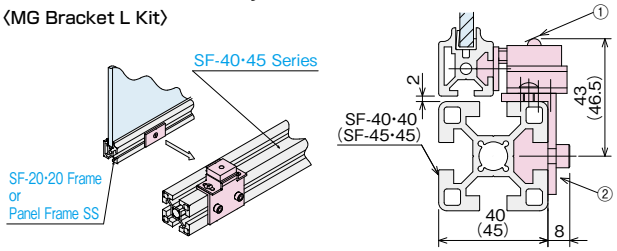


Name	MG Bracket S Kit
Item No.	SFK-4AB

Kit Contents
①Magnet Catch N×1
②MG Bracket S×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×6)×1
⑤T Nut SS M3×1
⑥T Nut S M5×2
⑦Hexagon Socket Bolt (M5×22)×2

Door Frame □20mm· Body Frame □40mm·□45mm

〈MG Bracket L Kit〉

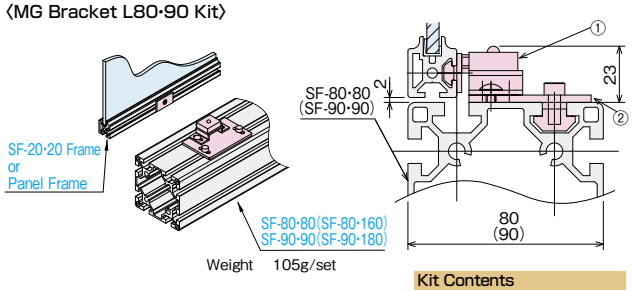


Name	MG Bracket L Kit
Item No.	SFK-4AC

Kit Contents
①Magnet Catch N×1
②MG Bracket L×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×6)×1
⑤T Nut SS M3×1
⑥T Nut L M5×2
⑦Hexagon Socket Bolt (M5×15)×2

Door Frame □20mm· Body Frame □80mm (2 lines of grooves) ·□90mm

〈MG Bracket L80·90 Kit〉



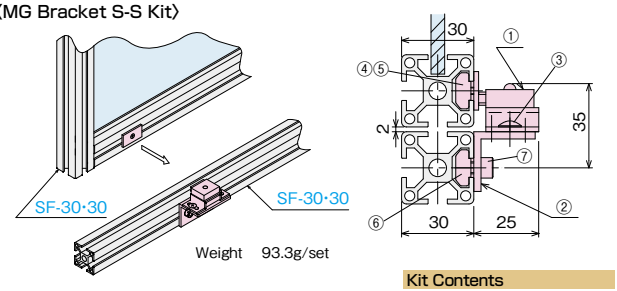
Name	MG Bracket L80·90 Kit
Item No.	SFK-4AK

Kit Contents
①Magnet Catch N×1
②MG Bracket L80·90×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×6)×1
⑤T Nut SS M3×1
⑥T Nut L M5×2
⑦Hexagon Socket Bolt (M5×14)×2

■In case of Door Frame □30mm

Door Frame □30mm· Body Frame □30mm

〈MG Bracket S-S Kit〉

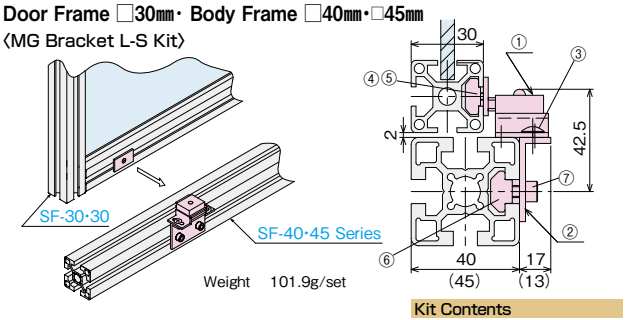


Name	MG Bracket S-S Ki
Item No.	SFK-4AH

Kit Contents
①Magnet Catch N×1
②MG Bracket S-S×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×8)×1
⑤T Nut S M3×1
⑥T Nut S M5×2
⑦Hexagon Socket Bolt (M5×10)×2

Door Frame □30mm· Body Frame □40mm·□45mm

〈MG Bracket L-S Kit〉



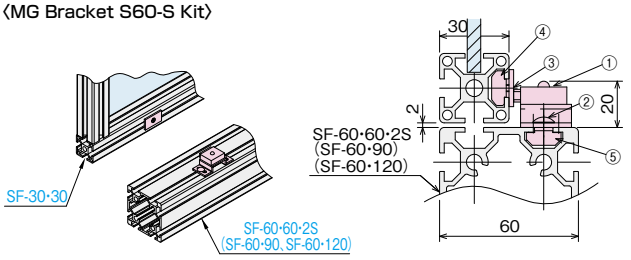
Name	MG Bracket L-S Kit
Item No.	SFK-4AE

Kit Contents
①Magnet Catch N×1
②MG Bracket L-S×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×8)×1
⑤T Nut S M3×1
⑥T Nut L M5×2
⑦Hexagon Socket Bolt(M5×12)×2

Parts How to order
Item No. Quantity (pcs)
SFA-40A □□

Door Frame □30mm・ Body Frame □60mm (2 lines of grooves)

〈MG Bracket S60-S Kit〉



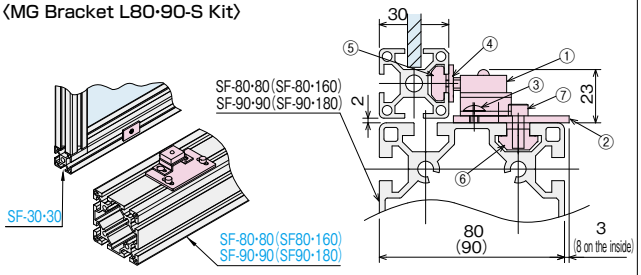
Weight 63g/set

Name	MG Bracket S60-S Kit
Item No.	SFK-4AN

Kit Contents
①Magnet Catch N×1
②Truss Screw(M4×10)×2
③Flat-Head Screw(M3×8)×1
④T Nut S M3×1
⑤T Nut S M4×2

Door Frame □30mm・ Body Frame □80mm (2 lines of grooves)・□90mm

〈MG Bracket L80·90-S Kit〉



Weight 111g/set

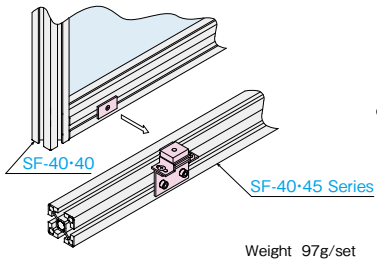
Name	MG Bracket L80·90-S Kit
Item No.	SFK-4AL

Kit Contents
①Magnet Catch N×1
②MG Bracket L80·90×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×8)×1
⑤T Nut S M3×1
⑥T Nut L M5×2
⑦Hexagon Socket Bolt (M5×14)×2

■In case of Door Frame □40mm

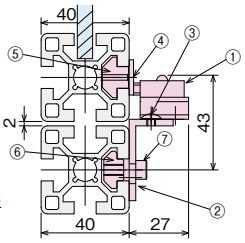
Door Frame □40mm・ Body Frame □40mm

〈MG Bracket L-L40 Kit〉

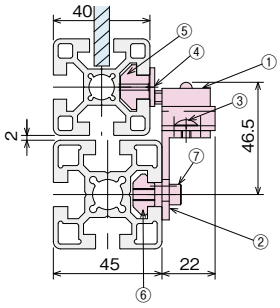


Weight 97g/set

〈Body Frame □40mm〉



〈Body Frame □45mm〉

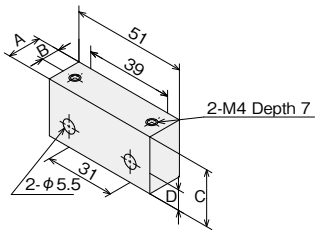


Name	MG Bracket L-L40 Kit
Item No.	SFK-4AM

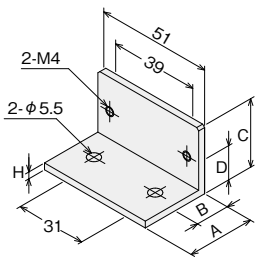
Kit Contents
①Magnet Catch N×1
②MG Bracket L×1
③Truss Screw(M4×5)×2
④Flat-Head Screw(M3×10)×1
⑤Accessory Nut L M3×1
⑥T Nut L M5×2
⑦Hexagon Socket Bolt (M5×15)×2

■Bracket for Magnet Catch Kit (For Frame Door)

〈Square Bracket〉



〈L-Shape Bracket〉



〈Square Bracket〉 Material : A6063 Alumite Treatment

Item No.	Kit Name	Bracket Name	A	B	C	D
SFK-4AA	MG Bracket SS Kit	MG Bracket SS	20	15	15	5
SFK-4AB	MG Bracket S Kit	MG Bracket S	15	8	25	9

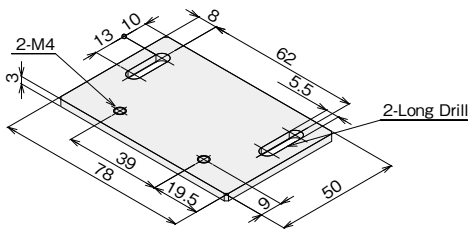
(Unit : mm)

〈L-Shape Bracket〉 Material : A6063 Alumite Treatment

Item No.	Kit Name	Bracket Name	A	B	C	D	H
SFK-4AH	MG Bracket S-S Kit	MG Bracket S-S	25	15	25	15	3
SFK-4AE	MG Bracket L-S Kit	MG Bracket L-S	35	22.5	13	5.5	2.5

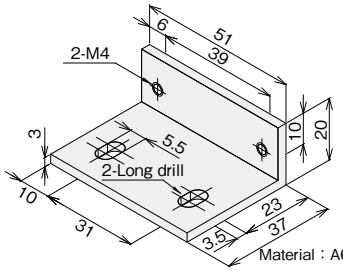
(Unit : mm)

〈MG Bracket L80·90〉



Material : A6063 Alumite Treatment

〈MG Bracket L〉



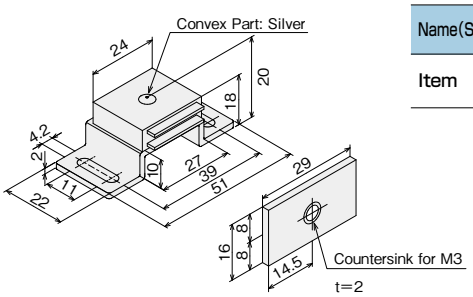
Material : A6063 Alumite Treatment

Door•Panel Parts Magnet Catch

Magnet Catch J(For Resin Panel Door)

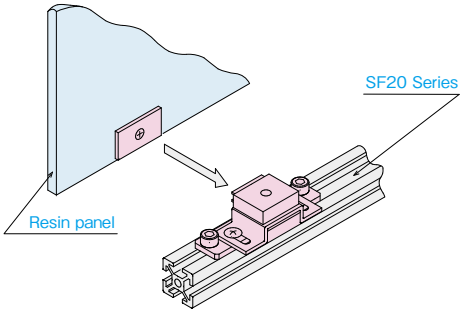


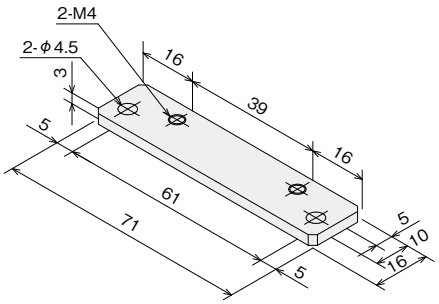
Magnet Catch J(Adsorbability:14.7N)



Name(Single Item)	Magnet Catch J
Item	SFA-40B

MG20P Bracket Kit





Name(Bolt and Nut Kit)	MG20P Bracket Kit
Item No.	SFK-4AD

■Kit Contents
- ●Magnet Catch J×1
- ●MG20P Bracket×1
- ●Truss Screw(M4×5)×2
- ●Flat-Head Screw(M3×10)×1
- ●Hexagon Socket Bolt (M4×8)×2
- ●Cap Nut(M3)×1
- ●T Nut SS(M4)×2

■Material/Technical Data

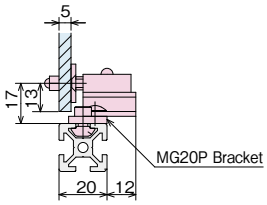
Material Stainless(Magnet Catch Housing/MP20P Bracket)
Ferrite(Magnet)
Dark Brown Painting

Weight 38g(Magnet Catch J)
24g(MG20P Bracket)

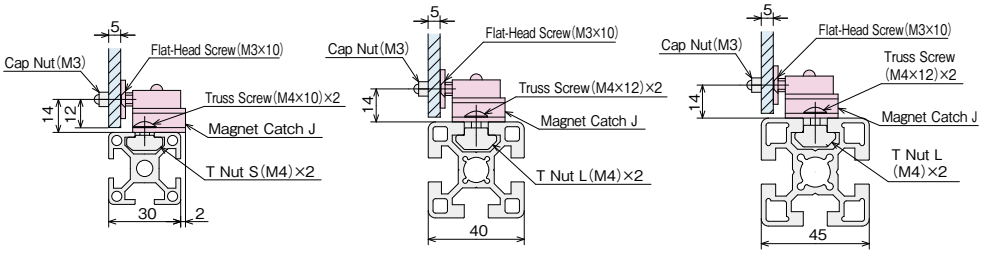
Use Example of Magnet Catch Installation

〈Dimension when using Resin Door〉

MG20P Bracket Kit



Magnet Catch J can be fixed to the frame directly in case of SF30・40・45 series.



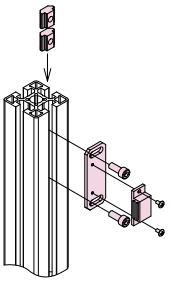
※Please order by single item regarding screws for Magnet Catch in case of SF30・40・45.

Parts
How to order
Item No. Quantity (pcs)
SFA-40B □□

Magnet Catch G (For Resin Panel Door)



Magnet Catch G (Adsorbability：10N)



Name(Single Item)	Magnet Catch G
Item No.	SFA-498

Magnet Catch G·SS Kit

Magnet Catch G

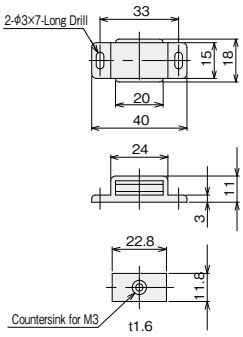
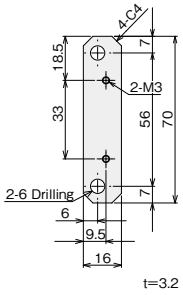


Plate to attach Magnet Catch G 20



Magnet Catch G·S/L Kit(Common)

Magnet Catch G

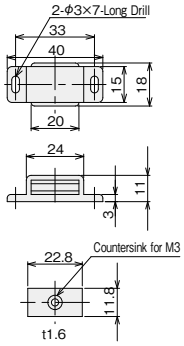
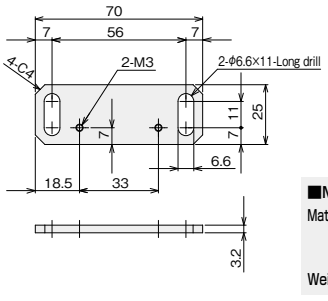


Plate to attach Magnet Catch G 30



■Material/Technical Data
Material ABS(Magnet Catch)
SPCC Uni-Chrome
(Door Side·Setting Plate)
Weight 14g(Magnet Catch G)

Atraching Frame	SF20 Series	SF30 Series	SF40·45 Series
Name(Bolt and Nut Kit)	Magnet Catch G·SS Kit	Magnet Catch G·S Kit	Magnet Catch G·L Kit
Item No.	SFK-4X4	SFK-4X5	SFK-4X6

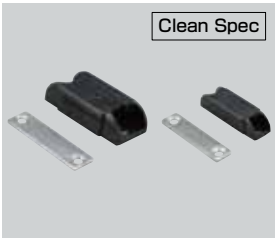
Kit Contents

〈Magnet Catch G·SS Kit〉
●Magnet Catch G×1
●Plate to attach Magnet Catch G 20×1
●Cap Nut(M3)×2
●Truss Screw(M3×6)×2
●Hexagon Socket Bolt (M5×8)×2
●T Nut SS(M5)×2
●Flat-Head Screw(M3×8)×2

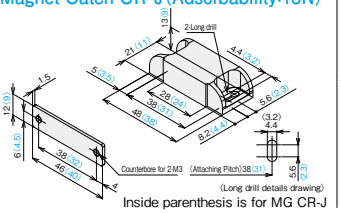
〈Magnet Catch G·S Kit〉
●Magnet Catch G×1
●Plate to attach Magnet Catch G 30×1
●Cap Nut(M3)×2
●Truss Screw(M3×6)×2
●Hexagon Socket Bolt (M6×10)×2
●T Nut S(M6)×2
●Flat-Head Screw(M3×10)×2

〈Magnet Catch G·L Kit〉
●Magnet Catch G×1
●Plate to attach Magnet Catch G 30×1
●Cap Nut(M3)×2
●Truss Screw(M3×6)×2
●Hexagon Socket Bolt (M6×15)×2
●T Nut L(M6)×2
●Flat-Head Screw(M3×10)×2

Magnet Catch CR-N (For Frame Rim Door)/J (For Resin Panel Door)

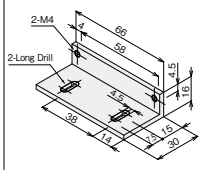


Magnet Catch CR-N (Adsorbability:23N)
Magnet Catch CR-J (Adsorbability:13N)

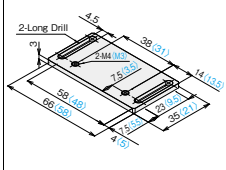


Inside parenthesis is for MG CR-J

CR Bracket

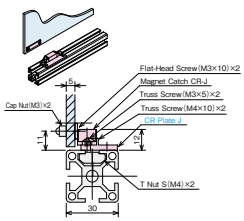


CR Plate-N
〈CR Plate-J〉



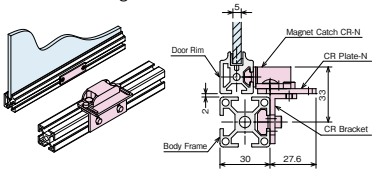
※ Inside parenthesis is for CR Plate-J

Magnet Catch CR-J Example of installation

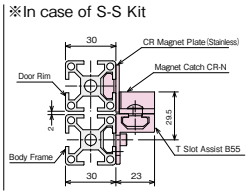


Installing Example of Magnet Catch Cr-N Kit

※In case of using S Kit



※In case of S-S Kit



Name	Magnet Catch CR		Magnet Catch CR-N						CR Plate-N
	N	J	S Kit	S-S Kit	L Kit	L-S Kit	L40-L40 Kit	L45-L Kit	〈CR Plate-J〉
Item No.	SFA-44A	SFA-44B	SFK-4EA	SFK-4EC	SFK-4EB	SFK-4ED	SFK-4EE	SFK-4EF	SFA-4EA(SFA-4EB)

■Kit contents

	S Kit	S-S Kit	L Kit	L-S Kit	L40-L40 Kit	L45-L Kit
Door Rim	□20mm	□30mm	□20mm	□30mm	□40mm	□40mm
Body Frame	□30mm	□30mm	□40·□45mm	□40·□45mm	□40mm	□40·□45mm
Kit Contents	●Magnet Catch CR-N×1 ●CR Plate-N×1 ●CR Bracket×1 ●Cross-Recessed Small Flat Screw M3×6(Stainless)×2 ●ST Nut SS(M3)×2 ●Truss Screw M4×6(Stainless)×4 ●Truss Screw M4×10(Stainless)×2 ●ST Nut S(M4)×2	●Magnet Catch CR-N×1 ●T Slot Assist B55×1 ●CR Magnet Plate×1 ●Cross-Recessed Small Flat Screw M3×8(Stainless)×2 ●ST Nut S(M3)×2 ●Truss Screw M4×10(Stainless)×4 ●ST Nut S(M4)×4	●Magnet Catch CR-N×1 ●CR Plate-N×1 ●CR Bracket×1 ●Cross-Recessed Small Flat Screw M3×6(Stainless)×2 ●ST Nut SS(M3)×2 ●Truss Screw M4×6(Stainless)×4 ●Truss Screw M4×12(Stainless)×2 ●ST Nut L(M4)×2	●Magnet Catch CR-N×1 ●CR Plate-N×1 ●CR Bracket×1 ●CR Magnet Plate×1 ●Cross-Recessed Small Flat Screw M3×8(Stainless)×2 ●ST Nut S(M3)×2 ●Truss Screw M4×6(Stainless)×4 ●Truss Screw M4×12(Stainless)×2 ●ST Nut L(M4)×2	●Magnet Catch CR-N×1 ●T Slot Assist B55×1 ●CR Magnet Plate×1 ●Cross-Recessed Small Flat Screw M3×10(Stainless)×2 ●Accessory Nut L-M3×2 ●Truss Screw M4×10(Stainless)×2 ●ST Nut S(M4)×2 ●Truss Screw M4×12(Stainless)×2 ●ST Nut L(M4)×2	●Magnet Catch CR-N×1 ●CR Plate-N×1 ●CR Bracket×1 ●CR Magnet Plate×1 ●Cross-Recessed Small Flat Screw M3×10(Stainless)×2 ●Accessory Nut L-M3×2 ●Truss Screw M4×6(Stainless)×4 ●Truss Screw M4×12(Stainless)×2 ●ST Nut L(M4)×2

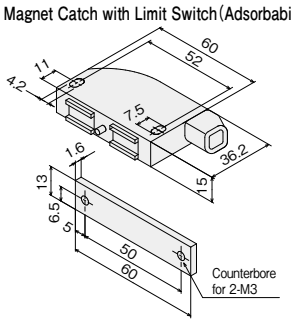
■Material/Technical Data
Material A6063(CR Plate·CR Bracket)
Resin(Housing)
Neodymium(Magnet)
Stainless(Fixing Disc·CR Magnet Plate)
Weight 16.7g(Magnet Catch CR-N (Single Item))
8.9g(Magnet Catch CR-J (Single Item))
Environment RoHS Compliant

Door•Panel Parts Magnet Catch with Limit Switch

Magnet Catch with Limit Switch



Magnet Catch with Limit Switch (Adsorbability:29.4N)



Name	Magnet Catch with Limit Switch
Item No.	SFA-42A

■Material/Technical Data
Material PBT (Case)
Ferrite (Magnet)
Weight 52.5g
(Magnet Catch with Limit Switch)

Switch Spec: ON when door is closed. 1 — 2

Rated Voltage[V]	Resistant Load[A]	Lumped Load[A]	Induction Load[A]
AC125	5	1.5	3
AC250	5	—	3
DC30	5	—	1.5

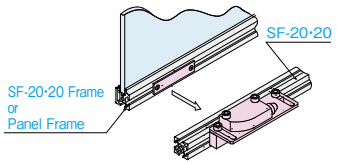
Puropose Example

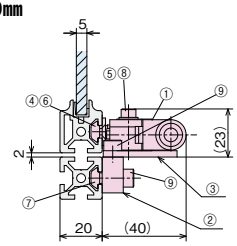
Name	Door	Component
ML Bracket SS Kit	SF-20·20 or Panel Frame SS	SF-20·20 Series
ML Bracket S Kit		SF-30·30 Series
ML Bracket L Kit		SF-40·45 Series
ML Bracket S-S Kit	SF-30·30	SF-30·30 Series
ML Bracket L-S Kit		SF-40·45 Series
ML Plate	Resin Panel	SF-20·20 Series
		SF-30·30 Series
		SF-40·45 Series

※Bolt and Nut isn't included to ML Plate.

■In case of Door Frame □20mm (Include Panel Frame)

Door Frame □20mm・ Body Frame □20mm
〈ML Bracket SS Kit〉



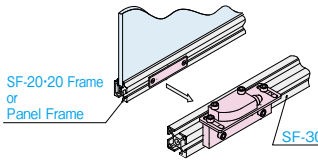


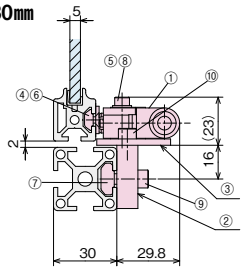
Weight 181g/set

Name	ML Bracket SS Kit
Item No.	SFK-4CA

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket SS×1
③ML Plate×1
④Flat-Head Screw(M3×6)×2
⑤For Flat Washer M4×2
⑥T Nut SS M3×2
⑦T Nut SS M5×2
⑧Hexagon Socket Bolt (M4×18)×2
⑨Hexagon Socket Bolt (M5×15)×4

Door Frame □20mm・ Body Frame □30mm
〈ML Bracket S Kit〉



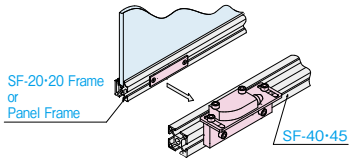


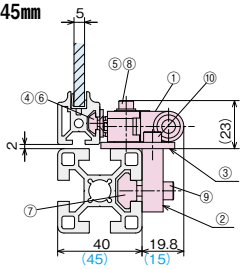
Weight 221g/set

Name	ML Bracket S Kit
Item No.	SFK-4CB

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket S×1 ③ML Plate×1
④Flat-Head Screw(M3×6)×2
⑤For Flat Washer M4×2
⑥T Nut SS M3×2 ⑦T Nut S M5×2
⑧Hexagon Socket Bolt (M4×18)×2
⑨Hexagon Socket Bolt (M5×15)×2
⑩Hexagon Socket Bolt (M5×18)×2

Door Frame □20mm・ Body Frame □40mm・□45mm
〈ML Bracket L Kit〉



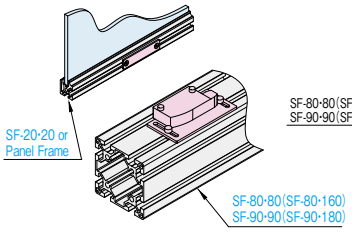


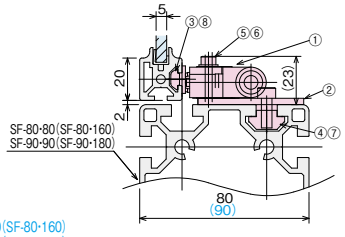
Weight 217.5g/set

Name	ML Bracket L Kit
Item No.	SFK-4CC

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket ×1 ③ML Plate×1
④Flat-Head Screw(M3×6)×2
⑤For Flat Washer M4×2
⑥T Nut SS M3×2 ⑦T Nut L M5×2
⑧Hexagon Socket Bolt (M4×18)×2
⑨Hexagon Socket Bolt (M5×15)×2
⑩Hexagon Socket Bolt (M5×22)×2

Door Frame □20mm・ Body Frame □80mm (2 lines of grooves)・□90mm
〈ML Bracket L80·90 Kit〉





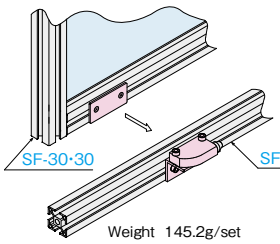
Weight 125g/set

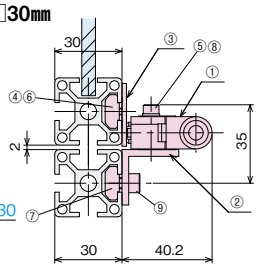
Name	ML Bracket L80·90 Kit
Item No.	SFK-4CJ

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket L80·90×1
③T Nut SS M3×2
④T Nut L M5×2
⑤For Flat Washer M4×2
⑥Hexagon Socket Bolt (M4×18)×2
⑦Hexagon Socket Bolt (M5×14)×2
⑧Flat-Head Screw(M3×6)×2

■In case of Door Frame □30mm

Door Frame □30mm・ Body Frame □30mm
〈ML Bracket S-S Kit〉



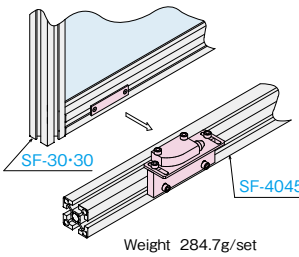


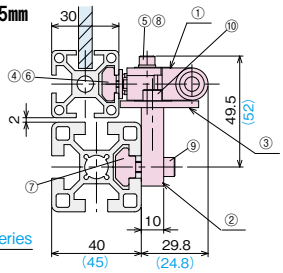
Weight 145.2g/set

Name	ML BracketS-S Kit
Item No.	SFK-4CD

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket S-S×1 ③ML Magnet Plate×1
④Flat-Head Screw(M3×8)×2
⑤For Flat Washer M4×2
⑥T Nut S M3×2 ⑦T Nut S M5×2
⑧Hexagon Socket Bolt (M4×20)×2
⑨Hexagon Socket Bolt (M5×10)×2

Door Frame □30・ Body Frame □40mm・□45mm
〈ML Bracket L-S Kit〉





Weight 284.7g/set

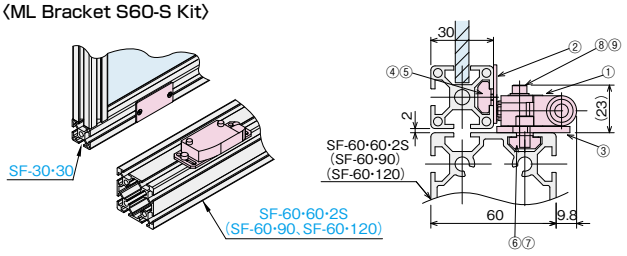
Name	ML Bracket L-S Kit
Item No.	SFK-4CF

Kit Contents
①Magnet Catch with Limit Switch ×1
②ML Bracket L-S×1 ③ML Plate×1
④Flat-Head Screw(M3×8)×2
⑤For Flat Washer M4×2
⑥T Nut S M3×2 ⑦T Nut L M5×2
⑧Hexagon Socket Bolt (M4×18)×2
⑨Hexagon Socket Bolt (M5×15)×2
⑩Hexagon Socket Bolt (M5×22)×2

Parts
How to order
Item No. Quantity (pcs)
SFA-42A □□

Door Frame □30mm・Body Frame □60mm (2 lines of grooves)

〈ML Bracket S60-S Kit〉



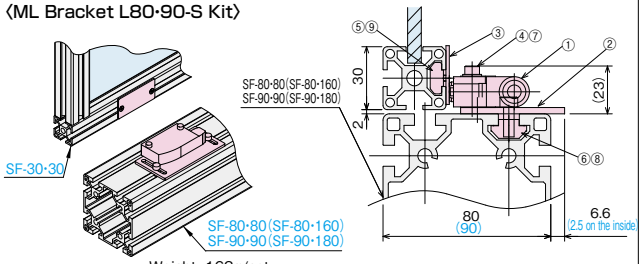
Weight 179g/set

Name	ML Bracket S60-S Kit
Item No.	SFK-4CN

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Magnet Plate 1×1
③ML Plate×1
④Flat-Head Screw(M3×8)×2
⑤T Nut S M3×2 ⑥T Nut S M5×2
⑦Hexagon Socket Bolt (M5×10)×2
⑧For Flat Washer M4×2
⑨Hexagon Socket Bolt (M4×18)×2

Door Frame □30mm・Body Frame □80mm (2 lines of grooves)・□90mm

〈ML Bracket L80·90-S Kit〉



Weight 162g/set

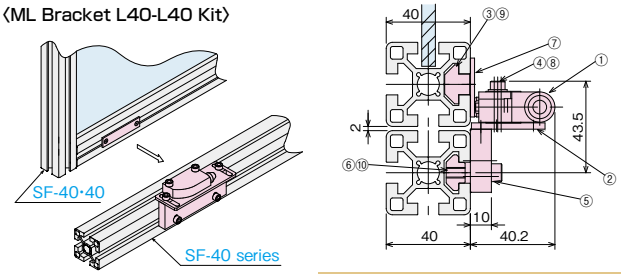
Name	ML Bracket L80·90-S Kit
Item No.	SFK-4CK

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket L80·90×1
③ML Magnet Plate 1×1
④For Flat Washer M4×2
⑤T Nut S M3×2 ⑥T Nut L M5×2
⑦Hexagon Socket Bolt (M4×18)×2
⑧Hexagon Socket Bolt (M5×14)×2
⑨Cross-Recessed Small Flat Screw(M3×8)×2

■In case of Door Frame □40mm

Door Frame □40mm・Body Frame □40mm

〈ML Bracket L40-L40 Kit〉



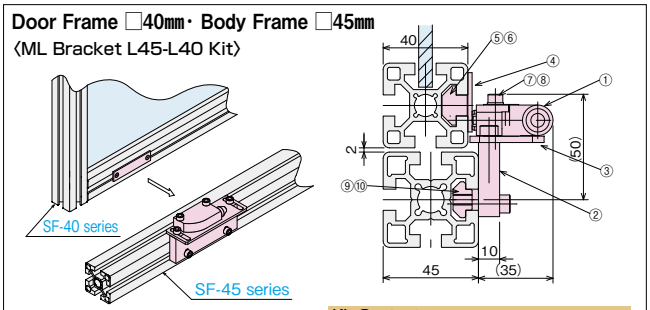
Weight 266g/set

Name	ML Bracket L40-L40 Kit
Item No.	SFK-4CL

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Plate×1 ③Flat-Head Screw(M3×10)×2
④For Flat Washer M4×2 ⑤ML Bracket×1
⑥T Nut L M5×2
⑦ML Magnet Plate 1×1
⑧Hexagon Socket Bolt (M4×18)×2
⑨Accessory Nut L(M3)×2
⑩Hexagon Socket Bolt (M5×22)×2

Door Frame □40mm・Body Frame □45mm

〈ML Bracket L45-L40 Kit〉



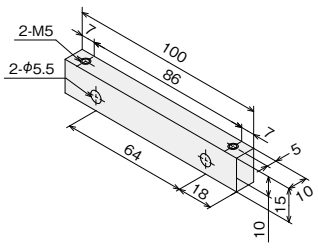
Weight 293g/set

Name	ML Bracket L45-L40 Kit
Item No.	SFK-4CM

Kit Contents
①Magnet Catch with Limit Switch×1
②ML Bracket L-S×1 ③ML Plate×1
④ML Magnet Plate 1×1
⑤Flat-Head Screw(M3×10)×2
⑥Accessory Nut L(M3)×2
⑦Hexagon Socket Bolt (M4×18)×2
⑧For Flat Washer M4×2 ⑨T Nut L(M5)×2
⑩Hexagon Socket Bolt (M5×22)×2

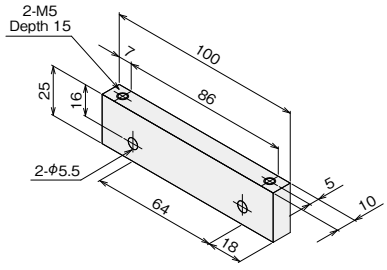
■Bracket for Magnet Catch with Limit Switch Kit (For Frame Rim Door)

〈ML Bracket SS〉



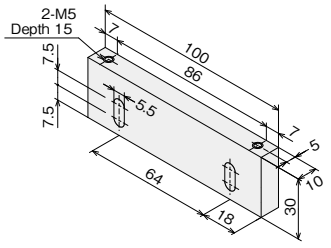
Material/A6063 Alumite Treatment

〈ML Bracket S〉



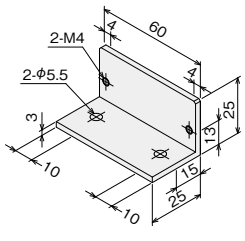
Material/A6063 Alumite Treatment

〈ML Bracket〉



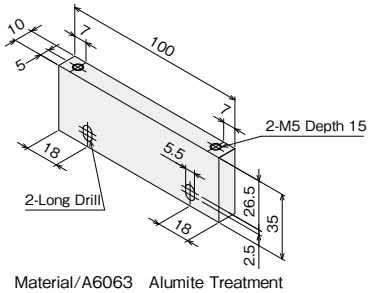
Material/A6063 Alumite Treatment

〈ML Bracket S-S〉



Material/A6063 Alumite Treatment

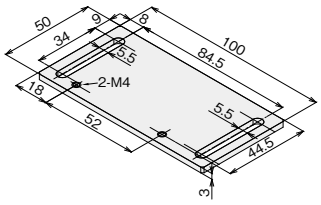
〈ML Bracket L-S〉



Material/A6063 Alumite Treatment

Door•Panel Parts *Magnet Catch with Limit Switch*

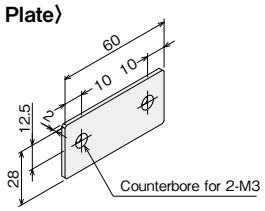
〈ML Bracket L80•90〉



■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Weight	36.4g
Environment	**RoHS** Compliant **Green** Procurement

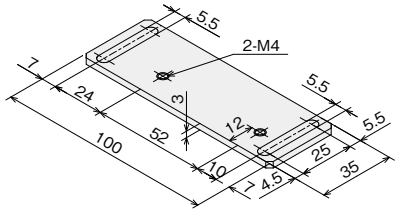
★〈ML Magnet Plate 1〉
★〈CR Magnet Plate〉



■Material/Technical Data

	ML Magnet Plate1	CR Magnet Plate
Material	SPCC	Stainless(SUS430)
Weight	25.2g	25.6g
Environment	★**RoHS** Compliant	★**Green** Procurement

〈ML Plate〉

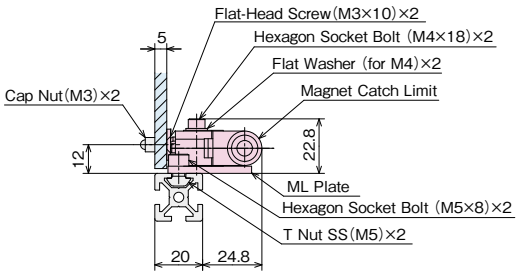


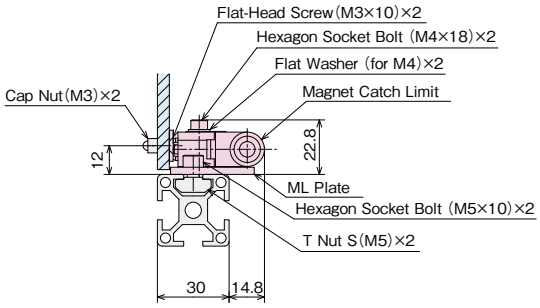
Name	ML Plate
Item No.	SFA-42E

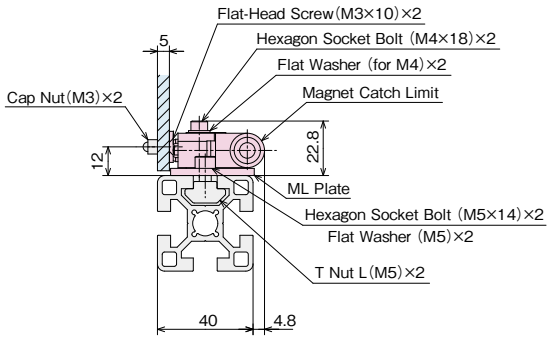
■Material/Technical Data

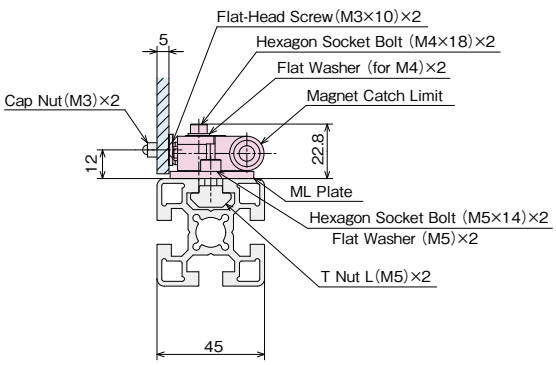
Material	SUS304
Weight	70.9g
Environment	**RoHS** Compliant **Green** Procurement

Dimension Indication when using Resin Panel t5 Door









※Bolt and Nut aren't included,

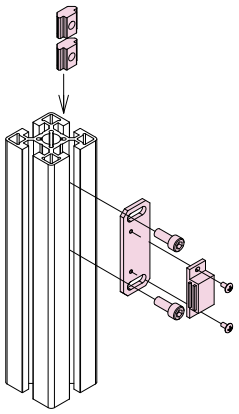
Example of order

Parts
How to order
Item No. SFA-42E
Quantity (pcs) □□

Magnet Catch G with Limit Switch

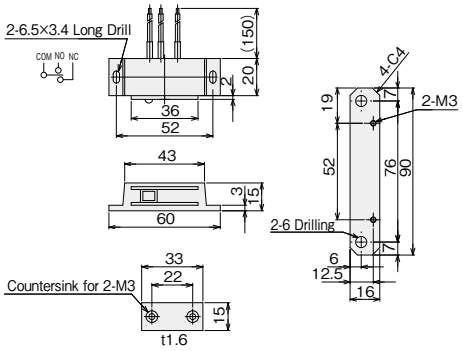


Magnet Catch G with Limit Switch
(Adsorbability:19N)

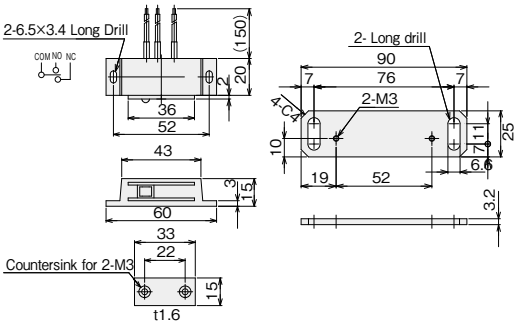


Name(Single Item)	Magnet Catch G with Limit Switch
Item No.	SFA-499

MG-G Limit SS Kit



MG-G Limit S/L Kit(Common)



■Material/Technical Data

Material ABS(Magnet Catch with G Limit Switch)
SPCC Uni-chrome(Door Side-Installing Plate)

Weight 40g(Magnet Catch with G Limit Switch)

Retentivity 3

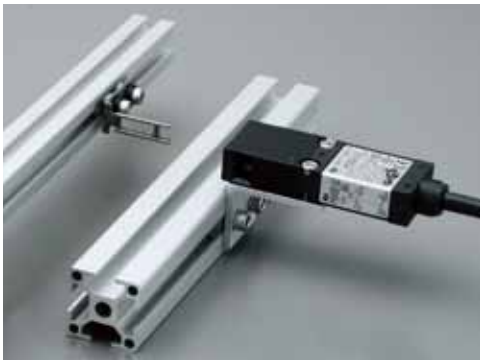
Attaching Frame	SF20 Series	SF30 Series	SF40·45 Series
Name(Bolt and Nut Kit)	MG-G Limit SS Kit	MG-G Limit S Kit	MG-G Limit L Kit
Item No.	SFK-4X1	SFK-4X2	SFK-4X3

Kit Contents

〈MG-G Limit SS Kit〉	〈MG-G Limit S Kit〉	〈MG-G Limit L Kit〉
●Magnet Catch G with Limit Switch×1	●Magnet Catch G with Limit Switch×1	●Magnet Catch G with Limit Switch×1
●T Nut SS(M5)×2	●T Nut S(M6)×2	●T Nut L(M6)×2
●MG-G Limit Installing Plate 20×1	●MG-G Limit Installing Plate 30×1	●MG-G Limit Installing Plate 30×1
●Truss Screw(M3×6)×2	●Truss Screw(M3×6)×2	●Truss Screw(M3×6)×2
●Flat-Head Screw(M3×8)×2	●Flat-Head Screw(M3×10)×2	●Flat-Head Screw(M3×10)×2
●Hexagon Socket Bolt(M5×8)×2	●Hexagon Socket Bolt(M6×10)×2	●Hexagon Socket Bolt(M6×15)×2
●Cap Nut(M3)×2	●Cap Nut(M3)×2	●Cap Nut(M3)×2

Door•Panel Parts Safty Door Switch Kit

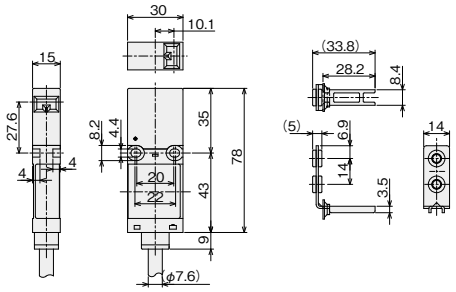
Safty Door Switch Kit A



■Kit selection

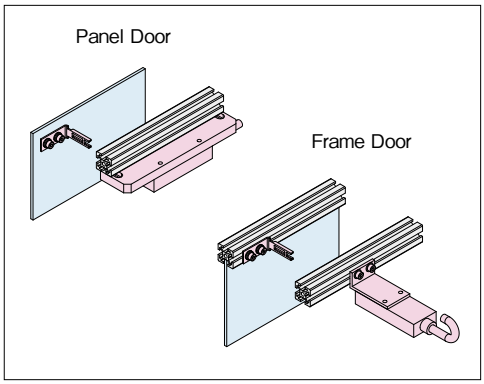
Combination of Rim and Door		Name	Item No.
Frame at Rim-side	Door Side		
□20 Series	Resin panel Door t=5	Safty Switch Kit SS-PA	SFK-471A
□30 Series		Safty Switch Kit S-PA	SFK-472A
□40・45 Series		Safty Switch Kit L-PA	SFK-473A
□20 Series	□20 Series Frame Door	Safty Switch Kit SS-SSA	SFK-HE4A
□30 Series		Safty Switch Kit S-SSA	SFK-HE5A
□40 Series		Safty Switch Kit L40-SSA	SFK-HE6A
□45 Series		Safty Switch Kit L45-SSA	SFK-HE7A
□30 Series	□30 Series Frame Door	Safty Switch Kit S-SA	SFK-HE8A
□40 Series		Safty Switch Kit L40-SA	SFK-HE9A
□45 Series		Safty Switch Kit L45-SA	SFK-HF1A

■Safety Switch Dimensional Outline Drawing



Resin Stopper is the part to position Operation key.
Please remove it after fixing.

■Example of Use



■We also sell Safty Switch as a Single Item.

Name	Item No.
HS6B Safty Switch(with Operation Key)	SFK-HS6B

■Spec

IDEC Model【HS6B-03B01】Safty Switch
【HS9Z-A62】 Operation Key
Environment **RoHS** Compliant

■Operation Characteristics

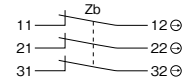
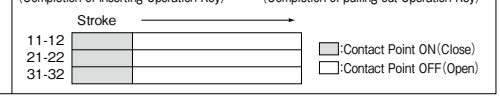
Direct Circuit Operation Power※	60N and up
Direct Circuit Operation Stroke※	8mm and up

※ Power and stroke to separate when assuming the case which contact-point deposits with the power of 10N per 1 contact point.

■Safety Standard

ISO14119
EN1088
IEC60947-5-1
EN60947-5-1 (DEMKO Approval)
GS-ET-15 (BG Approval)
UL508 (UL Listing Approval)
CSA C22.2 No.14 (c-UL Listing Approval)

■Operation Characteristics

Contact Point	Contact Symbol	Operation Characteristics
3NC		

■Kit Contents

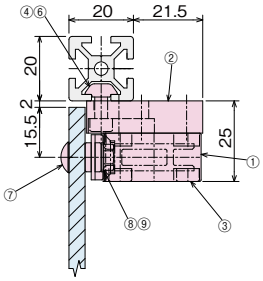
※Please refer the next page regarding part's shape detail and installing position.

		Kit Component													
		Install at Rim-side											Install at door side		
		①	②	Dimension of Part Drawing A	B	C	D	E	F	③	④	⑤	⑥	⑦	⑧	⑨
Resin panel Door	Safty Switch Kit SS-PA	HS6B Safty Switch (with Operation Key) ×1	SDP Plate×1							Hexagon Socket Bolt (M4×20) Stainless×2	Hexagon Socket Bolt (M4×10) Stainless×2		ST Nut SS (M4)×2	Truss Screw (M4×15) Stainless×2		Hexagon Nut (M4) Stainless Kind 1×2
	Safty Switch Kit S-PA										Hexagon Socket Bolt (M4×12) Stainless×2		ST Nut S (M4)×2			
	Safty Switch Kit L-PA										Hexagon Socket Bolt (M4×15) Stainless×2		ST Nut L (M4)×2			
Frame Door	Safty Switch Kit SS-SSA		Safty Switch Bracket SS-SS×1	50	42.2	18.5	14	0	3		Hexagon Socket Bolt (M4×8) Stainless×2	Flat Washer M4 Stainless×2	ST Nut SS (M4)×2		Flat Washer M4 Stainless×2	
	Safty Switch Kit S-SSA		Safty Switch Bracket S-SS×1		32.2	27	17.5	3			Hexagon Socket Bolt (M5×12) Stainless×2	Flat Washer M5 Stainless×2	ST Nut S (M5)×2	Hexagon Socket Bolt (M4×10) Stainless×2		ST Nut SS (M4)×2
	Safty Switch Kit L40-SSA		Safty Switch Bracket L40-SS×1	40	22.2	36	21.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2			
	Safty Switch Kit L45-SSA		Safty Switch Bracket L45-SS×1		17.2	40	24									
	Safty Switch Kit S-SA		Safty Switch Bracket S-S×1	50	43	32	22.5	3	3		Hexagon Socket Bolt (M5×12) Stainless×2		ST Nut S (M5)×2			
	Safty Switch Kit L40-SA		Safty Switch Bracket L40-S×1	40	33	40	26.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2	Hexagon Socket Bolt (M4×12) Stainless×2	Key Spacer ×1	ST Nut S (M4)×2
	Safty Switch Kit L45-SA		Safty Switch Bracket L45-S×1		28		30	3								

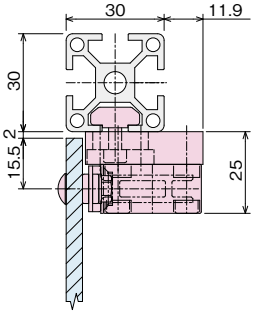
Parts
How to order
Item No. Quantity (pcs)
SFK-471A □□

Safety Switch Kit A Installation Drawing

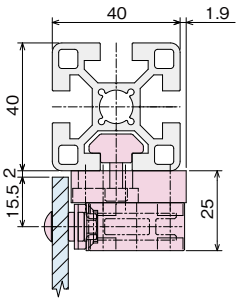
〈Resin Panel Door t=5〉

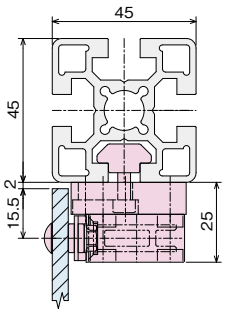


Safty Switch Kit SS-PA



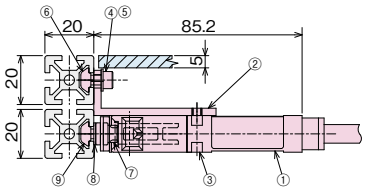
Safty Switch Kit S-PA



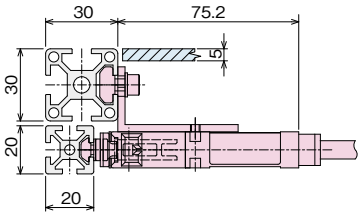


Safty Switch Kit L-PA

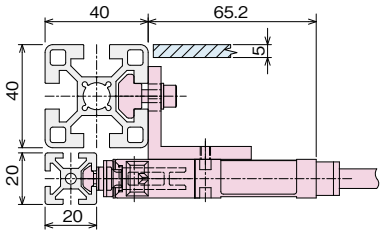
〈□20 Series Frame Door〉



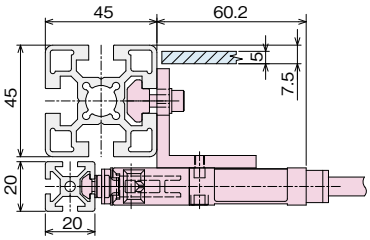
Safty Switch Kit SS-SSA



Safty Switch Kit S-SSA

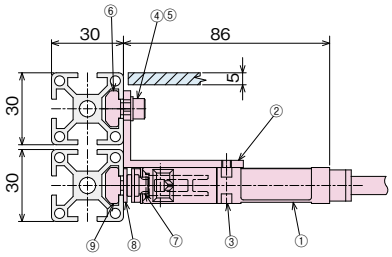


Safty Switch Kit L40-SSA

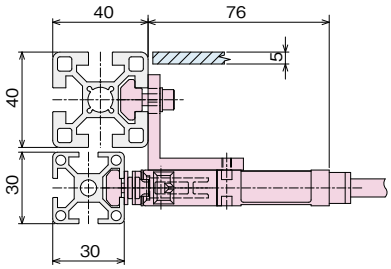


Safty Switch Kit L45-SSA

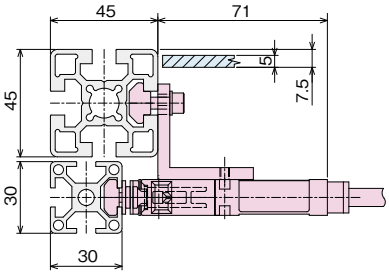
〈□30 Series Frame Door〉



Safty Switch Kit S-SA



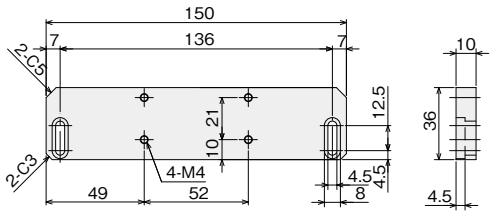
Safty Switch Kit L40-SA



Safty Switch Kit L45-SA

Part Drawing

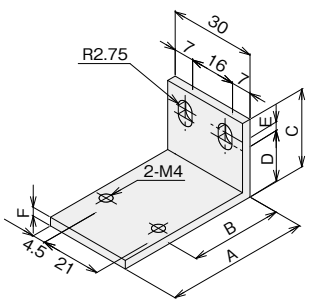
②SDP Plate
(Use for Resin Panel t5 Door)



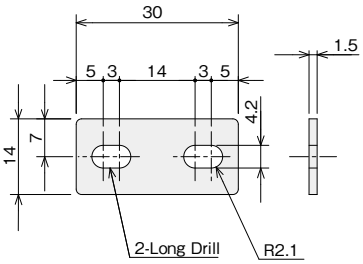
Name	SDP Plate
Item No.	SFA-470

■Material Aluminium Alloy
Alumite Treatment
■Weight 138g
■Environment RoHS Compliant
Green Procurement

②Safty Switch Bracket
(Use for Frame Door)

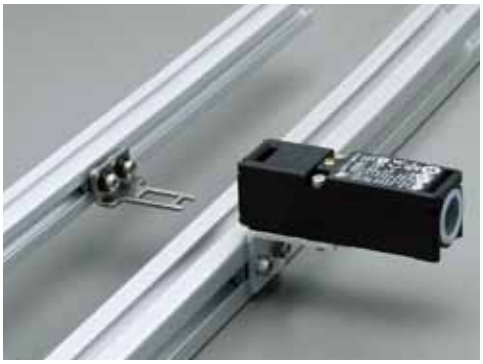


⑧Key Spacer
(Use for SF-30·30 Frame Door)



Door•Panel Parts Safty Door Switch Kit

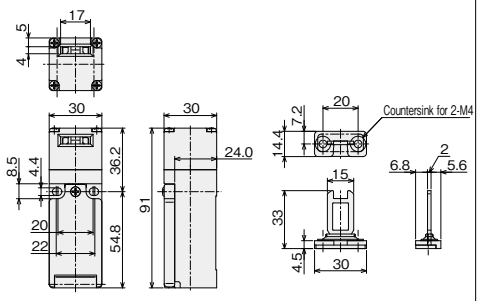
Safty Switch Kit B



■Kit selection

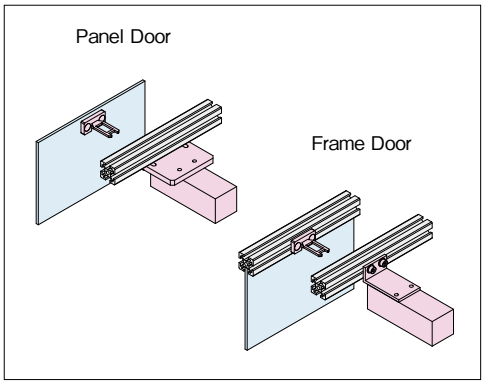
Combination of Rim and Door		Name	Item No.
Frame at Rim-side	Door Side		
□20 Series	Resin panel Door t=5	Safty Switch Kit SS-PB	SFK-HFAB
□30 Series		Safty Switch Kit S-PB	SFK-HFBB
□40・45 series		Safty Switch Kit L-PB	SFK-HFCB
□20 Series	□20 Series Frame Door	Safty Switch Kit SS-SSB	SFK-HE4B
□30 Series		Safty Switch Kit S-SSB	SFK-HE5B
□40 Series		Safty Switch Kit L40-SSB	SFK-HE6B
□45 Series		Safty Switch Kit L45-SSB	SFK-HE7B
□30 Series	□30 Series Frame Door	Safty Switch Kit S-SB	SFK-HE8B
□40 Series		Safty Switch Kit L40-SB	SFK-HE9B
□45 Series		Safty Switch Kit L45-SB	SFK-HF1B

■Safety Switch Dimensional Outline Drawing



Resin Stopper is the part to position Operation key.
Please remove it after fixing.

■Example of use



■We also sell Safty Switch as a Single Item.

Name	Item No.
HS5B Safty Switch(with Operation Key)	SFK-HS5B

■Spec

IDEC Model【HS5B-02B】Safty Switch
【HS9Z-A52】Operation Key
Environment **RoHS** Compliant

■Operation Characteristics

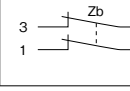
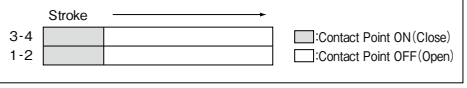
Direct Circuit Operation Power※	60N and up
Direct Circuit Operation Stroke※	8mm and up

※ Power and stroke to separate when assuming the case which contact-point deposits with the power of 10N per 1 contact point.

■Safety Standard

ISO14119/EN1088/
IEC60947-5-1/EN60947-5-1(TÜV Approval)
GS-ET-15(BG Approval)/UL508(UL Listing Approval)/
CSA C22.2No.14(c-UL Listing Approval)

■Operation Characteristics

Contact Point	Contact Symbol	Operation Characteristics
2NC		

■Kit Contents

※Please refer the next page regarding part's shape detail and installing position.

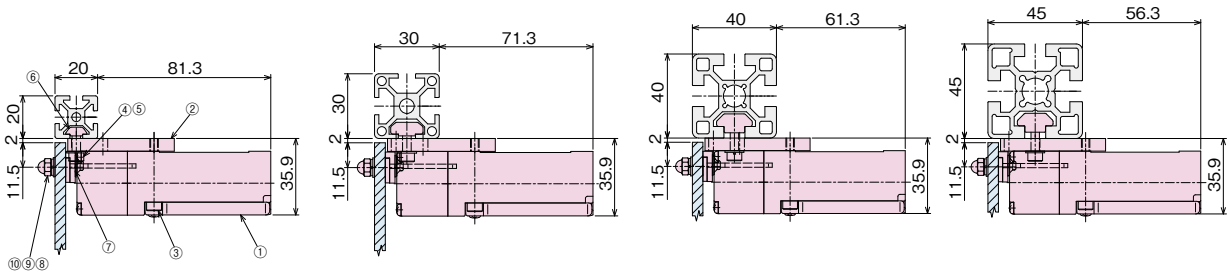
		Kit Component													
		Install at Rim-side											Install at door side		
		①	②	Dimension of Part Drawing A	B	C	D	E	F	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Resin panel Door	Safty Switch Kit SS-PB	HS5B Safty Switch (with Operation Key) ×1	SDP Plate B×1							Hexagon Socket Bolt (M4×30) Stainless×2	Hexagon Socket Bolt (M4×12) Stainless×2	Flat Washer M4 Stainless×2	ST Nut SS (M4)×2	Flat-Head Screw (M4×15) Stainless×2		Spring Wacher M4 Stainless×2	Cap Nut(M4) Stainless×2
	Safty Switch Kit S-PB										Hexagon Socket Bolt (M4×15) Stainless×2		ST Nut S (M4)×2				
	Safty Switch Kit L-PB												ST Nut L (M4)×2				
Frame Door	Safty Switch Kit SS-SSB		Safty Switch Bracket SS-SS×1	50	42.2	18.5	14	0	3		Hexagon Socket Bolt (M4×8) Stainless×2	Flat Washer M4 Stainless×2	ST Nut SS (M4)×2	Flat-Head Screw (M4×10) Stainless×2	Flat Washer M4 Stainless×2		ST Nut SS (M4)×2
	Safty Switch Kit S-SSB		Safty Switch Bracket S-SS×1		32.2	27	17.5	3			Hexagon Socket Bolt (M5×12) Stainless×2	Flat Washer M5 Stainless×2	ST Nut S (M5)×2				
	Safty Switch Kit L40-SSB		Safty Switch Bracket L40-SS×1	40	22.2	36	21.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2				
	Safty Switch Kit L45-SSB		Safty Switch Bracket L45-SS×1		17.2	40	24										
	Safty Switch Kit S-SB		Safty Switch Bracket S-S×1	50	43	32	22.5	3	3		Hexagon Socket Bolt (M5×12) Stainless×2		ST Nut S (M5)×2	Flat-Head Screw (M4×12) Stainless×2	Key Spacer ×1		ST Nut S (M4)×2
	Safty Switch Kit L40-SB		Safty Switch Bracket L40-S×1	40	33	40	26.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2				
	Safty Switch Kit L45-SB		Safty Switch Bracket L45-S×1		28		30	3									

Example of order

Parts
How to order
Item No. Quantity (pcs)
SFK-HFAB □□

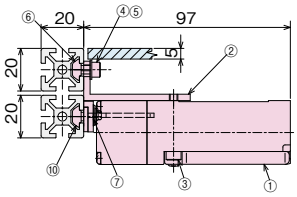
Safety Switch Kit B Installation Drawing

〈Resin Panel Door t=5〉

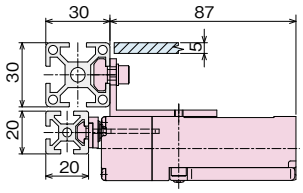


Safty Switch Kit SS-PB　　Safty Switch Kit S-PB　　Safty Switch Kit L-PB

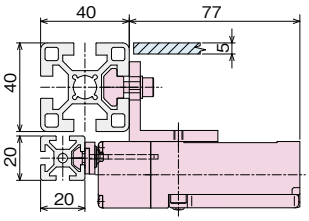
〈□20 Series Frame Door〉



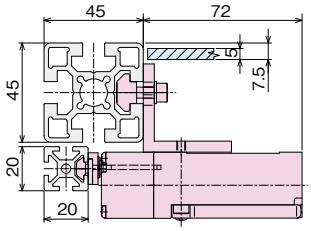
Safty Switch Kit SS-SSB



Safty Switch Kit S-SSB

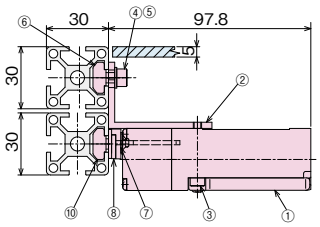


Safty Switch Kit L40-SSB

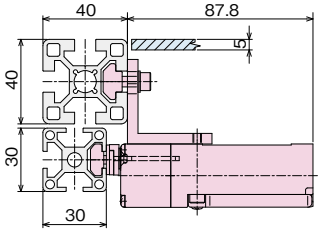


Safty Switch Kit L45-SSB

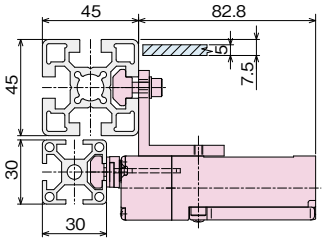
〈□30 Series Frame Door〉



Safty Switch Kit S-SB



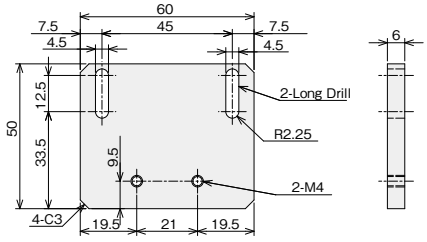
Safty Switch Kit L40-SB



Safty Switch Kit L45-SB

Part Drawing

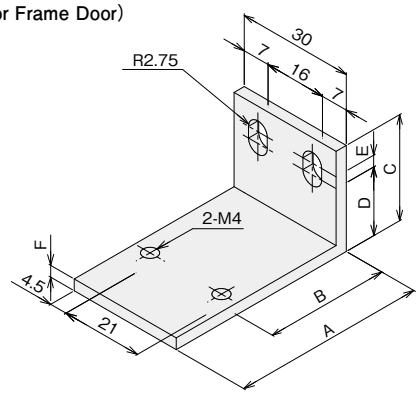
②SDP Plate B
(Use for Resin Panel t5 Door)



Name	SDP Plate B
Item No.	SFA-4HF3

■Material Aluminium Alloy
Alumite Treatment
■Weight 45g
■Environment RoHS Compliant
Green Procurement

②Safty Switch Bracket
(Use for Frame Door)



Door•Panel Parts Safty Door Switch Kit

Safty Switch Kit C

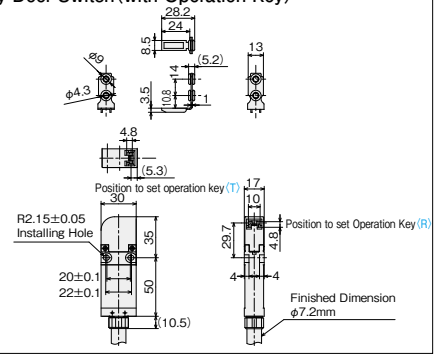


■Kit selection

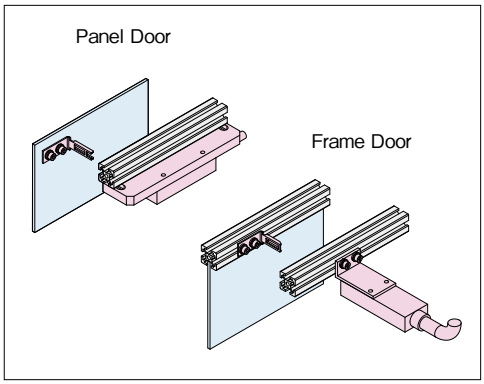
Combination of Rim and Door		Name	Item No.
Frame at Rim-side	Door Side		
□20 Series	Resin panel Door t=5	Safty Switch Kit SS-PC	SFK-471C
□30 Series		Safty Switch Kit S-PC	SFK-472C
□40・45 Series		Safty Switch Kit L-PC	SFK-473C
□20 Series	□20 Series Frame Door	Safty Switch Kit SS-SSC	SFK-HE4C
□30 Series		Safty Switch Kit S-SSC	SFK-HE5C
□40 Series		Safty Switch Kit L40-SSC	SFK-HE6C
□45 Series		Safty Switch Kit L45-SSC	SFK-HE7C
□30 Series	□30 Series Frame Door	Safty Switch Kit S-SC	SFK-HE8C
□40 Series		Safty Switch Kit L40-SC	SFK-HE9C
□45 Series		Safty Switch Kit L45-SC	SFK-HF1C

■Safety Switch Dimensional Outline Drawing

Safty Door Switch (with Operation Key)



■Example of use



■We also sell Safty Switch as a single item. (with Operation Key)

Name	Item No.
Safty Door Switch〈R〉	SFA-43A
Safty Door Switch〈T〉	SFA-43B

■Spec

OMRON Model【D4GS-N2R】Safty Door Switch〈R〉
【D4GS-N2T】Safty Door Switch〈T〉
【D4GS-NK2】Operation key
Environment **RoHS** Compliant

■Operation Characteristics

Inserting Power of Operation Key	MAX	15N
Pulling-Out Power of Operation Key	MAX	30N
Whole movement		(22mm)
Forced separation power	MIN	60N
Forced separation stroke	MIN	10mm

■Safety Standard

EN (TÜV) Standard to comply with CE Marking. NC contact is Positive Break authorized.
Authorized by various overseas standard UL, CSA, etc.

■Operation Characteristics

Contact Point	Contact Symbol	Operation Characteristics
2NC	Zb 11 — 12⊖ 31 — 32⊖	(Completion of inserting Operation Key) (Completion of pulling out Operation Key) Stroke → 11-12 31-32 :Contact Point ON (Close) :Contact Point OFF (Open)

■Kit Contents

※Please refer the next page regarding part's shape detail and installing position.

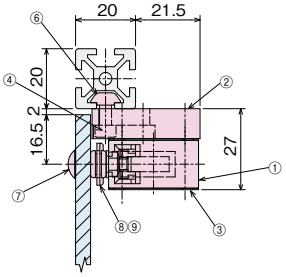
		Kit Component														
		Install at Rim-side												Install at door side		
		①	②	Dimension of Part Drawing A	B	C	D	E	F	③	④	⑤	⑥	⑦	⑧	⑨
Resin panel Door	Safty Switch Kit SS-PC	Safty Door Switch(R) (with Operation Key) ×1	SDP Plate×1							Hexagon Socket Bolt (M4×20) Stainless×2	Hexagon Socket Bolt (M4×10) Stainless×2		ST Nut SS (M4)×2	Truss Screw (M4×15) Stainless×2		Hexagon Nut (M4) Stainless Kind 1×2
	Safty Switch Kit S-PC										Hexagon Socket Bolt (M4×12) Stainless×2		ST Nut S (M4)×2			
	Safty Switch Kit L-PC										Hexagon Socket Bolt (M4×15) Stainless×2		ST Nut L (M4)×2			
Frame Door	Safty Switch Kit SS-SSC	Safty Door Switch(T) (with Operation Key) ×1	Safty Switch Bracket SS-SS×1	50	42.2	18.5	14	0	3	Hexagon Socket Bolt (M4×18) Stainless×2	Hexagon Socket Bolt (M4×8) Stainless×2	Flat Washer M4 Stainless×2	ST NUt SS (M4)×2	Hexagon Socket Bolt (M4×10) Stainless×2	Flat Washer M4 Stainless×2	ST Nut SS (M4)×2
	Safty Switch Kit S-SSC		Safty Switch Bracket S-SS×1		32.2	27	17.5	3			Hexagon Socket Bolt (M5×12) Stainless×2	Flat Washer M5 Stainless×2	ST Nut S (M5)×2			
	Safty Switch Kit L40-SSC		Safty Switch Bracket L40-SS×1	40	22.2	36	21.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2			
	Safty Switch Kit L45-SSC		Safty Switch Bracket L45-SS×1		17.2	40	24									
	Safty Switch Kit S-SC		Safty Switch Bracket S-S×1	50	43	32	22.5	3	3		Hexagon Socket Bolt (M5×12) Stainless×2		ST Nut S (M5)×2	Hexagon Socket Bolt (M4×12) Stainless×2	Key Spacer ×1	ST Nut S (M4)×2
	Safty Switch Kit L40-SC		Safty Switch Bracket L40-S×1	40	33	40	26.5	5	5		Hexagon Socket Bolt (M5×15) Stainless×2		ST Nut L (M5)×2			
	Safty Switch Kit L45-SC		Safty Switch Bracket L45-S×1		28		30	3								

Example of order

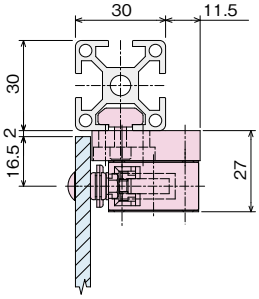
Parts
How to order
Item No. Quantity (pcs)
SFK-471C □□

Safety Switch Kit C Installation Drawing

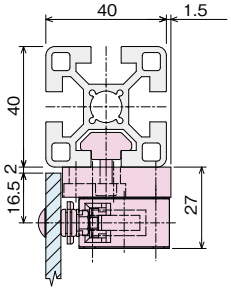
〈Resin Panel Door t=5〉

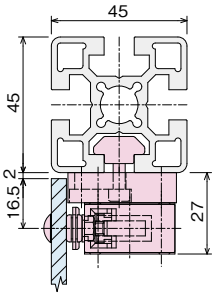


Safty Switch Kit SS-PC



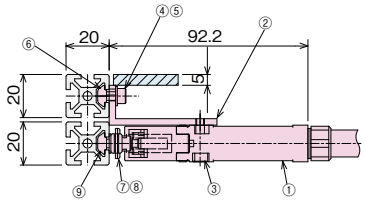
Safty Switch Kit S-PC



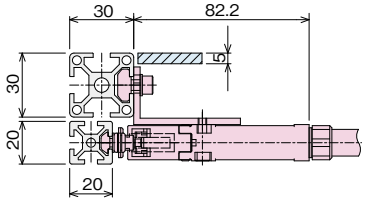


Safty Switch Kit L-PC

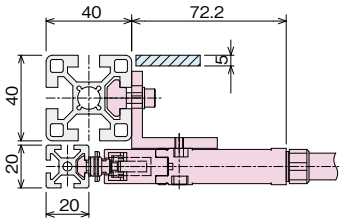
〈□20 Series Frame Door〉



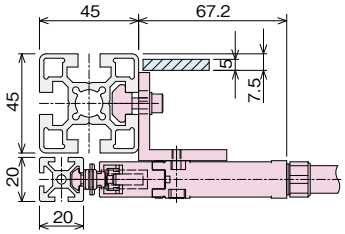
Safty Switch Kit SS-SSC



Safty Switch Kit S-SSC

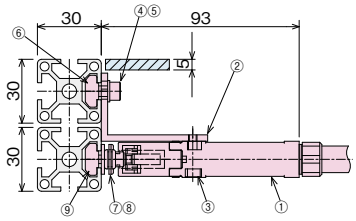


Safty Switch Kit L40-SSC

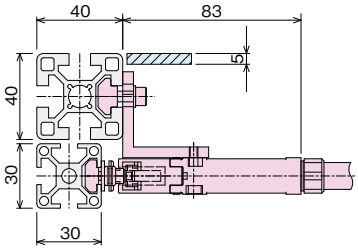


Safty Switch Kit L45-SSC

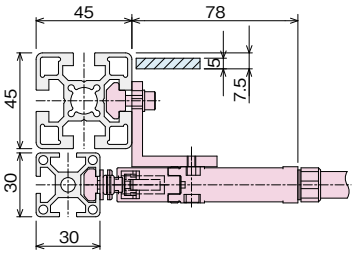
〈□30 Series Frame Door〉



Safty Switch Kit S-SC



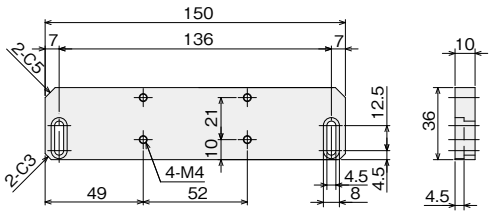
Safty Switch Kit L40-SC



Safty Switch Kit L45-SC

Part Drawing

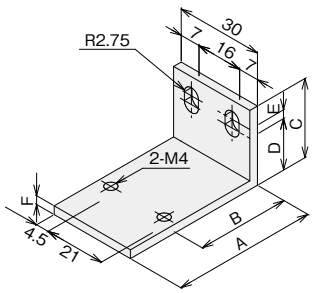
②SDP Plate
(Use for Resin Panel t5 Door)



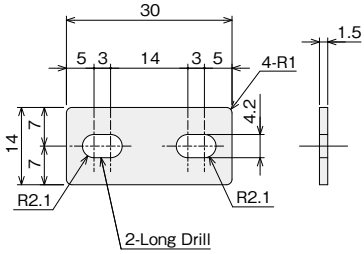
Name	SDP Plate
Item No.	SFA-470

■Material Aluminium Alloy
Alumite Treatment
■Weight 138g
■Environment RoHS Compliant
Green Procurement

②Safty Switch Bracket
(Use for Frame Door)



⑧Key Spacer
(Use for SF-30・30 Frame Door)



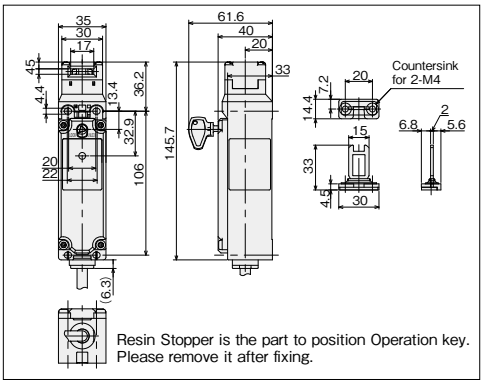
Door·Panel Parts Safty Door Switch Kit

Solenoid Switch Kit

* Small Solenoid Switch with built-in 4 Contact Points.



■Safety Switch Dimensional Outline Drawing



■Kit selection

Combination of Rim and Door		Name	Item No.
Frame at Rim-side	Door Side		
□20 Series	□20 Series Frame Door	Solenoid Switch Kit SS-SS	SFK-HF4A
□30 Series		Solenoid Switch Kit S-SS	SFK-HF4B
□40·45 Series		Solenoid Switch Kit L-SS	SFK-HF4C
□30 Series	□30 Series Frame Door	Solenoid Switch Kit S-S	SFK-HF4D
□40·45 Series		Solenoid Switch Kit L-S	SFK-HF4E

■We also sell Safty Switch as a single item.

Name	Item No.
HS5E Solenoid Safty Switch(with Operation Key)	SFK-HS5E

■Spec

IDEC Model【HS5E-D4401-G】Solenoid Safty Switch
【HS9Z-A52】Operation Key
Environment **RoHS** Correspondence

■Operation Characteristics

Direct Circuit Operation Power※	80N and up
Direct Circuit Operation Stroke※	12mm and up

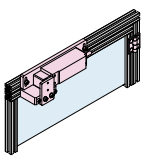
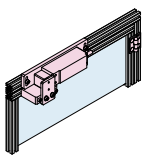
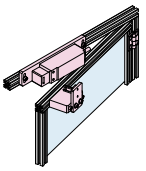
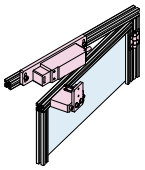
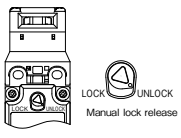
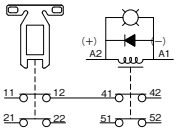
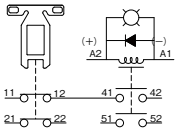
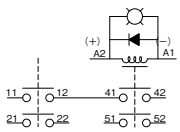
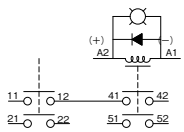
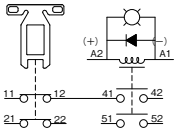
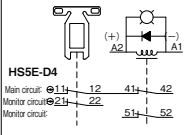
* Power and stroke to separate, assuming the case which contact-point deposits with the power of 10N per 1 contact point when it is not locked.

■Safety Standard

ISO14119
IEC60947-5-1
EN60947-5-1 (TÜV Approval)
EN1088
GS-ET-19 (BG Approval)
UL508 (UL Recognition Approval)
CSA C22.2 No.14 (c-UL Recognition Approval)

■ Types of Contact Point

:Contact point ON (Close)
:Contact point OFF (Open)

Condition of Safety Switch			Condition 1	Condition 2	Condition 3	Condition 4	When unlocked by manual lock release key
			·Door is closed. ·Machine is operatable. ·Solenoid is no excitation.	·Door is closed. ·Machine is inoperatable. ·Solenoid is excitation.	·Door is open. ·Machine is inoperatable. ·Solenoid is excitation.	·Door is open. ·Machine is inoperatable. ·Solenoid is no excitation.	·Door is closed. ·Machine is inoperatable. ·Solenoid is no excitation.
Picture of Door Condition							
Circuit Drawing							
Door			·Close (LOCKED)	·Close (UNLOCKED)	·Open	·Open	·Close
	2NC	Main circuit Between 11 and 42					
	1NC	Monitor circuit (Door isclose) Between 21 and 22					
	1NC	Monitor circuit (Lock) Between 51 and 52					
Solenoid Power Source Between A1 and A2 (Common for all systems)			·OFF (non-excitation)	·ON (excitation)	·ON (excitation)	·OFF (non-excitation)	·OFF (non-excitation)

● Main circuit: It sends out protective door's interlock signal, connecting to control circuit etc of machine's driving part.
● Monitor circuit: It sends out signal which monitors opening and closing protective door, or excitation/non-excitation of Solenoid.

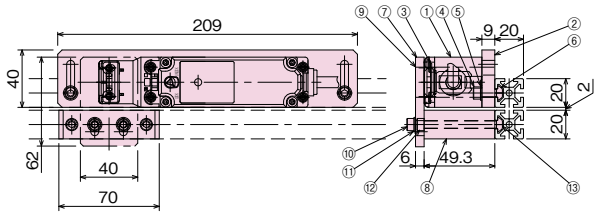
Parts
How to order
Item No. Quantity (pcs)
SFK-HF4A □□

■Kit Contents

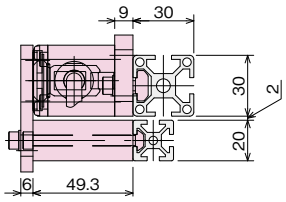
	Kit Component												
	Rim-Side Installment						Door-Side Installment						
	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬
Solenoid Switch Kit SS-SS	HS5E Solenoid Safty Switch (with Operation Key) ×1	Solenoid Switch Plate ×1	Hexagon Socket Bolt (M4×40) Stainless×4	Hexagon Socket Bolt (M5×15) Stainless×2	Flat Washer M5 Stainless×2	ST Nut SS (M5)×2	Key Plate ×1	Key Block ×1	Flat-Head Screw (M4×10) Stainless×2	Hexagon Socket Bolt (M5×20) Stainless×2	Flat Washer M5 Stainless×2	Hexagon Socket Bolt (M5×55) Stainless×2	ST Nut SS (M5)×2
Solenoid Switch Kit S-SS				Hexagon Socket Bolt (M5×18) Stainless×2		ST Nut S (M5)×2							
Solenoid Switch Kit L-SS				Hexagon Socket Bolt (M5×20) Stainless×2		ST Nut L (M5)×2							
Solenoid Switch Kit S-S				Hexagon Socket Bolt (M5×18) Stainless×2		ST Nut S (M5)×2							ST Nut S (M5)×2
Solenoid Switch Kit L-S				Hexagon Socket Bolt (M5×20) Stainless×2		ST Nut L (M5)×2							

Solenoid Switch Kit Installing Drawing

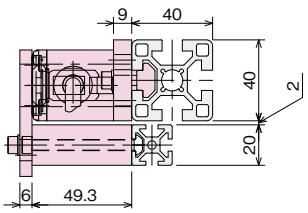
〈□20 Series Frame Door〉

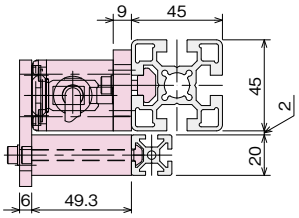


Solenoid Switch Kit SS-SS



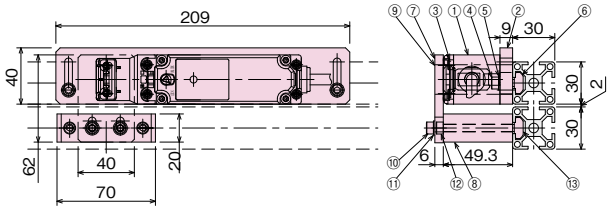
Solenoid Switch Kit S-SS



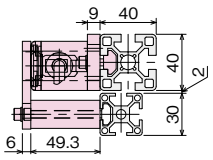


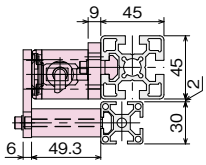
Solenoid Switch Kit L-SS

〈□30 Series Frame Door〉



Solenoid Switch Kit S-S

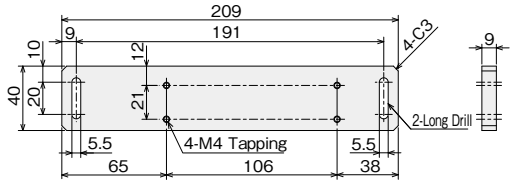




Solenoid Switch Kit L-S

Part Drawing

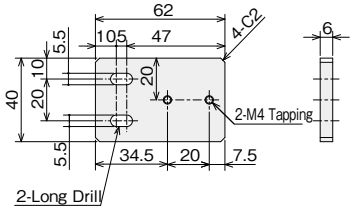
②Solenoid Switch Plate



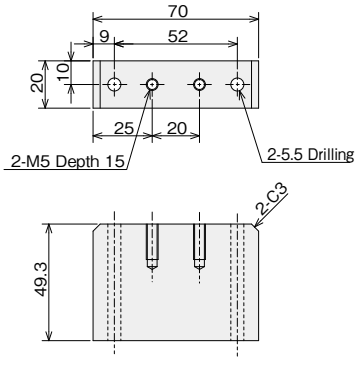
Name	Solenoid Switch Plate
Item No.	SFA-4HF4

■Material Aluminium Alloy
Alumite Treatment
■Weight 195g
■Environment RoHS Compliant
Green Procurement

⑦Key Plate



⑧Key Block



Door•Panel Parts Safty Door Switch Kit

Noncontact Safety Switch Kit

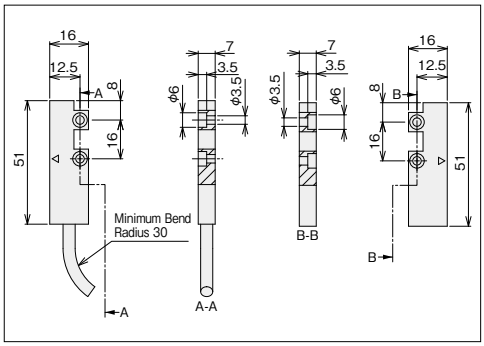
It hardly gets dust and is easy to align.
It resounds to safety category 4 (EN954-1) by the combination with exclusive relay module.



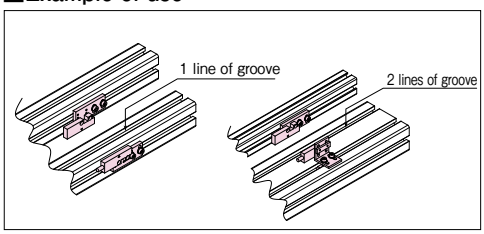
■Kit Contents

Frame at Door Side	Frame at Rim-side		Name	Item No.
	Frame Series	Line of groove		
□20 Series	□20 Series	1	HS7A2020 Kit	SFK-HS7A
	□30 Series	1	HS7A2030 Kit	SFK-HS7B
		2	HS7A2060 Kit	SFK-HS7C
	□40 Series	1	HS7A2040 Kit	SFK-HS7D
		2		
	□45 Series	1	HS7A2045 Kit	SFK-HS7E
		2		
□30 Series	□30 Series	1	HS7A3030 Kit	SFK-HS7F
		2	HS7A3060 Kit	SFK-HS7G
	□40 Series	1	HS7A3040 Kit	SFK-HS7H
	□45 Series	1		
		2		
	□40 Series	2	HS7A3080 Kit	SFK-HS7J
□40 Series	□40 Series	1	HS7A4040 Kit	SFK-HS7K
□45 Series	□45 Series	1		
□40 Series	□45 Series		HS7A4045 Kit	SFK-HS7L

■Safty Switch Dimensional Outline Drawing

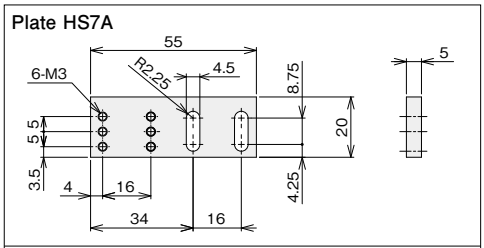


■Example of use

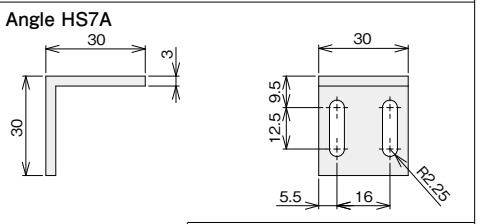


■Drawing of Installing Parts

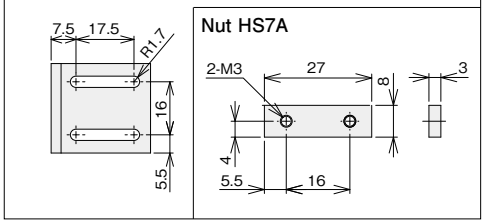
Plate HS7A



Angle HS7A



Nut HS7A



■ We also sell Noncontact Safety Switch as a single item.

Name	Item No.
Noncontact Safety Switch	SFA-HS7A

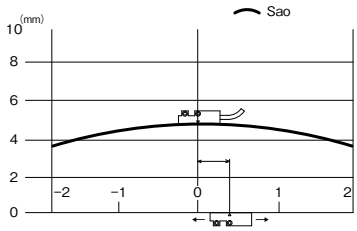
■Spec

IDEC Model【HS7A-DMC5912】

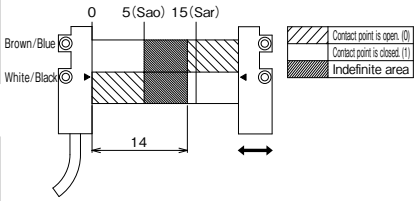
■Safty Standard

IEC60947-5-1/EN60947-5-1
IEC60947-5-2/EN60947-5-2
IEC60947-5-3/EN60947-5-3
UL508(UL Listing Approval)/
CSA C22.2 No.14

■Motion Area



■Contact System

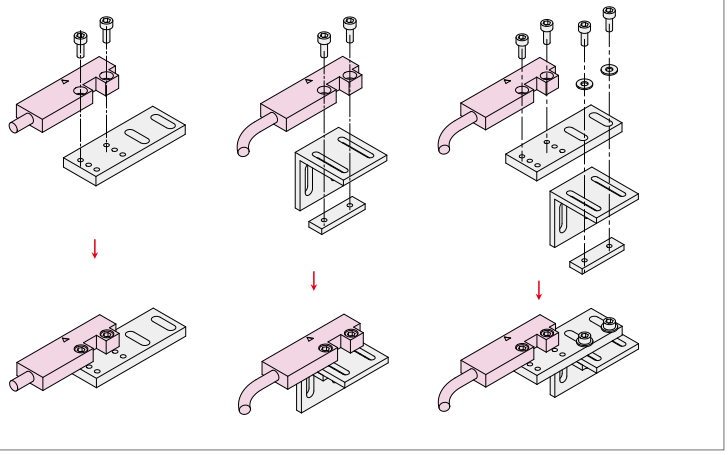


Sao: Minimum movable distance when safety output is ON.
Sar: Maximum movable distance when safety output is OFF.

Note) If actuator's time to move between Sao from Sar goes over 500ms, conflict will be detected and get error.

●Installing position can be decided depending on the purpose by various kinds of parts' combinations.

Example of Combination

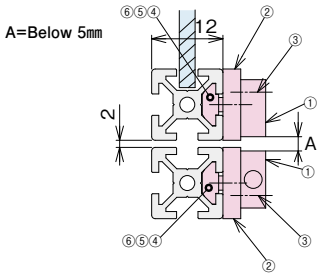


Parts How to order

Item No. Quantity (pcs)
SFK-HS7A □□

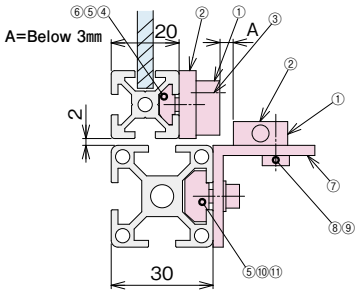
Noncontact Safty Switch Kit Installation Drawing

〈□20 Series Frame Door〉



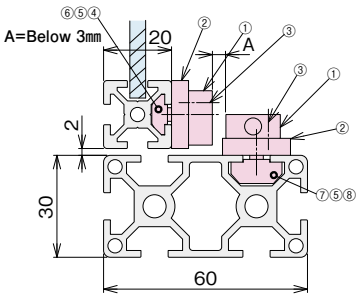
HS7A2020 Kit

Item No.		Contents・Component	Qty.
SFK-HS7A	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×10(Stainless)	4
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut SS(M4)	4



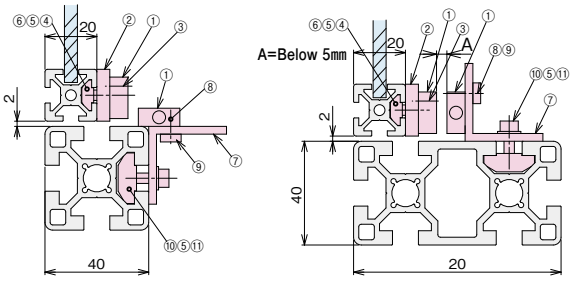
HS7A2030 Kit

Item No.		Contents・Component	Qty.
SFK-HS7B	①	HS7A	1
	②	Plate HS7A	1
	③	Hexagon Socket Bolt M3×8(Stainless)	2
	④	Hexagon Socket Bolt M4×10(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut SS(M4)	2
	⑦	Angle HS7A	1
	⑧	Hexagon Socket Bolt M3×12(Stainless)	2
	⑨	Nut HS7A	1
	⑩	Hexagon Socket Bolt M4×12(Stainless)	2
	⑪	ST Nut S(M4)	2



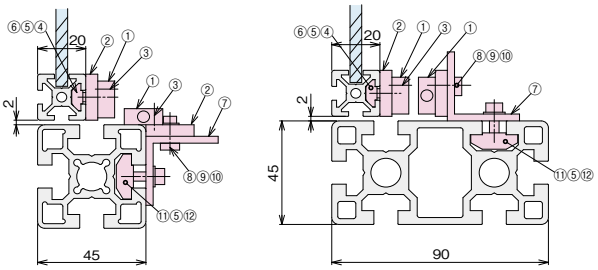
HS7A2060 Kit

Item No.		Contents・Component	Qty.
SFK-HS7C	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×10(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut SS(M4)	2
	⑦	Angle HS7A	1
	⑧	ST Nut S(M4)	2



HS7A2040 Kit
HS7A3040 Kit

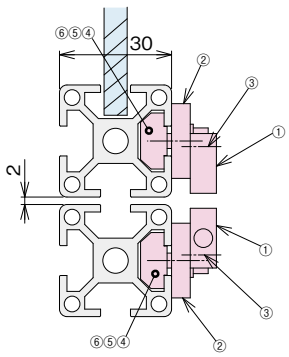
Item No.		Contents・Component	Qty.
SFK-HS7D	①	HS7A	1
	②	Plate HS7A	1
	③	Hexagon Socket Bolt M3×8(Stainless)	2
	④	Hexagon Socket Bolt M4×10(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut SS(M4)	2
	⑦	Angle HS7A	1
	⑧	Hexagon Socket Bolt M3×12(Stainless)	2
	⑨	Nut HS7A	1
	⑩	Hexagon Socket Bolt M4×15(Stainless)	2
	⑪	ST Nut L(M4)	2



HS7A2045 Kit

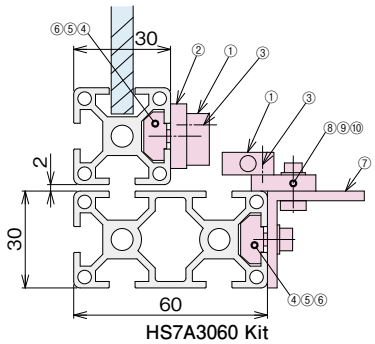
Item No.		Contents・Component	Qty.
SFK-HS7E	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×10(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut SS(M4)	2
	⑦	Angle HS7A	1
	⑧	Hexagon Socket Bolt M3×15(Stainless)	2
	⑨	Flat Washer M3(Stainless)	2
	⑩	Nut HS7A	1
	⑪	Hexagon Socket Bolt M4×15(Stainless)	2
	⑫	ST Nut L(M4)	2

〈□30 Series Frame Door ①〉



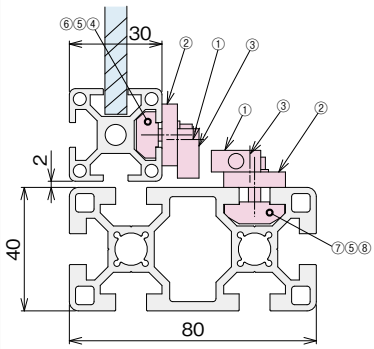
HS7A3030 Kit

Item No.		Contents・Component	Qty.
SFK-HS7F	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×12(Stainless)	4
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut S(M4)	4



HS7A3060 Kit

Item No.		Contents・Component	Qty.
SFK-HS7G	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×12(Stainless)	4
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut S(M4)	4
	⑦	Angle HS7A	1
	⑧	Hexagon Socket Bolt M3×15(Stainless)	2
	⑨	Flat Washer M3(Stainless)	2
	⑩	Nut HS7A	1

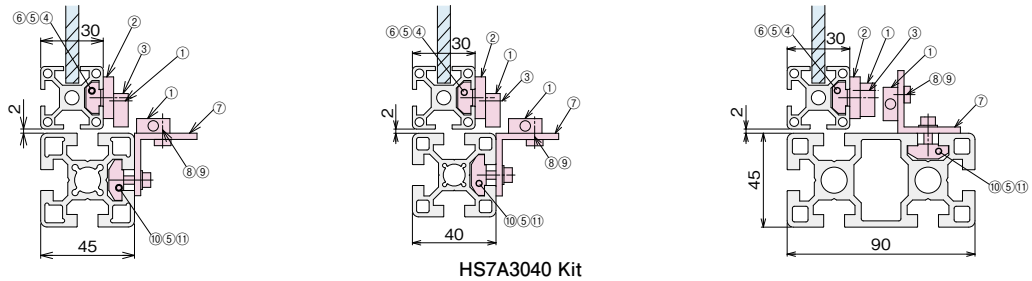


HS7A3080 Kit

Item No.		Contents・Component	Qty.
SFK-HS7J	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×12(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut S(M4)	2
	⑦	Hexagon Socket Bolt M4×18(Stainless)	2
	⑧	ST Nut L(M4)	2

Door•Panel Parts *Noncontact Switch Kit*

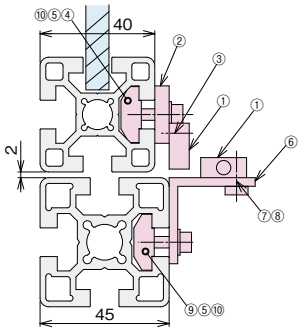
〈□30 Series Frame Door②〉



HS7A3040 Kit

Item No.		Contents•Component	Qty.
SFK-HS7H	①	HS7A	1
	②	Plate HS7A	1
	③	Hexagon Socket Bolt M3×8(Stainless)	2
	④	Hexagon Socket Bolt M4×12(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut S(M4)	2
	⑦	Angle HS7A	1
	⑧	Hexagon Socket Bolt M3×12(Stainless)	2
	⑨	Nut HS7A	1
	⑩	Hexagon Socket Bolt M4×15(Stainless)	2
	⑪	ST Nut L(M4)	2

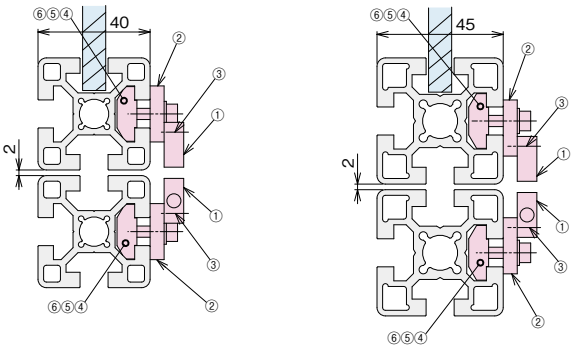
〈□40 Series Frame Door〉



HS7A4045 Kit

Item No.		Contents•Component	Qty.
SFK-HS7L	①	HS7A	1
	②	Plate HS7A	1
	③	Hexagon Socket Bolt M3×8(Stainless)	2
	④	Hexagon Socket Bolt M4×18(Stainless)	2
	⑤	Flat Washer M4(Stainless)	4
	⑥	Angle HS7A	1
	⑦	Hexagon Socket Bolt M3×12(Stainless)	2
	⑧	Nut HS7A	1
	⑨	Hexagon Socket Bolt M4×15(Stainless)	2
	⑩	ST Nut L(M4)	4

〈□40•□45 Series Frame Door〉



HS7A4040 Kit

Item No.		Contents•Component	Qty.
SFK-HS7K	①	HS7A	1
	②	Plate HS7A	2
	③	Hexagon Socket Bolt M3×8(Stainless)	4
	④	Hexagon Socket Bolt M4×18(Stainless)	4
	⑤	Flat Washer M4(Stainless)	4
	⑥	ST Nut L(M4)	4

Parts
How to order
Item No. Quantity (pcs)
SFK-HS7H □□



Door·Panel Parts Clean Fan Unit

Clean Fan Unit



Clean Fan Unit 3㎥



Clean Fan Unit 5㎥

■Spec

Name	Clean Fan Unit 3㎥(HEPA:100V)	Clean Fan Unit 3㎥(ULPA:100V)	Clean Fan Unit 5㎥(HEPA:100V)	Clean Fan Unit 5㎥(HEPA:200V)	Clean Fan Unit 5㎥(ULPA:100V)	Clean Fan Unit 5㎥(ULPA:200V)
Item No.	SFA-H031	SFA-U031	SFA-H051	SFA-H052	SFA-U051	SFA-U052
Dust Collection Efficiency (By dust in the air)	More than 99.99% (Particle more than 0.3μm)	More than 99.99% (Particle more than 0.1~0.2μm)	More than 99.99% (Particle more than 0.3μm)		More than 99.99% (Particle more than 0.1~0.2μm)	
Main Filter	Low pressure loss HEPA Filter	Low pressure loss ULPA Filter	Low pressure loss HEPA Filter		Low pressure loss ULPA Filter	
Main Filter Item No.	SFA-HF03	SFA-UF03	SFA-HF05		SFA-UF05	
Air Volume(㎥/min)	3.0(3.5)	2.5(3.0)	5.0(5.0)		4.0(4.0)	
Blowout Speed(m/sec)	0.38(0.44)	0.31(0.38)	0.39(0.39)		0.31(0.31)	
Noise(dBA)	53(54)	54(56)	55(56)		53(56)	
Consumed Electricity(W)	28(36)	27(36)	43(46)	51(53)	43(46)	50(52)
Power	AC100V1Φ50/60Hz		AC100V1Φ50/60Hz	AC200V1Φ50/60Hz	AC100V1Φ50/60Hz	AC200V1Φ50/60Hz
Dimension(mm)	W400×D400×H165		W500×D500×H185	W500×D500×H200	W500×D500×H185	W500×D500×H200
Weight(kg)	6.5		11.5			
Standard Equipment	Power code with ground plug 5m		Power code with ground plug 5m	Terminal Box Connection	Power code with ground plug 5m	Terminal Box Connection
	Saran net・with Pre-Filter					
	Attachment:Packing for installing to air outlet , Installing Screw					

Name	Clean Fan Unit 10㎥(HEPA:100V)	Clean Fan Unit 10㎥(HEPA:200V)	Clean Fan Unit 10㎥(ULPA:100V)	Clean Fan Unit 10㎥(ULPA:200V)	Clean Fan Unit 15㎥(HEPA:100V)	Clean Fan Unit 15㎥(HEPA:200V)	Clean Fan Unit 15㎥(ULPA:100V)	Clean Fan Unit 15㎥(ULPA:200V)
ItemNo.	SFA-H101	SFA-H102	SFA-U101	SFA-U102	SFA-H151	SFA-H152	SFA-U151	SFA-U152
Dust Collection Efficiency (By dust in the air)	More than 99.99% (Particle more than 0.3μm)		More than 99.99% (Particle more than 0.1~0.2μm)		More than 99.99% (Particle more than 0.3μm)		More than 99.99% (Particle more than 0.1~0.2μm)	
Main Filter	Low pressure loss HEPA Filter		Low pressure loss ULPA Filter		Low pressure loss HEPA Filter		Low pressure loss ULPA Filter	
Main Filter Item No.	SFA-HF10		SFA-UF10		SFA-HF15		SFA-UF15	
Air Volume(㎥/min)	10.0(10.0)		7.0(7.0)		15.0(15.0)		13.0(13.0)	
Blowout Speed(m/sec)	0.51(51.0)		0.35(0.35)		0.37(0.37)		0.32(0.32)	
Noise(dBA)	56(57)							
Consumed Electricity(W)	98(114)	100(118)	98(113)	103(117)	141(157)	141(158)	141(158)	140(156)
Power	AC100V1Φ50/60Hz	AC200V1Φ50/60Hz	AC100V1Φ50/60Hz	AC200V1Φ50/60Hz	AC100V1Φ50/60Hz	AC200V1Φ50/60Hz	AC100V1Φ50/60Hz	AC200V1Φ50/60Hz
Dimension(mm)	W610×D610×H185	W610×D610×H200	W610×D610×H185	W610×D610×H200	W610×D1220×H200	W610×D1220×H215	W610×D1220×H200	W610×D1220×H215
Weight(kg)	14.5				22.0			
Standard Equipment	Power code with ground plug 5m	Terminal Box Connection	Power code with ground plug 5m	Terminal Box Connection	Power code with ground plug 5m	Terminal Box Connection	Power code with ground plug 5m	Terminal Box Connection
	With Saran Net and Pre-Filter							
	Accessory:Packing for installing to air outlet , Installing Screw							

● Number in ( ) is for 60Hz spec. Noise is measured at 1m from air outlet in anechoic room. ● The size of 200V spec's H includes terminal box.

■Characteristics



● **Metallic Silver Body**
Simple appearance with the similar color with stainless frame.



● **Easy Installation**
With the hole or nut (M4) on the blower and exclusive plate enabled easy installation.



● **LED Operation Indicator**
Operation condition can be confirmed easily.



● **200V Specification**
Single Phase 200V is lined up.
(Only 100V spec for Green Fan Unit 3㎥)

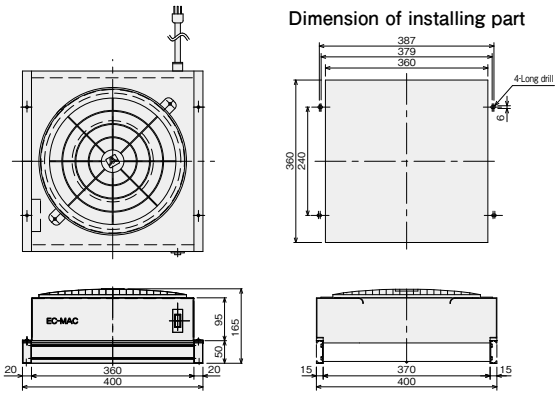
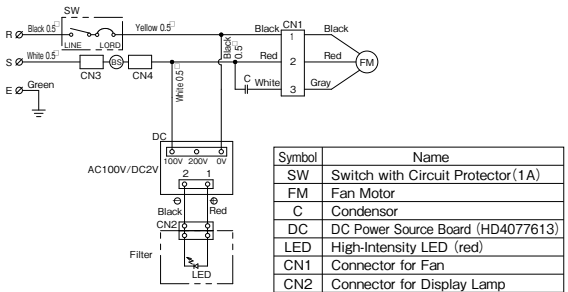
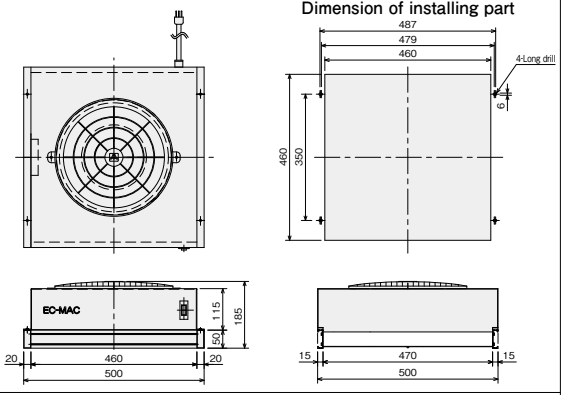
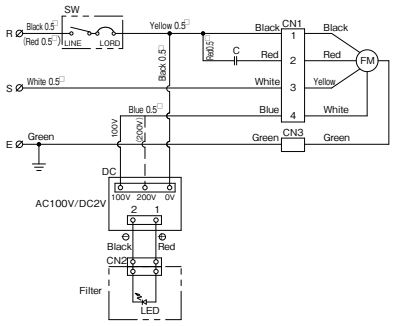
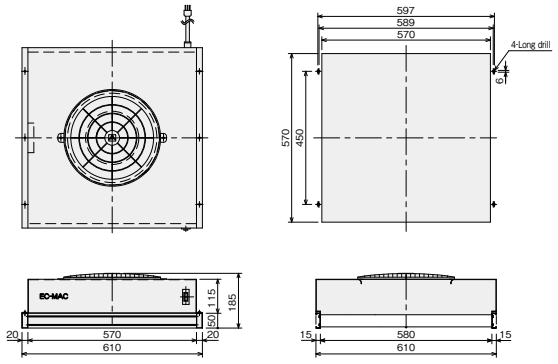
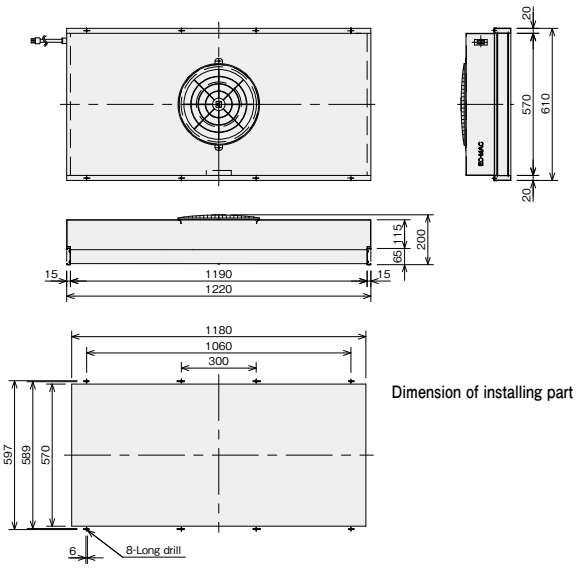
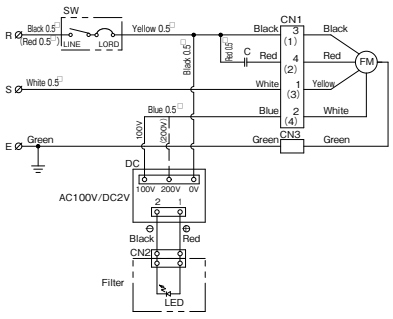


● **Overcurrent Protection**
Circuit-protector built-in switch on the body protects air blower from burnout by insulating overcurrent.



● **Long Life**
With the pre-filter to collect the dust, the main filter extends the life time and the blower is protected.

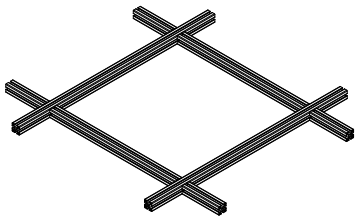
Parts
How to order
Item No. Quantity (pcs)
SFA-H031 □□

Type	Dimensional Outline Drawing ●Terminal Box is provided with 200V Spec.(Height+15)	Wiring Drawing
Clean Fan Unit 3㎥	Dimension of installing part 	AC100V, 1φ, 50/60Hz  Symbol / Name SW — Switch with Circuit Protector(1A) FM — Fan Motor C — Condensor DC — DC Power Source Board (HD4077613) LED — High-Intensity LED (red) CN1 — Connector for Fan CN2 — Connector for Display Lamp CN3, 4 — Connector for Bimethal Thermometer BS — Bimethal Thermometer(90℃)
Clean Fan Unit 5㎥	Dimension of installing part 	AC100V, 1φ, 50/60Hz Inside parenthesis and dashed line is 200V spec.  Symbol / Name SW — Switch with Circuit Protector (100V:2A 200V:1A) FM — Fan Motor C — Condensor DC — DC Power Source Board (HD4077613) LED — High-Intensity LED (red) CN1 — Connector for Fan CN2 — Connector for Display Lamp CN3 — Connector for Earthing
Clean Fan Unit 10㎥	Dimension of installing part 	
Clean Fan Unit 15㎥	 Dimension of installing part	AC100V, 1φ, 50/60Hz Inside parenthesis and dashed line is 200V spec.  Symbol / Name SW — Switch with Circuit Protector (100V:3A 200V:2A) FM — Fan Motor C — Condensor DC — DC Power Source Board(HD4077613) LED — High-Intensity LED (red) CN1 — Connector for Fan CN2 — Connector for Display Lamp CN3 — Connector for Earthing

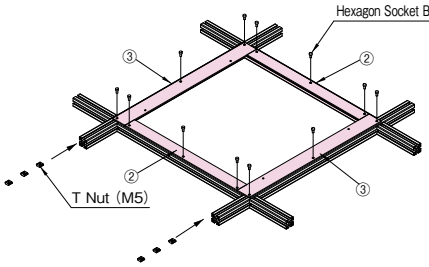
Door•Panel Parts Clean Fan Unit

How to install to Aluminum Frame Fixed by four exclusive plates

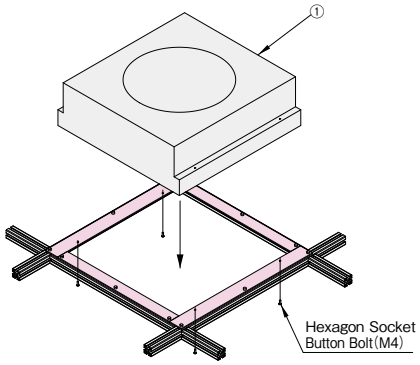
Attaching Procedure



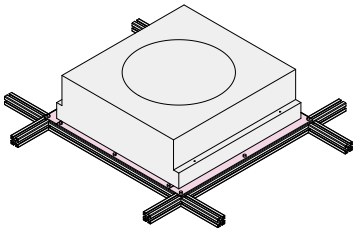
①Preparation of the attaching part
Please refer "Size indication of attaching part" and set up.



②Fixing the exclusive attaching plate
Please determine the parts referring the "Plate selection table".

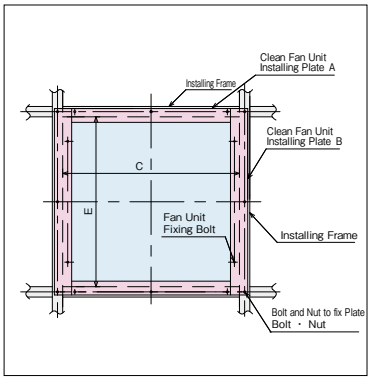


③Fixing the Clean Fan Unit



④Completion

■Dimension Indication at Attaching Part



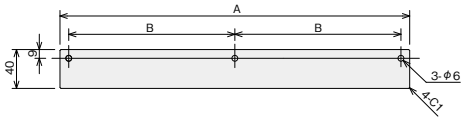
Clean Fan Type	Frame at Installing Part	Size of opening part(mm)	
		C	E
Clean Fan Unit 3㎥	SF30 Series	412	392
	SF40 Series	402	382
	SF45 Series	397	377
Clean Fan Unit 5㎥	SF30 Series	512	492
	SF40 Series	502	482
	SF45 Series	497	477
Clean Fan Unit 10㎥	SF30 Series	622	602
	SF40 Series	612	592
	SF45 Series	607	587
Clean Fan Unit 15㎥	SF30 Series	622	1,212
	SF40 Series	612	1,202
	SF45 Series	607	1,197

■Table to select Plate

Clean Fan Type ①	Installing Parts	
	②	③
Clean Fan Unit 3㎥	Clean Fan Unit 3㎥ Installing Plate A×2	Clean Fan Unit 3㎥ Installing Plate B×2
Clean Fan Unit 5㎥	Clean Fan Unit 5㎥ Installing Plate A×2	Clean Fan Unit 5㎥ Installing Plate B×2
Clean Fan Unit 10㎥	Clean Fan Unit 10·15㎥ Installing Plate A×2	Clean Fan Unit 10㎥ Installing Plate B×2
Clean Fan Unit 15㎥		Clean Fan Unit 15㎥ Installing Plate B×2

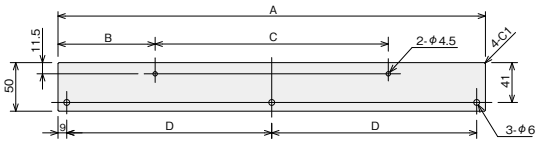
■Dimensional Outline Drawing of Attaching Plate(mm)

Clean Fan Unit 3・5・10・15㎥ Installing Plate A Size・Thickness：Refer Table Below



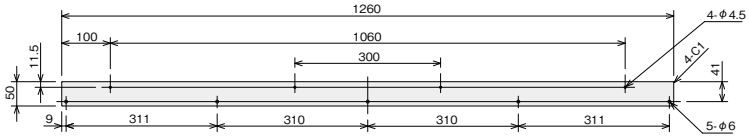
■Material A6063

Clean Fan Unit 3・5・10㎥ Installing Plate B Size・Thickness：Table Below



■Material A6063

Clean Fan Unit 15㎥ Installing Plate B Size・Thickness (mm) t=5



■Material A6063

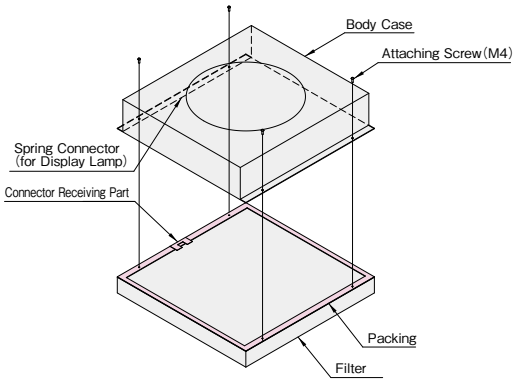
■Size

Name	Item No.	Drawing Dimension(mm)				THickness(mm)	Weight (g)
		A	B	C	D	t	
Clean Fan Unit 3㎥ Installing Plate A	SFA-H03A	360	171	–	–	3	115.5
Clean Fan Unit 5㎥ Installing Plate A	SFA-H05A	460	221				147.8
Clean Fan Unit 10・15㎥ Installing Plate A	SFA-H10A	570	276			5	305.5
Clean Fan Unit 3㎥ Installing Plate B	SFA-H03B	440	100	240	211	3	176.6
Clean Fan Unit 5㎥ Installing Plate B	SFA-H05B	540	95	350	261		216.9
Clean Fan Unit 10㎥ Installing Plate B	SFA-H10B	650	100	450	316	5	435.5
Clean Fan Unit 15㎥ Installing Plate B	SFA-H15B	Refer Drawing					844.6

Parts
How to order
Item No. Quantity (pcs)
SFA-H03A □□
Example of order

Main Filter for exchange

■Filter exchange drawing



* Please exchange filters after taking the screw out by driver.
* Please position the connector for indication light.

■Table to select Main Filter for Exchange

Clean Fan Unit Body	Main Filter		
	Name	Item No.	Weight(kg)
Clean Fan Unit Body 3㎥(HEPA:100V)	HEPA Filter for Exchange 3㎥	SFA-HF03	1.1
Clean Fan Unit Body 3㎥(ULPA:100V)	ULPA Filter for Exchange 3㎥	SFA-UF03	
Clean Fan Unit Body 5㎥(HEPA:100V)	HEPA Filter for Exchange 5㎥	SFA-HF05	1.5
Clean Fan Unit Body 5㎥(HEPA:200V)			
Clean Fan Unit Body 5㎥(ULPA:100V)	ULPA Filter for Exchange 5㎥	SFA-UF05	
Clean Fan Unit Body 5㎥(ULPA:200V)			
Clean Fan Unit Body 10㎥(HEPA:100V)	HEPA Filter for Exchange 10㎥	SFA-HF10	2.4
Clean Fan Unit Body 10㎥(HEPA:200V)			
Clean Fan Unit Body 10㎥(ULPA:100V)	ULPA Filter for Exchange 10㎥	SFA-UF10	
Clean Fan Unit Body 10㎥(ULPA:200V)			
Clean Fan Unit Body 15㎥(HEPA:100V)	HEPA Filter for Exchange 15㎥	SFA-HF15	6.0
Clean Fan Unit Body 15㎥(HEPA:200V)			
Clean Fan Unit Body 15㎥(ULPA:100V)	ULPA Filter for Exchange 15㎥	SFA-UF15	
Clean Fan Unit Body 15㎥(ULPA:200V)			

If dust accumulated to the Main Filter, air would hardly pass it, and wind speed and air volume decreases. Generally, the condition that they become 1/2 corresponds the life time. Indication of exchanging Main Filters is about 1 year inside general room, and about 5 years inside the room with ISO class 7 (Class 10,000), in case of continuous operation.
Please see P166 for the types of main filter by machine types.

■Packing seal for exchange(With two-sided tape on one side only.

If you want to increase the adhesion, please use two-sided tape on both sides.)

Main Filter	Name	Item No.	Weight(g)
Filter for Exchange 3㎥(HEPA:ULPA common)	Packing seal for exchange 3㎥	SFA-HP03	17.0
Filter for Exchange 5㎥(HEPA:ULPA common)	Packing seal for exchange 5㎥	SFA-HP05	22.5
Filter for Exchange10㎥(HEPA:ULPA common)	Packing seal for exchange10㎥	SFA-HP10	25.0
Filter for Exchange15㎥(HEPA:ULPA common)	Packing seal for exchange15㎥	SFA-HP15	41.0

Indication of Clean Space

●What is the standard of cleanness?

Generally, cleanness inside booth is expressed like Class100 or Class1000, etc. The fewer the number, the better the cleanness level. Although we wish to get better cleanness level, we need to consider about cost and the balance with outside cleanness.

●Standard of cleanness (clean room)

As the idiomatically used standards, there is FED standard (Federal standard FED-STD-209E) and it's defined by the amount of particle included in 1cf (cubic feet). It is the standard which expresses how much small dust which has the diameter of 0.5μm can exist in a space of 1cf. The cleanness level becomes higher if the number of particle is fewer.

Clean Room Class	Amount of Particle (More than 0.5μm)
100,000	100,000
10,000	10,000
1,000	1,000
100	100

●Approximate value of ventilation frequency

The following table shows the approximate value of ventilation frequency by classes. It is the standard that indicates how many times ventilation must be done per 1 hour. The cleanness level becomes higher if the ventilation frequency increases.

Clean Room class	General Numeric Value
100,000	20~30 times／h
10,000	30~70 times／h
1,000	100~200 times／h
100	200~600 times／h

Formula for ventilation frequency in clean booth can be indicated as follows.

$$\text{Number of ventilation per 1 hour (times/h)} = \frac{\text{Air volume (㎥／min)} \times 60\text{min}}{\text{Space capacity (㎥)}}$$

Or

$$\frac{\text{Average speed of airflow (m／sec)} \times \text{Ventilating area (㎡)} \times 3600\text{cc}}{\text{Space capacity (㎥)}}$$

* Please take this just as indications because it differs according to conditions of Surrounding cleanliness and Ventilating wind speed.

Example of Use



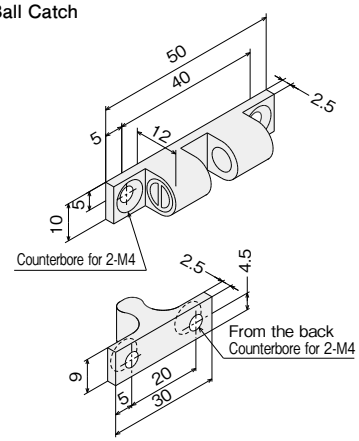


Door•Panel Parts Ball Catch

Ball Catch Exclusive Bracket



Ball Catch

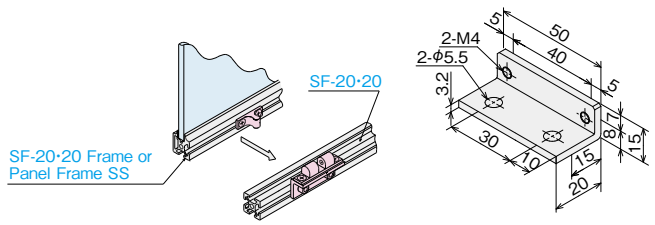


■Material/Technical Data

Material Zinc Alloy(ZDC)(Ball Catch)
Chrome Plating Treatment
Weight 24g(Ball Catch)
Pulling Load (Reference Value):18.6N
Inserting Load (Reference Value):27.5N

Name(Single Item)	Ball Catch
Item No.	SFA-41A

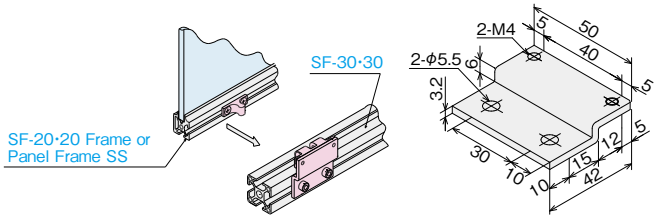
BW Bracket SS Kit



Material/SPHC Uni-Chrome Plating

Kit Contents
- Ball Catch×1
- BW Bracket SS×1
- Flat-Head Screw(M4×6)×2
- Flat-Head Screw(M4×8)×2
- T Nut SS M4×2
- T Nut SS M5×2
- Hexagon Socket Bolt (M5×8)×2

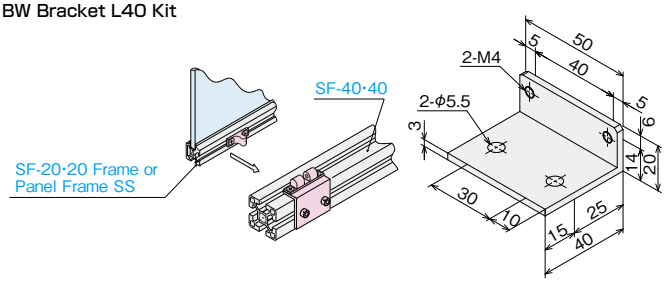
BW Bracket S Kit



Material/SPHC Uni-Chrome Plating

Kit Contents
- Ball Catch×1
- BW Bracket S×1
- Flat-Head Screw(M4×6)×2
- Flat-Head Screw(M4×8)×2
- T Nut SS M4×2
- T Nut S M5×2
- Hexagon Socket Bolt (M5×10)×2

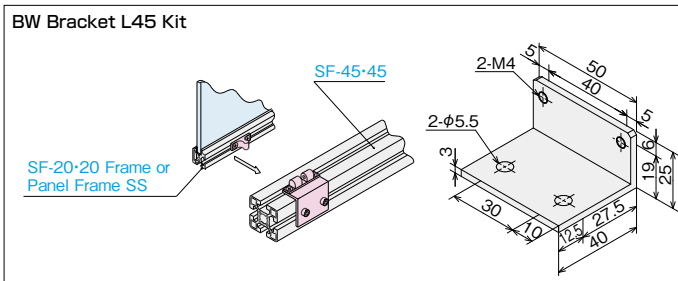
BW Bracket L40 Kit



Material/A6063 Alumite Treatment

Kit Contents
- Ball Catch×1
- BW Bracket L40×1
- Flat-Head Screw(M4×6)×2
- Flat-Head Screw(M4×8)×2
- T Nut SS M4×2
- T Nut L M5×2
- Hexagon Socket Bolt (M5×12)×2

BW Bracket L45 Kit



Material/A6063 Alumite Treatment

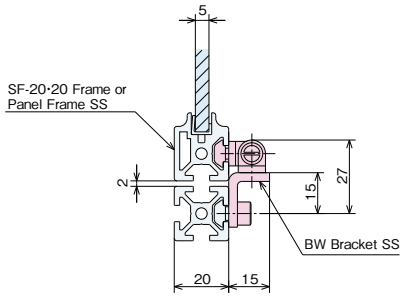
Kit Contents
- Ball Catch×1
- BW Bracket L45×1
- Flat-Head Screw(M4×6)×2
- Flat-Head Screw(M4×8)×2
- T Nut SS M4×2
- T Nut L M5×2
- Hexagon Socket Bolt (M5×15)×2

Name(Bolt and Nut Kit)	BW Bracket SS Kit	BW Bracket S Kit	BW Bracket L40 Kit	BW Bracket L45 Kit
Item No.	SFK-4BA	SFK-4BB	SFK-4BC	SFK-4BD

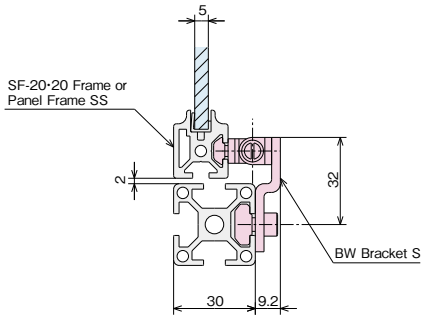
Parts
How to order
Item No. Quantity (pcs)
SFA-41A □□

Use Example when using Ball Catch

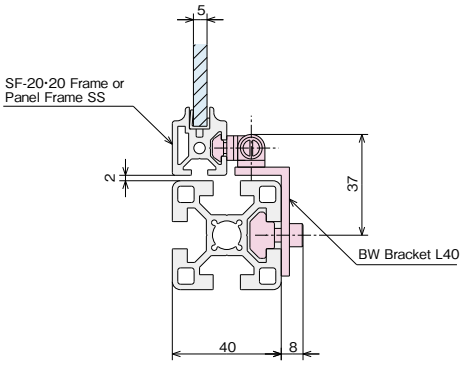
<Dimension Indication when using SF-20·20 Frame or Panel Frame SS Door>



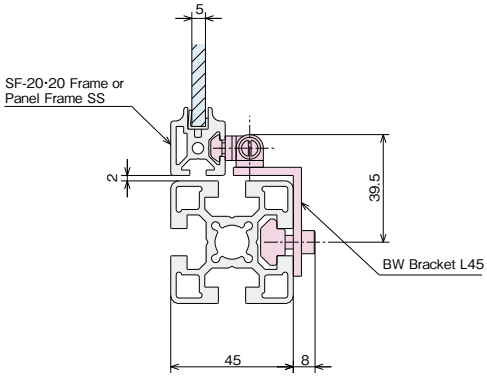
BW Bracket SS Kit



BW Bracket S Kit



BW Bracket L40 Kit



BW Bracket L45 Kit

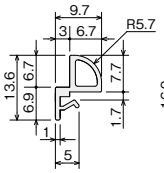
Door•Panel Parts

Panel Fix (Resin) / Panel Fix Rubber

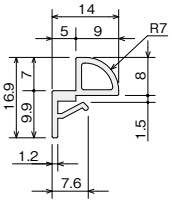


■Material/Technical Data
Material (Panel Fix)PP/Light Gray
(Rubber)CSM60°±5°(Synthetic Rubber)/Light Gray
Unit Mass Panel Fix 37.5g/m(SS) 51g/m(S) 60g/m(L)
Panel Fix Rubber(for t=3) (ℓ=5000㎜) 525g(30) 805g(4045)
Panel Fix Rubber (ℓ=5000㎜) 638g(2030) 742g(4045)
Environment **RoHS** Compliant **Green** Procurement

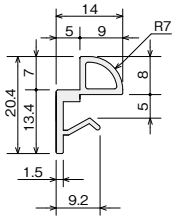
Panel Fix SS



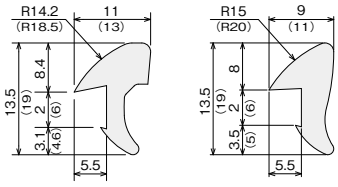
Panel Fix S



Panel Fix L



Panel Fix Rubber 30(for t=3) Panel Fix Rubber 2030
Panel Fix Rubber 4045(for t=3) Panel Fix Rubber 4045



( ): 4045(for t=3) ( ): 4045

■Plate Thickness Mapping

Name / Thickness	30 (for t=3)	4045 (for t=3)	2030		4045
3	○	○	○	×	×
5	×	×	×	○	○
Frame Series	SF-30	SF-40·45	SF-20	SF-30	SF-40·45

●Standard Length Products (L=2000) are to be cut by customer.

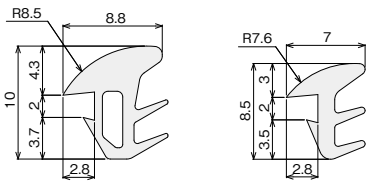
Name	Panel Fix SS (ℓ=2000)	Panel Fix SS (ℓ=50~2000)	Panel Fix S (ℓ=2000)	Panel Fix S (ℓ=50~2000)	Panel Fix L (ℓ=2000)	Panel Fix L (ℓ=50~2000)	Panel Fix Rubber(ℓ=5000㎜) 30(for t=3)	4045(for t=3)	2030	4045
Item No.	SFA-P11	SFA-P14	SFA-P21	SFA-P24	SFA-P31	SFA-P34	SFA-142	SFA-144	SFA-141	SFA-143

Panel Clamp

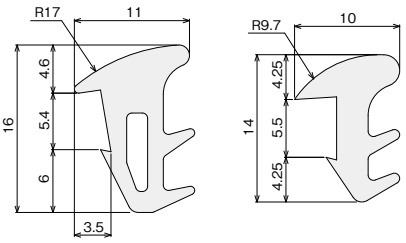


■Material/Technical Data
Material CSM60°±5°(Synthetic Rubber)/Light Gray
Weight 51.4g(30(for T3)) 111g(for 4045T3)
216g(20(for T3)30(for T5)) 528g(for 4045T5)
Environment **RoHS** Compliant **Green** Procurement

Panel Clamp
30(for T3) 20(for T3)30(for T5)



Panel Clamp
4045(for T3) 4045(for T5)



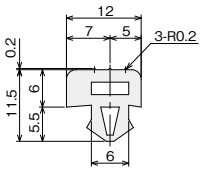
Name	Panel Clamp(ℓ=5000㎜) 30(for T3)	20(for T3)30(for T5)	Panel Clamp(ℓ=5000㎜) 4045(for T3)	4045(for T5)
Item No.	SFA-125	SFA-121	SFA-126	SFA-123

Seal Cover

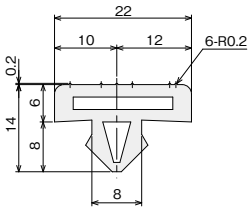


■Material/Technical Data
Material CSM60°±5°(Synthetic Rubber)
Light Gray
Weight 327g(SS)
516g(S) 801g(L)
Environment **RoHS** Compliant **Green** Procurement

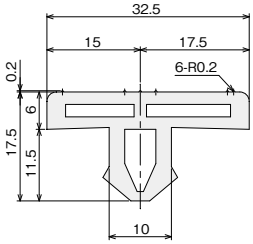
Seal Cover SS



Seal Cover S



Seal Cover L

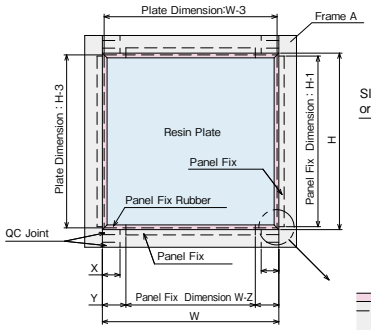


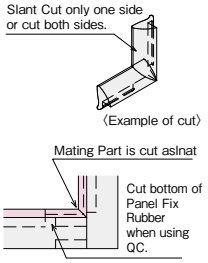
Name	Seal Cover SS(ℓ=2500㎜)	Seal Cover S(ℓ=2500㎜)	Seal Cover L(ℓ=2500㎜)
Item No.	SFA-131	SFA-133	SFA-135

Parts
How to order
Item No. Quantity (pcs)
SFA-P11 □□

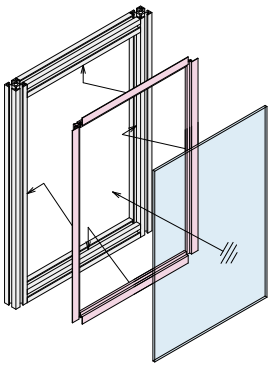
How to install Panel Fix and Panel Fix Rubber

〈Indication of Installation Size and Parts Selection〉

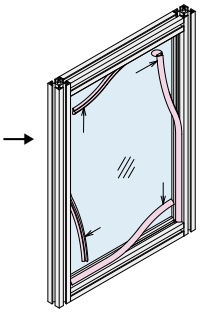




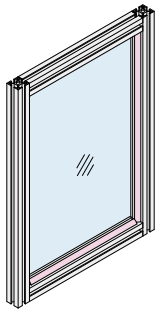
Frame A	Panel Fix (Resin)	Panel Fix Rubber	Resin Plate Thickness	QC Joint	X	Y	Z
SF20 Series	Panel Fix SS	Panel Fix Rubber 2030	3mm	QC Joint SS	19.5	25	50
SF30 Series	Panel Fix S	Panel Fix Rubber 2030	3mm or 5mm	QC Joint S	27	30	60
SF40·45 Series	Panel Fix L	Panel Fix Rubber 4045	3mm or 5mm	QC Joint L	35	40	80



● Cut aslant only one side or both sides. <Example of cutting>



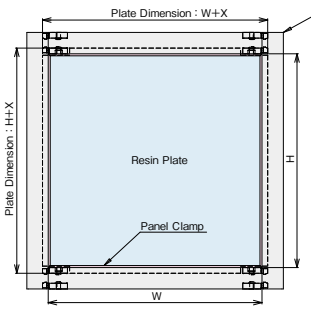
● Cut aslant mating part.



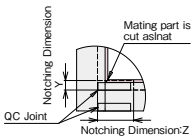
● Cut bottom of Panel Fix Rubber when using QC.

How to install Panel Clamp

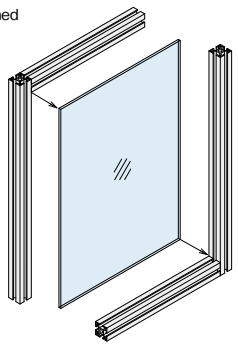
〈Indication of Installation Size and Parts Selection〉



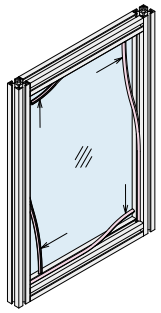
● Resin Plate needs to be notched when using QC Joint.



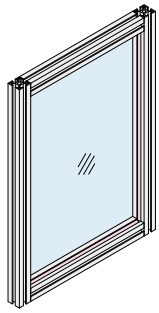
Frame A	Panel Clamp	Resin Plate Thickness	QC Joint	X	Y	Z
SF-20 Series	Panel Clamp 2030	3mm	QC Joint SS	10	6	25.5
SF-30 Series	Panel Clamp 2030	3mm or 5mm	QC Joint S	16	9	36
SF-40 Series	Panel Clamp 4045	3mm or 5mm	QC Joint L	23	12	47.5
SF-45 Series	Panel Clamp 4045	3mm or 5mm	QC Joint L	24	13	



● Insert Resin Panel into the groove before assembling the frames.

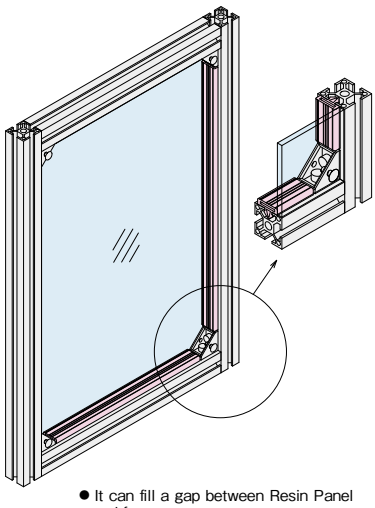


● Push Panel Clamp into the gap between Resin Panel and Frame's groove.

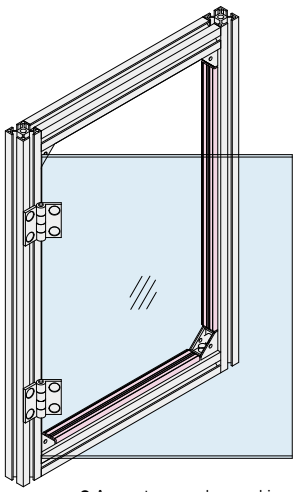


● Cover can be fixed with the simple appearance and Resin Panel won't jolt.

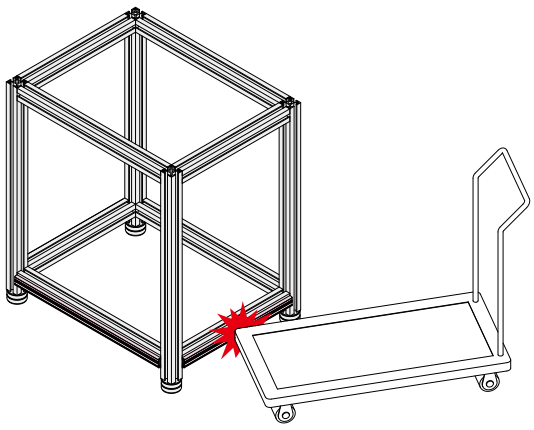
How to use Seal Cover



● It can fill a gap between Resin Panel and frame.



● As a stopper when making a resin door.



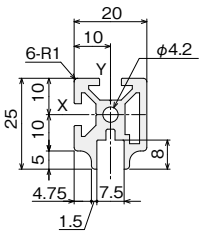
● To protect Aluminum Frame.

Door•Panel Parts Panel Frame[For Small and Medium Door]

Panel Frame SS ／Panel Hold T5 ／TC Block SS

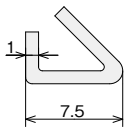


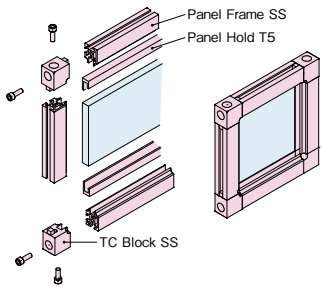
Panel Frame SS



* Based on a groove shape SF20.

Panel Hold T5





※M5 Tapping is needed to the cut surface of Panel Frame.
(Refer P209～ for details)

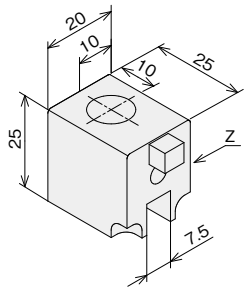
Name	Panel Frame SS ℓ=4000	Panel Frame SS ℓ=50~4000	Panel Hold T5
Item No.	SFF-T62	SFF-T64	SFA-108

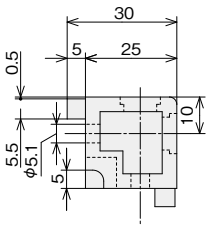
■Material/Technical Data

Material	Aluminium Alloy(Panel Frame) Alumite Treatment Ethylene Vinyl Acetate(Panel Hold T5) ZDC2(TC Block SS)
Weight	0.6/m(Panel Frame)·Frame ℓ=4030㎜ 14g/m (ℓ=2000㎜/pcs) (Panel Hold T5) 45g(TC Block SS)※
Environment	**RoHS** Compliant **Green** Procurement

※Hexagon Socket Bolt M5×15 with 2 pcs

TC Block SS



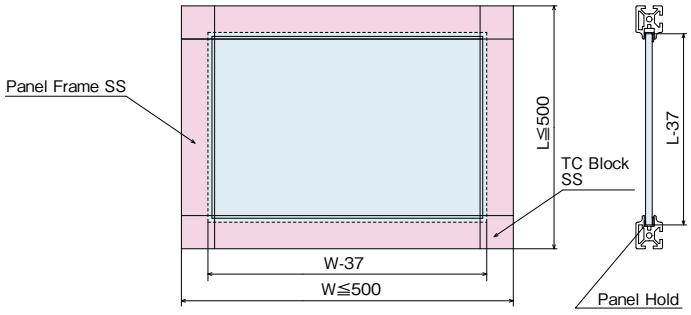


View Z

Name	TC Block SS
Item No.	SFK-Q01

Size indication for Panel Frame

〈Size indication for Panel Frame, Resin Plate〉

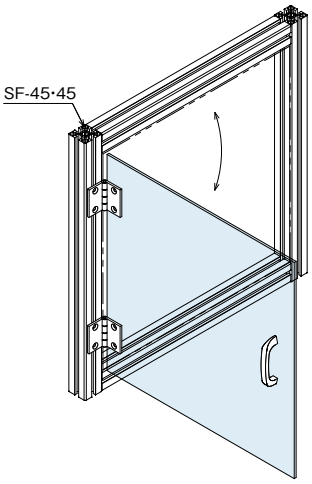


There is a risk that the Panel Frame sags if cover size becomes more than 500 × 500. We recommend that you use SF20 or SF30 series to build the frame.

Example of order

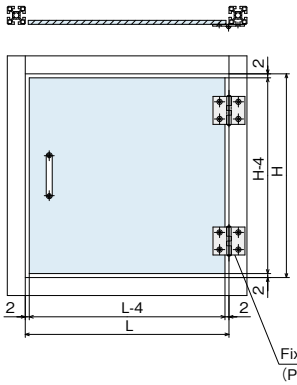
Parts
How to order
Item No. Quantity (pcs)
SFF-T62 □□

Installment Indication for Resin Panel Door (Small door)

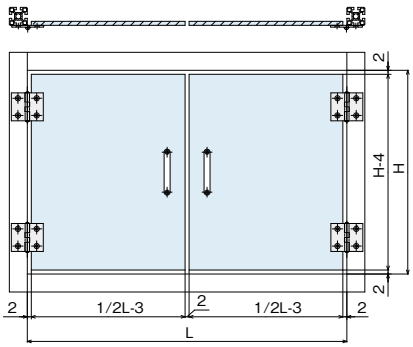


● This drawing is example of using Fixed Hinge (M6).

(In case of Single Swing Door)

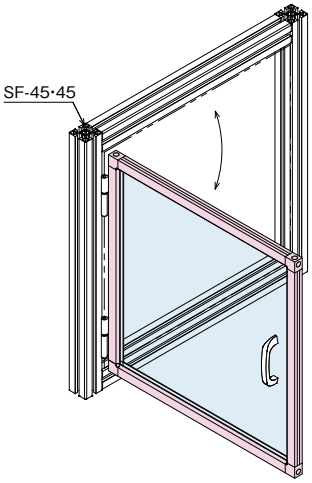


(In case of Hinged Double Door)



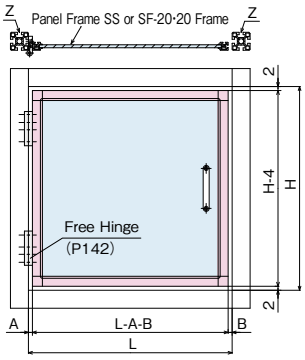
※Refer from P140 for Hinge and Magnet Catch.

Installment Indication for Panel Frame Door(Small and Medium Door)

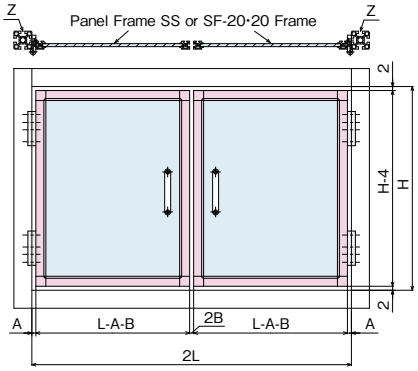


● This drawing is example of using Free Hinge 4520L.

(In case of Single Swing Door)



(In case of Hinged Double Door)

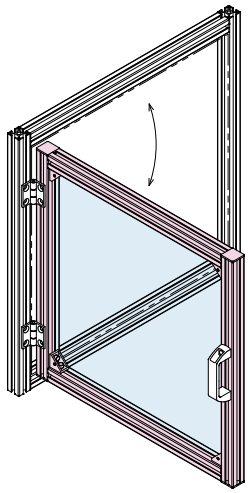


〔Dimension Indication when creating Panel Frame Door〕

Z	SF20 or SF30			SF40 or SF45		
Lmm	200 ≦ 329	330 ≦ 699	700 and up	200 ≦ 329	330 ≦ 699	700 and up
Amm	4.6(SF20)			5.0(SF30·40·45)		
Bmm	3	2.5	2	3	2.5	2

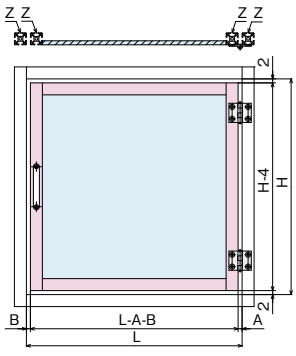
※Refer from P140 for Hinge and Magnet Catch.

Installment Indication for Frame Door(Medium and Large Door)

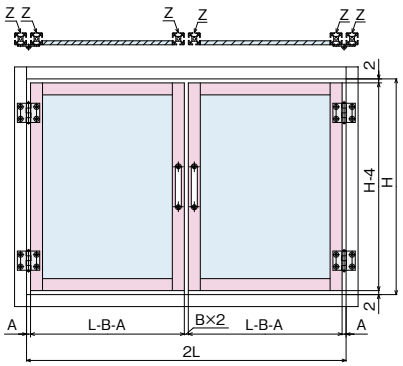


● This drawing is example of using Fixed Hinge S.

(In case of Single Swing Door)



(In case of Hinged Double Door)



〔Dimension Indication when creating Frame Door〕When using Fixed Hinge

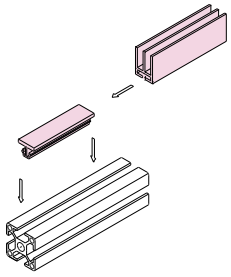
Z	SF20	SF30		SF40 or SF45			
Lmm		250 ≦ 439	440 and up	215 ≦ 399	400 ≦ 699	700 ≦ 999	1000 and up
Bmm	2	3	2	5	4	3	2
Amm	1	2		2			

※Refer from P140 for Hinge and Magnet Catch.

Door•Panel Parts Rail[For Small Sliding Door]

Sliding Door Rail (Resin)





■Material/Technical Data

	Slide Rail	Slot Connector
Material	ABS Light Gray	Polypropylene Light Gray
Unit Mass	0.18kg/m (2 Rows) 0.28kg/m (3 Rows)	0.06kg/m(SS) 0.07kg/m(S) 0.08kg/m(L)

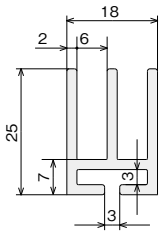
Environment **RoHS** Compliant **Green** Procurement

■Usable Frame

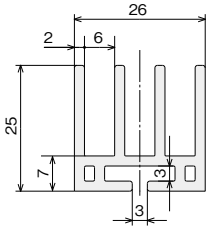


Sliding Rail…… Joint to each Slot Connector
Slot Connector SS…… For SF20 series (Groove Width 6mm)
Slot Connector S…… For SF30 series (Groove Width 8mm)
Slot Connector L… For SF40·50 series (Groove Width 10mm)

Slide Rail (2 Rows)



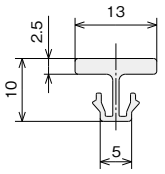
Slide Rail (3 Rows)



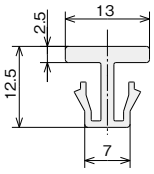
●Standard Length Products(ℓ=2000)are to be cut by customer.

Name	Slide Rail (2 Rows) (ℓ=2000)	Slide Rail (2 Rows) (ℓ=50~2000)	Slide Rail (3 Rows) (ℓ=2000)	Slide Rail (3 Rows) (ℓ=50~2000)
Item No.	SFA-R01	SFA-R04	SFA-R11	SFA-R14

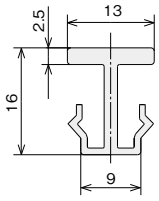
Slot Connector SS



Slot Connector S



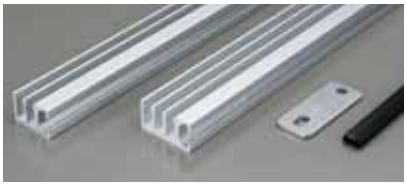
Slot Connector L

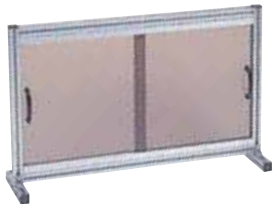


●Standard Length Products(ℓ=2000)are to be cut by customer.

Name	Slot Connector SS (ℓ=2000)	Slot Connector SS (ℓ=50~2000)	Slot Connector S (ℓ=2000)	Slot Connector S (ℓ=50~2000)	Slot Connector L (ℓ=2000)	Slot Connector L (ℓ=50~2000)
Item No.	SFA-R51	SFA-R54	SFA-R61	SFA-R64	SFA-R71	SFA-R74

Sliding Door Rail (2 Rows) / 3 Rows (Aluminum)



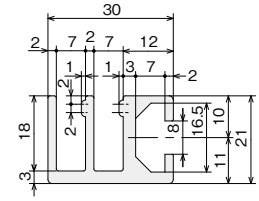


■Material/Technical Data

	Sliding Door Rail	Attaching Plate	Slide Spacer
Material	Aluminium Alloy Alumite Treatment	SPCC (2 Rows) SPHC (3 Rows) Uni-chrome Plating	Polyethylene Black
Weight	0.72kg/m (2 Rows) 0.90kg/m (3 Rows)	28g (2 Rows) 35g (3 Rows)	60g (ℓ=2000mm/pcs)

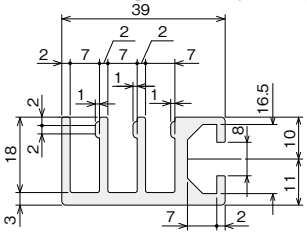
Environment ★**RoHS** Compliant ★**Green** Procurement

Sliding Door Rail (2 Rows)



※For T Nut S

Sliding Door Rail (3 Rows)

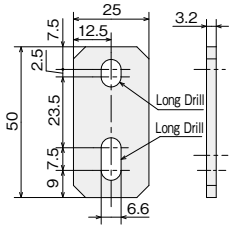


※For T Nut S

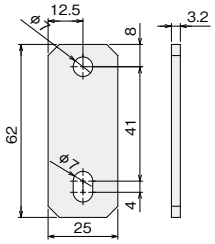
●Standard Length Products(ℓ=4000)are to be cut by customer.

Name	Sliding Door Rail (2 Rows) (ℓ=4000)	Sliding Door Rail (2 Rows) (ℓ=50~4000)	Sliding Door Rail (3 Rows) (ℓ=4000)	Sliding Door Rail (3 Rows) (ℓ=50~4000)
Item No.	★SFF-R02-T	★SFF-R04-T	★SFF-R12-T	★SFF-R14-T

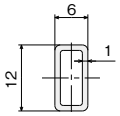
Attaching Plate (2 Rows)



Attaching Plate (3 Rows)



Slide Spacer



※Attaching Plate can connect Frames together as well.

Name	Attaching Plate (For 2 Rows)	Attaching Plate (For 2 Rows)	Slide Spacer (ℓ=2000)
Item No.	★SFA-502	★★SFA-512	★★SFA-107

Example of order

SF Frame
Standard Length (Cut by Customer)
Item No.
SFA-R01
Effective range of use ℓ=2000
Quantity (pcs) □□

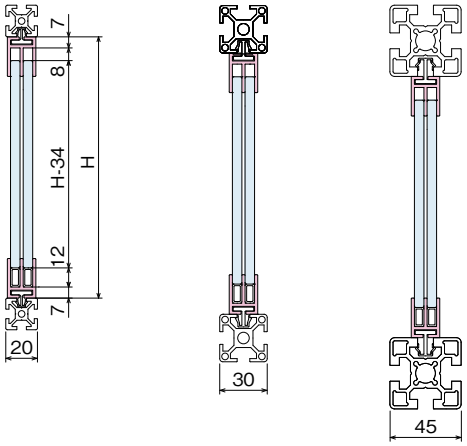
In case of specifying the length (Cut by SUS)
Item No. SFA-R04
Length (mm) ℓ=800
※Order by 0.1mm unit

Parts
How to order
Item No. SFA-502
Quantity (pcs) □□

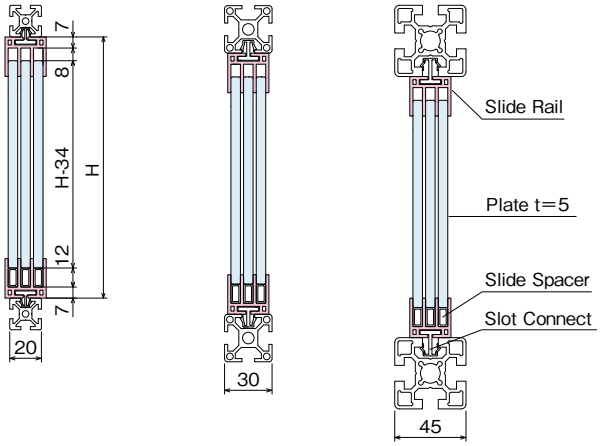
Dimensional Indication of Installing Slide Rail and Slide Door Rail

〈Slide Rail〉

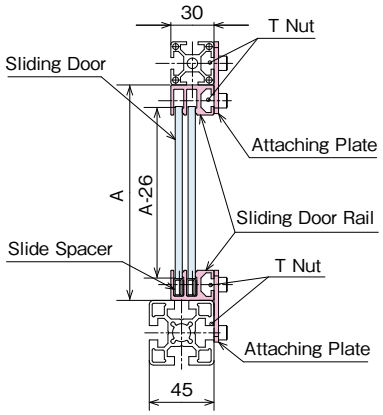
●2 Directions Type

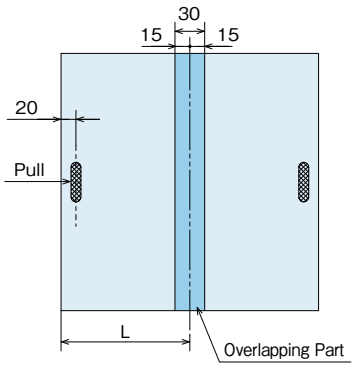


●3 Directions Type



〈Sliding Door Rail〉



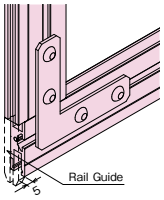


■Plate size
＊Plate Thickness…t ＝5
＊Lateral: L+15
(In case overlapping 30mm)
＊longitudinal:
Slide Rail: H−34
Sliding Door Rail: A−26

Door•Panel Parts Sliding Door Frame[For Medium Size Sliding Door]

Sliding Door Frame/Panel Joint Kit

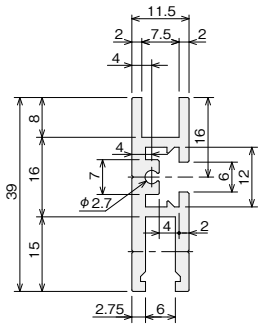




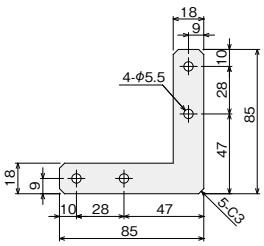
■Material/Technical Data

Material	Aluminium Alloy(Frame) SUS304(Panel Joint) Alumite Treatment
Environment	★RoHS Compliant ★Green Procurement
Geometrical Moment of Inertia	Ix=2.47×10⁴㎜⁴ Iy=0.357×10⁴㎜⁴
Section Modulus	Zx=1.247×10³㎜³ Zy=0.602×10³㎜³
Weight	0.58kg/m(Frame) 54g(Plate Bracket)

Frame for Sliding Door's Rim



Panel Joint Kit



t=2

Name	Sliding Door Frame ℓ=4000	Sliding Door Frame ℓ=50~4000
Item No.	★SFF-D02	★SFF-D04

●Cut length is the material to be cut by customer.
Effective range of use ℓ =4000

Name	Panel Joint Kit
Item No.	SFK-130

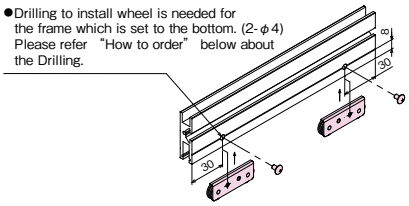
Kit Contents
●S Plate Bracket SS-L×1
●T Nut SS(M5)×4
●Hexagon Socket Button Bolt(M5×6)×4

Rail Guide Kit/Sliding Door Wheel

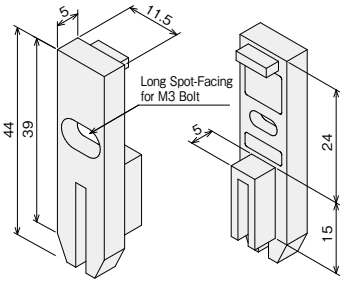




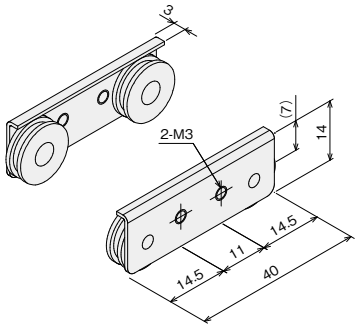
●Drilling to install wheel is needed for the frame which is set to the bottom. (2-φ4)
Please refer "How to order" below about the Drilling.



Rail Guide Kit



Sliding Door Wheel



■Material/Technical Data

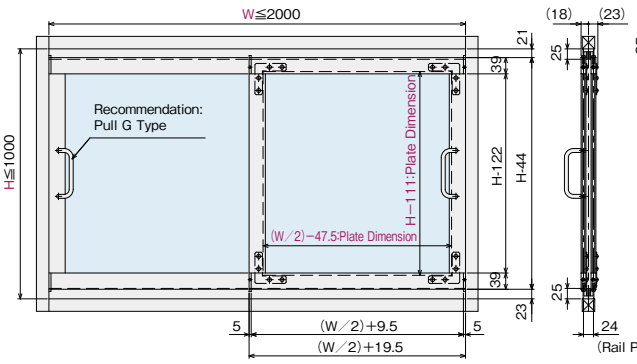
	Rail Guide	Wheel
Material	Polyacetal	Polyacetal
Weight	2.8g	6.4g
	Include Lock Screw(M3x12)x1	Truss Screw(M3x5)x1
Environment	RoHS Compliant	

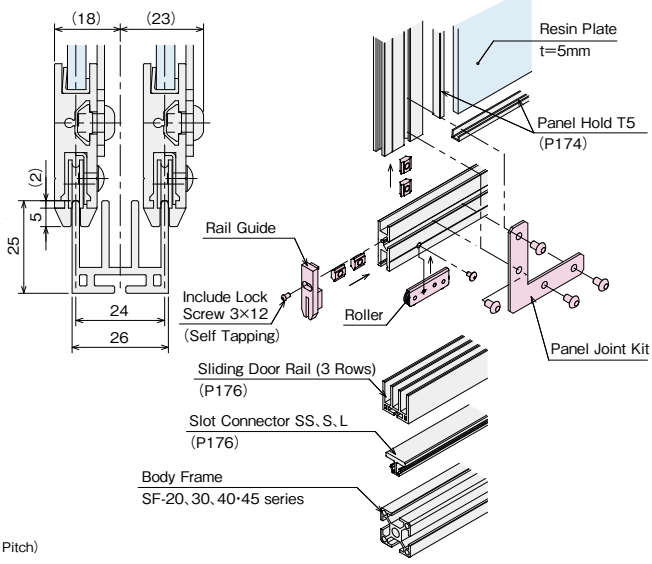
Name	Rail Guide Kit
Item No.	SFK-5A3

Name	Sliding Door Wheel
Item No.	SFA-504

Unit Construction







Example of order

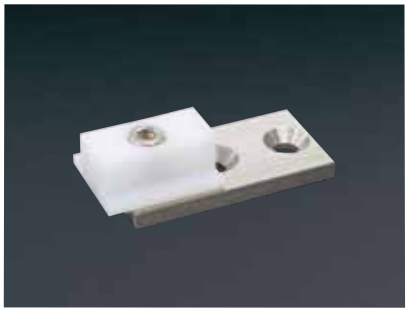
SF Frame
Standard Length (Cut be Customer)

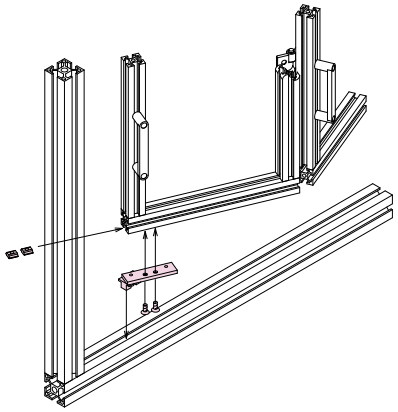
Item No.	Length (mm)	Drilling No. to install Corocon	Quantity (pcs)
SFA-41A	ℓ=800	CH	□□

Parts
How to order

Item No.	Quantity (pcs)
SFK-130	□□

Folding Door Slider

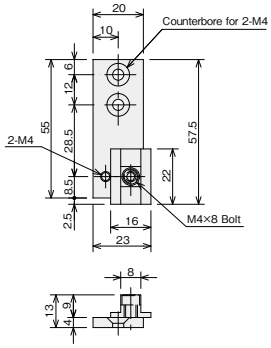




■Material/Technical Data

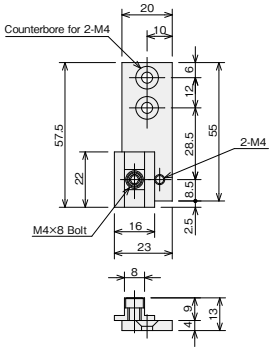
Material	Polyacetal(Slide) Stainless(Attaching Plate)
Weight	45g(S-SSA/B) 65g(S) 63g(L-S)
Environment	**RoHS** Compliant **Green** Procurement

Folding Door Slider S-SSA



Down when Door opens to right
Up when Door opens to left

Folding Door Slider S-SSB

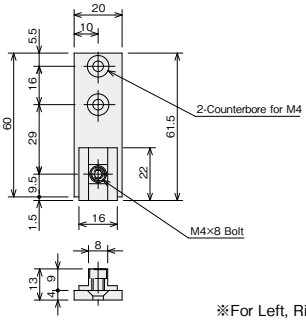


Down when Door opens to right
Up when Door opens to left

Kit Contents
- Folding Door Slider Block S×1
- Folding Door Slider Plate SS×1
- ST Nut SS(M4)×2
- Hexagon Socket Bolt(M4×8) Stainless×1
- Flat Screw(M4×8) Stainless×2
- Spacer×1

Usable Frame
〈Structural Member〉
SF-30 Series
〈Door〉
SF-20·20

Folding Door Slider S

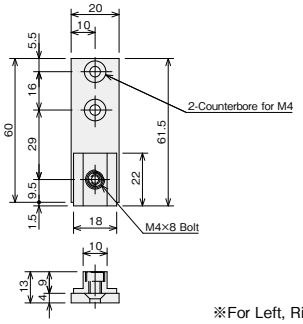


※For Left, Right, Up and Down

Kit Contents
- Folding Door Slider Block S×1
- Folding Door Slider Plate S×1
- ST Nut S(M4)×2
- Hexagon Socket Bolt(M4×8) Stainless×1
- Flat Screw(M4×12) Stainless×2
- Spacer×1

Usable Frame
〈Structural Member〉
SF-30 Series
〈Door〉
SF-30·30

Folding Door Slider L-S



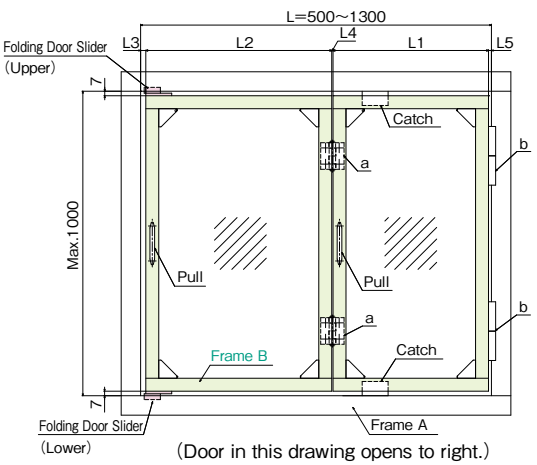
※For Left, Right, Up and Down

Kit Contents
- Folding Door Slider Block L×1
- Folding Door Slider Plate S×1
- ST Nut S(M4)×2
- Hexagon Socket Bolt(M4×8) Stainless×1
- Flat Screw(M4×12) Stainless×2
- Spacer×1

Usable Frame
〈Structural Member〉
SF-40·45 Series
〈Door〉
SF-30·30

Name	Folding Door Slider S-SSA	Folding Door Slider S-SSB	Folding Door Slider S	Folding Door Slider L-S
Item No.	SFK-801A	SFK-802A	SFK-803A	SFK-804A

Size Indication for Folding Door Slider



(Door in this drawing opens to right.)

○Indication of Parts Choice

Frame A	Frame B	Folding Door Slider Up	Folding Door Slider Down	Hinge a	Hinge b
SF30 Series	SF20 Series	Folding Door Slider S-SSB Note) (SFK-802A)	Folding Door Slider S-SSA Note) (SFK-801A)	Fixed Hinge SS (SFA-211)	Free Hinge 3020R (SFA-253)
SF30 Series	SF30 Series	Folding Door Slider S (SFK-803A)	Folding Door Slider S (SFK-803A)	Fixed Hinge S (SFA-221)	Free Hinge S-R (SFA-223)
SF40 Series	SF30 Series	Folding Door Slider L-S (SFK-804A)	Folding Door Slider L-S (SFK-804A)	Fixed Hinge S (SFA-221)	Free Hinge L40-R (SFA-233)
SF45 Series	SF30 Series	Folding Door Slider L-S (SFK-804A)	Folding Door Slider L-S (SFK-804A)	Fixed Hinge S (SFA-221)	Free Hinge L45-R (SFA-243)

Note) When the folding door opens to left, Folding Door Slider S-SS is up-side-down.

○Dimension Indication

Frame A	Frame B	L1	L2	L3	L4	L5
SF30 Series	SF20 Series	(L-L3-L4-L5-35)/2	L1+35	L=Less than 500-700 ···9.5 L=Less than 700-1000 ···7.5 L=1000-1300 ···5.5	1	3.5
SF30 Series	SF30 Series	(L-L3-L4-L5-36)/2	L1+36	L=Less than 500-700 ···9.5 L=Less than 700-1000 ···7.5 L=1000-1300 ···5.5	2	3.5
SF40 Series	SF30 Series	(L-L3-L4-L5-41)/2	L1+41	L=Less than 500-700 ···9.5 L=Less than 700-1000 ···7.5 L=1000-1300 ···5.5	2	4.5
SF45 Series	SF30 Series	(L-L3-L4-L5-44)/2	L1+44	L=Less than 500-700 ···9.5 L=Less than 700-1000 ···7.5 L=1000-1300 ···5.5	2	4.5

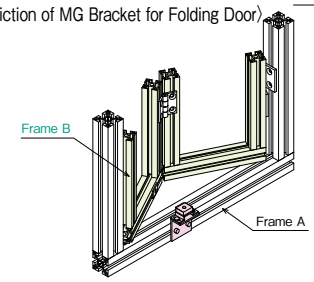
Door•Panel Parts Magnet Catch [for Folding Door]

Magnet Catch Kit for Folding Door



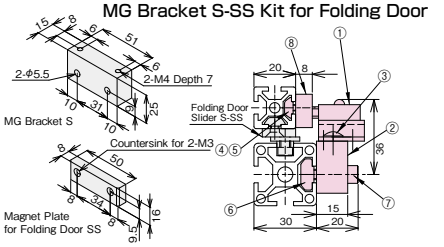
※Refer from P146 for details of Magnet Catch as Single Item.

〈Choice Indiction of MG Bracket for Folding Door〉



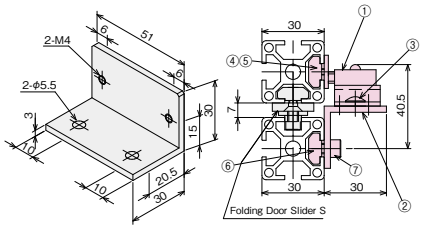
Frame A	Frame B	MG Bracket for Folding Door
SF-30 series	SF-20 series	MG Bracket S-SS Kit for Folding Door
SF-30 series	SF-30 series	MG Bracket S Kit for Folding Door
SF-40·45 series	SF-30 series	MG Bracket L-S Kit for Folding Door

MG Bracket S-SS Kit for Folding Door



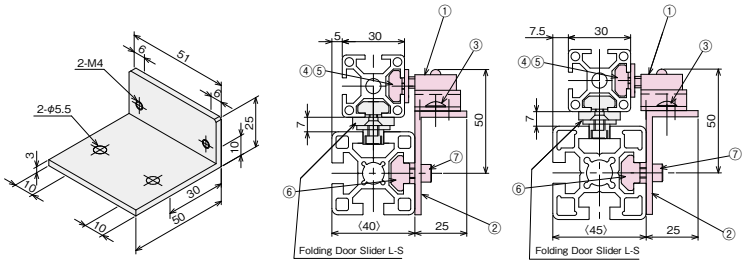
Kit Contents
①Magnet Catch N×1 ⑤T Nut SS(M3)×2
②MG Bracket S×1 ⑥T Nut S(M5)×2
③Truss Screw(M4×5)×2 ⑦Hexagon Socket Bolt(M5×22)×2
④Flat Screw(M3×12)×2 ⑧Magnet Plate for Folding Door SS×1

MG Bracket S Kit for Folding Door



Kit Contents
①Magnet Catch N×1 ⑤T Nut S(M3)×1
②MG Bracket S×1 ⑥T Nut S(M5)×2
③Truss Screw(M4×5)×2 ⑦Hexagon Socket Bolt(M5×10)×2
④Flat Screw(M3×8)×1

MG Bracket L-S Kit for Folding Door



Kit Contents
①Magnet Catch N×1 ④Flat Screw(M3×8)×1 ⑦Hexagon Socket Bolt(M5×15)×2
②MG Bracket L-S×1 ⑤T Nut S(M3)×1
③Truss Screw(M4×5)×2 ⑥T Nut L(M5)×2

Name	MG Bracket S-SS Kit for Folding Door	MG Bracket S Kit for Folding Door	MG Bracket L-S Kit for Folding Door
Item No.	SFK-4AJ	SFK-4AF	SFK-4AG

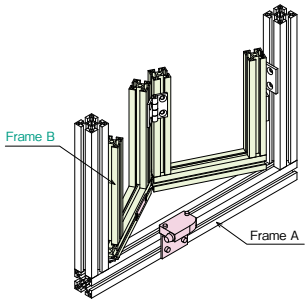
※Please refer from P146 to use for other purpose than Folding Door

Magnet Catch with Limit Switch Kit for Folding Door



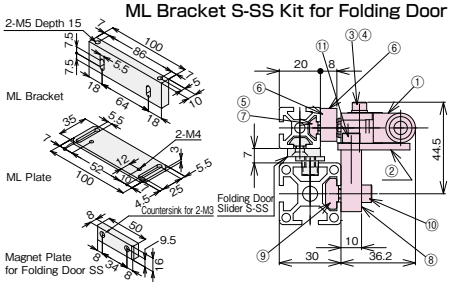
※Refer from P150 for details of Magnet Catch as Single Item.

〈Choice Indiction of ML Bracket for Folding Door〉



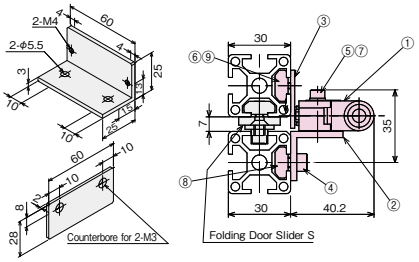
Frame A	Frame B	ML Bracket for Folding Door
SF-30 series	SF-20 series	ML Bracket S-SS Kit for Folding Door
SF-30 series	SF-30 series	ML Bracket S Kit for Folding Door
SF-40·45 series	SF-30 series	ML Bracket L-S Kit for Folding Door

ML Bracket S-SS Kit for Folding Door



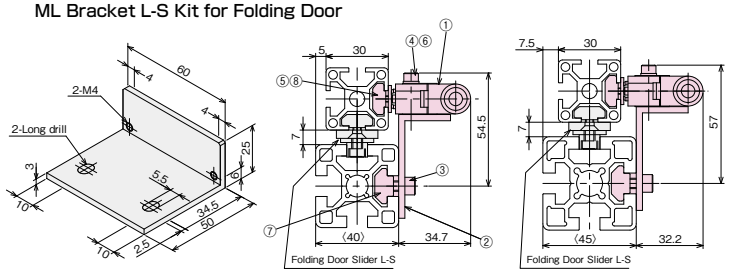
Kit Contents
①Magnet Catch with Limit Switch A×1 ⑦Flat Screw(M3×12)×2
②ML Plate×1 ⑧ML Bracket×1
③Hexagon Socket Bolt(M4×18)×2 ⑨T Nut S(M5)×2
④Flat Washer for M4×2 ⑩Hexagon Socket Bolt(M5×15)×2
⑤T Nut SS(M3)×2 ⑪Hexagon Socket Bolt(M5×18)×2
⑥Magnet Plate for Folding Door SS×1

ML Bracket S Kit for Folding Door



Kit Contents
①Magnet Catch with Limit Switch A×1 ⑥Flat Screw(M3×8)×2
②ML Bracket S-S×1 ⑦Flat Washer for M4×2
③ML Magnet Plate 2×1 ⑧T Nut S(M5)×2
④Hexagon Socket Bolt(M5×10)×2 ⑨T Nut S(M3)×2
⑤Hexagon Socket Bolt(M4×20)×2

ML Bracket L-S Kit for Folding Door



Kit Contents
①Magnet Catch with Limit Switch A×1 ④Hexagon Socket Bolt(M4×20)×2 ⑦T Nut L(M5)×2
②ML Bracket L-S×1 ⑤Flat Screw(M3×8)×2 ⑧T Nut S(M3)×2
③Hexagon Socket Bolt(M5×15)×2 ⑥Flat Washer for M4×2

Name	ML Bracket S-SS Kit for Folding Door	ML Bracket S Kit for Folding Door	ML Bracket L-S Kit for Folding Door
Item No.	SFK-4CH	SFK-4CG	SFK-4CE

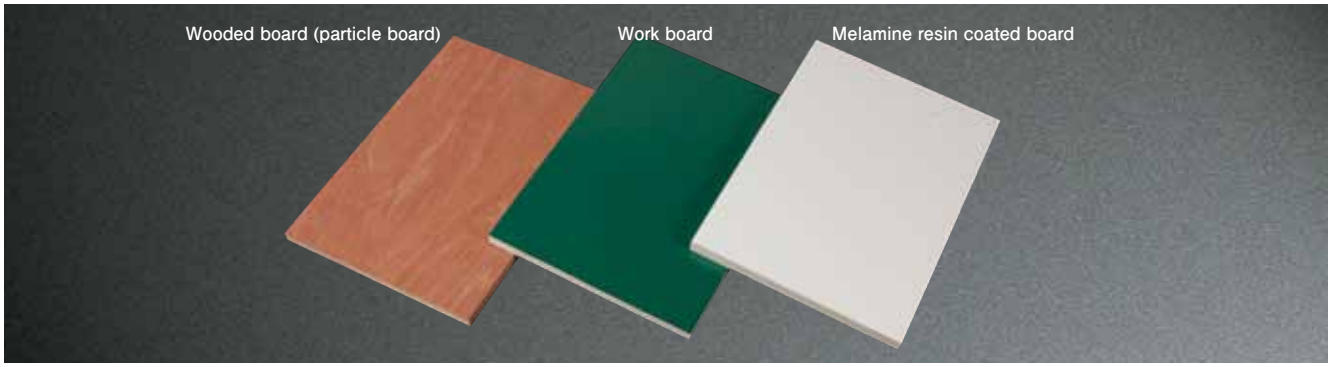
※Please refer from P146 to use for other purpose than Folding Door

Parts How to order
Example of order
Item No. Quantity (pcs)
SFK-44J □□



Panel•Sheet

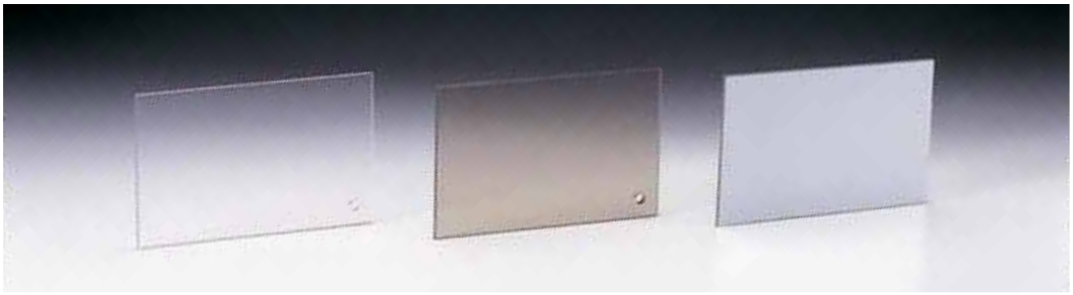
Wooden Board



Products/Options

Material	Board thickness (mm)	Surface mat	Color	Maximum size (mm)
Wooded Board (Particle Board)	9, 12, or 15	——	(White end face)	900×1800
Work Board	16.5 (including mat)	Rubber mat (1.5)	Green (white end face)	
	17 (including mat)	Antistatic mat (2.0)		
		Conductive mat (2.0) *with ground cable		
Melamine Resin Coated Board	17 (including mat)	Melamine resin (1)	White Gray	

Resin Panel



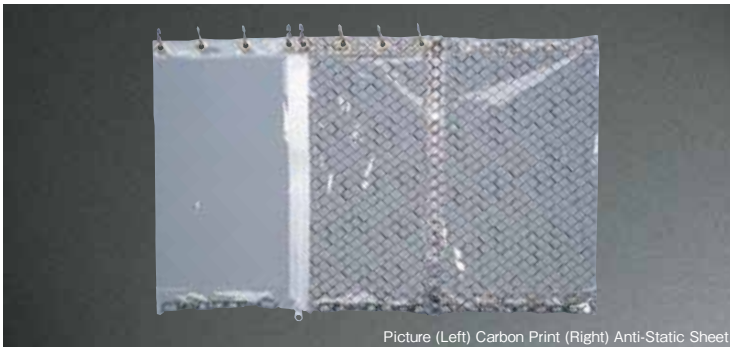
Products/Options

Name	Standard color	Panel thickness (mm)	Density	Atmospheric temperature	Maximum size
Polyvinyl Chloride (PVC)	Transparent	3 or 5	1.40	Up to 60 ℃	1000×2000
Polyethylene Terephthalate (PET)	Transparent	3 or 5	1.27	Up to 70 ℃	1000×2000
Acryl (PMMA)	Transparent	3 or 5	1.19	Up to 80 ℃	1000×2000
Polycarbonate (PC)	Transparent	3 or 5	1.20	Up to 130 ℃	1000×2000

* If you require antistatic processing for panels, notify when requesting for quotation.

Note : Regarding Panel•Sheet products on this catalogue only describe JPN SPEC.
Please contact in detail to Each Sales Branch.

Anti-Static Sheet・Partition Sheet



Picture (Left) Carbon Print (Right) Anti-Static Sheet

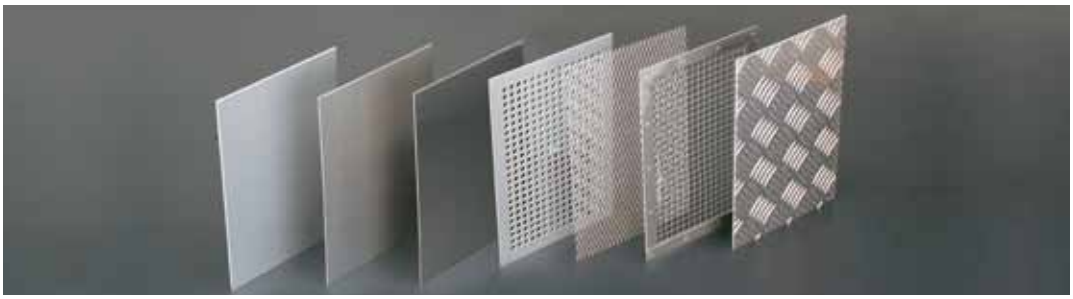


Handling Items and Rough Indication for Selection

Name	Thickness (mm)	Standard Color	Surface Specific Resistivity※1	Gravity (g/cm^3)	Flame Proofing Grade ※2	Maximum Size(mm)
Anti-Static Sheet	0.3	Transparent	$10^{10}\Omega$	1.35	Flameproof 2nd Grade	5400×3100
Anti-Static Sheet	0.5					
Anti-Static Sheet(Carbon Print)	0.3	Transparent(Carbon Print)※3	$10^{6}\Omega$	1.35	Flameproof 2nd Grade	5400×3100
Anti-Static Sheet(Carbon Print)	0.5					
Partition Sheet	0.3	Transparent	$10^{12}\Omega$	1.35	———	5400×3100
Partition Sheet	0.5					

○SUS meets the thickness other than those above, too. Please contact us.
※ Carbon Print is treated on one side. When you use, printed surface becomes outside. Please earth the carbon print.

Steel Plate Panel



■Environment **RoHS** Compliant **Green** Procurement

Handling Items and Rough Indication for Selection

Material	With Frame	Material	Thickness(mm)	Mesh size	Gravity	Maximum Size(mm)	Surface Treatment
Aluminum Panel	—	A5052	2	—	2.68	1000×2000	Alumite Treatment
Stainless Panel NO2B	—	SUS304	1.5	—	7.93	1000×2000	—
Stainless Panel #400	—			—			One side polish
Aluminum Punching Panel	Standard	A5052	2	φ12×P18	2.68	1000×2000	Alumite Treatment
Stainless Expand Panel (S Type)	Option	SUS304	—	T=1.2 W=1.4 SW=12 LW=30.5	7.93	1000×2000	—
Stainless Expand Panel (M Type)				T=1.5 W=1.7 SW=22 LW=50.8			
Stainless Net (S Type)	Option	SUS304	—	Line Diameter φ1.6 P=12.7	7.93	1000×2000	—
Stainless Net (M Type)				Line Diameter φ2.6 P=30.0			
Aluminum Checkered Steel Plate	—	A5052	3	—	2.68	1000×2000	—

○SUS meets the thickness other than those above, too. Please contact us.

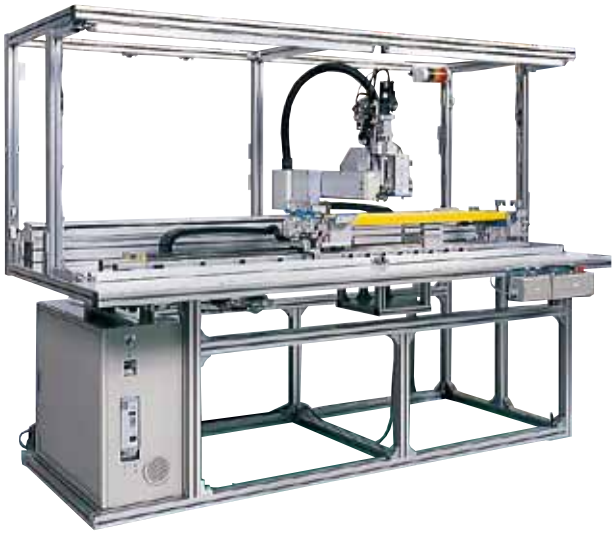


STANDARD FRAME

Technical Data

Technical Data *Free Unit*

EASY To Check,
EASY To Order,
EASY To Assemble.

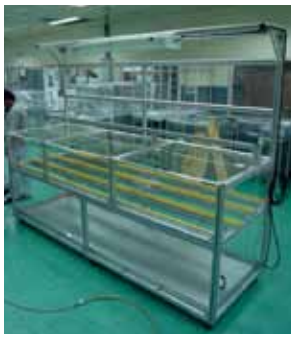








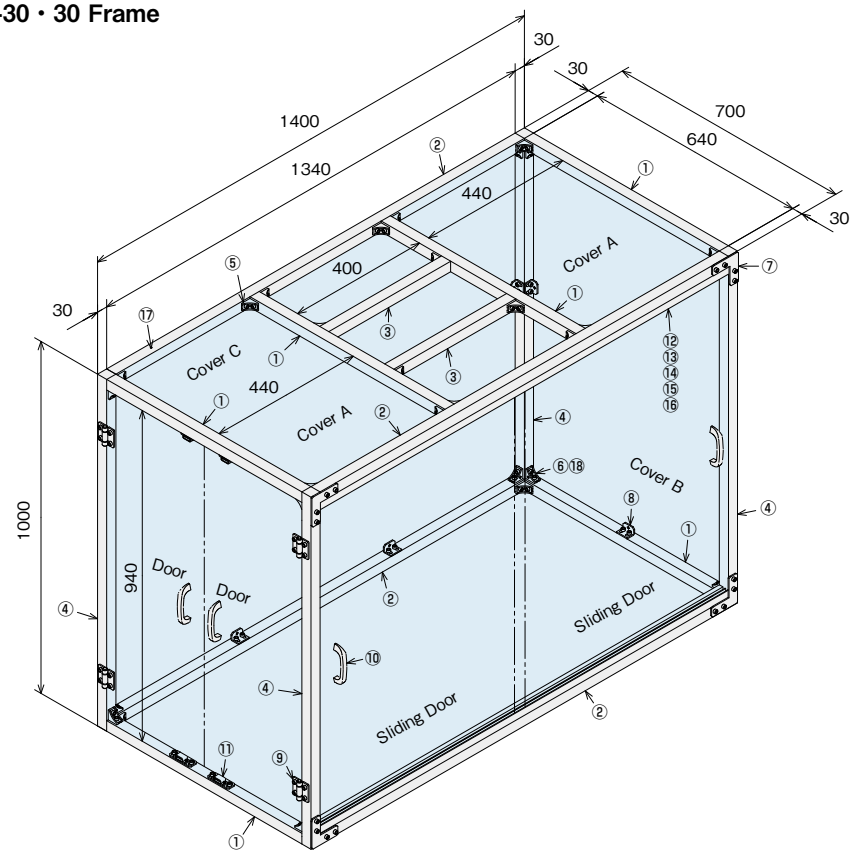




Please contact to SUS
in order to make your own image.

Reference Example of Free Unit

SF-30・30 Frame



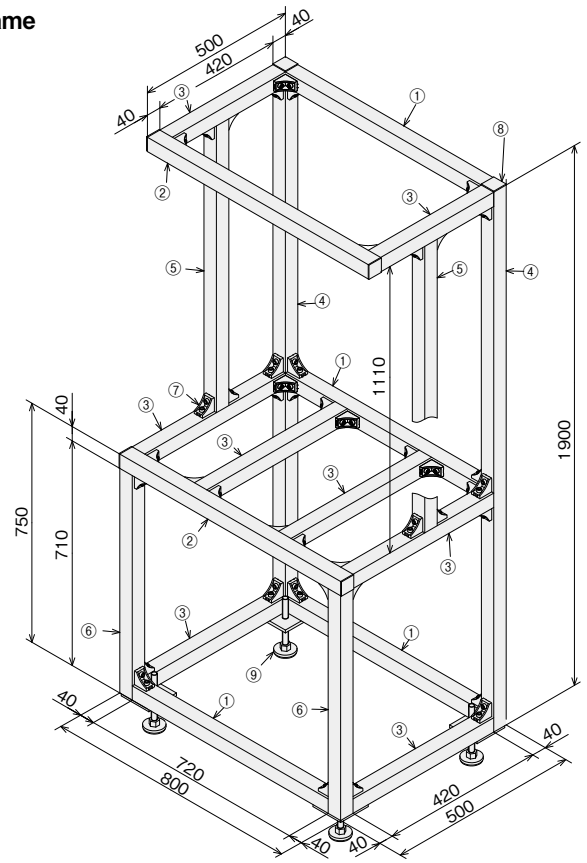
No.	Name	Quantity
1	SF2-30・30 640L	6
2	SF2-30・30 1340L	4
3	SF2-30・30 400L	2
4	SF2-30・30 1000L	4
5	D Bracket S Kit	22
6	D Bracket S Kit with Tap	8
7	Plate Bracket S-L Kit	4
8	Cover Support S Kit	10
9	Fixed Hinge S Kit	4
10	Pull A	4
11	Magnet Catch N	4
12	Sliding Door's Rail 1340L	2
13	Slide Spacer	2
14	Plate	6
15	T Nut S M6	12
16	Hexagon Socket Bolt M6×10	12
17	T Nut S M5	10
18	Truss Screw	18
19	Sliding Door Aclyc t＝5 Clear	2
20	Door Aclyc t＝5 Clear	2
21	Cover A Aclyc t＝5 Clear	2
22	Cover B Aclyc t＝5 Clear	1
23	Cover C Aclyc t＝5 Clear	1

No.	Item No.	Name	Quantity	Note
1	SFF-324	SF-30・30 L＝640	6	
2	SFF-324	SF-30・30 L＝1340	4	
3	SFF-324	SF-30・30 L＝400	2	
4	SFF-324	SF-30・30 L＝1000	4	
5	SFK-018	D Bracket S Kit	22	
6	SFK-019	D Bracket S Kit with Tap	8	
7	SFK-104	Plate Braket S-L Kit	4	
8	SFK-K02	Cover Support S Kit	10	
9	SFK-221	Fixed Hinge S Kit	4	
10	SFA-301	Pull A	4	
11	SFA-40A	Magnet Catch J	4	
12	SFF-R04	Sliding Door's Rail L＝1340	2	
13	SFA-107	Slide Spacer L＝2000	2	
14	SFA-502	Plate (For Sliding Door's Rail)	6	
15	SFB-002	T Nut S (M6)	12	
16	SFB-561	Hexagon Socket Bolt (Uni-Chrome) M6×10	12	
17	SFB-001	T Nut S (M5)	10	
18	SFB-558	Truss Screw M5×10	18	
19		Sliding Door 914×685 (Drilling included)	2	Aclyc t＝5 Clear
20		Door 938×317 (Drilling included)	2	Aclyc t＝5 Clear
21		Cover A 694×494 (Drilling included)	2	Aclyc t＝5 Clear
22		Cover B 998×638 (Drilling included)	1	Aclyc t＝5 Clear
23		Cover C 1338×998 (Drilling included)	1	Aclyc t＝5 Clear

Technical Data Free Unit

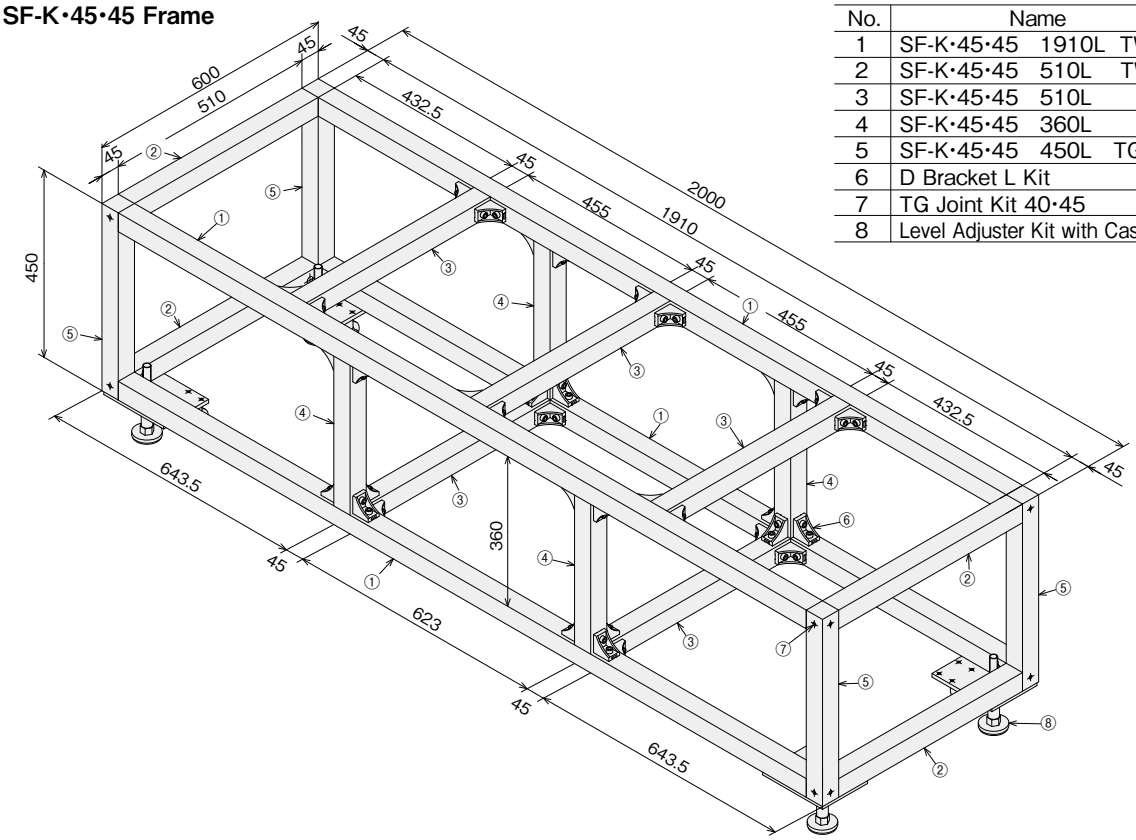
Reference Example of Free Unit

SF2-40·40 Frame



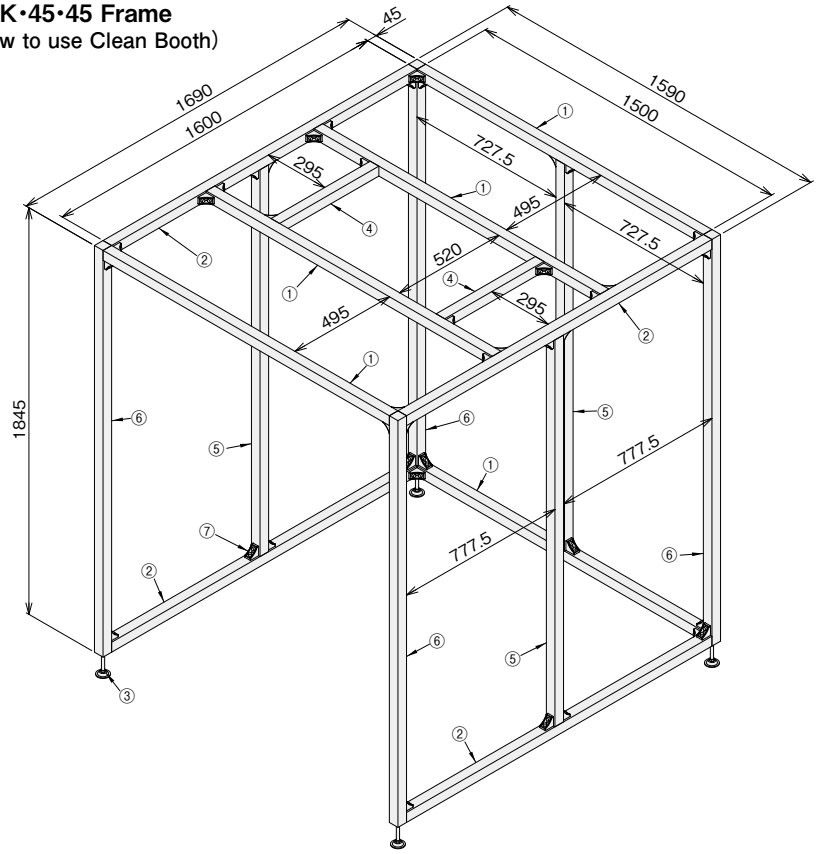
No.	Name	Quantity
1	SF2-40·40 720L	4
2	SF2-40·40 800L	2
3	SF2-40·40 420L	8
4	SF2-40·40 1900L	2
5	SF2-40·40 1110L	2
6	SF2-40·40 710L	2
7	D Bracket L Kit	48
8	Frame Cap 4040	6
9	Level Adjuster Kit L	4

SF-K·45·45 Frame



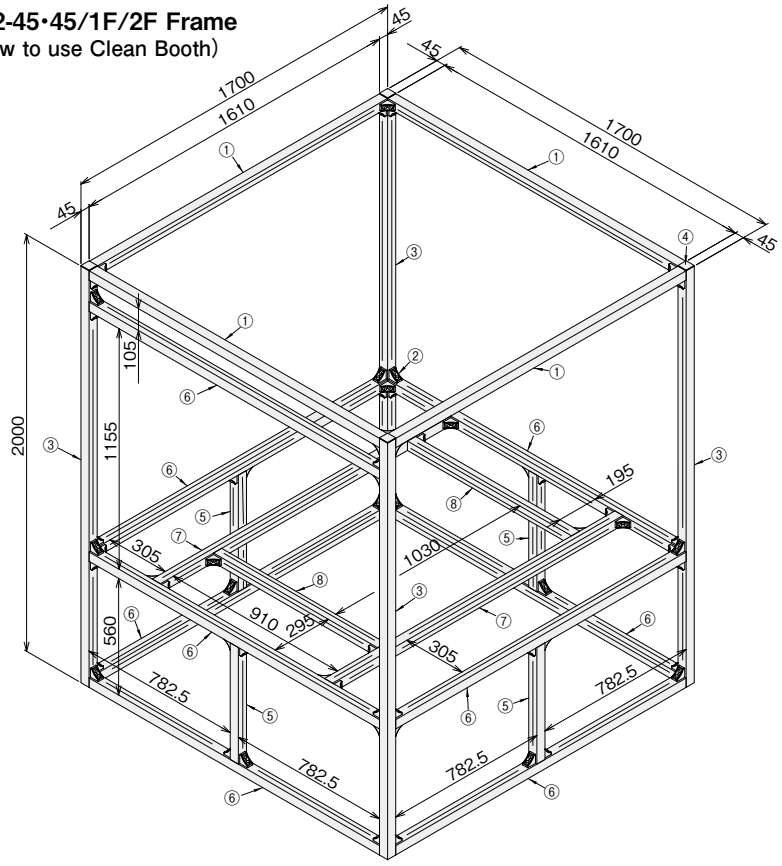
No.	Name	Quantity
1	SF-K·45·45 1910L TW	4
2	SF-K·45·45 510L TW	4
3	SF-K·45·45 510L	5
4	SF-K·45·45 360L	4
5	SF-K·45·45 450L TGM	4
6	D Bracket L Kit	40
7	TG Joint Kit 40·45	16
8	Level Adjuster Kit with Caster L	4

SF-K・45・45 Frame
(How to use Clean Booth)



No.	Name	Quantity
1	SF-K・45・45　1500L	5
2	SF-K・45・45　1600L	4
3	Adjuster M12	4
4	SF-K・45・45　520L	2
5	SF-K・45・45　1755L	3
6	SF-K・45・45　1845L TR	4
7	D Bracket L Kit	42

SF2-45・45/1F/2F Frame
(How to use Clean Booth)

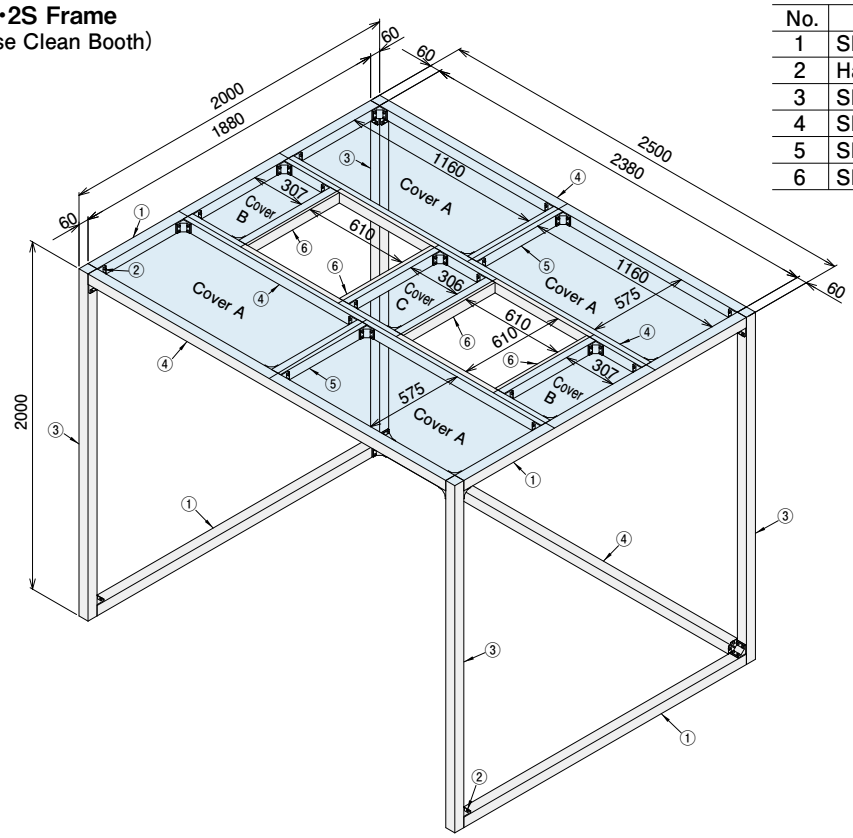


No.	Name	Quantity
1	SF2-45・45・2F　1610L	4
2	D Bracket L Kit	72
3	SF2-45・45・2F　2000L	4
4	Frame Cap 45・45(Black)	4
5	SF2-45・45・1F　560L	4
6	SF2-45・45・1F　1610L	9
7	SF2-45・45　1610L	2
8	SF2-45・45　910L	2

Technical Data Free Unit

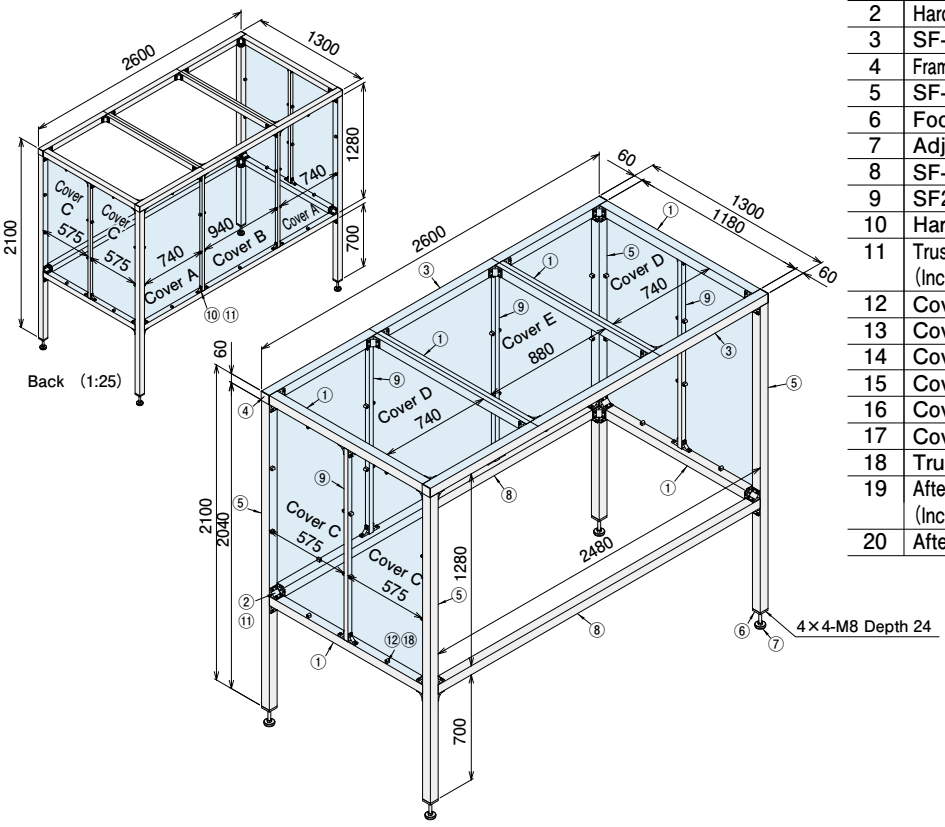
Reference Example of Free Unit

SF-60·60·2S Frame
(How to use Clean Booth)



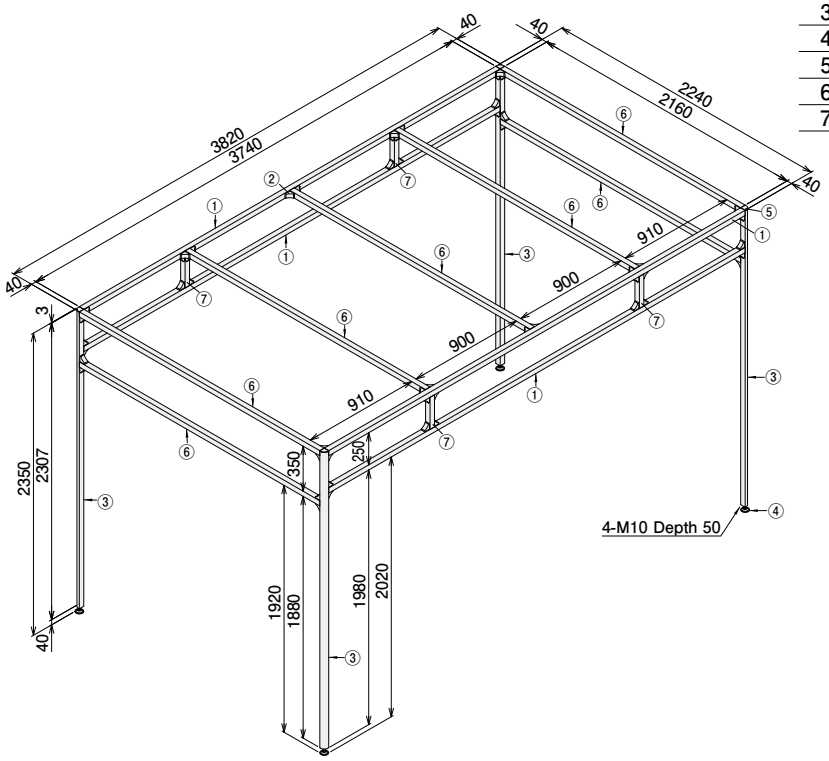
No.	Name	Quantity
1	SF-60·60·2S 1880L	4
2	Hard Bracket S3060 Kit	44
3	SF-60·60·2S 2000L	4
4	SF-60·60·2S 2380L	5
5	SF-60·60·2S 575L	2
6	SF-60·60·2S 610L	4

SF-60·60·2S Frame
(How to use Clean Booth)



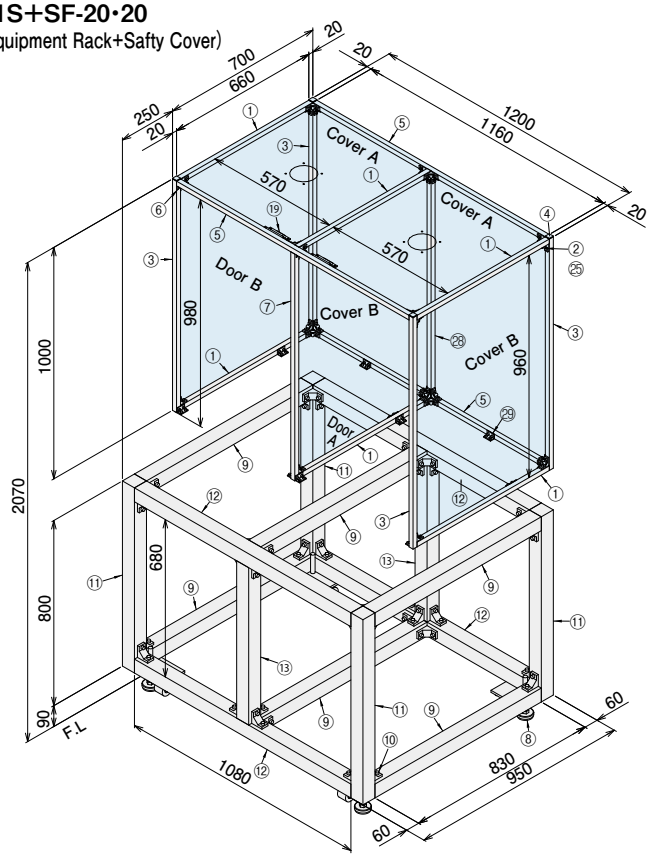
No.	Name	Quantity
1	SF-60·60·2S 1180L	6
2	Hard Bracket S3060 Kit with Tap	40
3	SF-60·60·2S 2600L	2
4	Frame Cap 60·60·2S (Light Gray)	4
5	SF-60·60·2S 2040L TL	4
6	Foot Base 60602S	4
7	Adjuster M16	4
8	SF-60·60·2S 2480L	2
9	SF2-30·30 1280L	4
10	Hard Bracket S Kit with Tap	16
11	Truss Screw M5×10 (Include to install Cover D and E)	52
12	Cover Holder S	42
13	Cover A	2
14	Cover B	1
15	Cover C	4
16	Cover D	2
17	Cover E	1
18	Truss Screw M5×15	42
19	After Nut S M5 (Include to install Cover D and E)	24
20	After Nut Support S (50 pieces)	1

SF2-40・40
(How to use Clean Booth)



No.	Name	Quantity
1	SF2-40・40　3740L	4
2	D Bracket L Kit	60
3	SF-40・40・R　2307L　TL50	4
4	Level Adjuster(KC-280-4:Takigen)	4
5	Frame Cap 40・40・R(Black)	4
6	SF2-40・40　2160L	7
7	SF2-40・40　250L	4

SF-60・60・1S+SF-20・20
(How to use Equipment Rack+Safty Cover)



No.	Name	Quantity
1	SF-20・20　660L	6
2	Hard Bracket SS Kit with Tap	40
3	SF-20・20　1000L	4
4	Frame Cap 20・20(Black)	12
5	SF-20・20　1160L	3
6	Blind Bracket SS	4
7	SF-20・20　980L	1
8	Level Adjuster Kit with Caster L	4
9	SF-60・60・1S　830L	6
10	Hard Bracket L Kit	40
11	SF-60・60・1S　800L	4
12	SF-60・60・1S　1080L	4
13	SF-60・60・1S　680L	2
14	SF-20・20　524L	4
15	SF-20・20　572L	4
16	Pull　A Type	2
17	Flag Hinge SS-R Kit	2
18	Flag Hinge SS-L Kit	2
19	ML Bracket SS Kit	2
20	Truss Screw M6×10	4
21	Cover A	2
22	Cover B	3
23	Cover C	2
24	Cover D	2
25	Truss Screw M5×10	36
26	Cover Holder SS(To install Cover)	66
27	Truss Screw M5×15(To install Cover)	66
28	SF-20・20　960L	1
29	Angle Bracket SS2040 Kit	10

Technical Data *Material Property*

Material Property

SF series

6061:Heat-treated type corrosive-resistant alloy. It's used for bolt and rivet component because the welded joint's strength is low, though it has pretty high bearing value by T6 treatment.

6N01:Alloy with moderate strength for extrusion. With the intermediate strength between 6061 and 6063, it has good property for extrusion and press-hardening heat treatment. Therefore, big and thin material with complicated sectional shape can be produced. It's also good in corrosive-resistance and weldability.

6063:Representative alloy for extrusion. Although the strength is lower than 6061, it has good property for extrusion. Complicated sectional shape can be produced and it's good in corrosive-resistance and for surface treatment.

Aluminum Material Data

	SUS will use both materials depending on Usage	
Material	A6N01SS-T5	A6063S-T5
Tensile Strength	270N/mm^2	187N/mm^2
Bearing Force	225N/mm^2	147N/mm^2
Longitudinal Elastic Modulus	69972N/mm^2	68600N/mm^2
Hardness	Brinell Hardness 88HB	Brinell Hardness 60HB
Treatment	Anodizing Thickness: More than 9μm	

Frame Material Data

●Technical Data Table

Aluminum Frame	Geometrical Moment of Inertia ×10^{4}mm^4		Section Modulus×10^{3}mm^3		Ix × E ×10^{9}N·mm^2	Iy × E ×10^{9}N·mm^2	Cross Section mm^2	Unit Mass kg/m	Frame Slot Width mm
	Ix	Iy	Zx	Zy					
SF-20·20	0.74	0.74	0.74	0.74	0.52	0.52	182	0.49	6
SF-20·20·1F	0.83	0.75	0.78	0.75	0.58	0.52	194	0.52	6
SF-20·20·2F	0.81	0.81	0.79	0.79	0.57	0.57	195	0.53	6
SF-20·20·3F	0.81	0.89	0.78	0.89	0.57	0.62	208	0.56	6
SF-20·20·2H	0.74	0.89	0.74	0.89	0.52	0.62	200	0.54	6
SF-20·40	5.12	1.36	2.56	1.36	3.58	0.95	324	0.88	6
SF-20·40·1F	5.40	1.53	2.70	1.44	3.78	1.07	344	0.93	6
SF-20·60	15.97	1.97	5.30	1.97	11.17	1.38	465	1.26	6
SF-20·80	36.13	2.58	9.03	2.58	25.28	1.81	607	1.64	6
SF-40·40·2S	8.89	8.89	4.45	4.45	6.22	6.22	478	1.29	6
SF-40·40·2S·1F	9.78	9.32	5.08	4.66	6.84	6.52	522	1.41	6
SF-40·40·2S·2F	9.60	9.60	4.89	4.89	6.72	6.72	497	1.35	6
SF-40·60·SS	27.03	12.63	9.01	6.31	18.91	8.84	665	1.80	6
SF-40·80·SS	63.52	18.39	15.88	9.20	44.45	12.87	994	2.70	6
SF-20·40·40	6.61	6.61	3.82	3.82	4.63	4.63	429	1.16	6
SF-20·20·R	0.55	0.55	0.48	0.48	0.38	0.38	150	0.40	6
SF-20·DE30	0.80	0.98	0.60	0.77	0.56	0.69	228	0.61	6
SF-20·DE45	0.82	0.92	0.59	0.69	0.57	0.64	221	0.59	6
SF-20·DE60	0.86	0.92	0.63	0.73	0.60	0.64	227	0.61	6
SF-25·25	1.64	1.64	1.31	1.31	1.15	1.15	288	0.78	6
SF2-30·30	2.84	2.84	1.89	1.89	1.99	1.99	332	0.90	8
SF2-30·30·1F	3.03	2.76	1.98	1.84	2.12	1.93	339	0.92	8
SF2-30·30·2F	3.05	3.05	1.96	1.96	2.13	2.13	351	0.95	8
SF2-30·30·3F	2.99	3.24	1.91	2.16	2.09	2.27	361	0.98	8
SF2-30·30·2H	2.69	3.23	1.79	2.15	1.88	2.26	345	0.93	8
SF2-30·60	20.56	5.33	6.85	3.56	14.39	3.73	592	1.60	8
SF2-30·60·1F	20.92	5.81	6.97	3.75	14.64	4.07	615	1.66	8
SF-30·90	66.26	8.44	14.72	5.62	46.36	5.91	905	2.44	8
SF-30·120	152.58	11.24	25.43	7.49	106.76	7.86	1191	3.22	8
SF-30·60·2H	21.23	6.23	7.08	4.21	14.86	4.36	631	1.70	8
SF-K·30·30	2.38	2.38	1.59	1.59	1.67	1.67	270	0.73	8
SF-K·30·60	16.68	4.63	5.56	3.09	11.67	3.24	483	1.30	8
SF-50·50·2S	21.67	21.67	8.67	8.67	15.16	15.16	859	2.32	8
SF-50·50·2S·1F	22.23	21.40	8.87	8.56	15.55	14.97	862	2.33	8
SF-50·50·2S·2F	22.26	22.26	8.77	8.77	15.58	15.58	874	2.36	8
SF-50·100·2S	153.40	42.48	30.68	16.99	107.34	29.72	1614	4.36	8

●Technical Data Table

Aluminum Frame	Geometrical Moment of Inertia ×10⁴mm⁴		Section Modulus×10³mm³		Ix × E ×10⁹N·mm²	Iy × E ×10⁹N·mm²	Cross Section mm²	Unit Mass kg/m	Frame Slot Width mm
	Ix	Iy	Zx	Zy					
SF-35·35	5.12	5.12	2.93	2.93	3.58	3.58	412	1.11	8
SF-35·35·1F	4.98	5.17	2.84	2.92	3.48	3.62	394	1.06	8
SF-35·35·2F	5.37	5.37	2.98	2.98	3.76	3.76	405	1.09	8
SF-35·35·2H	4.83	5.23	2.76	2.99	3.38	3.66	376	1.02	8
SF-35·70	35.09	9.04	10.03	5.16	24.55	6.33	667	1.80	8
SF-35·70·1F	33.94	9.47	9.70	5.36	23.75	6.63	659	1.78	8
SF-35·70·2F	34.26	9.42	9.79	5.27	23.97	6.59	656	1.77	8
SF-60·60·2S	41.38	41.38	13.79	13.79	28.95	28.95	971	2.62	8
SF-60·60·2S·1F	45.34	43.31	14.65	14.44	31.73	30.30	1071	2.89	8
SF-60·60·2S·2F	43.75	43.75	14.66	14.66	30.61	30.61	1011	2.73	8
SF-60·90	111.61	52.65	24.80	17.56	78.10	36.84	1156	3.12	8
SF-60·120	242.90	65.97	40.48	21.99	169.96	46.16	1526	4.12	8
SF-30·60·60	27.28	27.28	7.88	7.88	19.09	19.09	863	2.33	8
SF-30·30·R	2.42	2.42	1.53	1.53	1.69	1.69	305	0.82	8
SF-30·DE30	3.15	3.86	1.58	2.00	2.20	2.70	412	1.11	8
SF-30·DE45	3.21	3.72	1.56	1.86	2.25	2.60	401	1.08	8
SF-30·DE60	3.33	3.70	1.67	1.89	2.33	2.59	410	1.10	8
SF2-40·40	10.48	10.48	5.24	5.24	7.33	7.33	643	1.74	10
SF2-40·40·1F	9.76	10.08	4.69	5.04	6.83	7.05	704	1.90	10
SF2-40·40·2F	9.66	9.66	4.74	4.74	6.76	6.76	589	1.59	10
SF2-40·40·3F	9.97	10.51	4.94	5.25	6.98	7.35	618	1.67	10
SF2-40·40·2H	9.74	10.44	4.87	5.22	6.82	7.31	612	1.65	10
SF2-40·80	72.30	19.92	18.07	9.96	50.59	13.94	1114	3.01	10
SF2-40·80·1F	70.50	20.32	17.62	10.14	49.33	14.22	1105	3.11	10
SF-40·160	498.81	38.58	62.35	19.29	349.03	27.00	2049	5.54	10
SF-K·40·40	7.50	7.50	3.75	3.75	5.25	5.25	492	1.33	10
SF-K·40·80	55.37	14.44	13.84	7.22	38.74	10.10	856	2.31	10
SF-80·80	129.84	129.84	32.46	32.46	90.85	90.85	1703	4.60	10
SF-80·160	1000.9	295.39	125.11	73.84	700.35	206.69	3891	10.51	10
SF-80·80·H	182.84	182.84	45.71	45.71	127.94	127.94	2616	7.06	10
SF-90·90·H	303.40	303.40	67.42	67.42	212.30	212.30	3270	8.83	10
SF-40·80·80	94.15	94.15	27.56	27.56	65.88	65.88	1550	4.19	10
SF-40·40·R	7.82	7.82	3.53	3.53	5.47	5.47	566	1.53	10
SF-40·DE30	9.89	10.64	3.73	4.20	6.92	7.45	694	1.88	10
SF-40·DE45	9.87	10.37	3.59	3.99	6.91	7.26	676	1.83	10
SF-40·DE60	9.99	10.53	3.74	4.14	6.99	7.37	679	1.84	10
SF2-45·45	15.24	15.24	6.78	6.78	10.66	10.66	783	2.10	10
SF2-45·45·1F	13.91	14.65	5.90	6.51	9.73	10.25	732	1.98	10
SF2-45·45·2F	14.09	14.09	6.14	6.14	9.86	9.86	717	1.94	10
SF2-45·45·3F	14.41	15.02	6.39	6.67	10.08	10.51	736	1.99	10
SF2-45·45·2H	14.3	14.71	6.35	6.53	10.01	10.29	731	1.98	10
SF2-45·90	125.54	32.50	27.90	14.44	87.84	22.74	1543	4.17	10
SF2-45·90·1F	117.42	32.07	26.09	14.10	82.16	22.44	1438	3.88	10
SF-45·180	804.81	60.75	89.42	27	563.14	42.51	2636	7.12	10
SF-K·45·45	11.74	11.74	5.22	5.22	8.21	8.21	628	1.70	10
SF-K·45·45·1F	10.88	11.33	5.04	5.03	7.61	7.93	590	1.60	10
SF-K·45·45·2F	11.13	11.13	4.99	4.91	7.79	7.79	585	1.58	10
SF-K·45·90	87.17	22.87	19.37	10.17	60.99	16.00	1102	2.98	10
SF-90·90	204.97	204.97	45.55	45.55	143.42	143.42	2143	5.79	10
SF-90·180	2136.6	598.51	237.4	133	1495.02	418.79	6320	17.07	10
SF-45·90·90	149.53	149.53	28.83	28.83	104.63	104.63	2052	5.54	10
SF-45·45·R	11.33	11.33	4.52	4.52	7.93	7.93	664	1.79	10
SF-45·DE30	14.91	15.95	4.95	5.7	10.43	11.16	851	2.30	10
SF-45·DE45	14.73	15.49	4.72	5.36	10.31	10.84	821	2.22	10
SF-45·DE60	14.94	15.93	4.86	5.73	10.45	11.15	834	2.26	10
SF-60·60·1S	49.32	49.32	16.44	16.44	34.51	34.51	1380	3.73	10
SF-80·80·1S(L=4000)	90.46	90.46	16.35	16.35	63.30	63.30	1461	3.94	10

Steel Frame		I × E ×10⁹N·mm²	Unit Mass kg/m
Equal Angle Iron	L30×30×t3	2.92	1.32
	L40×40×t5	11.15	2.95
	L50×50×t6	22.84	3.77
	L65×65×t6	60.51	5.91
	L75×75×t6	94.87	6.85
Square Iron	□50×50×t2.3	32.72	3.34
	□50×50×t3.2	41.98	4.50
	□60×60×t2.3	58.24	4.06
	□75×75×t2.3	11.75	5.14

I × E = Geometrical Moment of Inertia mm⁴ × Longitudinal Elastic Modulus N/mm²

●Indication of Frame Selection

Ix × E (Aluminum Frame) ≧ I × E (Steel Frame)

Iy × E (Aluminum Frame) ≧ I × E (Steel Frame)

Technical Data *Indication of Allowable Load*

Indication of Frame's Allowable Load

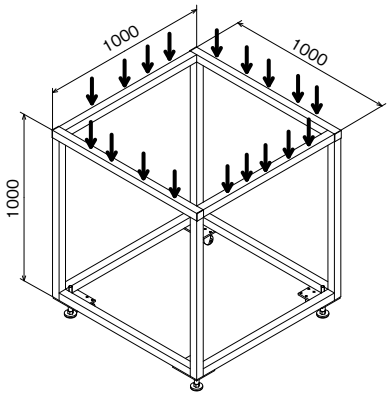
●Calculated as center-concentrated load by both ends supported beam.
●Assumed the load when flexure volume reaches 1/1000mm of the frame's length as the allowable load.

Name	Both Ends Supported Allowable Load L=1000 Centralized Flexure 1mm Allowable Load (N)	L=500 Centralized Flexure 0.5mm Allowable Load (N)
SF-2020	25	99
SF-2040 (Width)	45	181
SF-2040 (Height)	172	688
SF-2060 (Width)	66	265
SF-2060 (Height)	537	2147
SF-2080 (Width)	86	344
SF-2080 (Height)	1208	4832
SF-40402S	299	1194
SF-4060SS (Width)	424	1697
SF-4060SS (Height)	908	3631
SF-4080SS (Width)	614	2457
SF-4080SS (Height)	2125	8499
SF-204040	222	888
SF-2020R	18	74
SF-2525	55	221
SF2-3030	95	380
SF2-3060 (Width)	179	715
SF2-3060 (Height)	678	2714
SF-K3030	80	320
SF-K3060 (Width)	156	622
SF-K3060 (Height)	560	2241
SF-3090 (Width)	283	1134
SF-3090 (Height)	2226	8904
SF-30120 (Width)	376	1503
SF-30120 (Height)	5111	20442
SF-60602S	1390	5562
SF-6090 (Width)	1767	7067
SF-6090 (Height)	3728	14912
SF-60120 (Width)	2217	8867
SF-60120 (Height)	8162	32646
SF-306060	917	3666
SF-3030R	81	325
SF-50502S	725	2902
SF-501002S (Width)	1389	5555
SF-501002S (Height)	5048	20192

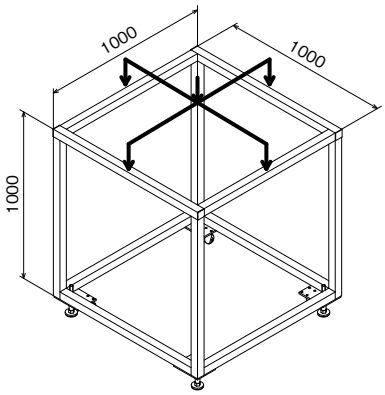
Name	Both Ends Supported Allowable Load L=1000 Centralized Flexure 1mm Allowable Load (N)	L=500 Centralized Flexure 0.5mm Allowable Load (N)
SF-3535	172	688
SF-3570 (Width)	304	1214
SF-3570 (Height)	1179	4714
SF2-4040	349	1397
SF2-4080 (Width)	665	2660
SF2-4080 (Height)	2415	9659
SF-40160 (Width)	1296	5183
SF-40160 (Height)	16753	67013
SF-K4040	252	1008
SF-K4080 (Width)	485	1940
SF-K4080 (Height)	1860	7439
SF-8080	4336	17344
SF-8080H	6130	24518
SF-9090H	10190	40761
SF-80160 (Width)	9921	39685
SF-80160 (Height)	33617	134467
SF-408080	3162	12649
SF-4040R	262	1049
SF2-4545	508	2033
SF2-4590 (Width)	1085	4338
SF2-4590 (Height)	4188	16753
SF-45180 (Width)	2040	8162
SF-45180 (Height)	27031	108123
SF-K4545	394	1576
SF-K4590 (Width)	768	3072
SF-K4590 (Height)	2927	11710
SF-9090	7026	28105
SF-90180 (Width)	20102	80408
SF-90180 (Height)	71761	287044
SF-459090	5024	20094
SF-4545R	381	1522
SF-60601S	1655	6619
SF-80801S	3038	12153

Indication of Unit's Allowable Load

Uniformly-Distributed Load Loaded evenly to the frame



Concentrated Load Loaded to the center of the frame

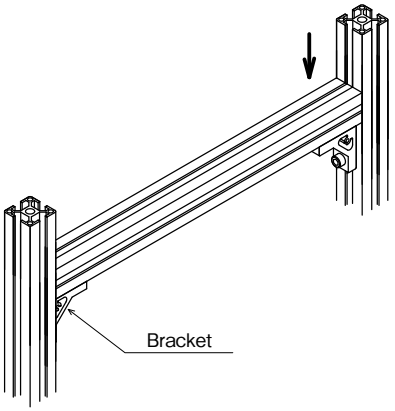


Condition: Calculated based on that each frame's flexure volume is 1mm at the center of the frame in the flat surface of 1000mm×1000mm.

Name	Unit's Allwable Load L=1000 Uniformly-Distributed Load Allowable Load (N)	Concentrated Load Allowable Load (N)
SF-2020	180	112
SF-2040 (Width)	279	174
SF-2040 (Height)	1079	674
SF-2060 (Width)	398	249
SF-2060 (Height)	3366	2104
SF-2080 (Width)	506	316
SF-2080 (Height)	7577	4736
SF-40402S	1835	1147
SF-4060SS (Width)	2552	1595
SF-4060SS (Height)	5578	3486
SF-4080SS (Width)	3617	2261
SF-4080SS (Height)	13054	8159
SF-204040	1364	853
SF-2020R	116	72
SF-2525	344	215
SF2-3030	590	369
SF2-3060 (Width)	1075	672
SF2-3060 (Height)	4212	2632
SF-K3030	512	320
SF-K3060 (Width)	995	622
SF-K3060 (Height)	3585	2241
SF-3090 (Width)	1651	1032
SF-3090 (Height)	13820	8637
SF-30120 (Width)	2117	1323
SF-30120 (Height)	31726	19829
SF-60602S	8365	5228
SF-6090 (Width)	10289	6431
SF-6090 (Height)	22428	14018
SF-60120 (Width)	12485	7803
SF-60120 (Height)	49100	30687
SF-306060	5514	3446
SF-3030R	505	315
SF-50502S	4411	2757
SF-501002S (Width)	8000	5000
SF-501002S (Height)	30692	19183

Name	Unit's Allwable Load L=1000 Uniformly-Distributed Load Allowable Load (N)	Concentrated Load Allowable Load (N)
SF-3535	1101	688
SF-3570 (Width)	1943	1214
SF-3570 (Height)	7543	4714
SF2-4040	2146	1341
SF2-4080 (Width)	3916	2447
SF2-4080 (Height)	14837	9273
SF-40160 (Width)	6966	4354
SF-40160 (Height)	102932	64333
SF-K4040	1548	967
SF-K4080 (Width)	2856	1785
SF-K4080 (Height)	11426	7141
SF-8080	25531	15957
SF-8080H	36091	22557
SF-9090H	65217	40761
SF-80160 (Width)	53336	33335
SF-80160 (Height)	180724	112952
SF-408080	18619	11637
SF-4040R	1612	1007
SF2-4545	3106	1941
SF2-4590 (Width)	6316	3948
SF2-4590 (Height)	25599	15999
SF-45180 (Width)	10708	6692
SF-45180 (Height)	165212	103258
SF-K4545	2408	1505
SF-K4590 (Width)	4474	2796
SF-K4590 (Height)	17892	11183
SF-9090	40921	25576
SF-90180 (Width)	105495	65934
SF-90180 (Height)	417936	261210
SF-459090	29257	18286
SF-4545R	2326	1454
SF-60601S	9955	6222
SF-80801S	19445	12153

Indication of Bracket's Allowable Load (Slip)

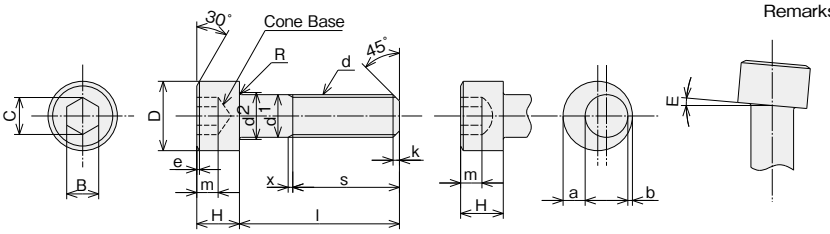


Size	Bracket Name	Allowable Load (N)
SS	D Bracket SS	833
	D Bracket 2040	1887
	Hard Bracket SS	833
	Hard Bracket SSG	833
	Hard Bracket SSW 2020	1290
	Hard Bracket SS 2040	1470
	Hard Bracket SSG 2040	1470
	Hard Bracket SSW 2040	2233
	Hard Bracket SS 2060	1960
	Hard Bracket SSG 2060	1960
	Hard Bracket SSW2060	4360
	Angle Bracket SS	686
	Angle Bracket Hard SS	686
	Angle Bracket SS 2040	1176
	Angle Bracket SS 2060	1617
	QC Joint SS	345
	S Blind Bracket SS	196
S	D Bracket S	1176
	D Bracket 3060	2825
	Hard Bracket S	1176
	Hard Bracket SG	1176
	Hard Bracket SW 3030	3035
	Hard Bracket S 3060	1960
	Hard Bracket SG 3060	1960
	Hard Bracket SW 3060	4307
	Hard Bracket S 3090	2744
	Hard Bracket SG 3090	2744
	Hard Bracket S 50	1960
	Hard Bracket SG 50	1960
	Hard Bracket SW 3090	5737
	Angle Bracket S	980
	Angle Bracket Hard S	980
	Angle Bracket S 3060	1568
	Angle Bracket S 3090	2352
	Angle Bracket S 50	1568
	S Blind Bracket S	686
	QC Joint S	395
	TG Joint 30	945
	S Double Joint 30	1200
	KF Joint	535

Size	Bracket Name	Allowable Load (N)
L	D Bracket L	2058
	D Bracket 4080	5055
	D Bracket 4590	5055
	Hard Bracket L	2058
	Hard Bracket LG	2058
	Hard Bracket LW	5422
	Hard Bracket L 4080	2940
	Hard Bracket G 80	3920
	Hard Bracket G 80160	7056
	Hard Bracket LW4080	8542
	Hard Bracket GW80	8542
	Hard Bracket L 4590	2940
	Hard Bracket G 90	3920
	Hard Bracket G 90180	7056
	Hard Bracket LW4590	8542
	Hard Bracket GW90	8542
	Angle Bracket L 40	1666
	Angle Bracket Hard L40	1666
	Angle Bracket L 4080	2352
	Angle Bracket L 45	1666
	Angle Bracket Hard L45	1666
	Angle Bracket L 4590	2352
	Offset Angle L4080	2352
	Offset Angle L4590	2352
	S Blind Bracket L	1274
	QC Joint L	800
	TG Joint 4045	1560
	TG Joint 60	1560
	TG Joint 80 Kit (When using □80 Frame)	7687
	S Double Joint 40	1200
	S Double Joint 45	1200
	S Double Joint 60	1200
	S Double Joint 80	1200

Technical Data *Hexagon Socket Bolt, SI Unit List*

Hexagon Socket Bolt Excerpt from JISB1176 (1988)

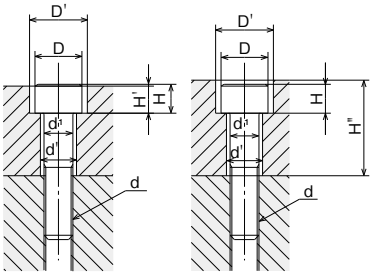


Remarks
1. Don't use the staff which the name is in parenthesis as possible as you can.
2. Developed length (l), length of thread part (s) and length of incomplete thread is by appendix table 2.
3. Base shape of hexagonal hole can be circular cone or circle.
4. There must not have significant eccentric to the hexagonal hole.
5. Inner chamfering can be done to the hexagonal hole.
6. Put parallel or slash knurling to the side of the head. However, knurling in not needed by specification. In this case, allowable difference of D is h13 according to JIS B 0401 (Dimensional tolerance and engaging).
7. Spanner for this bolt is JIS B 4648 (Hexagonal bar spanner).

Unit mm

Size of Screw (d)		M3×0.5	M4×0.7	M5×0.8	M6	M8	M10	M12	(M14)	M16	(M18)	M20	(M22)	M24	(M27)	M30
Pitch P		0.5	0.7	0.8	1	1.25	1.5	1.75	2	2	2.5	2.5	2.5	3	3	3.5
d_1	Basic Dimension	3	4	5	6	8	10	12	14	16	18	20	22	24	27	30
	Allowable Tolerance	0 −0.1				0 −0.15						0 −0.2				
D	Basic Dimension	5.5	7	8.5	10	13	16	18	21	24	27	30	33	36	40	45
	Allowable Tolerance	0 −0.3	0 −0.36			0 −0.43			0 −0.52			0 −0.62				
H	Basic Dimension	3	4	5	6	8	10	12	14	16	18	20	22	24	27	30
	Allowable Tolerance	0 −0.25	0 −0.3			0 −0.36		0 −0.43				0 −0.52				
e	About	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	1	1	1	1	1	1.5	1.5
B	Basic Dimension	2.5	3	4	5	6	8	10	12	14	14	17	17	19	19	22
	Allowable Tolerance	+0.080 +0.020		+0.105 +0.030		+0.130 +0.040			+0.230 +0.050					+0.275 +0.065		
C	About	2.9	3.6	4.7	5.9	7	9.4	11.7	14	16.3	16.3	19.8	19.8	22.1	22.1	25.6
m	MIN	1.6	2.2	2.5	3	4	5	6	7	8	9	10	11	12	13.5	15
R	MIN	0.1	0.2	0.2	0.25	0.4	0.4	0.6	0.6	0.6	0.6	0.8	0.8	0.8	1	1
da	MAX	3.6	4.7	5.7	6.8	9.2	11.2	14.2	16.2	18.2	20.2	22.4	24.4	26.4	30.4	33.4
k	About	0.6	0.8	0.9	1	1.2	1.5	2	2	2	2.5	25	25	3	3	3.5
a—b	MAX	0.2	0.2	0.3	0.3	0.4	0.5	0.7	0.7	0.8	0.9	0.9	1.1	1.2	1.3	1.5
E	MAX	1°														

Hexagon Socket Bolt Drilling Dimension (Reference Value)



Unit mm

Size of Screw (d)	M3	M4	M5	M6	M8	M10	M12	M14	M16	M18	M20	M22	M24	M27	M30
d_1	3	4	5	6	8	10	12	14	16	18	20	22	24	27	30
d'	3.4	4.5	5.5	6.6	9	11	14	16	18	20	22	24	26	30	33
D	5.5	7	8.5	10	13	16	18	21	24	27	30	33	36	40	45
D'	6.5	8	9.5	11	14	17.5	20	23	26	29	32	35	39	43	48
H	3	4	5	6	8	10	12	14	16	18	20	22	24	27	30
H'	2.7	3.6	4.6	5.5	7.4	9.2	11	12.8	14.5	16.5	18.5	20.5	22.5	25	28
H''	3.3	4.4	5.4	6.5	8.6	10.8	13	15.2	17.5	19.5	21.5	23.5	25.5	29	32

Remarks Bolt Hole Dimension (d') above is according to JIS B 1001.

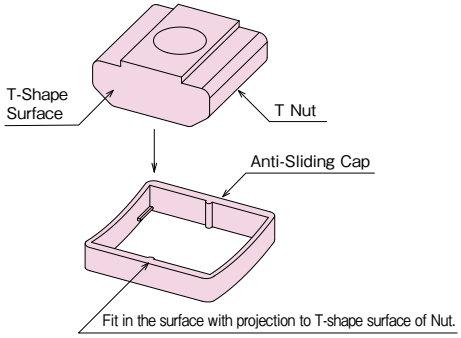
List of SI Unit for Main Amount

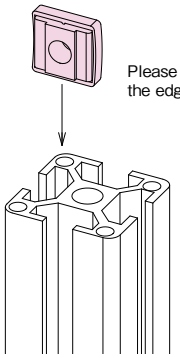
Name of Amount	Existing Unit	SI Unit	Equivalent
Length	μ	μm	1μ=1μm
	Å	m (Å can be used together)	1Å=10^{-10}m
	ft		1ft=3.048×10^{-1}m
	in		1in=2.54×10^{-2}m
	mile		1mile=1.60934×10^{3}m
Area	a	m^2 (a can be used together)	1a=$10^{2}$$m^2$
	yd^2		1yd^2=2.01168×10m^2
	ft^2		1ft^2=9.29030×$10^{-2}$$m^2$
	in^2		1in^2=6.4516×$10^{-4}$$m^2$
	acre		1acre=4.04686×$10^{3}$$m^2$
	$mile^2$		1$mile^2$=2.58999×$10^{6}$$m^2$
Volume	cc	cm^3	1cc=1cm^3
	L.l	dm^3 (L.l can be used together)	1L=1dm^3
	gal	m^3	1gal=4.54609×10^{-3}
	gal		1gal=3.78541×10^{-3}
	barrel		1barrel=1.590×10^{-1}

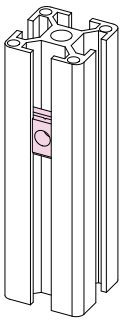
Name of Amount	Existing Unit	SI Unit	Equivalent
Weight	t	kg (t can be used together)	1t=10^{3}kg
	car	mg	1car=200mg
Density·Concentration	kgf·s^2/m^4	kg/m^3	1kgf·s^2/m^4=9.80665kg/m^3
Momentum	kgf·s	kg·m/s	1kgf·s=9.80665kg·m/s
Moment of Inertia	kgf·m·s^2	kg·m^2	1kgf·m·s^2=9.80665kg·m^2
Power	kgf	N	1kgf=9.80665N
	dyn		1dyn=10^{-5}N
Moment of Power	kgf·m	N·m	1kgf·m=9.80665N·m
Pressure	kgf/cm^2	Pa (bar can be used together)	1kgf/cm^2=9.80665×10^{4}Pa
			1kgf/cm^2=9.80665×10^{-1}bar
	bar		1bar=10^{5}Pa
	at (Technical Atmosphere)		1at=9.80665×10^{4}Pa
	atm (Presure)		1atm=101325Pa
	mH_2O,mAg		1mH_2O=9.80665×10^{3}Pa
	mmHg		1mmHg=133.322Pa
	Torr		1Torr=133.322Pa

How to use Nut

T Nut + Anti-Sliding Cap



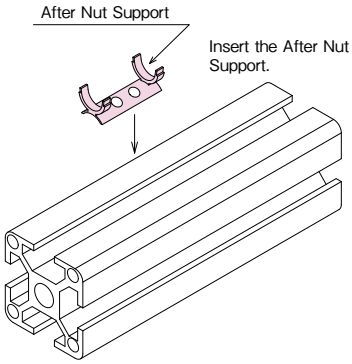


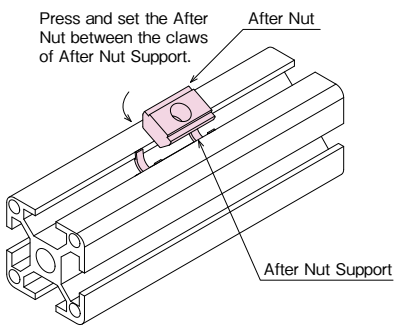


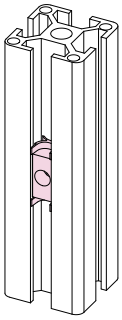
for SF-20 Series	T Nut SS Anti-Sliding Cap SS	P30
for SF-30 Series	T Nut S Anti-Sliding Cap S	P60
for SF-40 Series	T Nut L Anti-Sliding Cap L40	P98
for SF-45 Series	T Nut L Anti-Sliding Cap L45	P98

It's hardly slide with Anti-sliding Cap.

After Nut + After Nut Support



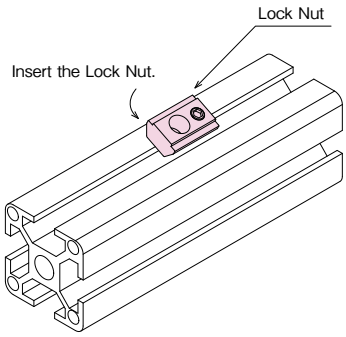


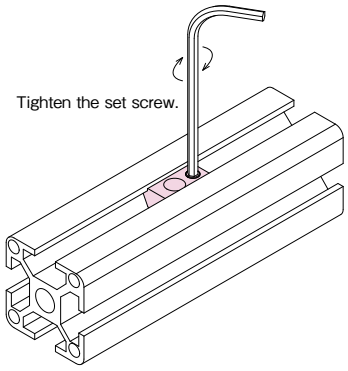


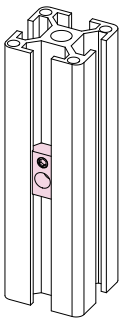
for SF-20 Series	After Nut SS After Nut Support SS	P30
for SF-30 Series	After Nut S After Nut Support S	P61
for SF-40·45 Series	After Nut L After Nut Support L	P99

Nut can be positioned in the right place by After Nut Support, and it hardly displace because of the convenient lock function.

Lock Nut



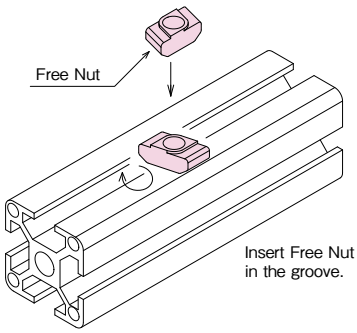


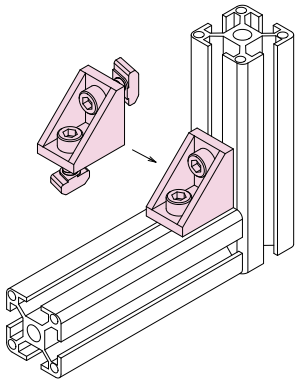


for SF-20 Series	Lock Nut SS	P30
for SF-30 Series	Lock Nut S	P61
for SF-40·45 Series	Lock Nut L	P99

By tightening the set screw, position of the Nut is fixed and hardly moves. After Nut Support can also be used and hardly moves as a temporary setting.

Free Nut





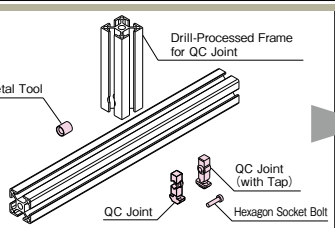
for SF-20 Series	Free Nut SS	P30
for SF-30 Series	Free Nut S	P61
for SF-40·45 Series	Free Nut L	P100

Nut can be inserted in the condition that is remained in bracket, etc.

Technical Data *How to joint Bracket*

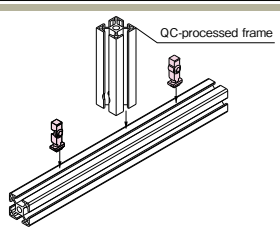
QC Joint Kit

1



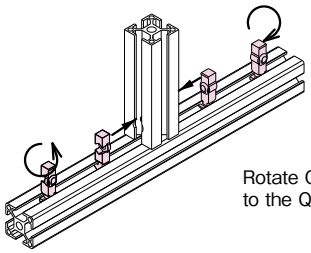
・Drill-processing for QC Joint is needed on one of the frames.

2



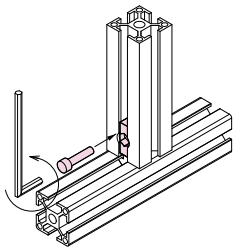
Insert QC Joint.

3



Rotate QC Joint 90°, and connect to the QC-Processed Frame.

4

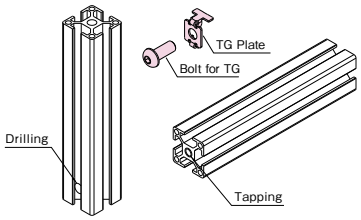


Tighten QC Joint and Bolt with Hexagonal Wrench.

TG Joint Kit

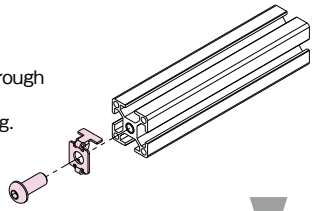
1

・Tapping for bolt tightening is needed to one frame, and wrench hole processing is needed to another frame.

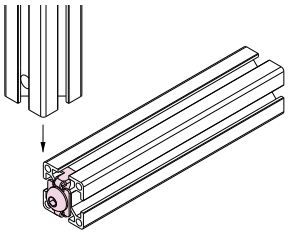


2

Put the Bolt for TG through the TG Plate, and fix temporary with spacing.

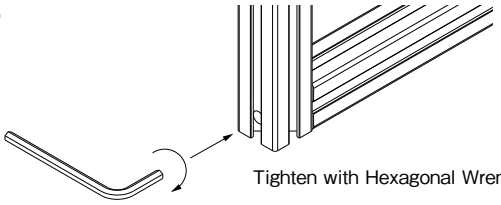


3



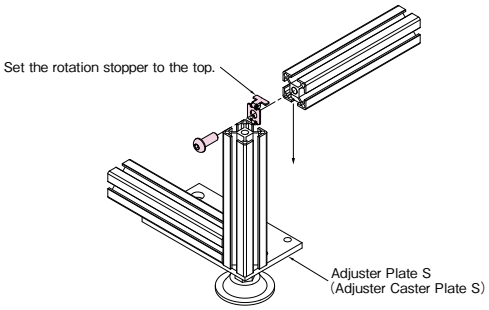
Set the head of the bolt and TG Plate to another frame, and slide to the specific position.

4



Tighten with Hexagonal Wrench and fix it.

Instruction for use of TG Joint

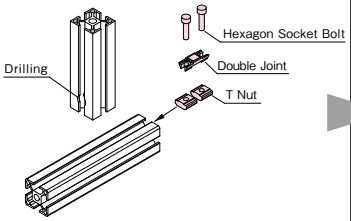


When using TG Joint Kit 30 with Adjuster Plate S and Adjuster Caster Plate S together, please pay attention to the direction of TG Plate.

Double Joint Kit

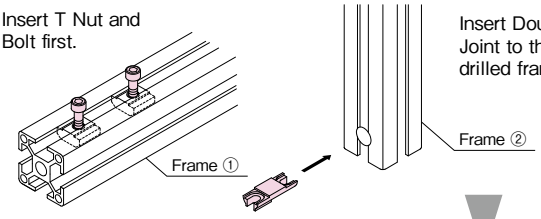
1

・Drilling is needed to one of the frames.



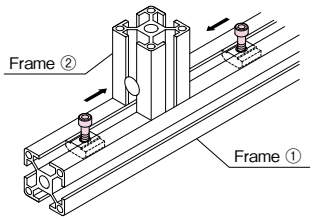
2

Insert T Nut and Bolt first.



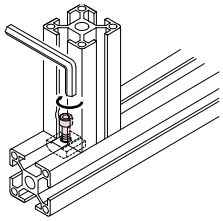
Insert Double Joint to the drilled frame.

3



Fix up Frame 2 to Frame 1, and slide T Nut and Bolt from both sides to connect to Double Joint.

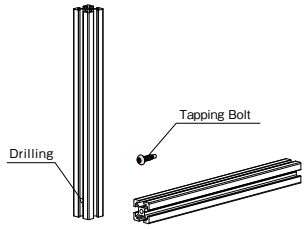
4



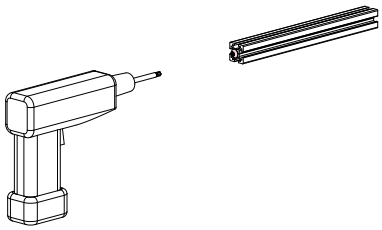
Tighten with Hexagonal Wrench with adjusting the position.

Tapping Bolt

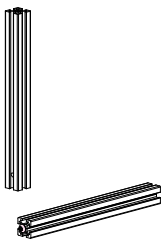
1 Drilling is needed to the frame which fixes with Tapping Bolt.



2 Fix Tapping Bolt temporary by Electric Driver.

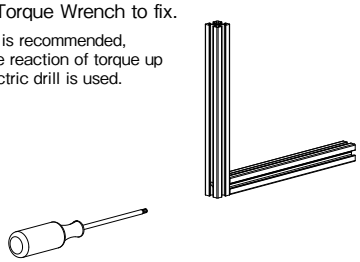


3 Insert the head of the bolt to another frame's groove, and slide to the specified position.



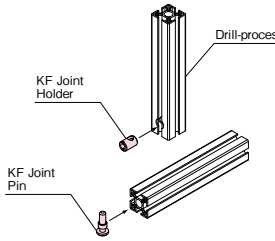
4 Tighten by Torque Wrench to fix.

* Manual tool is recommended, because the reaction of torque up is big if electric drill is used.



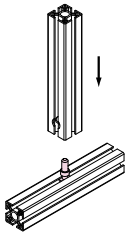
How to assemble KF Joint

1 Drilling for KF Joint is needed to one of the frames.

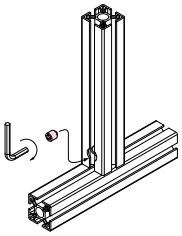


※Drilling for KF Joint is needed to one of the Frames.

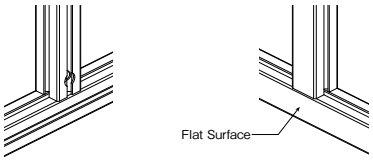
2 Put the frame to KF Joint pin.



3 Tighten set screw (sharp edge) by Hexagonal Wrench.



4 Appearance from the opposite side is clear because the drilling for KF Joint is not penetrated.



Inside　　Outside(Joint processing cannot be seen.)

Maintain the beauty of flat face.

Technical Data *Free Unit*

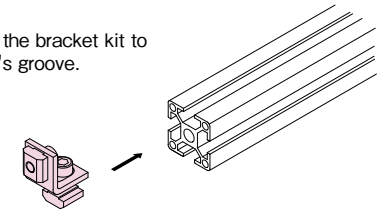
Each L-Shape Bracket

1

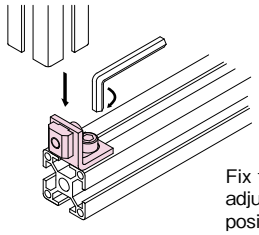


Fix bolt and Nut temporary to bracket.

2 Insert the bracket kit to frame's groove.

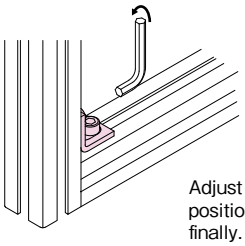


3



Fix temporarily, adjusting the bracket's position.

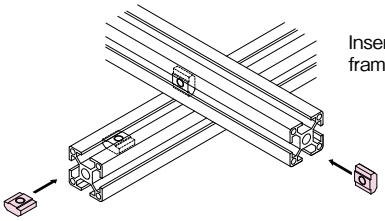
4



Adjust the frame's position, and tighten finally.

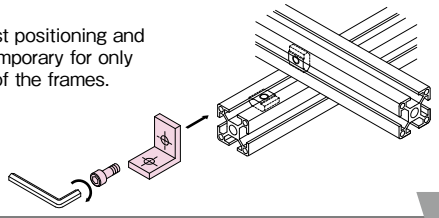
Angle Bracket

1

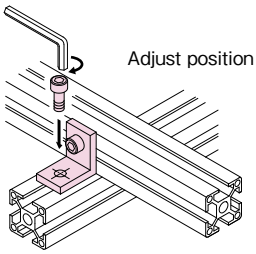


Insert T Nuts to both frames at first.

2 Adjust positioning and fix temporary for only one of the frames.



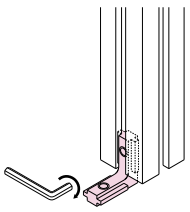
3



Adjust position and tighten finally.

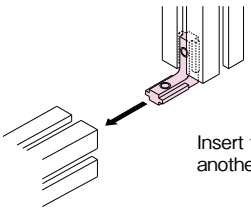
Blind Bracket

1



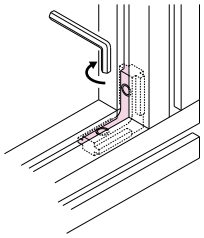
Fix Blind Bracket temporary to frame.

2



Insert the Blind Bracket fixed in 1 to another frame's groove.

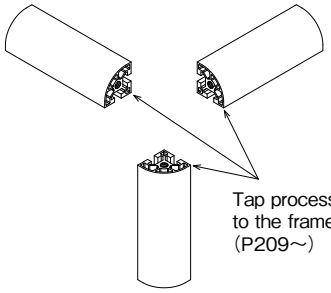
3



Position well and tighten the set screw by wrench.

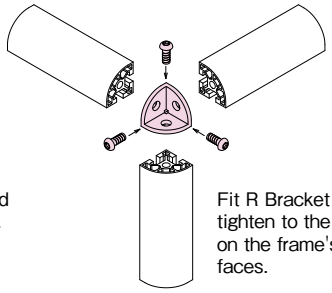
R Bracket (Block Bracket)

1



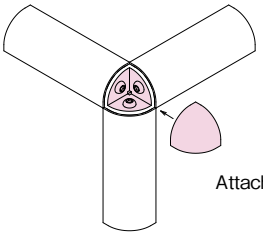
Tap processing is needed to the frame's end faces. (P209～)

2



Fit R Bracket and tighten to the tap on the frame's end faces.

3



Attach R Cap.



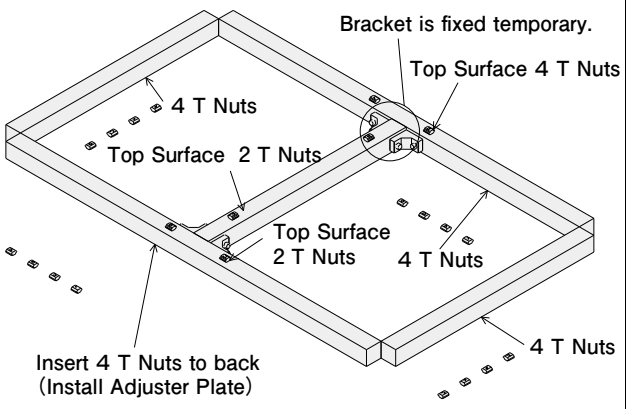
Technical Data *How to Assemble SF Unit*

How to Assemble SF Unit

Before Assembly | **1.** Please assemble in wide space on flat floor. **2.** Classify the Frames by dimensions and parts.

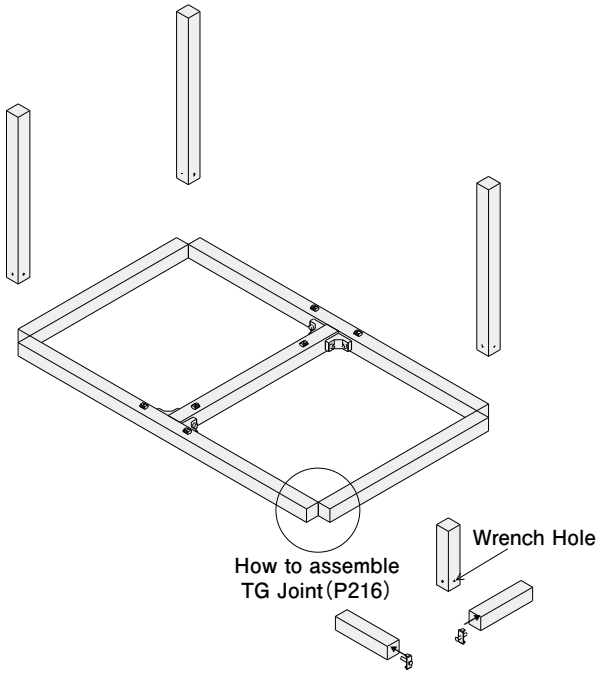
* Example of using TG Joint Kit and Hard Bracket

1 Base Assembly



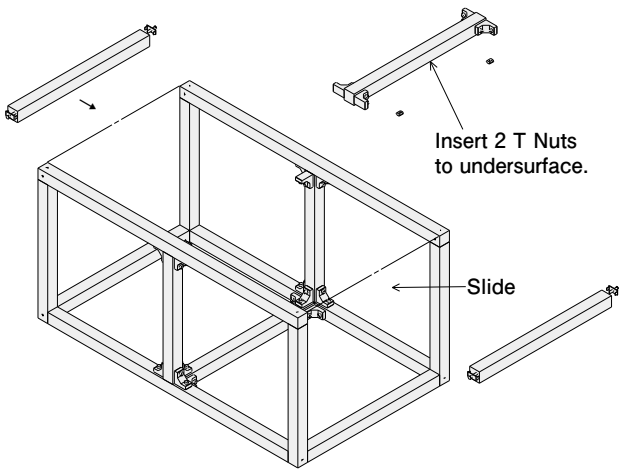
* Please don't forget to insert Nuts.

2 Put up poles

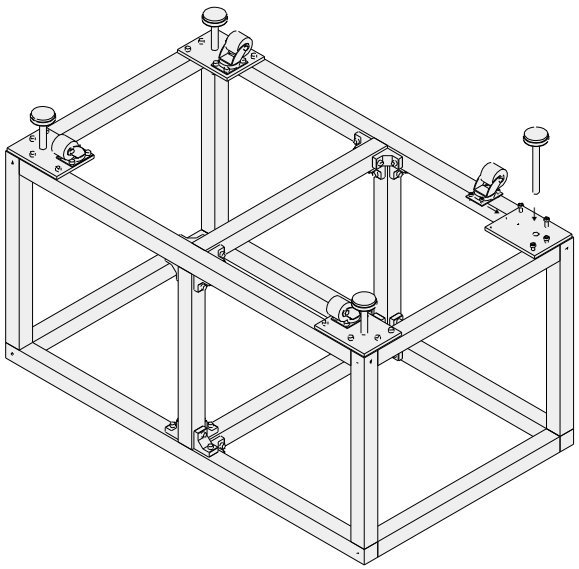


* Please confirm the directions.

5 Assemble top surface (2)



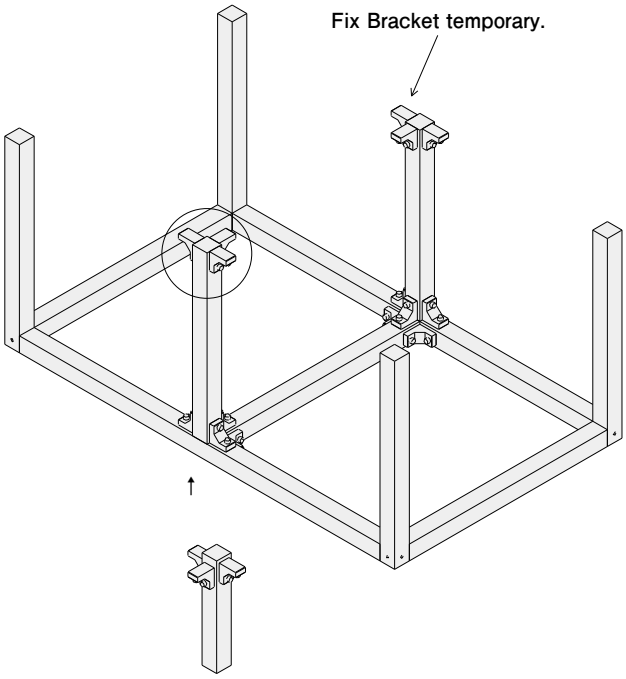
6 Turn unit upside-down, and install Adjuster and Caster



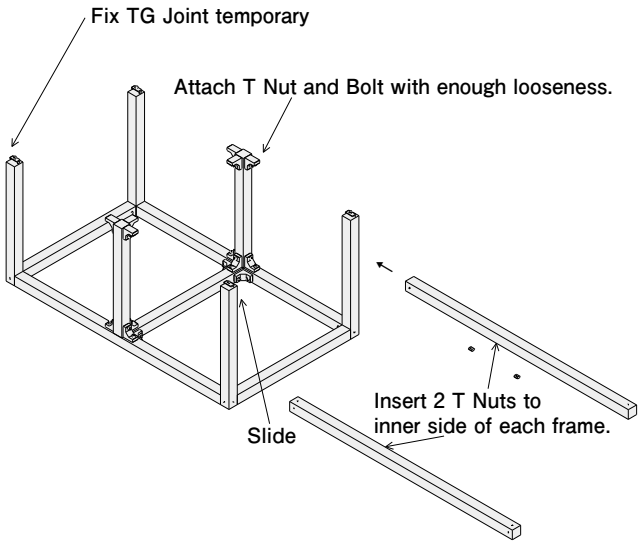
* Don't forget to prepare T Nut and Free Nut to install Top Plate and Cover.

3. Scratch marking-off on Frame **4.** Confirm the quantity of Nuts to insert before assembly.

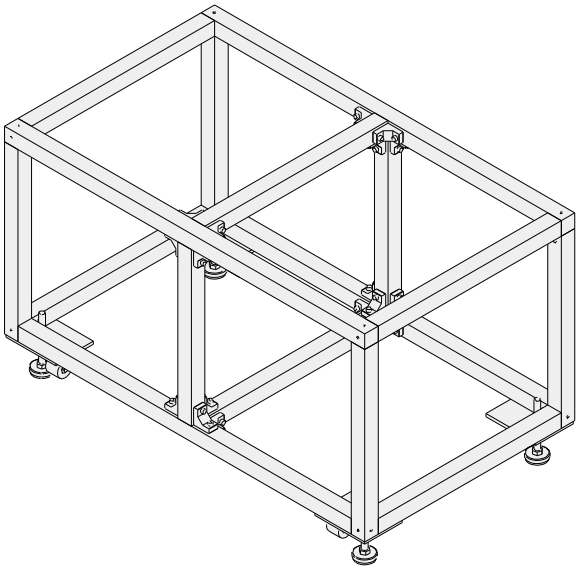
3 Put up intermediate poles



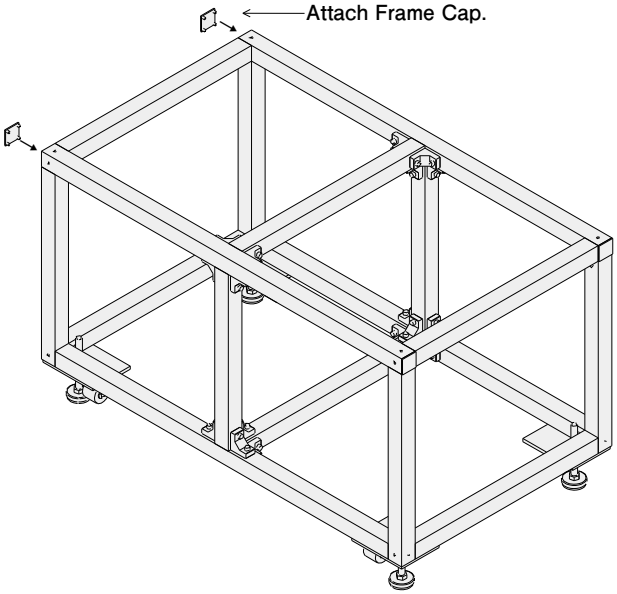
4 Assemble top surface (1)



7 Tighten finally with adjusting the Frame's position.



8 Completion

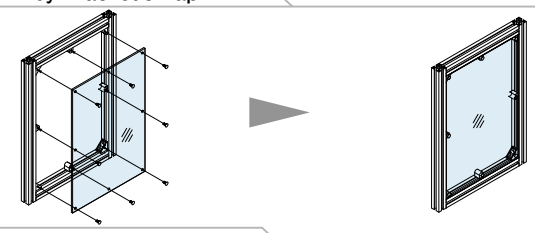


* Please clean the surface with alcohol, etc after assembly.

Technical Data *How to install*

How to install Panel

How to fix by Bracket's Tap



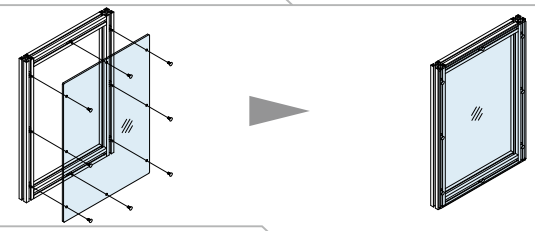
(How to install)
- Fasten Resin Panel to the tap of D Bracket or Hard Bracket by bis.

(Selection Indication)
- Panel installation is easy even after assembling frame, and the Panel's surface becomes as same as Frame's surface.

(For details)
Bracket with Tap

SF-20 series	P32～
SF-30 series	P63～
SF-40・45 series	P101～

How to fix from outer Frame



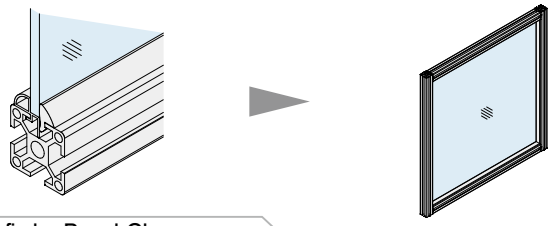
(How to install)
- Insert After Nut in frame's groove, and fasten Resin Panel by bis.

(Selection Indication)
- High-airtightness component with lessen the gap with frame.

(For details)
After Nut to fix Resin Panel.

After Nut SS	P23～
After Nut S	P61～
After Nut L	P99～

How to fix by Panel Fix



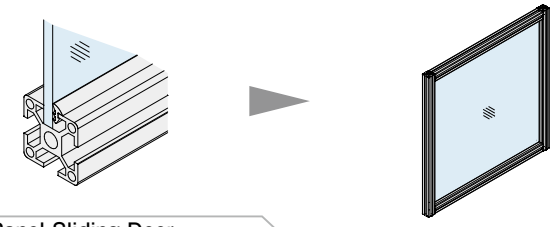
(How to install)
- Fix Resin Panel in to the frame's groove, using Panel Fix.

(Selection Indication)
- Beautiful appearance without bis. Displacing is possible after assembly.

(For details)

Panel Fix	P172
Panel Fix Rubber	

How to fix by Panel Clamp



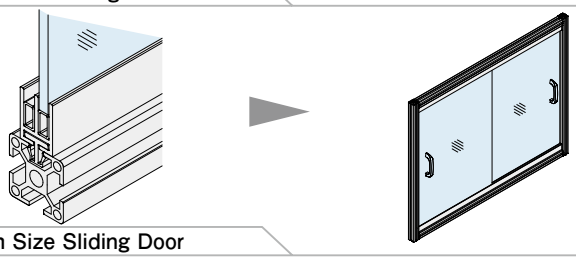
(How to install)
- Fit Resin Panel into the frame's groove before assembling the frame, and fix by Panel Clamp completely.

(Selection Indication)
- Appearance is clear.
- Frame assembly and inserting Panel is done at the same time, so it's suitable for unit in face.

(For details)

Panel Clamp	P172

Resin Panel Sliding Door



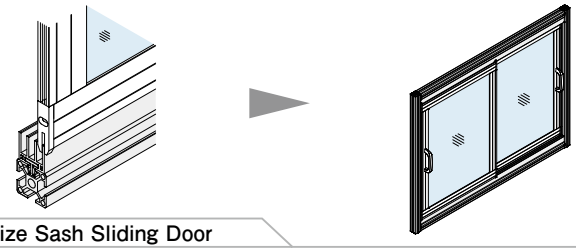
(How to install)
- Resin Panels become a Sliding Door, using Slide Rail and Slide Spacer.

(Selection Indication)
- Sliding Door Structure at low cost.

(For details)

Slide Rail	P176
Slot Connector	
Slide Spacer	

Medium Size Sliding Door



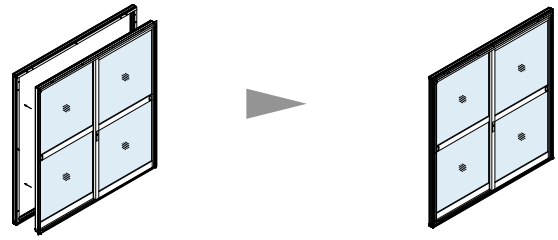
(How to install)
- Sliding Door's rim frame is used as a Sliding Door with installing rollers to the convex part of the slide rail.

(Selection Indication)
- Suitable for medium size.

(For details)

Slide Rail	P176
Slot Connector	
Frame for Sliding Door's Rim	P178
Panel Joint Kit	
Rail Guide	
Sliding Door Wheel	
Panel Guard	P130

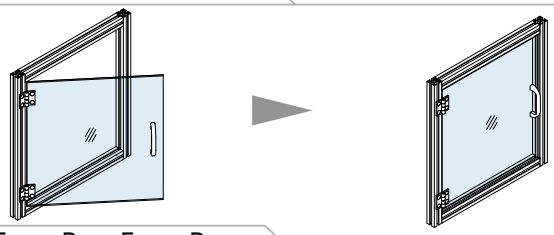
Large size Sash Sliding Door



(How to install)
- Fasten Aluminum Sash Kit to Aluminum Frame by bis to install.

(Selection Indication)
- Suitable for large size.

Resin Door



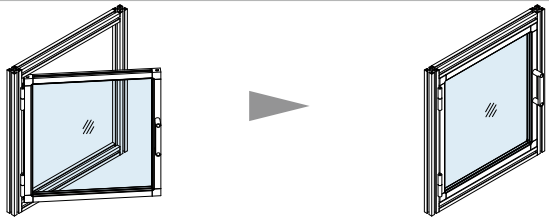
(How to install)
- Attach hinges to Resin Panel and use as a door.

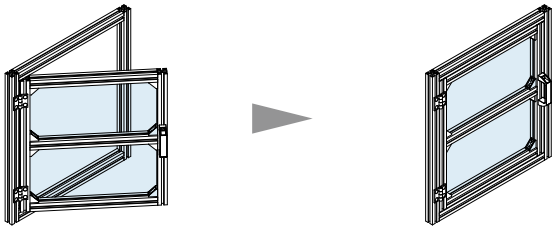
(Selection Indication)
- Door structure at low cost.

(For details)

Installation size	P175
Fixed Hinges	P140～

Panel Frame Door, Frame Door





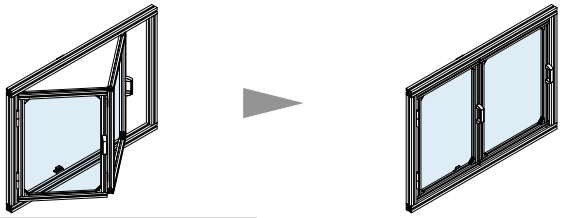
(How to install)
- Make a rim by various kinds of Frame to use as a door.

(Selection Indication)
- Medium to large size door structure.

(For details)

Installation size	P75
Panel Frame	P174
TC Block	
Fixed Hinges	P140～

Folding Door



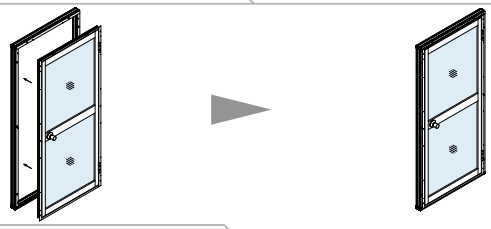
(How to install)
- Make a rim by Frames, and attach Folding Door Slider to slide the frame's groove.

(Selection Indication)
- You can use the covering's outer space effectively when opening and closing.

(For details)

Folding Door Slider	P179

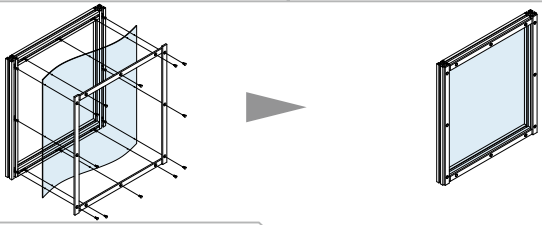
Large Size Sash Door



(How to install)
- Fasten Aluminum Sash Kit to Aluminum Frame.

(Selection Indication)
- To construct large size door. Handles are standard adoption.

Fixing Vinyl Sheet



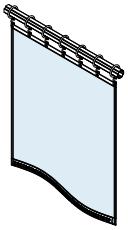
(How to install)
- Fix Vinyl Sheet to Aluminum Frame's groove by Sheet Fixing Plate or drilled Flat Bar.

(Selection Indication)
- Covering structure at lower cost than Hard Resin Panel.

(For details)

Vinyl Sheet	P182
Flat Bar	P128

Vinyl Sheet Curtain



(How to install)
- Vinyl Sheet becomes a curtain using Green Frame and Ring Runner.

(Selection Indication)
- Door structure at lower cost than Hard Resin Panel.

(For details)

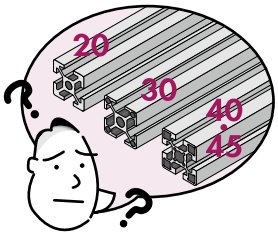
Vinyl Sheet	P182

Technical Data Q & A

Q What is the indication of selecting aluminum frame?

A

SF series is composed of 3 series as follows.
SF20 series (groove width 6mm). For small size covering, rack for small parts, etc.
SF30 series (groove width 8mm). For medium size covering, conveyer frame, etc.
SF40·45 series (groove width 10mm). For large size clean booth, equipment table, component material, etc.
Please solve the mass of the products at first, and select the frame referring Indication of allowable load (P194).



Q What is the indication of selecting bracket?

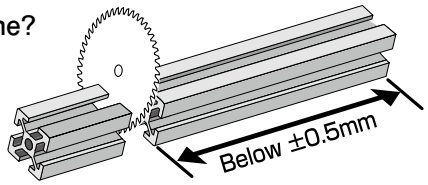
A

Usable bracket is written separately by each series. Please refer Indication of bracket's allowable load (P195).
・In case that L-shaped bracket interferes product or panel, please select QC Joint, TG Joint, KF Joint, S Double Joint, Tapping Bolt, S Blind Bracket or Plate Bracket.
・In case that aluminum frame overhangs to cantilever, please use Truss Joint, Turn Bracket or Hard bracket DE135/45 and construct large size stay.

Q How much is the cutting tolerance of aluminum frame?

A

±0.5mm less than specified size.



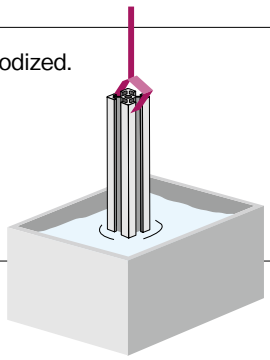
Q How is aluminum frame finished?

A

A. In SF series, frame's surface is anodized to finish (more than 9㎛). Cut surface is not anodized.
* Black anodizing is also available. Black anodizing cost will be added to our price list.

* Please refer the standard black anodized Frame and Bracket in the series page.

* Frame without anodizing for conduction measure can also be ordered specially.



Q How is aluminum frame cut?

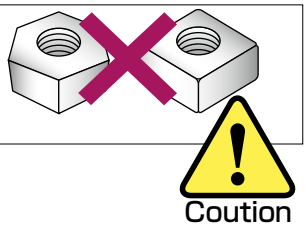
A

It's cut by tip saw for mild steel. Please cover the cut surface by Frame Cap after assembling frame.

Q Can JIS standard hexagonal nut and square nut be used for SF series?

A

No. The area of pressure by sitting is cordoned by using the exclusive nut, and SUS is manufacturing the nut to prevent aluminum material from buckling.
* Exclude SF Light series.



Q Does Nut fall down when frame is stood vertically?

A

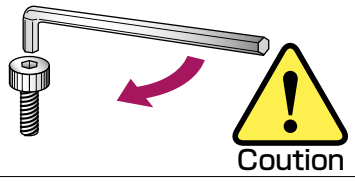
Please attach "Anti-Skid Cap" to T Nut and insert to the frame's groove. Or in case of inserting later, please use "Easy Nut", "After Nut Support" and "Lock Nut". "Anti-Skid Cap" and "After Nut Support" is provided as 50pieces/pack.

Q What is appropriate tightening force in using Nut or Hexagon Socket Bolt?

A

Size of screw	Appropriate tightening force	(Appropriate tightening torque-reference)
M3	3.2KN	(1.9N・m)
M4	5.1KN	(4.1N・m)
M5	7.4KN	(7.4N・m)
M6	9.0KN	(10.8N・m)
M8	15.5KN	(24.9N・m)

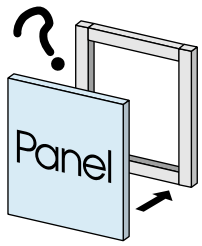
Aluminum may buckle or Nut may break if you tighten harder than the appropriate tightening force. We recommend using T Nut to the tightening part which intensity applies.



Q How can we fix Resin Panel to Aluminum Frame?

A

Please select fixing method according to your purpose.



In case you stick Panel to outer frame ··· Please insert T Nut (with Anti-Skid Cap) to frame's groove at first, and fix by Truss Screw.

In case you fasten Panel to inner frame by bis ···Fixing method is in P47, 82 and 125. With this method, the appearance is good and removing Panel is easy, so it's suitable for Safety Cover, etc.

In case you fit into inner frame. ···Fixing method is in P214 and 215. With this method, drill-processing or fastening with bis aren't necessary, so it's suitable for the purpose of emphasizing design.

Q How can we install doors to Aluminum Frame?

A

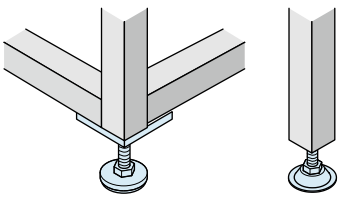
Please select the installing method according to your purpose.
Resin Panel Door···Please refer Resin Panel (P182) and Hinge・Pull, etc (P140 ～).
Frame Rim Door·····Please select Panel Frame (P174) or SF20 series (P24 ～) and create the door.
* Please construct frame rim with SF30 series for large size door.

Q How can we fix Adjuster or Caster?

A

Usable adjuster and caster are provided by each frame size.

SF20 series	(P43,44)
SF30 series	(P77,78)
SF40・45 series	(P119)

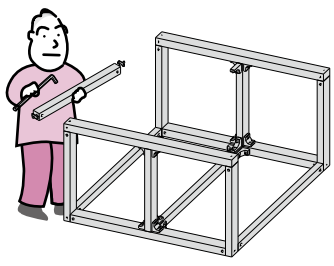


Q What are the precautions for assembly?

A

・Please assemble frames in wide space on flat floor.
・Regarding squaring and surface matching in assembling frame, it's convenient to fit Chamfering Jig from outside.
・Purchasing Lock Nut at the beginning is recommended as reserve parts.
・Please check whether you forgot to tighten all bolts or not after assembly.
・SUS also responds Unit Assembly Service.





Technical Data *Frame Processing*

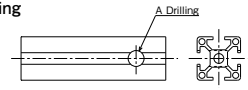
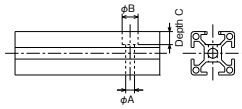
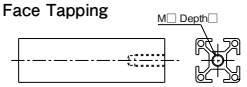
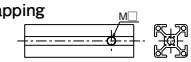
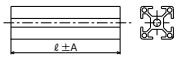
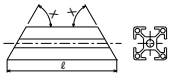
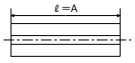
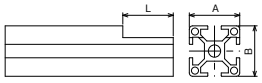
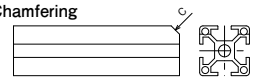
Frame Processing List

Please specify by processing No. (P208～219) or in the drawing when you want the frame processing below.

Item No. Length(mm) ProcessingNo.

Example of order: SF2-30·30 | ℓ=800 | TGS

Specify by drawing in case of no Processing No.

Processing Name	Processing Contents	Note	Category
Drilling 	In case A=8/11.1/13.1/15.1	Please refer the processing number list in P214～219 for drilling TG Joint, S Double Joint, Tapping Bolt and KF Joint.	SFZ-002
	In case A<20 and other than above	Specify by drawing.	SFZ-003
	In case A≧20		SFZ-009
Counterbore 	A: SF30 series (for M6 Hexagon Socket Bolt) 6.6; B 11; C 9 SF40(45) series (for M8 Hexagon Socket Bolt) 9; 14; 12.5 (13) SF20 series (for M5 Hexagon Socket Bolt) 5.5; 9.5; 6 (for M12 Hexagon Socket Bolt) 14; 20; specify	Specify by drawing. (Refer P196)	SFZ-004
	Spot Facing other than above		SFZ-009
End Face Tapping 	M5 Depth15	Refer P209～211 Drilled to the deapth of 50 Specify by drawing.	SFZ-005
	・M8 Depth 24※ ・M12 Depth 36※		SFZ-008
	M12 Helisert 1.5D		SFZ-006
	M14 Depth 42	Specify by drawing.	SFZ-007
Side Tapping 	Taping on Frame Side	Specify by drawing.	SFZ-009
QC Joint Processing 	Drilling for QC Joint	Refer P212～213	SFZ-002
High Accuracy Cut (HC) 	A=0.5	Standard Cutting Size Tolerance	
	A=0.2～0.4 (ℓ≦1000mm)	Specify by drawing.	SFZ-015
Slant Cut 	X=45°	Specify by Processing No. below. Specify by drawing for others.	SFZ-016
	45°<X<90°(0.5° Unit)	Specify by drawing.	SFZ-013
	X<45°		SFZ-014
Cost to cut nonstandard size 	Cut the dimension of 30mm≦A≦50mm	It's adapted when receiving the specification to cut more than 30mm and below 50mm.	SFZ-009
Notching 	A×B≦900㎟: L≦100mm	Specify by drawing.	SFZ-009
	A×B≦900㎟: 100mm<L≦200mm		
	900㎟<A×B≦2700㎟: L≦100mm		
	900㎟<A×B≦2700㎟: 100mm<L≦200mm		
	2700㎟<A×B: L≦100mm		
	2700㎟<A×B: 100mm<L≦200mm		
C-Chamfering 	C Below 0.5	Specify by drawing.	SFZ-009
	C 0.6～C 5		
	C 5.1～C 10		
	C 10.1 and up		

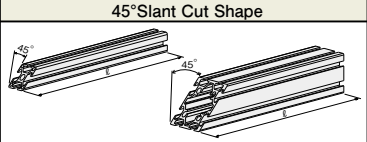
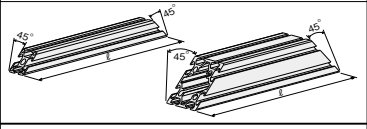
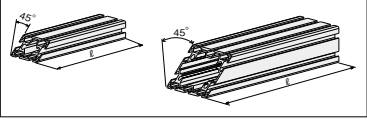
45°Slant Cut Frame Processing Number List

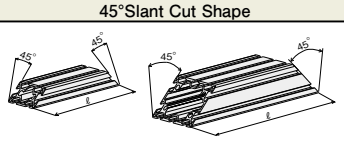
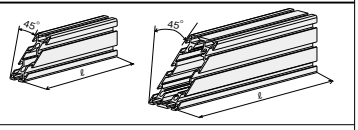
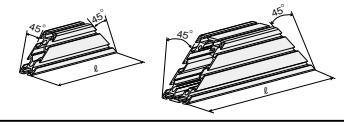
Please specify Processing No. below to the Frame when using Hard Bracket DE135/45 in P41·74·109

Item No. Length(mm) Processing No.

Example of order: SF2-30·60 | ℓ=800 | DHS

※ Specify by drawing in case of no Processing No.
※ Specify in drawing other than intended Frames.

Processing No.	45°Slant Cut Shape	Intended Frame
DSS		SF-20·20(or Black) SF-25·25(or Black) SF-40·40·2S(or Black) SF-30·30(or Black) SF-K·30·30 SF-35·35 SF-50·50·2S SF-60·60·2S(or Black) SF-40·40(or Black) SF-80·80(or Black/H) SF-K·40·40 SF-K·45·45 SF-90·90(or Black/H) SF-60·60·1S SF-80·80·1S
DSW		
DHS		SF-20·40(or Black) SF-20·60 SF-20·80 SF-40·60 SF-40·80·SS SF-30·60(or Black) ↓

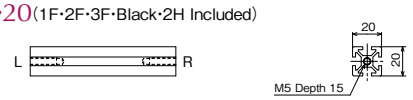
Processing No.	45°Slant Cut Shape	Intended Frame
DHW		↓ SF-30·60·2H SF-K·30·60 SF-30·90 SF-30·120 SF-60·90 SF-50·100·2S SF-60·120 SF-40·80(or Black) SF-40·160 SF-45·90(or Black) SF-K·40·80 SF-K·45·90 SF-80·160 SF-90·180 SF-45·180 Panel Guard T3(SFF-K34)※ Panel Guard T5(SFF-K54)※ SF-35·70※ ※Only DVS·DVW
DVS		
DVW		

Tapping on Frame's Cut Surface

* You can order in your drawing, too.
* Please inquire regarding the nonstandard depth.
* Only when YG Joint, S Double Joint and KF Joint will be drilled together with tapping, please specify L or R.

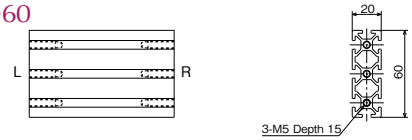
SF20 Series

SF-20·20(1F·2F·3F·Black·2H Included)

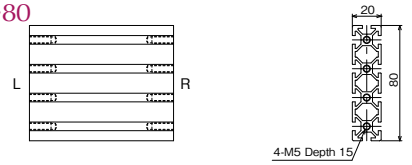


Item No	Length(㎜)	Tapping
SF-20·20	ℓ=800	TL or TR(In case of both sides TW)

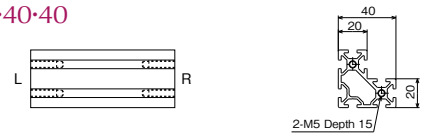
SF-20·60



SF-20·80



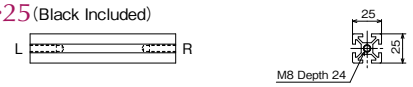
SF-20·40·40



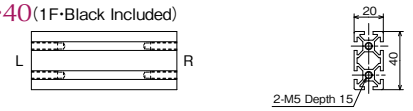
SF-20·20·R



SF-25·25(Black Included)

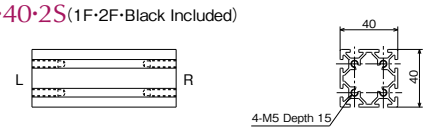


SF-20·40(1F·Black Included)

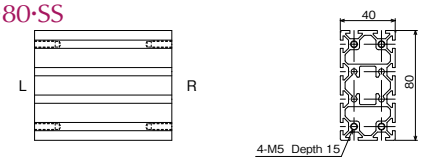


Item No.	Length(㎜)	Tapping
SF-20·40	ℓ=800	TL or TR(In case of both sides TW)

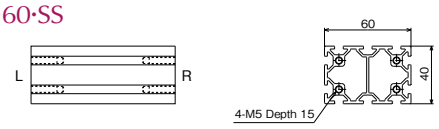
SF-40·40·2S(1F·2F·Black Included)



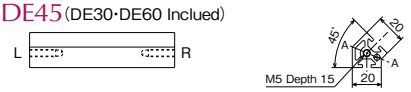
SF-40·80·SS



SF-40·60·SS

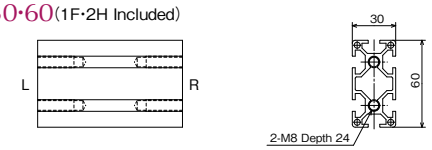


SF-20·DE45(DE30·DE60 Inclued)

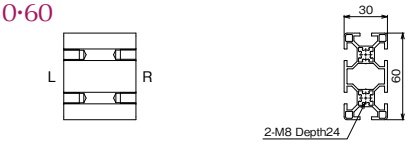


SF30 Series

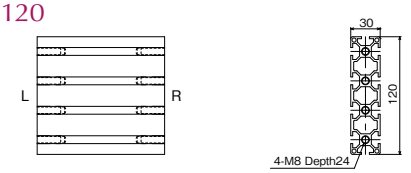
SF2-30·60(1F·2H Included)



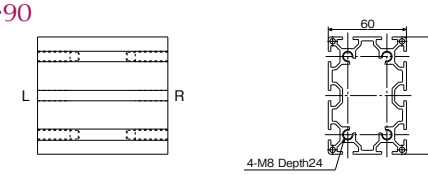
SF-K·30·60



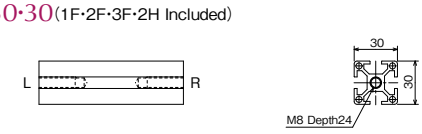
SF-30·120



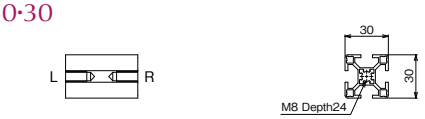
SF-60·90



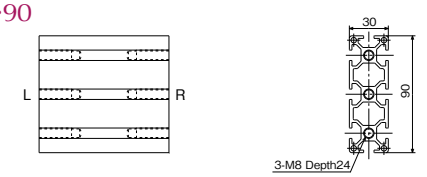
SF2-30·30(1F·2F·3F·2H Included)



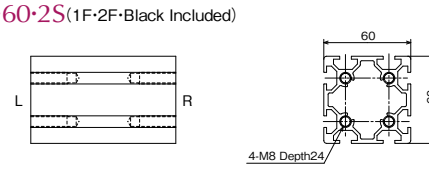
SF-K·30·30



SF-30·90



SF-60·60·2S(1F·2F·Black Included)

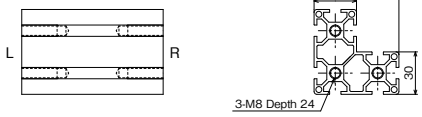


Technical Data Frame Processing

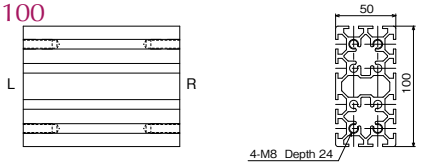
Tapping on Frame's Cut Surface

SF30 Series

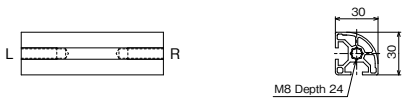
SF-30·60·60



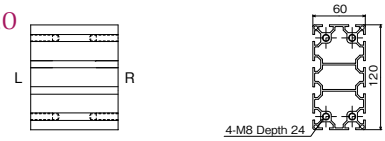
SF-50·100



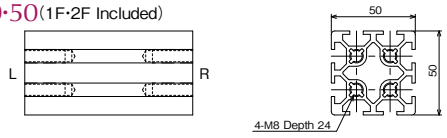
SF-30·30·R



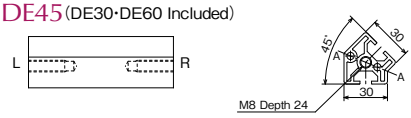
SF-60·120



SF-50·50(1F·2F Included)



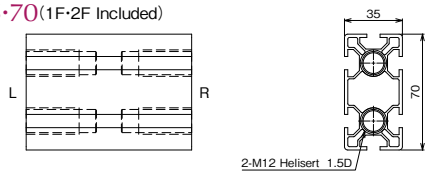
SF-30·DE45(DE30·DE60 Included)



SF-35·35(1F·2F·2H Included)

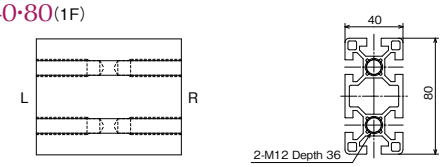


SF-35·70(1F·2F Included)

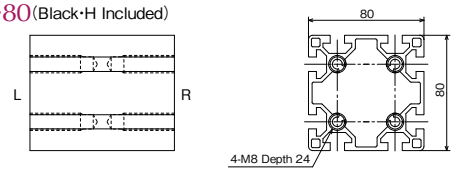


SF40 Series

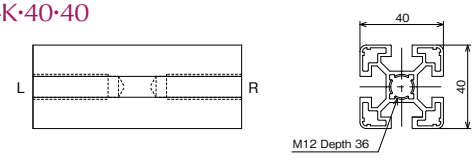
SF2-40·80(1F)



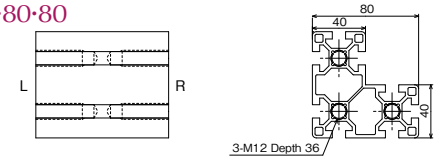
SF-80·80(Black·H Included)



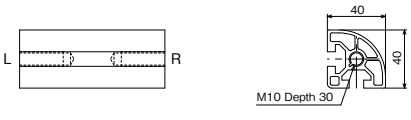
SF-K·40·40



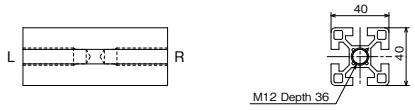
SF-40·80·80



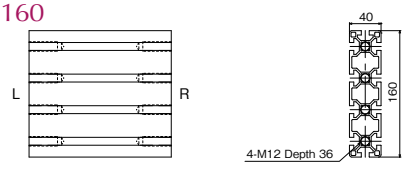
SF-40·40·R



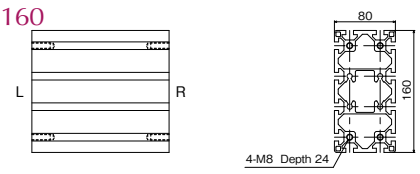
SF2-40·40(1F·2F·3F·2H Included)



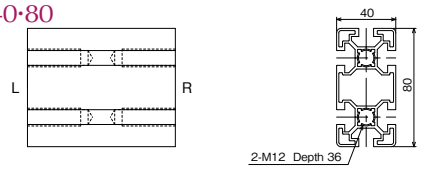
SF-40·160



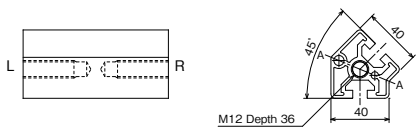
SF-80·160



SF-K·40·80

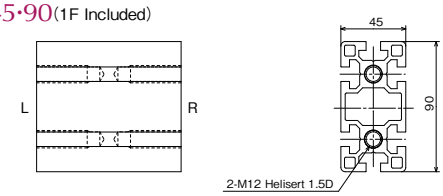


SF-40·DE45(DE30·DE60 Included)

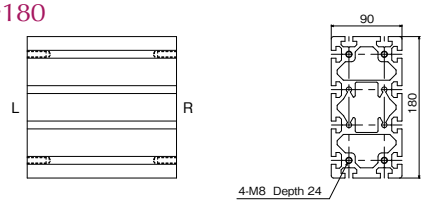


SF45 Series

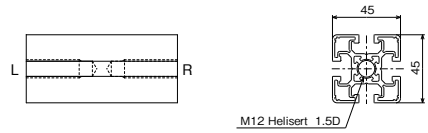
SF2-45·90 (1F Included)



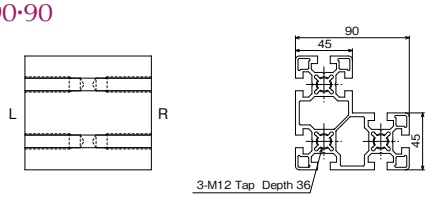
SF-90·180



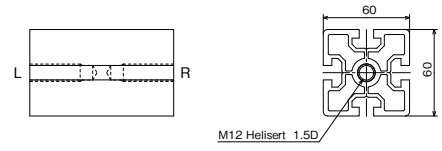
SF-K·45·45 (1F·2F Included)



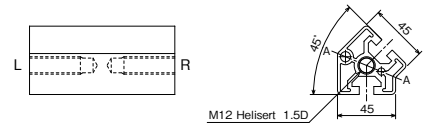
SF-45·90·90



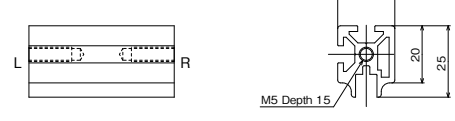
SF-60·60·1S



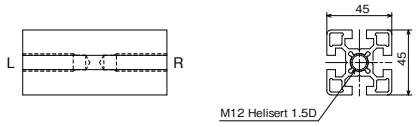
SF-45·DE45 (DE30·DE60 Included)



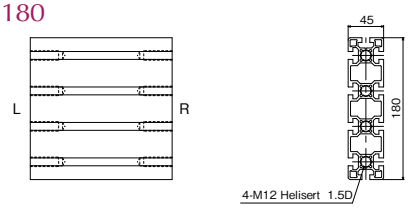
Panel Frame



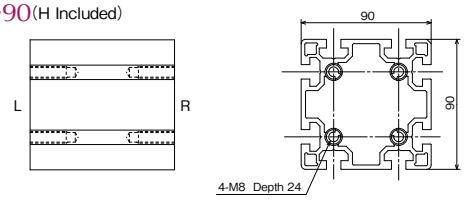
SF2-45·45 (1F·2F·3F·2H Included)



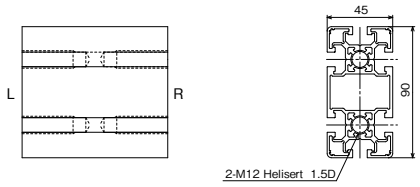
SF-45·180



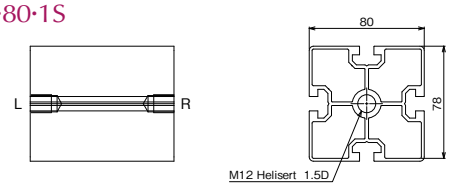
SF-90·90 (H Included)



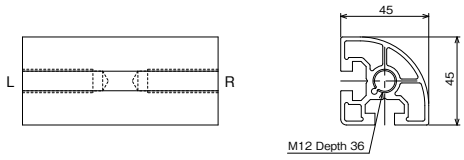
SF-K·45·90



SF-80·80·1S



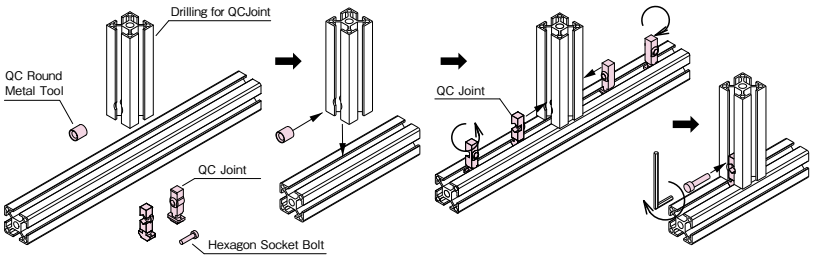
SF-45·45·R



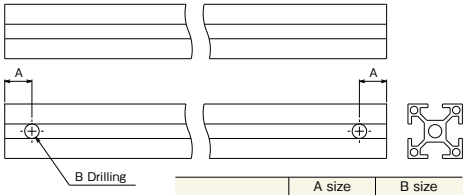
Technical Data *Drilling Symbol for QC Joint*

Drilling Symbol for QC Joint

< QC Joint Assembly Contents >



<Position and size of the hole to insert round metal for QC Joint>



	A size	B size
SF-20 series	9.8	7.1
SF-30 series	15	11.1
SF-40 series	20	13.1
SF-45 series	19.5	13.1
SF-K·45 series	20	13.1

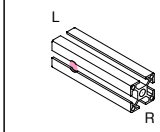
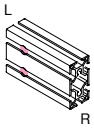
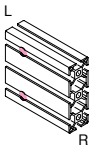
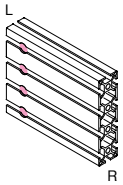
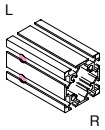
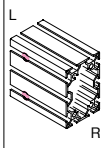
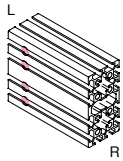
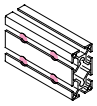
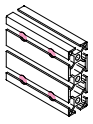
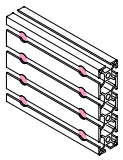
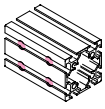
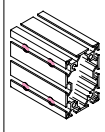
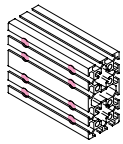
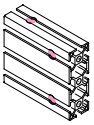
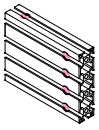
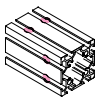
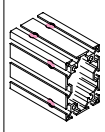
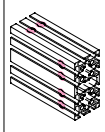
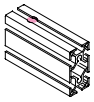
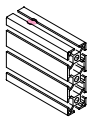
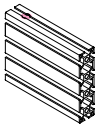
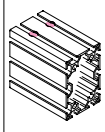
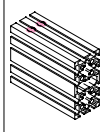
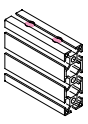
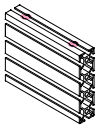
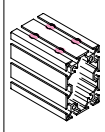
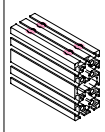
◆QC Joint…… Insert QC Joint to frame's groove (last-in is possible), and fit another frame with QC round metal installed to combine by tightening bolt. It's easily squared and hardly makes gap because 2 frames pull each other. Appearance is clear without outer joint part's overhang. Also, assembly process is shortened because there's no need to set Nuts to frame before.

- Please specify by QC Joint processing number when you use each QC Joint in P37,69,113.
- Please mind the direction because QC Joint cannot be inserted to the surface without groove.

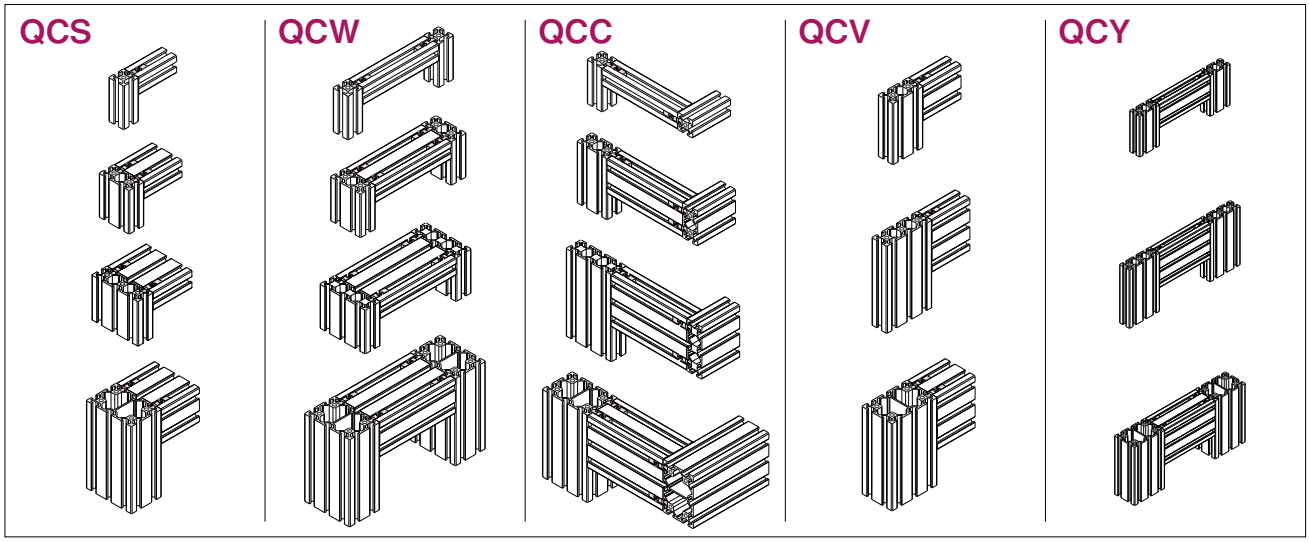
Example of order

Item No.	Length(mm)	Processing No.
SFF-324	ℓ=800	QCS

QC Joint Processing List

Groove Type	1 Row × 1 Row		1 Row × 2 Rows		1 Row × 3 Rows	1 Row × 4 Rows		2 Rows × 2 Rows		2 Rows × 3 Rows	2 Rows × 4 Rows	
Frame Name / Processing No.	SF-20·20 SF2-30·30 SF-K·30·30 SF2-40·40 SF-K·40·40 SF2-45·45 SF-K·45·45 SF-60·60·1S SF-80·80·1S	SF-20·20·1F SF-20·20·2H SF2-30·30·1F SF2-30·30·2H SF2-40·40·1F SF2-40·40·2H SF2-45·45·1F SF2-45·45·2H SF-K·45·45·1F	SF-20·40 SF2-30·60 SF-K·30·60 SF2-40·80 SF-K·40·80 SF2-45·90 SF-K·45·90	SF-20·40·1F SF2-30·60·1F SF2-30·60·2H SF2-40·80·1F SF2-45·90·1F	SF-20·60 SF-30·90	SF-30·120	SF-20·80 SF-40·160 SF-45·180	SF-40·40·2S SF-50·50·2S SF-60·60·2S SF-80·80 SF-80·80·H SF-90·90 SF-90·90·H	SF-40·40·2S·1F SF-50·50·2S·1F SF-60·60·2S·1F	SF-40·60·SS SF-60·90	SF-60·120 SF-50·100·2S	SF-40·80·2S SF-80·160 SF-90·180
QCS												
QCW												
QCC												
QCV												
QCY												

Reference Example of QC Joint

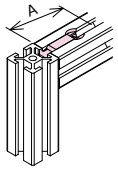


QC Joint Kit Table

Groove Type	Frame Name	QCS	QCW	QCC	QCV	QCY
1 Row × 1 Row	SF-20·20 SF-20·20·1F SF-20·20·2H	SS Kit×1	SS Kit×2	SS Kit×2		
	SF2-30·30 SF-K·30·30 SF2-30·30·1F SF2-30·30·2H	S Kit×1	S Kit×2	S Kit×2		
	SF2-40·40 SF-K·40·40 SF2-40·40·1F SF2-40·40·2H	L40 Kit×1	L40 Kit×2	L40 Kit×2		
	SF2-45·45 SF-K·45·45 SF2-45·45·1F SF2-45·45·2H SF-K·45·45·1F	L45 Kit×1	L45 Kit×2	L45 Kit×2		
	SF-60·60·1S	L60 Kit×1	L60 Kit×2	L60 Kit×2		
	SF-80·80·1S	L80 Kit×1	L80 Kit×2	L80 Kit×2		
1 Row × 2 Rows	SF-20·40 SF-20·40·1F	SS Kit×2	SS Kit×4	SS Kit×2/SS40 Kit×1	SS40 Kit×1	SS40 Kit×2
	SF2-30·60 SF-K·30·60 SF2-30·60·1F SF-30·60·2H	S Kit×2	S Kit×4	S Kit×2/S60 Kit×1	S60 Kit×1	S60 Kit×2
	SF2-40·80 SF-K·40·80 SF2-40·80·1F	L40 Kit×2	L40 Kit×4	L40 Kit×2/L80 Kit×1	L80 Kit×1	L80 Kit×2
	SF2-45·90 SF-K·45·90 SF2-45·90·1F	L45 Kit×2	L45 Kit×4	L45 Kit×2/L90 Kit×1	L90 Kit×1	L90 Kit×2
1 Row × 3 Rows	SF-20·60	SS Kit×2	SS Kit×4	SS Kit×2/SS60 Kit×1	SS60 Kit×1	SS60 Kit×2
	SF-30·90	S Kit×2	S Kit×4	S Kit×2/S90 Kit×1	S90 Kit×1	S90 Kit×2
1 Row × 4 Rows	SF-20·80	SS Kit×4	SS Kit×8			
	SF-30·120	S Kit×4	S Kit×8	S Kit×4/S120 Kit×1	S120 Kit×1	S120 Kit×2
	SF-40·160	L40 Kit×4	L40 Kit×8			
	SF-45·180	L45 Kit×4	L45 Kit×8			
2 Rows × 2 Rows	SF-40·40·2S SF-40·40·2S·1F	SS40 Kit×2	SS40 Kit×4	SS40 Kit×4		
	SF-50·50·2S SF-50·50·2S·1F	S50 Kit×2	S50 Kit×4	S50 Kit×4		
	SF-60·60·2S SF-60·60·2S·1F	S60 Kit×2	S60 Kit×4	S60 Kit×4		
	SF-80·80 SF-80·80(H) SF-90·90(H)	L80 Kit×2 L90 Kit×2	L80 Kit×4 L90 Kit×4	L80 Kit×4 L90 Kit×4		
2 Rows × 3 Rows	SF-40·60·SS	SS40 Kit×2	SS40 Kit×4	SS40 Kit×2/SS60 Kit×2	SS60 Kit×2	SS60 Kit×4
	SF-60·90	S60 Kit×2	S60 Kit×4	S60 Kit×2/S90 Kit×2	S90 Kit×2	S90 Kit×4
2 Rows × 4 Rows	SF-40·80·2S	SS40 Kit×4	SS40 Kit×8			
	SF-50·100·2S	S50 Kit×4	S50 Kit×8	S50 Kit×4/S100 Kit×2	S100 Kit×2	S100 Kit×4
	SF-60·120	S60 Kit×4	S60 Kit×8	S60 Kit×4/S120 Kit×2	S120 Kit×2	S120 Kit×4
	SF-80·160 SF-90·180	L80 Kit×4 L90 Kit×4	L80 Kit×8 L90 Kit×8			

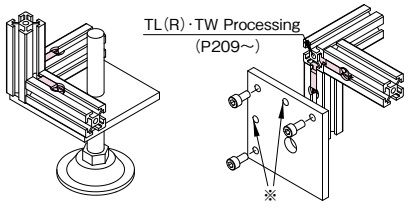
Precautions for using QC Joint

* There is a part which cannot use on frame's groove after QC Joint processing.



Series	A Size(mm)
SF20 Series	19.5
SF30 Series	27
SF40·45 Series	35

* In case of using plate like Level Adjuster Kit, etc together

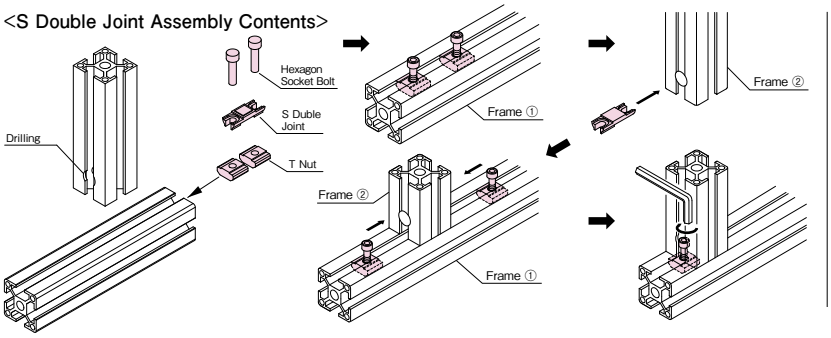


Please do the Tapping on vertical frame, and fix the plate at 3 points, because QC Joint and the holes with * mark overlap.

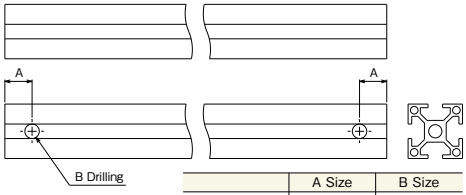
Technical Data *Drilling Symbol for S Double Joint*

Drilling Symbol for S Double Joint

<S Double Joint Assembly Contents>



<Position and Size of the Hole to insert Round Metal for S Double Joint>



	A Size	B Size
SF30 series	15	11.1
SF40 series	20	13.1
SF45 series	20	15.1
SF60·60·1S	20	15.1
SF80·80/1S/H	20	13.1

◆S Double Joint…… Drill a hole to insert S Double Joint metal on frame ② and insert nuts to frame ①, then fix from the both sides of metal for joint by bolt. It's easily squared and hardly makes gap because 2 frames pull each other. Appearance is clear without outer joint part's overhang.

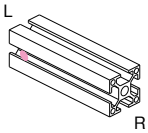
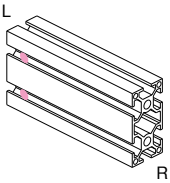
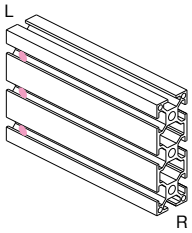
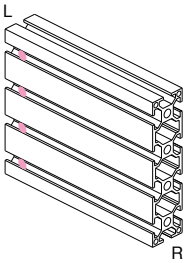
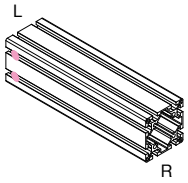
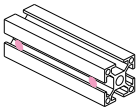
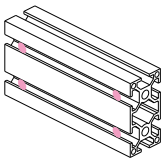
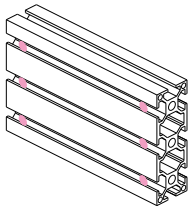
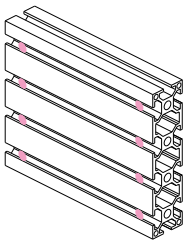
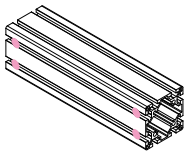
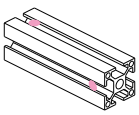
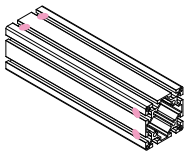
Please specify S Double Joint Drilling No, below to the Frame when using S Double Joints in P70·114.

Example of order

Item No.	Length(mm)	Processing No.
SFF-324	ℓ=800	WJS

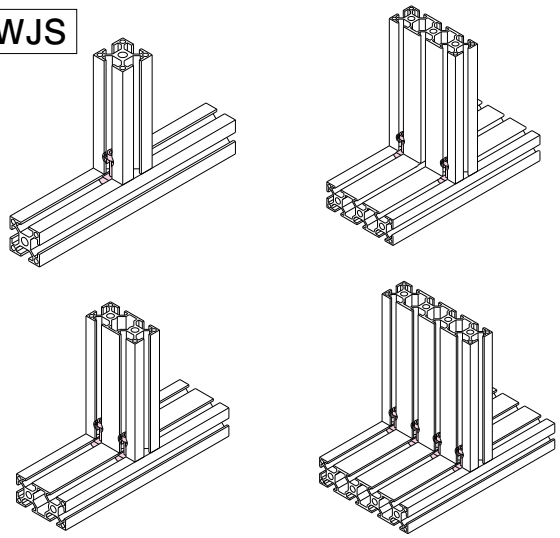
S Double Joint Processing List

Groove Type		1 Row × 1 Row Type (Include 1F·2H Types)	1 Row × 2 Rows Type	1 Row × 3 Rows Type	1 Row × 4 Rows Type	2 Rows × 2 Rows Type
SF30 Series	S Double Joint Kit 30	SF2-30·30 SF2-30·30·1F SF2-30·30·2H SF-K·30·30	SF2-30·60 SF-K·30·60	SF-30·90	SF-30·120	
SF40 Series	S Double Joint Kit 40	SF2-40·40 SF-K·40·40 SF2-40·40·1F SF2-40·40·2H	SF2-40·80 SF-K·40·80		SF-40·160	
SF45 Series	S Double Joint Kit 45	SF2-45·45 SF-K·45·45 SF2-45·45·1F SF-K·45·45·1F SF2-45·45·2H	SF2-45·90 SF-K·45·90		SF-45·180	
	S Double Joint Kit 60	SF-60·60·1S				
	S Double Joint Kit 80	SF-80·80·1S				SF-80·80(H)

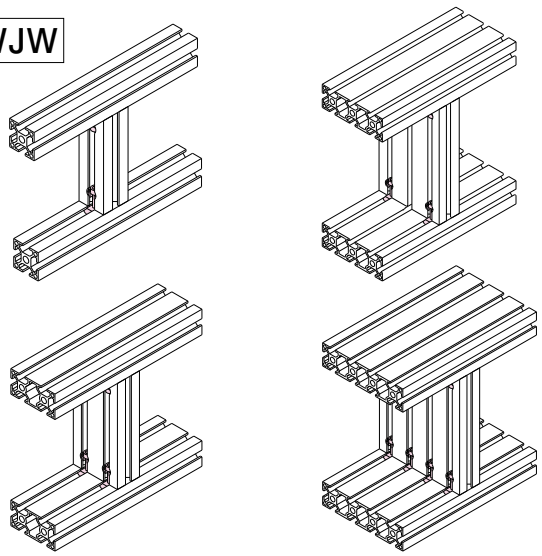
WJS						
WJW						
WJC		 Exclude 1F·2H Types				

Reference Example of S Double Joint

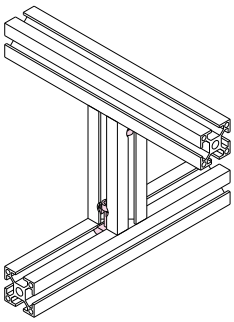
WJS



WJW



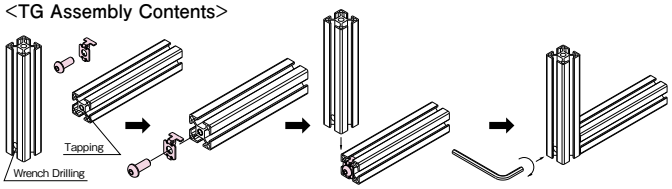
WJC



Technical Data *Drilling Symbol for TG Joint and Tapping Bolt*

Drilling Symbol for TG Joint and Tapping Bolt

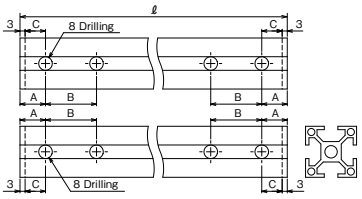
<TG Assembly Contents>



<Position and Size of the Hole to insert Round Metal for TG Joint and Tapping Bolt>

	A Size	B Size	C Size
※1 SF20 Series	10	20	A-3(7)
SF30 Series	15	30	A-3(12)
SF40 Series	20	40	A-3(17)
※2 SF45 Series	22.5	45	A-3(19.5)
※2 SF60·60·1S	30	—	—

※1 Only Tapping Bolt ※2 Only TG Joint
Drilling for SF20 : 6 Drilling



◆TG Joint…… After Tap processing on the end face of one frame, fix metal for TG Joint temporary to tighten from wrench hole of another frame to combine. It's easily squared and hardly makes gap because 2 frames pull each other. Appearance is clear without outer joint part's overhang.

◆Tapping Bolt… Joint as same as TG is possible without tap-processing or metals for TG Joint.

Please specify TG processing number below for frame to be drilled wrench hole, when you use any TG Joint or Tapping Bolt.

Example of order: Item No. SFF-324 | Length(mm) ℓ=800 | ProcessingNo. TGS

◆<Optional Specification for Frame Cap> Within Outer Size

If you want to make Frame Cap within outer size, please use options.

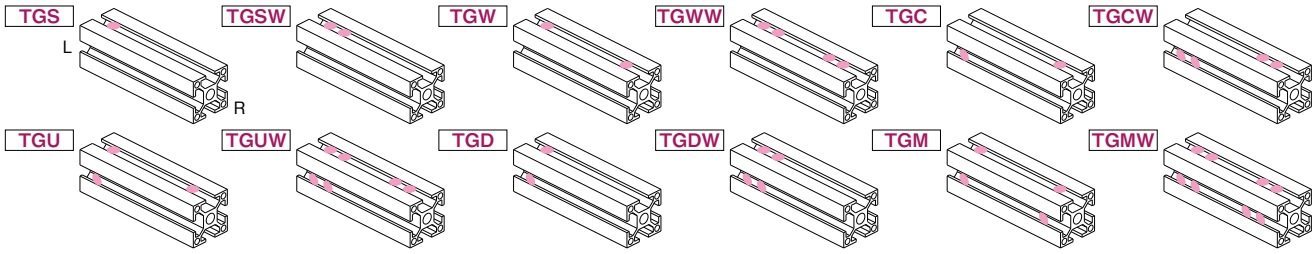
Example of order: Item No. SFF-324 | Length(mm) ℓ=800 | Processing No. TGS

- 3 (A Size−3:Both end surfaces)
- 3R (A Size−3:Only right side)
- 3L (A Size−3:Only left side)

TG Joint・Tapping Bolt Processing List ※1 Only Tapping Bolt ※2 Only TG Joint

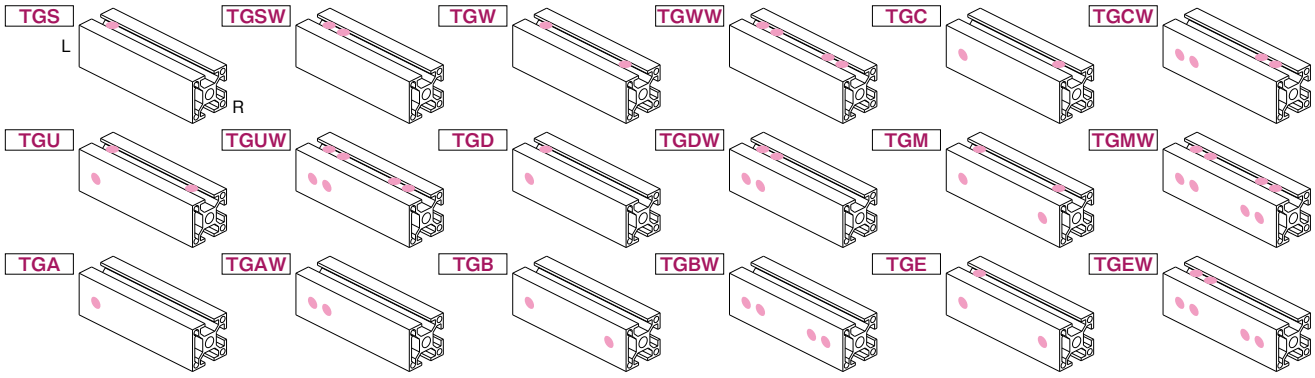
Groove Type 1Row×1Row

◆Object Frame… SF-20·20※1 | SF2-30·30／SF-K·30·30 | SF2-40·40／SF-K·40·40 | SF2-45·45※2 | SF-60·60·1S※2



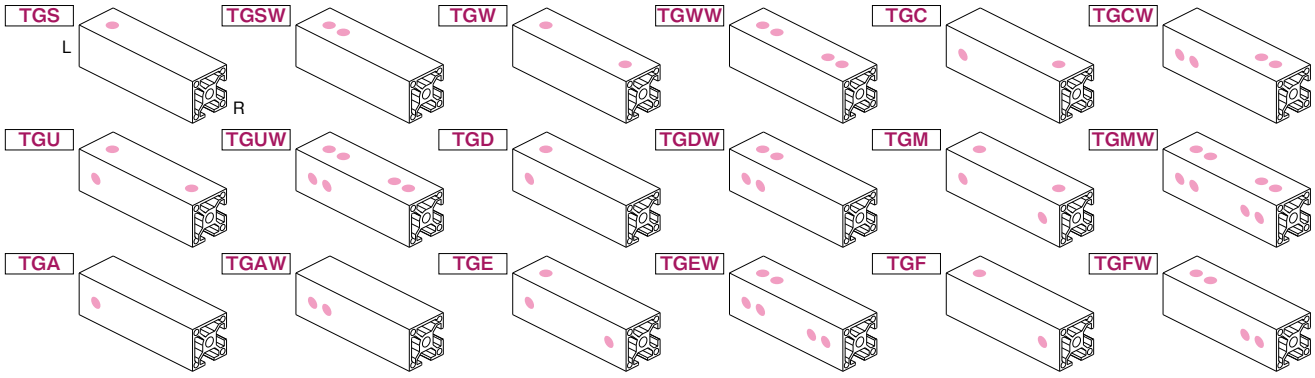
Groove Type 1Row×1Row〈1 Flat Surface〉

◆Object Frame… SF-20·20·1F※1 | SF2-30·30·1F | SF2-40·40·1F／SF-K·40·40·1F | SF2-45·45·1F※2



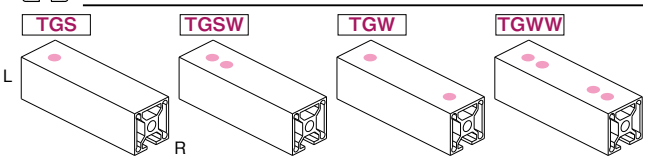
Groove Type 1Row×1Row〈2 Flat Surfaces〉

◆Object Frame… SF-20·20·2F※1 | SF2-30·30·2F | SF2-40·40·2F／SF-K·40·40·2F | SF2-45·45·2F※2



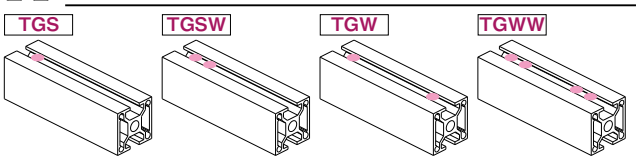
Groove Type 1Row×1Row〈3 Flat Surfaces〉

◆Object Frame… SF-20·20·3F※1 | SF2-30·30·3F | SF2-40·40·3F | SF2-45·45·3F※2



Groove Type 1Row×1Row〈2H〉

◆Object Frame… SF-20·20·2H※1 | SF2-30·30·2H | SF2-40·40·2H | SF2-45·45·2H※2



Groove Type 2Rows×2Rows

◆Object Frame… SF-40·40·2S※1 SF-60·60·2S

TGS L R TGSW TGW TGWW TGC TGCW
TGU TGUW TGD TGDW TGM TGMW

Groove Type 2Rows×2Rows〈1 Flat Surface〉

◆Object Frame… SF-40·40·2S·1F※1 SF-60·60·2S·1F

TGS L R TGSW TGW TGWW TGC TGCW
TGU TGUW TGD TGDW TGM TGMW
TGA TGAW TGB TGBW TGE TGEW

Groove Type 2Rows×2Rows〈2 Flat Surfaces〉

◆Object Frame… SF-40·40·2F※1 SF-60·60·2S·2F

TGS L R TGSW TGW TGWW TGC TGCW
TGU TGUW TGD TGDW TGM TGMW
TGA TGAW TGE TGEW TGF TGFW

Groove Type 1Row×2Rows

◆Object Frame… SF-20·40※1 SF2-30·60／SF-K·30·60 SF2-40·80／SF-K·40·80 SF2-45·90

TGS L R TGSW (Only SF-30·60) TGW TGWW (Only SF-30·60) TGC TGCW (Only SF-30·60)
TGU TGUW (Only SF-30·60) TGD TGDW (Only SF-30·60) TGM TGMW (Only SF-30·60)
TGV TGVW TGY TGYW TGG TGGW

Groove Type 1Row×2Rows〈1 Flat Surface〉

◆Object Frame… SF-20·40·1F※1 SF2-30·60·1F SF2-40·80·1F SF2-45·90·1F

TGS L R TGSW (Only SF-30·60) TGW TGWW (Only SF-30·60) TGC TGCW (Only SF-30·60)
TGU TGUW (Only SF-30·60) TGD TGDW (Only SF-30·60) TGM TGMW (Only SF-30·60)
TGV TGVW TGY TGYW TGG TGGW (Only SF-30·60)

Groove Type 1Row×3Rows

◆Object Frame… SF-20·60※1 SF-30·90

TGS L R TGSW TGW TGWW

Groove Type 1Row×4Rows

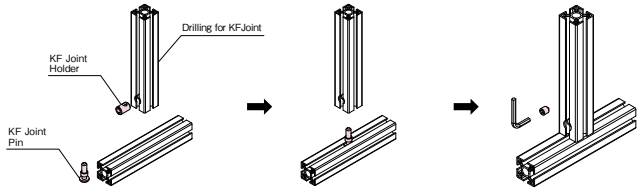
◆Object Frame… SF-20·80※1 SF-30·120 SF-40·160 SF-45·180

TGS L R TGSW TGW TGWW

Technical Data *Drilling Symbol for KF Joint*

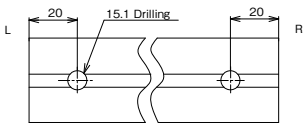
Drilling Symbol for KF Joint

<KF Joint Assembly Contents>

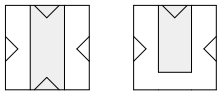


<Drawing of Position, Size and Depth of the Hole for KF Joint>

◆Object frame…SF-35·35／1F／2F／2H·SF-35·70／1F／2F



Frame with a flat surface
Frame with groove on all surfaces



Hole doesn't penetrate through the flat surface as drawing above.

◆KF Joint…… After KF Joint processing on one of the frame, insert KF Joint Holder. Insert KF Joint Pin to another frame and inset to KF Joint Holder, and tighten by set screw to combine. Tightening is easier from one side as drawing above. Frame with a flat surface doesn't disturb the appearance to joint.

Please specify KF Processing No. below to the Frame to drill a hole for KF Joint in case using KF Joint in P70.

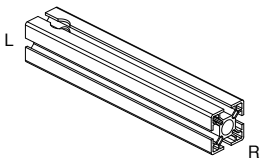
Item No.	Length(mm)	Processing No.
SFF-3A4	ℓ=800	KFS

Joint Processing List

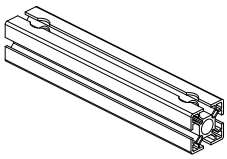
Groove Type 1Row×1Row

◆Object Frame… SF-35·35

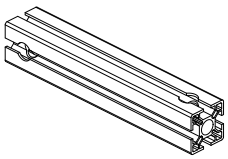
KFS



KFW



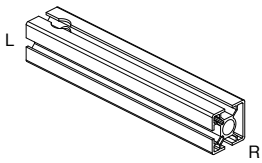
KFC



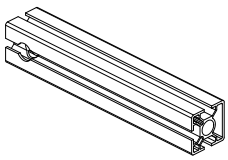
Groove Type 1Row×1Row〈1 Flat Surface〉

◆Object Frame… SF-35·35·1F

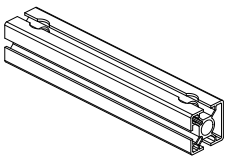
KFS



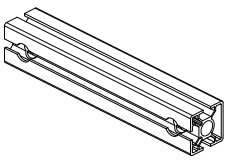
KFA



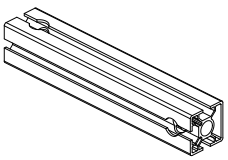
KFW



KFD



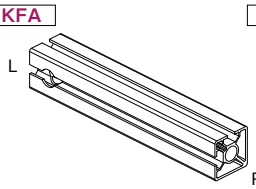
KFE



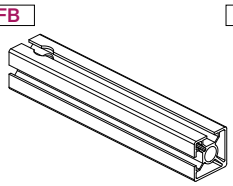
Groove Type 1Row×1Row〈2 Flat Surfaces〉

◆Object Frame… SF-35·35·2F

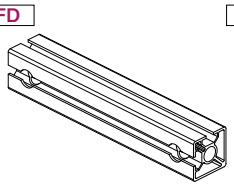
KFA



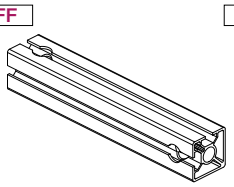
KFB



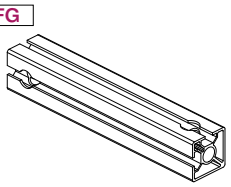
KFD



KFF



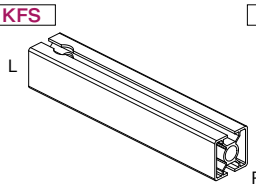
KFG



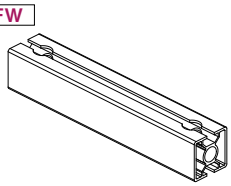
Groove Type 1Row×1Row〈Opposite Faces Flat〉

◆Object Frame… SF-35·35·2H

KFS



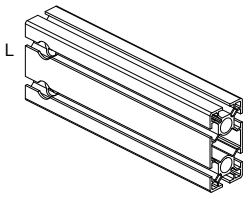
KFW



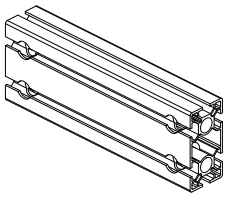
Groove Type 1Row×2Rows

◆Object Frame··· SF-35·70

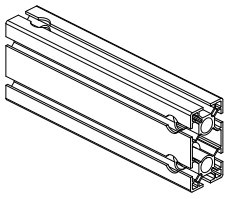
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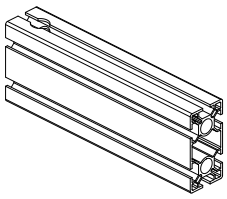
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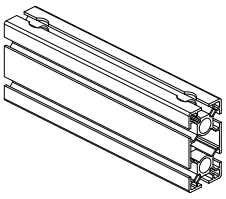
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KFV



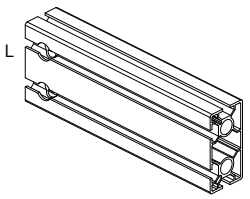
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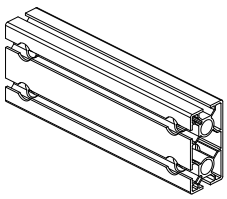
Groove Type 1Row×2Rows〈1 Flat Surface〉

◆Object Frame··· SF-35·70·1F

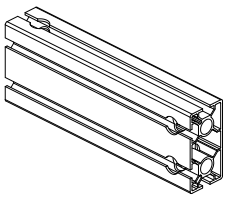
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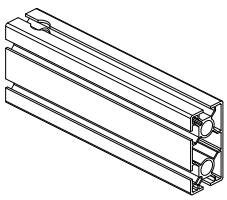
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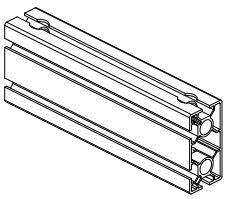
KFE



KFV



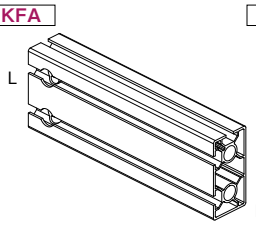
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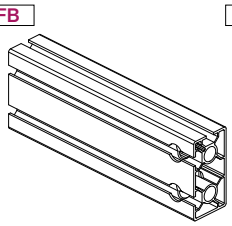
Groove Type 1Row×2Rows〈2 Flat Surfaces〉

◆Object Frame··· SF-35·70·2F

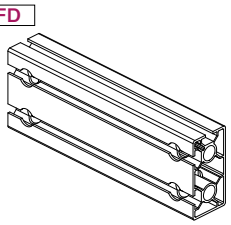
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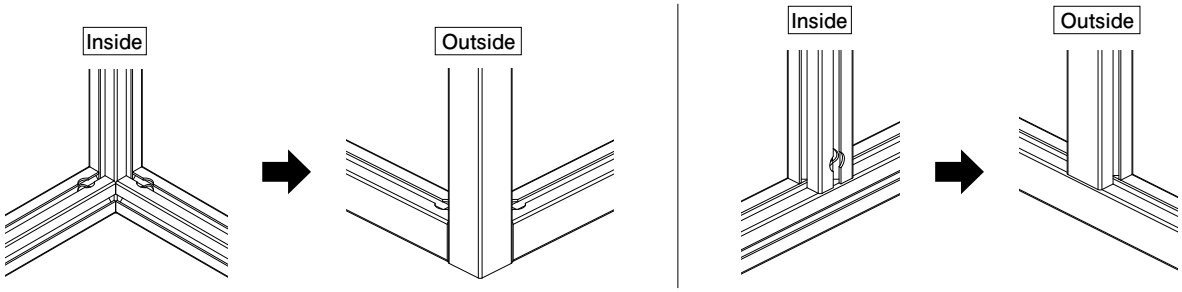
KFB



KFD



■Simple looking by using KF Joint because drilled hole cannot be seen externally.



Memo

Memo

Memo

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■Group Company

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