

SUS BKK

SF *Standard Frame Series*

AZ *Safety Fence*



SUS

SF Standard Frame Series Catalogue



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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.

System Upgrade Solution BKK Co., Ltd.

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System Upgrade Solution BKK Co., Ltd.

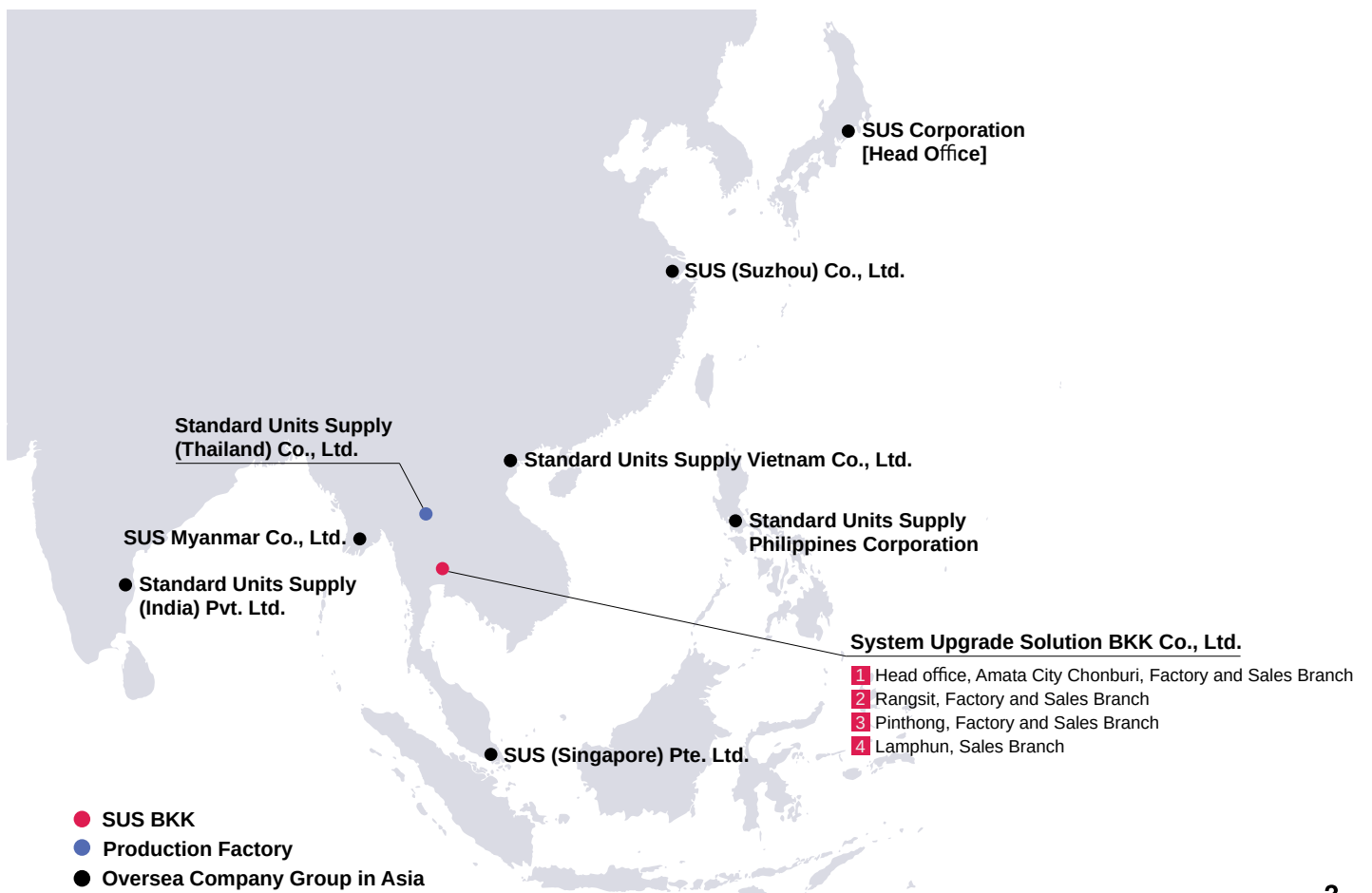
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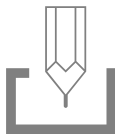
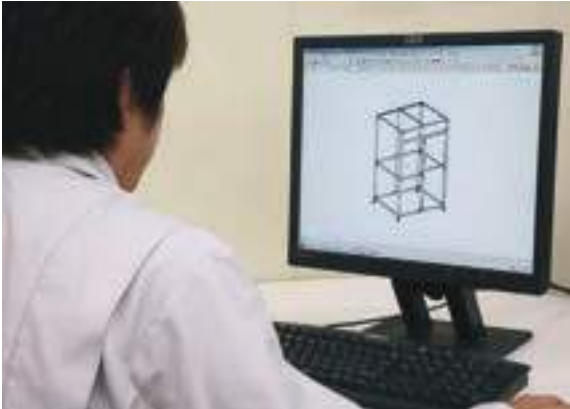
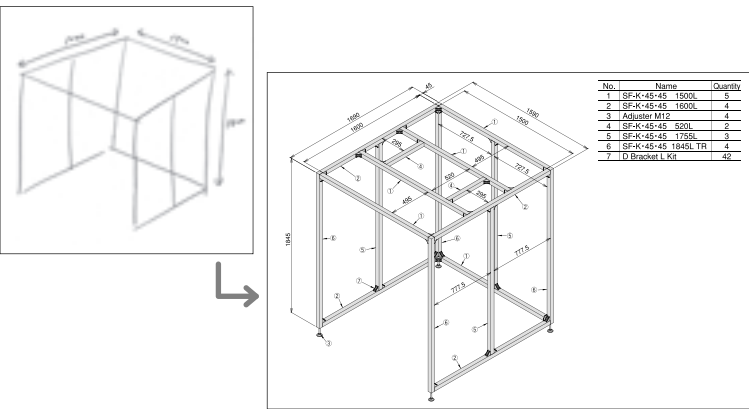


CAD Drawing Service

Asia

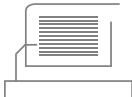
This sign shows the product is designed for Asia region only

SUS will subsidize 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.



Please draw freehand shape and dimensions as you desire.

FAX
Customer



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

FAX
SUS



Customer

FAX
Order

Delivery

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

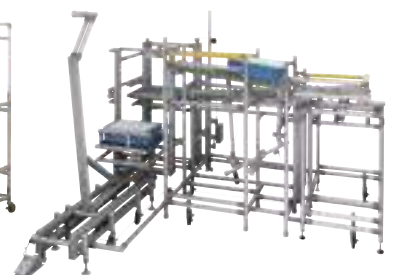


Assembly Service

Assembly Service is available.

We will also deliver as completed structure to customer factory site.

As for detail, Please contact local sales offices.



Frame



SF-20-20 **p20**



SF-20-40 **p20**



SF-20-60 **p21**



SF-20-80 **p21**



SF-40-40-2S **p21**



SF-40-60-SS **p21**



SF-40-80-SS **p21**



SF-25-25 **p22**



SF-20-20-1F **p22**



SF-20-20-2F **p22**



SF-20-20-3F **p23**



SF-20-20-2H **p23**



SF-20-20-R **p23**



SF-20-40-1F **p23**



SF-20-40-40 **p24**



SF-20-DE45 **p24**



SF-20-DE30 **p24**



SF-20-DE60 **p25**

Nut(for 20 Series)



T Nut SS **p26**
Anti-Skid Cap SS



ST Nut Stopper SS **p26**



Easy Nut SS **p26**



After Nut SS **p27**
After Nut Support SS



Lock Nut SS **p27**



S Free Nut SS **p27**



Joint Bar SS120 **p27**

Bracket(for 20 Series)



D Bracket SS **p28**
Electroless nickel



D Bracket Spacer SS **p28**



D Bracket Flat SS **p28**



D Bracket Cross SS **p29**

				
D Bracket 2040 p29	Hard Bracket SS p30	Hard Bracket SSG p30	Hard Bracket SSW2020 p30	
				
Hard Bracket with Stopper SS p31	Hard Bracket with Stopper SSG p31	Hard Bracket SS2040 p32	Hard Bracket SSG2040 p32	Hard Bracket SSW2040 p32
				
Hard Bracket SS2060 p33	Hard Bracket SSG2060 p33	Hard Bracket SSW2060 p33	Angle Bracket SS p34	Angle Bracket Hard SS p34
				
Angle Bracket SS2040 p34	Angle Bracket SS2060 p34	Offset Angle SS2040 p35	QC Joint SS p35	Blind Bracket SS p36
				
Corner Block SS Kit p36	R Bracket SS Kit p36	Tapping Bolt SS p37	Torque Bit T25 p37	Torque Driver T25 p37
				
Plate Bracket p38				
				
Hard Bracket SS-DE135 p39	Hard Bracket SS-DE45 p39	Hard Bracket SS2040-DE135 p39	Hard Bracket SS2040-DE45 p39	Truss Joint SS Truss Cap SS p39
				
				Turn Bracket 20 p40

Parts (for 20 Series)

				
Adjuster Kit p41	Foot Base p42	Frame Cap p43	Hard Bracket Cap p43	Slot Cap SS p44
				
Slot Seal SS p44	Cover Holder SS Cover Support SS p45	Cable Clamp SS Slot Hook SS p46	Slot Roller SS p46	

FrameSF2-30-30 **p48**SF2-30-60 **p48**SF-K-30-30 **p49**SF-K-30-60 **p49**SF-30-90 **p49**SF-30-120 **p49**SF-60-60-2S **p50**SF-60-90 **p50**SF-60-120 **p50**SF2-30-30-1F **p51**SF2-30-30-2F **p51**SF2-30-30-3F **p51**SF2-30-30-2H **p51**SF2-30-60-1F **p52**SF2-30-60-2H **p52**SF-30-60-60 **p52**SF-30-30-R **p52**SF-30-DE45 **p53**SF-30-DE30 **p53**SF-30-DE60 **p54**SF-50-50-2S **p54**SF-50-100-2S **p54**SF-35-35 **p55**SF-35-70 **p55****Nut**(for 30 Series)T Nut S **p56**
Anti Skid Cap SST Nut Stopper S **p56**Easy Nut S **p56**After Nut S **p57**
After Nut Support SLock Nut S **p57**S Free Nut S **p57**Free Nut with Headless Bolt S **p58**
Free Stud SDouble Round Nut **p58**
S30Double Joint S30 **p58**Joint Bar S140 **p58**Loctite Locknut **p59**

Bracket(for 30 Series)



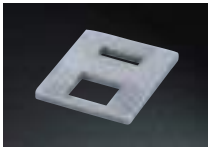
Adjuster Bracket **p59**
M12 S Kit



D Bracket S



Electroless Nickel **p60**



D Bracket Spacer S **p60**



D Bracket Flat S **p60**



D Bracket Cross S **p61**



D Bracket 3060 **p61**



D Bracket S3060 **p61**



D Bracket SW **p62**



Hard Bracket S **p62**



Hard Bracket SG **p62**



Hard Bracket **p63**
SW3030



Hard Bracket **p63**
with Stopper S



Hard Bracket **p63**
with Stopper SG



Hard Bracket S3060 **p64**



Hard Bracket SG3060 **p64**



Hard Bracket **p64**
SW3060



Hard Bracket **p65**
S3090



Hard Bracket **p65**
SG3090



Hard Bracket **p65**
S50



Hard Bracket **p65**
SG50



Hard Bracket **p65**
SW3090



Angle Bracket S **p66**



Angle Bracket **p66**
Hard S



Angle Bracket S3060 **p66**



Angle Bracket **p67**
S50



Angle Bracket **p67**
S3090



Offset Bracket **p67**
S3060



Friction Sheet M6 **p67**
with Case



QC Joint S **p68**



TG Joint Kit 30 **p69**
Wrench Hole Cap



Double Joint Kit S30 **p69**



Blind Bracket S **p70**



Block Bracket S Kit **p70**



Corner Block S Kit **p70**



R Bracket S Kit **p70**



Tapping Bolt S **p71**



Plate Bracket S **p72**



L Bracket S(Stainless) **p73**



Hard Bracket
S-DE135



Hard Bracket
S-DE45 **p73**



Hard Bracket
S3060-DE135



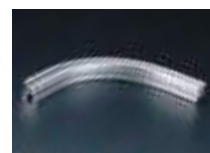
Hard Bracket
S3060-DE45 **p73**



Truss Joint S **p74**



Turn Bracket 30A
Turn Bracket 30B **p74**



Bend Bracket S **p75**

Parts (for 30 Series)



Adjuster Kit **p76**



Foot Base **p77**



Anchor Bracket **p78**



Anchor Plate Bracket **p78**
60602S Kit



Caster Plate S **p78**



Frame Cap **p79**



Frame Cap
Lock Type **p80**



D Bracket Cap S
Hard Bracket Cap **p80**



Slot Cap S **p80**



Slot Seal S **p80**



Cover Holder S
Cover Support S **p81**



Cable Clamp S **p81**



Slot Hook S **p81**

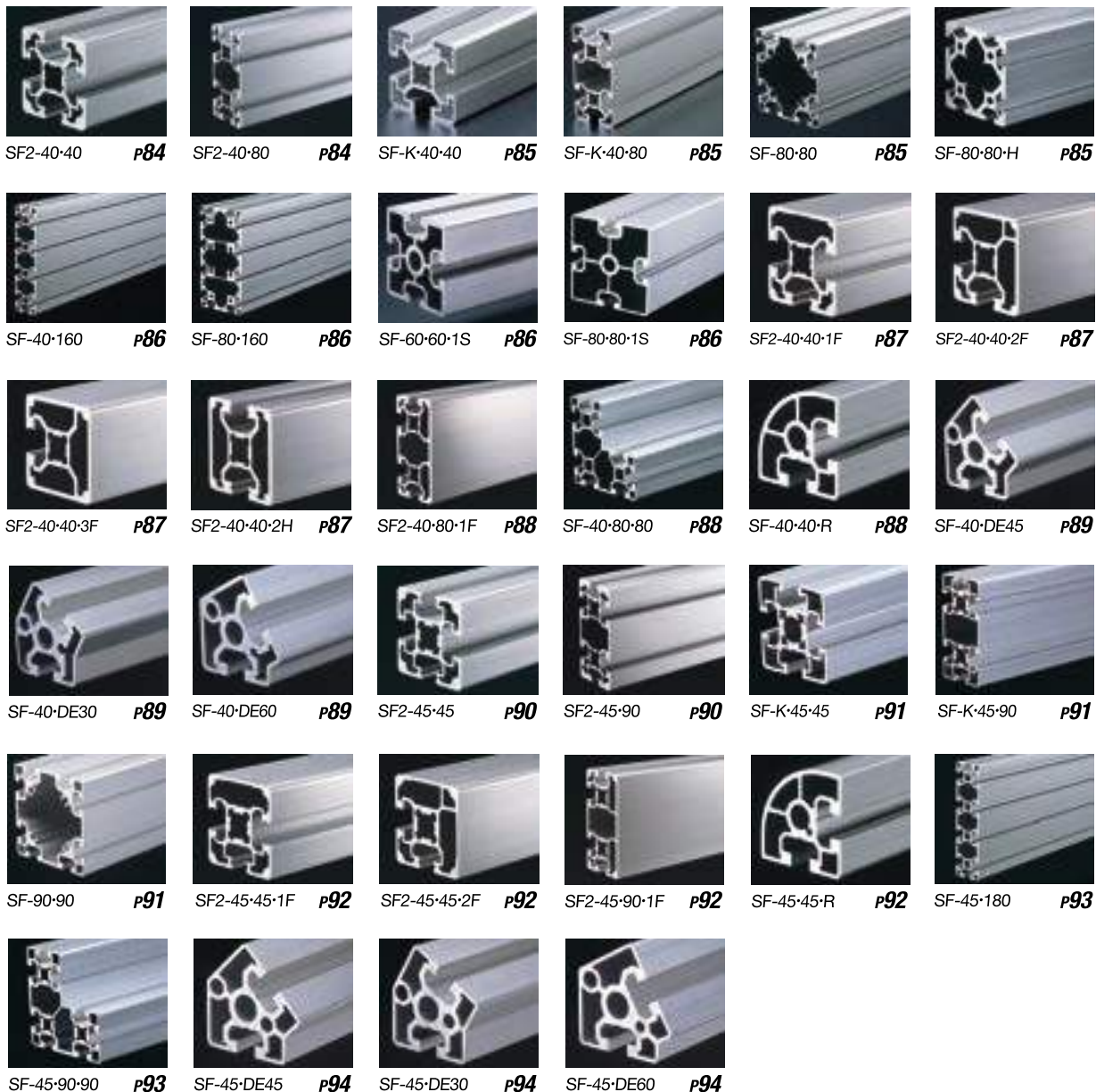


Slider S **p82**



Slot Roller S **p82**

Frame



Nut(for 40·45 Series)



Bracket(for 40·45 Series)

D Bracket L Electroless nickel **p99** D Bracket Spacer L **p99** D Bracket Flat L **p99** D Bracket Closs L **p100** D Bracket 4080/4590 Electroless nickel **p100**



D Bracket LW **p100** D Bracket LWHG **p101** Hard Bracket L **p101** Hard Bracket LG **p101** Hard Bracket LW **p102** Hard Bracket with Stopper L **p102**



Hard Bracket with Stopper LG **p102** Hard Bracket L4080 **p103** Hard Bracket G80 **p103** Hard Bracket LW4080 **p104** Hard Bracket GW80 **p104**



Hard Bracket L4590 **p105** Hard Bracket G90 **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** Offset Bracket L4080 **p109**



Offset Bracket L4590 **p109** L Bracket L **p109** Hard Bracket L·DE135/45 **p110** Hard Bracket L4080·DE135/45 **p110**



Hard Bracket L4590·DE135/45 **p110** Truss Joint L40/45 **p111** Turn Bracket **p111~112** Friction Sheet M8 with Case **p112** Bend Bracket L40 **p113**



Caster Plate L **p113** Adjuster Bracket M12 L Kit **p113** QC Joint L **p114** TG Joint Kit Wrench Hole Cap **p115** Double Joint Kit L **p115** Blind Bracket L **p116**



R Bracket L40 Kit **p116** R Bracket L45 Kit **p116** Tapping Bolt L40 **p116** Plate Bracket L **p117** S Plate Bracket **p118**

Parts (for 40•45 Series)



Adjuster Kit **p119**



Foot Base **p120**



Anchor Bracket **p121**



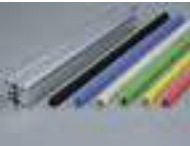
Frame Cap **p122**



Frame Cap Lock Type N4040/4545 **p123**



D Bracket Cap L Hard Bracket Cap **p123**



Slot Cap L **p124**



Slot Seal L **p124**



Cable Clamp L **p125**



Slot Hook L **p125**



Cover Holder LCap Cover Support L6 **p125**



Slider L **p126**



Slot Roller L40/L45 **p126**

SF

Aluminum Component

Complex Parts



Flat Bar **p128**



Angle **p129**



Channel **p130**



Adjuster A **p130**



Adjuster B **p131**



Small Diameter Adjuster M12 **p131**



Adjuster with hole for floor fixing **p131**



Foot M8/M12 **p131**



Caspad **p132**



Caster Screw Fitting Type **p133**



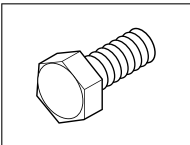
Free/Fixed Caster **p134**



Cable Holder **p135**



Cable Ring **p136**



Bolt **p137**

Door Panel



Flat 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



Ball Catch **p154~155**



Panel Clamp **p156~157**



Seal Cover **p156~157**



Panel Frame SS **p158**



Panel Guard **p160**



Panel Guard T3 **p160**



Sliding Door Rail **p162~163**
(Resin)



Sliding Door Rail **p162~163**
2 Rows-3 Rows/Aluminum



Sliding Door Frame **p164**
Panel Joint Kit



Rail Guide Kit **p164**
Sliding Door Wheel



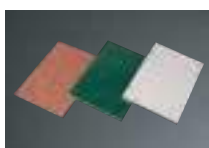
Folding Door Slider **p165**



Magnet Catch for Folding Door **p166**



Magnet Catch with Limit Switch **p166**
for Folding Door

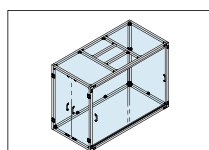


Wooden Board **p168**



Resin Panel **p168**

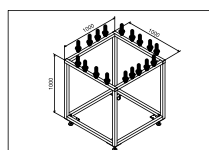
Technical Data



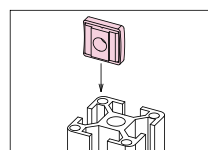
Standard Unit Type- **p171~175**
Example of Free unit



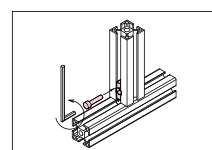
DATA



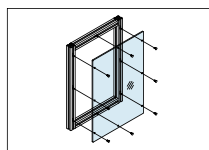
Aluminum Material Data **p176~**



Indication of Allowable Load **p178~**



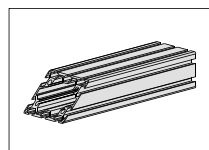
How to use Nut **p187**



How to joint Bracket **p188**



How to install **p194~195**
Resin Panel



Aluminum Frame Q & A **p196**



Frame Processing Chart **p198**



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

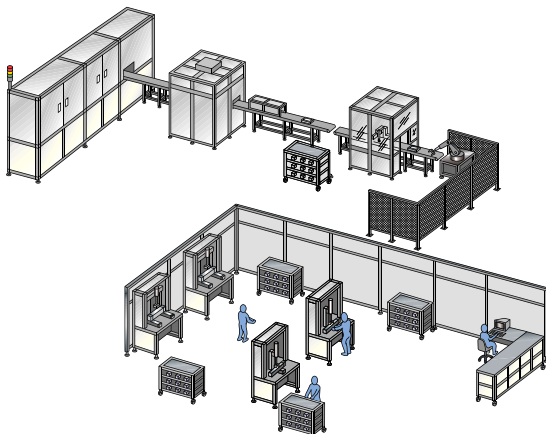
Degree of freedom to design is increased because frame is cut by 0.1mm unit from 50mm to 4000mm (some of them can be cut to 6000mm as special order). Also, parts standardization and self-manufacture enabled quick delivery.

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 9 μ m thickness) and it will maintain the glaze for a long time.



Applications



Auto Loader



Screw-Tightening Machine



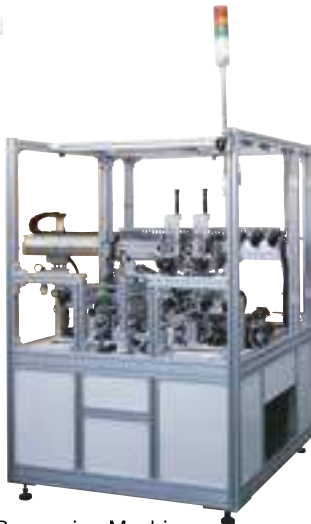
Palletizer



Take-Out Machine



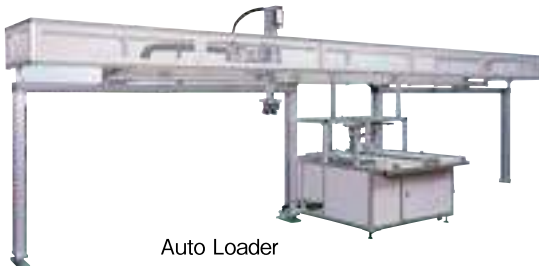
Automatic Inspection Machine



Processing Machine



Coating Machine

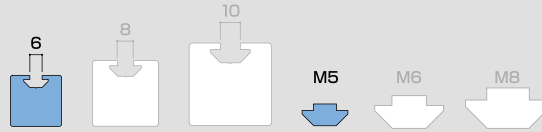


Auto Loader



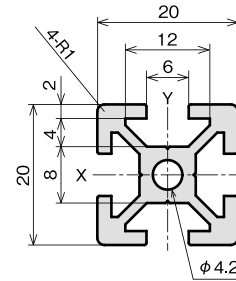
STANDARD FRAME

SF20
SERIES



SF-20•20

Asia



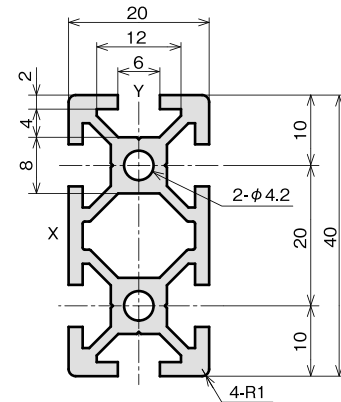
Name	SF-20•20 (ℓ=4000)	SF-20•20 ℓ=50~4000
Item No.	SFF-202-T	SFF-204-T

Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical moment of inertia	$I_x=0.74 \times 10^4 \text{mm}^4$ $I_y=0.74 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=0.74 \times 10^3 \text{mm}^3$ $Z_y=0.74 \times 10^3 \text{mm}^3$
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	$I_x=5.12 \times 10^4 \text{mm}^4$ $I_y=1.36 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=2.56 \times 10^3 \text{mm}^3$ $Z_y=1.36 \times 10^3 \text{mm}^3$
Unit Mass	0.88kg/m



SF Frame

Standard (ℓ=4000) (Cut by customer)

Item No. ℓ=4030-Effective range of use ℓ=4000

SFF-202-T

Quantity (pcs)



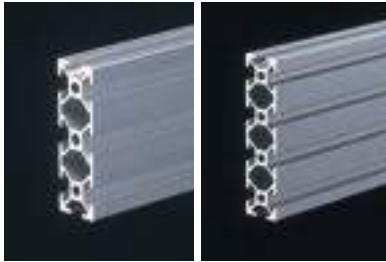
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit

Item No. Length (mm)

SFF-204-T ℓ=800

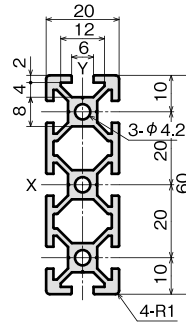
SF-20·60 / SF-20·80

Asia

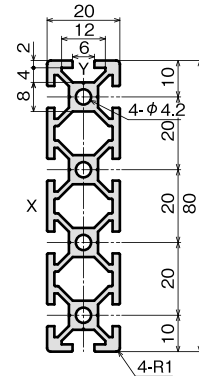


Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-20·60 SF-20·80
Moment of Inertia	$I_x=15.97 \times 10^4 \text{ mm}^4$ $I_x=36.13 \times 10^4 \text{ mm}^4$ $I_y=1.97 \times 10^4 \text{ mm}^4$ $I_y=2.58 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=5.30 \times 10^3 \text{ mm}^3$ $Z_x=9.03 \times 10^3 \text{ mm}^3$ $Z_y=1.97 \times 10^3 \text{ mm}^3$ $Z_y=2.58 \times 10^3 \text{ mm}^3$
Unit Mass	1.26kg/m 1.64kg/m

Name	SF-20·60 ($\ell=4000$)	SF-20·60 $\ell=50 \sim 4000$
Item No.	SFF-262-T	SFF-264-T
Name	SF-20·80 ($\ell=4000$)	SF-20·80 $\ell=50 \sim 4000$
Item No.	SFF-282-T	SFF-284-T



SF-20·60



SF-20·80

SF-40·40·2S

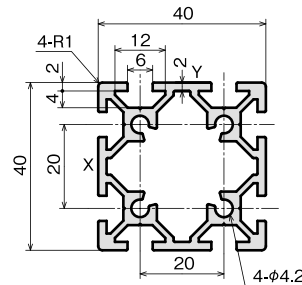
Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-40·40·2S
Moment of Inertia	$I_x=8.89 \times 10^4 \text{ mm}^4$ $I_y=8.89 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=4.45 \times 10^3 \text{ mm}^3$ $Z_y=4.45 \times 10^3 \text{ mm}^3$
Unit Mass	1.29kg/m

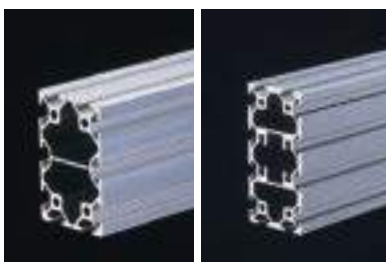
Name	SF-40·40·2S ($\ell=4000$)	SF-40·40·2S $\ell=50 \sim 4000$
Item No.	SFF-402W-T	SFF-404W-T

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



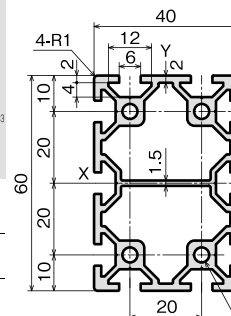
SF-40·60·SS / SF-40·80·SS

Asia

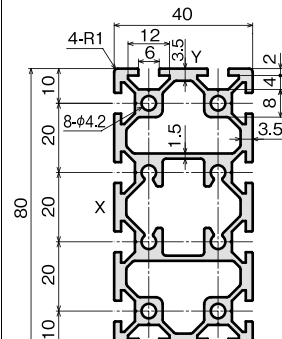


Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-40·60·SS SF-40·80·SS
Moment of Inertia	$I_x=27.03 \times 10^4 \text{ mm}^4$ $I_x=63.52 \times 10^4 \text{ mm}^4$ $I_y=12.63 \times 10^4 \text{ mm}^4$ $I_y=18.39 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=9.01 \times 10^3 \text{ mm}^3$ $Z_x=15.88 \times 10^3 \text{ mm}^3$ $Z_y=6.31 \times 10^3 \text{ mm}^3$ $Z_y=9.20 \times 10^3 \text{ mm}^3$
Unit Mass	1.80kg/m 2.70kg/m

Name	SF-40·60·SS ($\ell=4000$)	SF-40·60·SS $\ell=50 \sim 4000$
Item No.	SFF-462	SFF-464
Name	SF-40·80·SS ($\ell=4000$)	SF-40·80·SS $\ell=50 \sim 4000$
Item No.	SFF-4082-T	SFF-4084-T



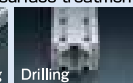
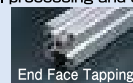
SF-40·60·SS



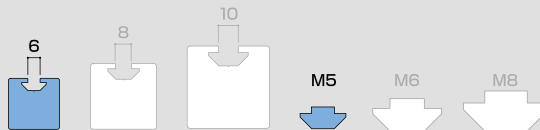
SF-40·80·SS



●Additional processing and surface treatment are also available.



P198~

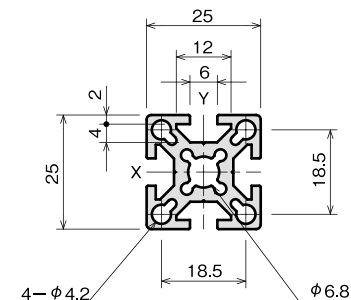


SF-25·25

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 1.64 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 1.64 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 1.31 \times 10^3 \text{ mm}^3$ $Z_y = 1.31 \times 10^3 \text{ mm}^3$
Unit Mass	0.78kg/m



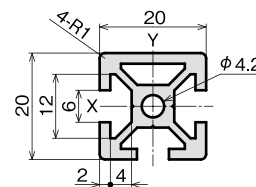
Name	SF-25·25 (ℓ=4000)	SF-25·25 ℓ=50~4000
Item No.	SFF-252-T	SFF-254-T

SF-20·20·1F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 0.83 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 0.75 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 0.78 \times 10^3 \text{ mm}^3$ $Z_y = 0.75 \times 10^3 \text{ mm}^3$
Unit Mass	0.52kg/m



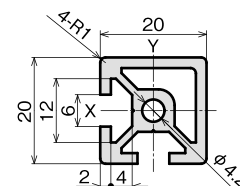
Name	SF-20·20·1F (ℓ=4000)	SF-20·20·1F ℓ=50~4000
Item No.	SFF-E22-T	SFF-E24-T

SF-20·20·2F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 0.81 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 0.81 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 0.79 \times 10^3 \text{ mm}^3$ $Z_y = 0.79 \times 10^3 \text{ mm}^3$
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



SF Frame

Standard (ℓ=4000) (Cut by customer)

Item No. ℓ=4030-Effective range of use ℓ=4000

SFF-252-T

Quantity (pcs)



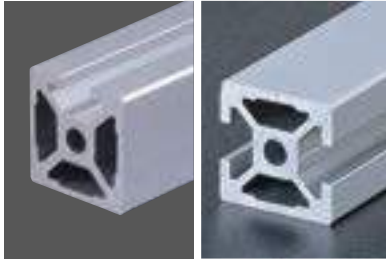
In case of specifying the length (Cut by SUS)※Order by 0.1mm unit

Item No. Length (mm)

SFF-254-T ℓ=800

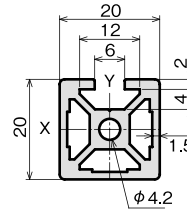
SF-20·20·3F / SF-20·20·2H

Asia

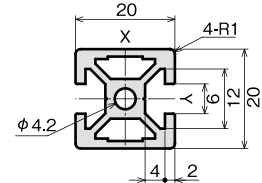


Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-20·20·3F SF-20·20·2H
Moment of Inertia	$I_x=0.81 \times 10^4 \text{mm}^4$ $I_x=0.74 \times 10^4 \text{mm}^4$ $I_y=0.89 \times 10^4 \text{mm}^4$ $I_y=0.89 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=0.78 \times 10^3 \text{mm}^3$ $Z_x=0.74 \times 10^3 \text{mm}^3$ $Z_y=0.89 \times 10^3 \text{mm}^3$ $Z_y=0.89 \times 10^3 \text{mm}^3$
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-T	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



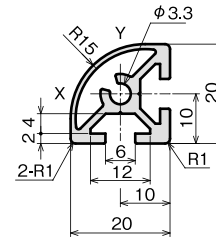
SF-20·20·2H

SF-20·20·R



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-20·20·R
Moment of Inertia	$I_x=0.55 \times 10^4 \text{mm}^4$ $I_y=0.55 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=0.48 \times 10^3 \text{mm}^3$ $Z_y=0.48 \times 10^3 \text{mm}^3$
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



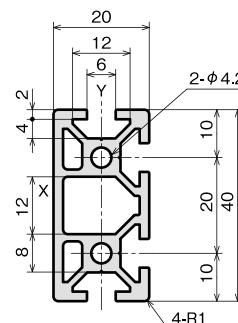
SF-20·40·1F

Asia

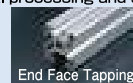


Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	SF-20·40·1F
Moment of Inertia	$I_x=5.40 \times 10^4 \text{mm}^4$ $I_y=1.53 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=2.70 \times 10^3 \text{mm}^3$ $Z_y=1.44 \times 10^3 \text{mm}^3$
Unit Mass	0.93kg/m

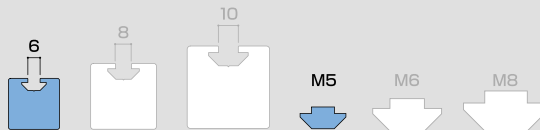
Name	SF-20·40·1F (ℓ=4000)	SF-20·40·1F ℓ=50~4000
Item No.	SFF-E242-T	SFF-E244-T



Additional processing and surface treatment are also available.



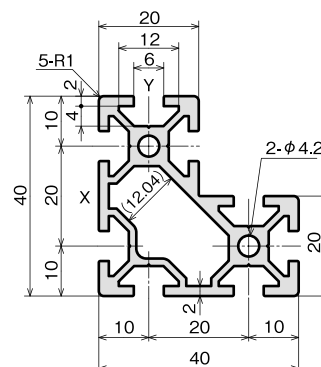
P198~



SF-20·40·40



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=6.61 \times 10^4 \text{ mm}^4$ $I_y=6.61 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=3.82 \times 10^3 \text{ mm}^3$ $Z_y=3.82 \times 10^3 \text{ mm}^3$
Unit Mass	1.16kg/m

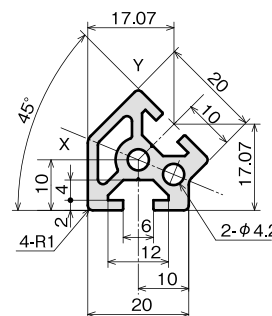


Name	SF-20·40·40 (ℓ=4000)	SF-20·40·40 ℓ=50~4000
Item No.	SFF-G02	SFF-G04

SF-20·DE45



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=0.82 \times 10^4 \text{ mm}^4$ $I_y=0.92 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=0.59 \times 10^3 \text{ mm}^3$ $Z_y=0.69 \times 10^3 \text{ mm}^3$
Unit Mass	0.59kg/m

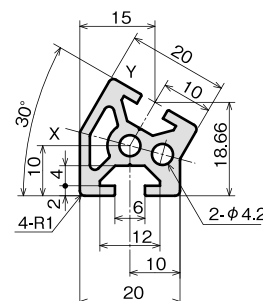


Name	SF-20·DE45 (ℓ=4000)	SF-20·DE45 ℓ=50~4000
Item No.	SFF-J52B	SFF-J54B

SF-20·DE30



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=0.80 \times 10^4 \text{ mm}^4$ $I_y=0.98 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=0.60 \times 10^3 \text{ mm}^3$ $Z_y=0.77 \times 10^3 \text{ mm}^3$
Unit Mass	0.61kg/m



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



SF Frame

Standard (ℓ=4000) (Cut by customer)

Item No. ℓ=4030-Effective range of use ℓ=4000

SFF-G02

Quantity (pcs)



In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit

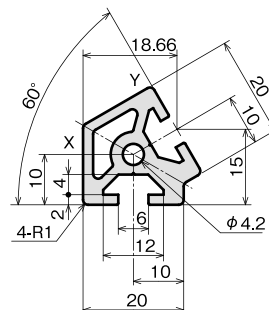
Item No. Length (mm)

SFF-G04 ℓ=800

SF-20•DE60

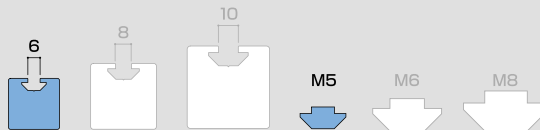


Material/Technical Data	
Material	Aluminium Alloy Aluminium Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x = 0.86 \times 10^{-4} \text{ m}^4$ $I_y = 0.92 \times 10^{-4} \text{ m}^4$
Section Modulus	$Z_x = 0.63 \times 10^{-3} \text{ m}^3$ $Z_y = 0.73 \times 10^{-3} \text{ m}^3$
Unit Mass	0.61 kg/m

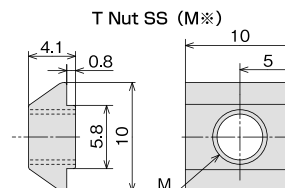
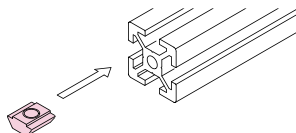
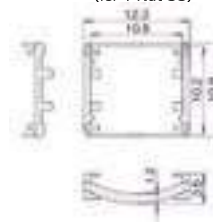


Name	SF-20-DE60 (ℓ =4000)	SF-20-DE60 ℓ =50~4000
Item No.	SFF-J52C	SFF-J54C





T Nut SS (M※) / Anti-Skid Cap SS

Anti-Skid Cap SS
(for T Nut SS)

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-955		

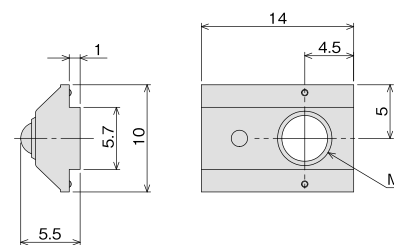
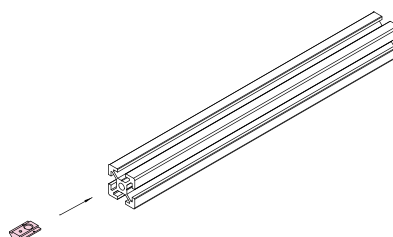
Usable Frame

Compatible to all SF20 series
(Groove Width 6mm)

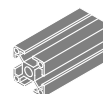
Material/Technical Data

T Nut SS	ST Nut SS	Anti-Skid Cap SS
Material Equivalent to S10C Uni-Chrome	Stainless With conductive function	POM
Weight 2g	2g	0.04g/piece
Environment RoHS Compliant	Green Procurement	

ST Nut Stopper SS

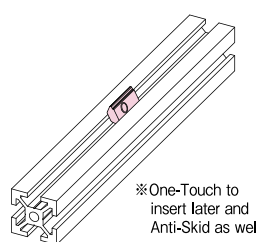
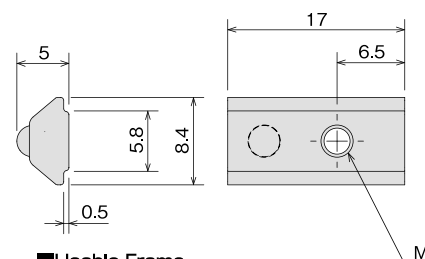


Usable Frame

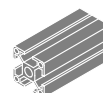
Compatible to all SF20 series
(Groove Width 6mm)

M5	M4	M3
Material Stainless	Stainless	Stainless
Weight 2.4g	2.6g	2.8g
Environment RoHS Compliant		

Easy Nut SS (M※)

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

Usable Frame

Compatible to all SF20 series
(Groove Width 6mm)

Material/Technical Data

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



Parts

How to order

Item No.

SFB-013

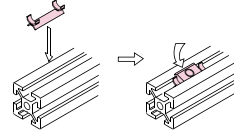
Quantity (pcs)



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



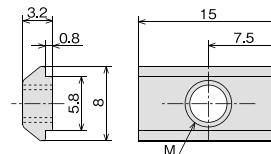
※Using After Nut Support together prevents from slipping.



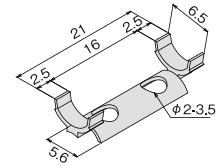
Name	After Nut SS(M5) ※1 (S After Nut SS(M5))	After Nut SS(M4) (S After Nut SS(M4))	After Nut SS(M3) (S After Nut SS(M3))
Item No.	SFB-605 (SFB-SH5)	SFB-604 (SFN-AX4)	SFB-603 (SFN-AX3)
Name	After Nut Support SS (50pcs/pack)		
Item No.	SFA-9A1		

※1 No conductive type with S After Nut SS

After Nut SS (M※)



After Nut Support SS (for After Nut)



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

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	

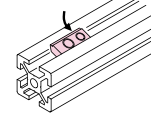
Lock Nut SS (M※) / S Free Nut SS (M※)



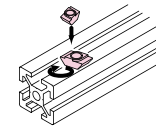
Name	Lock Nut SS(M5) (S Lock Nut SS(M5))	Lock Nut SS(M4) (S Lock Nut SS(M4))	Lock Nut SS(M3) (S Lock Nut SS(M3))
Item No.	★SFB-4D5 (★SFB-SD5)	★SFB-4D4 (★SFN-LX4)	★SFB-4D3 (★SFN-LX3)
Name	S Free Nut SS (M4)		S Free Nut SS (M3)
Item No.	★SFN-FX4		★SFN-FX3

Lock Nut SS (M※)

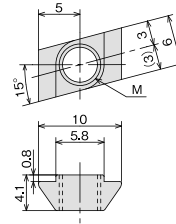
※You can fix Nut and conduct electricity by tightening attached Set Screw.



S Free Nut SS



Free Nut SS (M※)

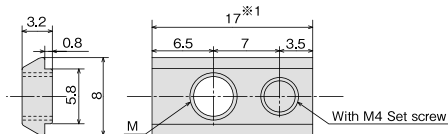


■Usable Frame —
Compatible to all SF20 series
(Groove Width 6mm)

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	

Lock Nut SS (M※)



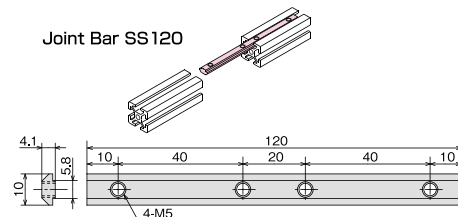
※1 M3 and M4: Length 15

Joint Bar SS 120



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

Joint Bar SS120

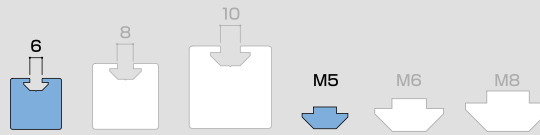


■Usable Frame —
Compatible to all SF20 series
(Groove Width 6mm)

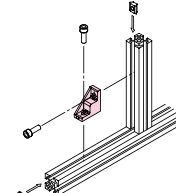
■Kit contents —
●Joint Bar SS120×1
●Set screw (M5×5)×4

Material/Technical Data

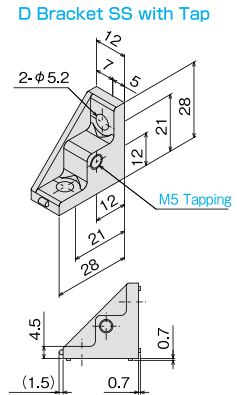
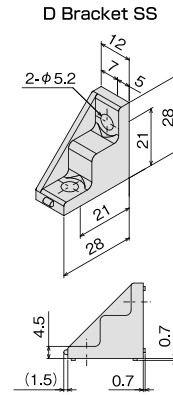
Material	Equivalent to S10C Uni-Chrome plating
Weight	about 25g
Environment	★RoHS Compliant ★Green Procurement



D Bracket SS

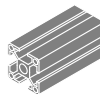


Name(Single Item)	D Bracket SS (D Bracket SS with Tap)		D Bracket SS-CN (D Bracket SS-CN with Tap)
Item No.	★SFJ-016 ★SFJ-017		★SFJ-016N ★SFJ-017N
Name(Bolt and Nut Kit)	D Bracket SS Kit (D Bracket SS with Tap Kit)	D Bracket SS(Stainless)Kit (D Bracket SS with Tap (Stainless) Kit)	D Bracket SS-CN Kit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



Please use Kit with Tap to install Side Cover. (Refer P45 for details.)

Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

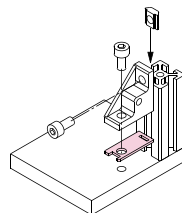
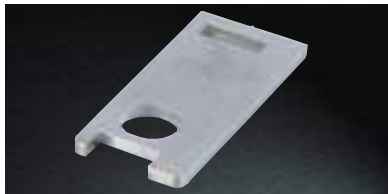
Kit Contents

- 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.

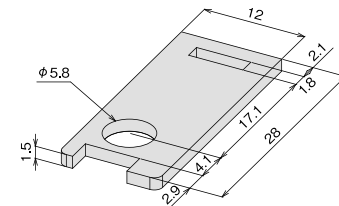
Material/Technical Data

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

D Bracket Spacer SS

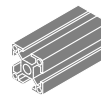


- Setting to bottom of D Bracket enables to fix on a flat base.



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

Usable Frame

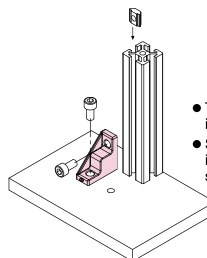


Compatible to all SF20 series
(Groove Width 6mm)

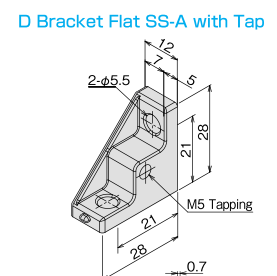
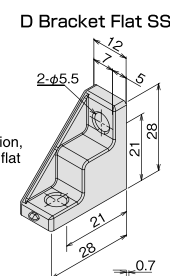
Material/Technical Data

Material SUS304
Weight 4g
Environment RoHS Compliant
Green Procurement

D Bracket Flat SS

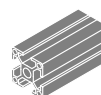


- The D bracket flat SS-B is a mirror image
- Since there is no projection, it can be flush fitted to a flat surface



Name(Single Item)	D Bracket Flat SS-A (D Bracket Flat SS-A with Tap)	
Item No.	SFJ-035 (SFJ-036)	
Name(Bolt and Nut Kit)	D Bracket Flat SS-A Kit (D Bracket Flat SS-A with Tap Kit)	D Bracket Flat SS-A Kit (Stainless) (D Bracket Flat SS-A with Tap Kit (Stainless))
Item No.	SFK-035 (SFK-036)	SFK-035S (SFK-036S)
Name(Single Item)	D Bracket Flat SS-B (D Bracket Flat SS-B with Tap)	
Item No.	SFJ-037 (SFJ-038)	
Name(Bolt and Nut Kit)	D Bracket Flat SS-B Kit (D Bracket Flat SS-B with Tap Kit)	D Bracket Flat SS-B Kit (Stainless) (D Bracket Flat SS-B with Tap Kit (Stainless))
Item No.	SFK-037 (SFK-038)	SFK-037S (SFK-038S)

Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

Kit Contents

- D Bracket SS-A/B(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 ADC12
Weight 22g (D Bracket Flat SS)
21g (D Bracket Flat SS with Tap)
Environment RoHS Compliant



Parts

How to order

Item No.

SFJ-016

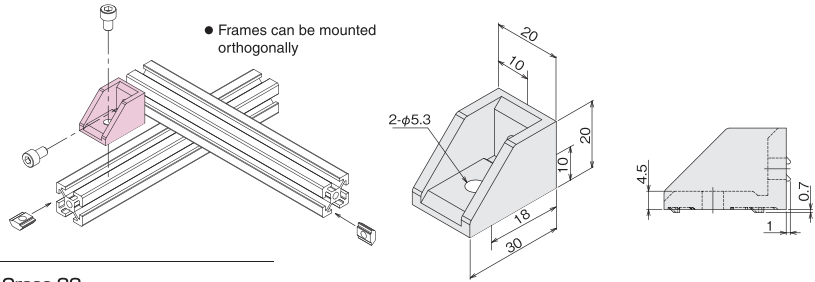
Quantity (pcs)



● Cap for Bracket
P43



D Bracket Cross SS



Name(Single Item)	D Bracket Cross SS	
Item No.	SFJ-043	
Name(Bolt and Nut Kit)	D Bracket Cross SS Kit	D Bracket Cross SS Kit (Stainless)
Item No.	SFK-043	SFK-043S

Usable Frame



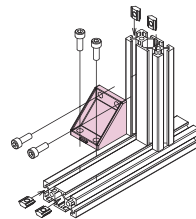
Kit Contents

- D Bracket Cross SS×1
- Hexagon Socket Bolt (M5×10)×2
- T Nut SS(M5)×2
- ※Bolt and Nut in (Stainless) Kit are Stainless.

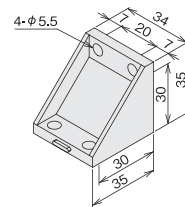
Material/Technical Data

Material ADC12
Weight 13g (D Bracket Cross SS)
Environment RoHS Compliant

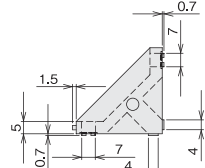
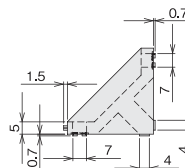
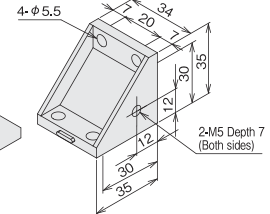
D Bracket 2040



D Bracket 2040



D Bracket 2040 with Tap



Please use Kit with Tap to install Side Cover. (Refer P45 for details.)

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 with Tap Kit)	D Bracket 2040 (Stainless) Kit (D Bracket 2040 with Tap (Stainless) Kit)
Item No.	SFK-020 (SFK-020T)	SFK-020S (SFK-020P)

Usable Frame

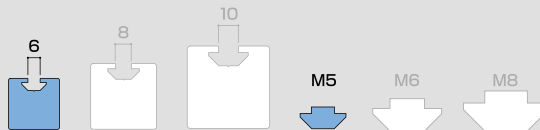


Kit Contents

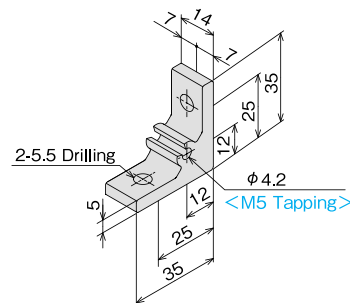
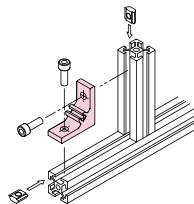
- D Bracket 2040(or with Tap)×1
- Hexagon Socket Bolt (M5×10)×4
- T Nut SS(M5)×4

Material/Technical Data

Material Aluminum Die-Cast
With Anti-Skid Function
Weight 34g
Environment RoHS Compliant
Green Procurement



Hard Bracket SS



Please use Kit with Tap to install Side Cover. (Refer P45 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 with Tap Kit)	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)

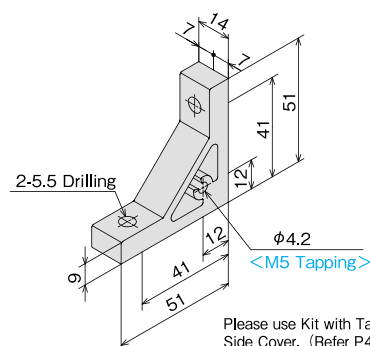
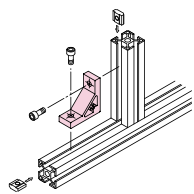
■Kit Contents

- 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 P45 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 with Tap Kit)	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)

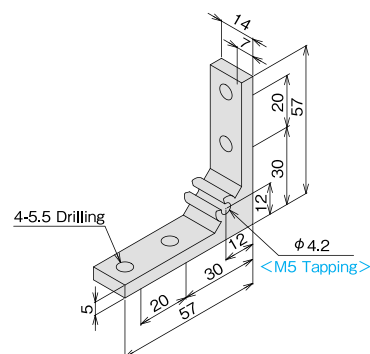
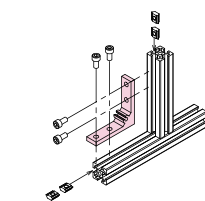
■Kit Contents

- 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 P45 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 with Tap Kit)	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



Parts

How to order

Item No.

Quantity (pcs)

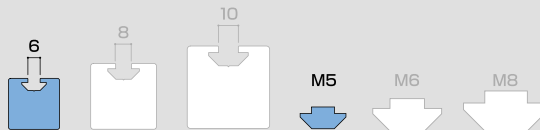
SFJ-N01



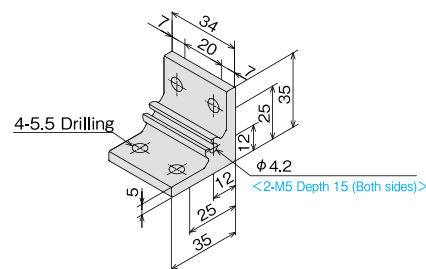
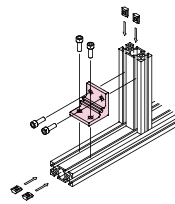
●Cap for Bracket
P43



SF20 SERIES



Hard Bracket SS2040



Please use Kit with Tap to install Side Cover. (Refer P45 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)

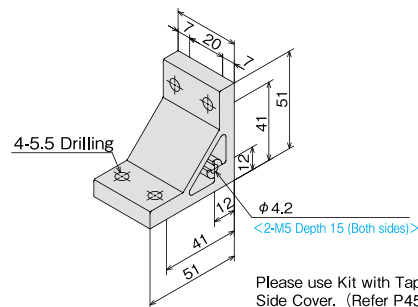
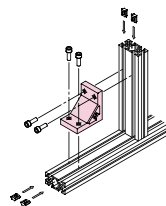
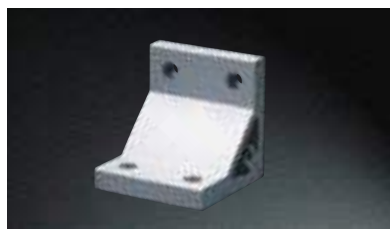
■Kit Contents

- 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 P45 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)

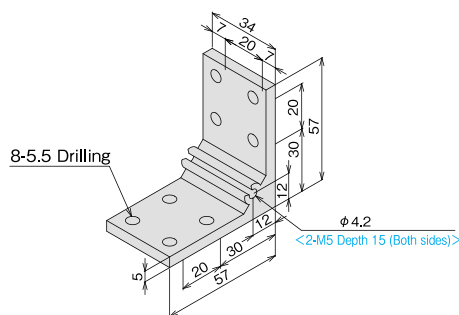
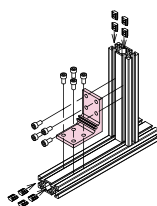
■Kit Contents

- 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 P45 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



Parts

How to order

Item No.

SFJ-N02

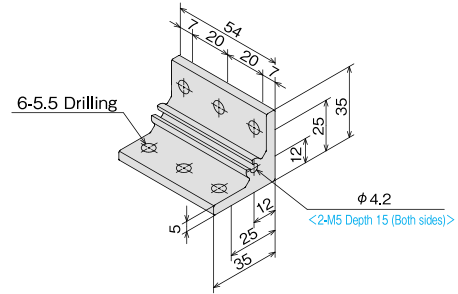
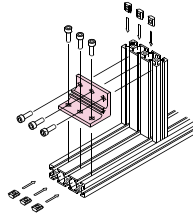
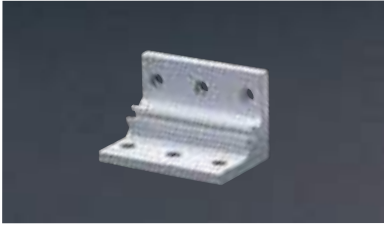
Quantity (pcs)



●Cap for Bracket
P43

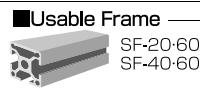


Hard Bracket SS2060



Please use Kit with Tap to install Side Cover. (Refer P45 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)



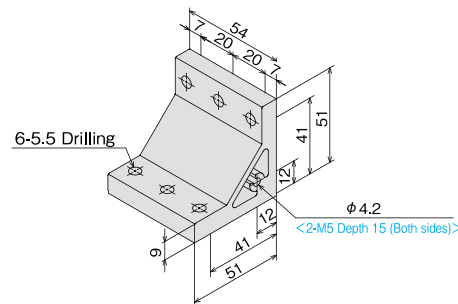
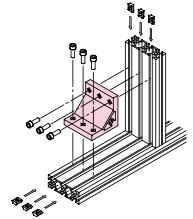
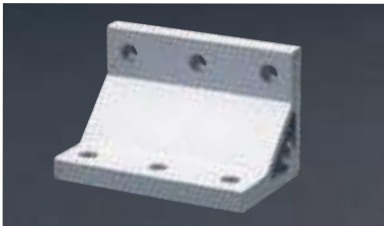
■Kit Contents

- 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

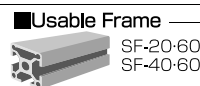
Material Aluminium Alloy
Alumite Treatment
(Special Order:Black Alumite is also available.)
Perpendicular surface is machining finished.
Weight 60g
Environment RoHS Compliant
Green Procurement

Hard Bracket SSG2060



Please use Kit with Tap to install Side Cover. (Refer P45 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)



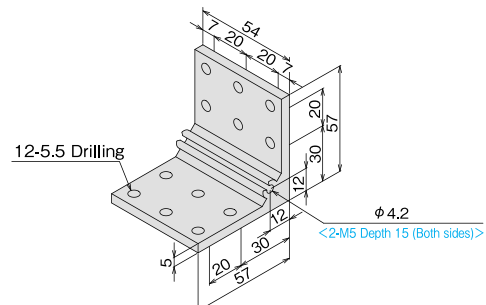
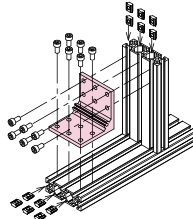
■Kit Contents

- 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

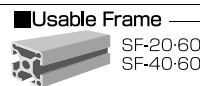
Material Aluminium Alloy
Alumite Treatment
(Special Order:Black Alumite is also available.)
Perpendicular surface is machining finished.
Weight 119g
Environment RoHS Compliant
Green Procurement

Hard Bracket SSW2060



Please use Kit with Tap to install Side Cover. (Refer P45 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)

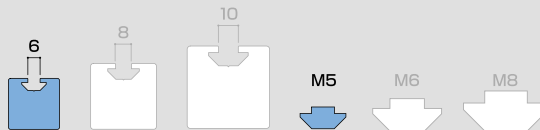


■Kit Contents

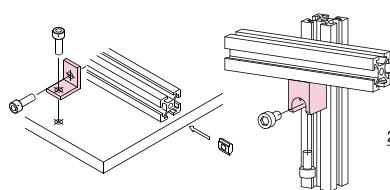
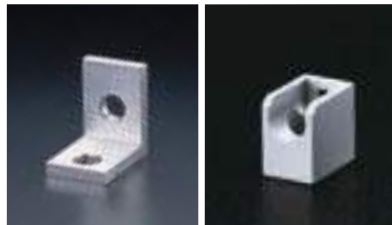
- Hard Bracket SSW2060(or with Tap)×1
 - Hexagon Socket Bolt (M5×10)×12
 - T Nut SS(M5)×12
 - ※Bolt and Nut in (Stainless)
- Kit are stainless.

■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

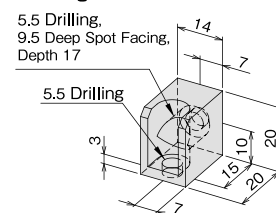
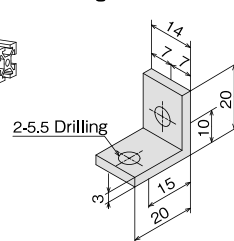


Angle Bracket SS / Angle Bracket Hard SS



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)

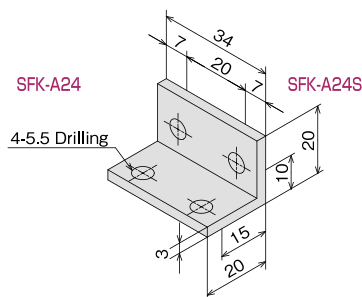
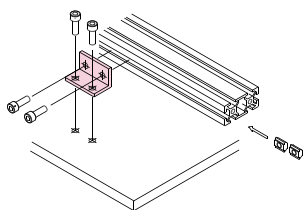
Kit Contents

- 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	A6063
	Alumite Treatment	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

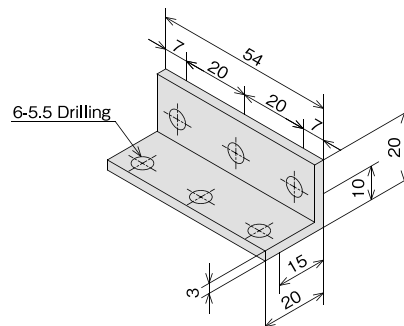
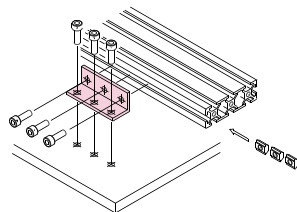
Kit Contents

- 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

	Angle Bracket SS2040
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

	Angle Bracket SS2060
Material	Aluminium Alloy
	Alumite Treatment
Weight	15g
Environment	★RoHS Compliant
	★Green Procurement



Parts

How to order

Item No.

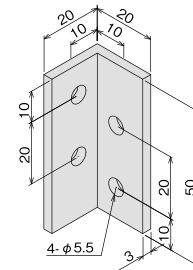
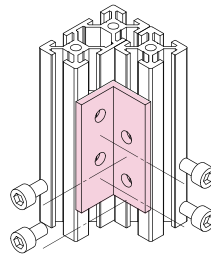
SFJ-A01

Quantity (pcs)



Frame for **20** Nut for **20** Bracket for **20** Adjuster for **20** Accessory for **20**

Offset Angle SS2040



Name(Single Item)	Offset Angle SS2040	
Item No.	SFA-4P3	
Name(Bolt and Nut Kit)	Offset Angle SS2040 Kit	Offset Angle SS2040 Kit (Stainless)
Item No.	SFK-A24	SFK-A24S

Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

Kit Contents

- Offset Angle SS2040×1
- Hexagon Socket Bolt (M5×8)×4
- Easy Nut SS(M5)×4
- ※ Bolt and Nut in (Stainless) Kit are stainless.

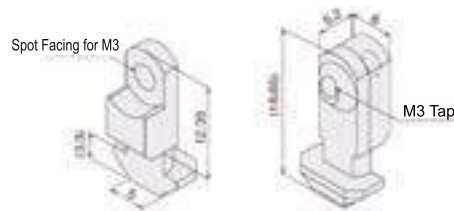
Material/Technical Data

Material A6063
Alumite Treatment
Weight 14.2g (Offset Angle SS2040)
Environment **RoHS** Compliant

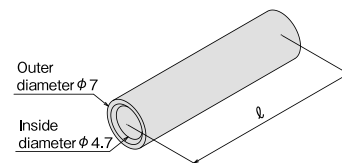
QC Joint SS



QC Joint SS(Common Parts)



SS Round metal tool



Name	QC Joint SS20 Kit	QC Joint SS40 Kit
Item No.	SFK-Q20A	SFK-Q21A

	SS20 Kit	SS40 Kit
l	8	28

Kit Contents	Kit Name	QC Joint	Round metal tool	Bolt
	QC Joint SS20 Kit	QC Joint SS×1 set	SS Round metal tool 20x1	Hexagon Socket Bolt (M3×15)Stainless×1
	QC Joint SS40 Kit		SS Round metal tool 40x1	Hexagon Socket Bolt (M3×35)Stainless×1

Material/Technical Data

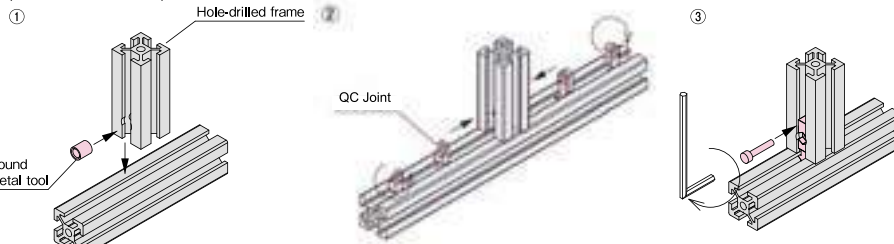
	QC Joint SS	Round metal tool
Material	Aluminum Die-Cast	Aluminium Alloy
Weight	4g(SS20 Kit)	6g(SS40 Kit)
Environment	RoHS Compliant	Green Procurement

QC Joint SS

Characteristics

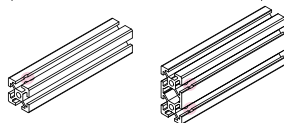
It's easy to set vertically and hardly make gap, because 2 frames are pulled at each other to combine. Also, you don't have to let nuts into frame in advance, and strong fixing is possible by one bolt, so the assembly man-hour is reduced.

How to assemble

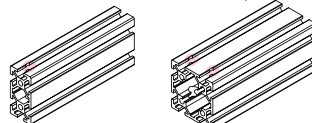


Example of kit selection

- QC Joint SS20 Kit
(For drilled hole to the direction of mm)

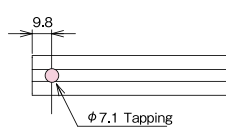
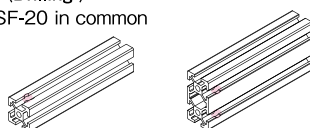


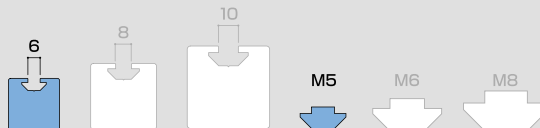
- QC Joint SS40 Kit
(For drilled hole to the direction of 40mm)



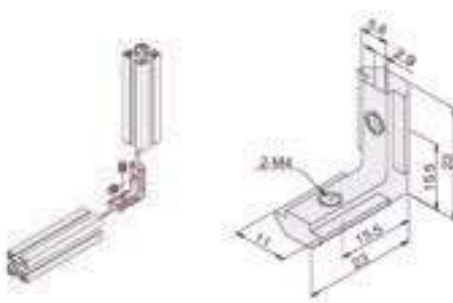
Drilling

SF-20 in common





Blind Bracket SS



Name	Blind Bracket SS
Item No.	SFK-620A

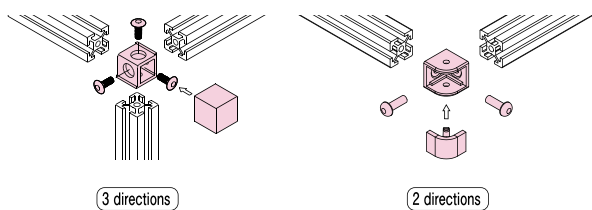
Usable Frame

Compatible to all SF20 series (Groove Width 6mm)

Material/Technical Data

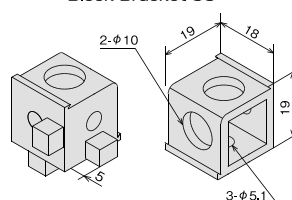
Material Aluminum Die-Cast
(2 Set Screws M4x5 Stainless Included.)
Weight 6g
Environment RoHS Compliant
Green Procurement

Block Bracket SS Kit / Corner Block SS Kit

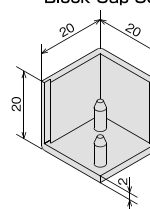


※Hold the Pin edge to insert Cap.

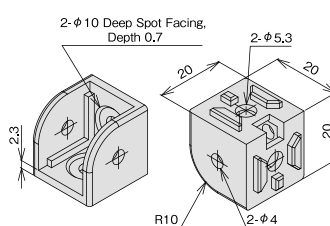
Block Bracket SS



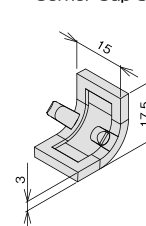
Block Cap SS



Corner Block SS



Corner Cap SS



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

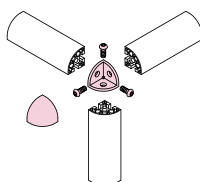
Material/Technical Data

Block Bracket SS
Material Zinc Die-Cast (Block Bracket SS)
Polyamide (Block Cap SS)
Hexagon Socket Button Bolt (M5x15) 3 pcs (Block Bracket)
Weight 27g (Block Bracket SS)
3g (Block Cap SS)
Environment RoHS Compliant

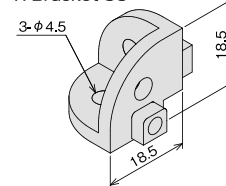
Corner Block SS
Stainless (Corner Block SS)
Polyamide (Corner Cap SS)
Hexagon Socket Button Bolt (M5x15) 2 pcs (Corner Block)
23g (Corner Block SS)
2g (Corner Cap SS)

※M5 Tap Processing is needed to the section of SF20-20 (or 1F/2F). (Refer P199~ for details.)
※Corner block SS Kit is installable by Tapping Bolt as well.

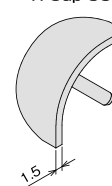
R Bracket SS Kit



R Bracket SS



R Cap SS



Usable Frame
SF-20-20-R

Material/Technical Data

R Bracket SS
Material Stainless (SCS13)
Hexagon Socket Bolt (M4x12) 3 pcs
Weight 18g
Environment RoHS Compliant

R Cap SS
Polyamide
Color/Black-Light gray
2g

※M4 Tap Processing is needed to the section of SF-20-20-R to mount. (Refer P199~ for details.)



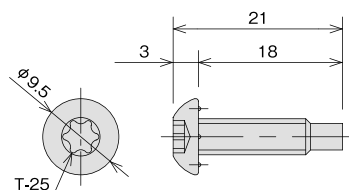
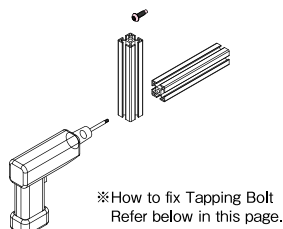
Parts

How to order

Item No. Quantity (pcs)

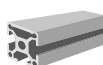
SFK-600S □□

Tapping Bolt SS



Name	Tapping Bolt SS
Item No.	SFB-T20

Usable Frame

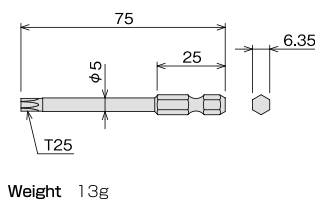


SF-20-20(1F/2F/3F/2H)
SF-20-40(1F)
SF-20-60/20-80
SF-40-40-2S(1F/2F)

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

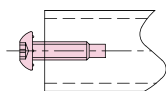


Weight 78g

Name	Torque Driver T25
Item No.	SFA-T25H

How to fix Tapping Bolt

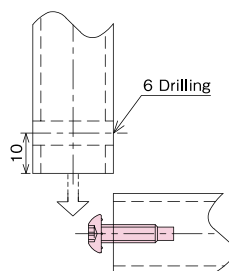
①



Fix the frame with jig etc, and screw the Tapping Bolt halfway into the end face. (Temporary joint)

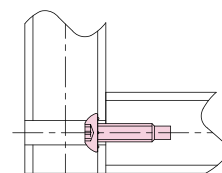
※ In case it is too tight, please use cutting oil.

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.



●Drillid by SUS
Processing Symbol P206~

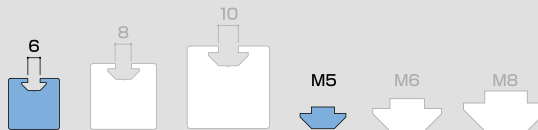
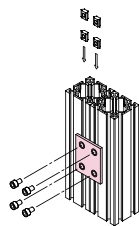


Plate Bracket



Usable Frame



Compatible to all SF20 series
(Groove Width 6mm)

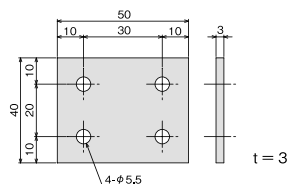
Kit Contents

Refer table for right

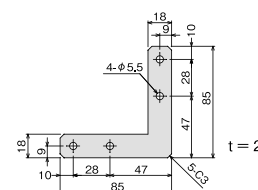
Material/Technical Data

Name	Weight(g)	Material	Environment
S 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-H2	8.3		
S Plate Bracket SS-H4	18.7		
S Corner Support Bracket SS	65	SUS304	Procurement
S Corner Support Plate SS	104		

S Plate Bracket SSG



S Plate Bracket SS-L Type



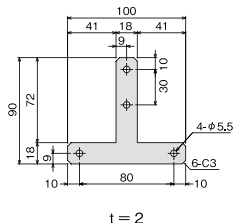
Name	S Plate Bracket SSG	S Plate Bracket SSG Kit	S Plate Bracket SS-L type	S Plate Bracket SS-L type Kit
Item No.	SFJ-121S	SFK-121S	SFJ-109S	SFK-109S

Kit Contents

- S 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

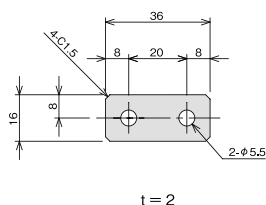


Name	S Plate Bracket SS-T type	S Plate Bracket SS-T type Kit
Item No.	SFJ-110S	SFK-110S

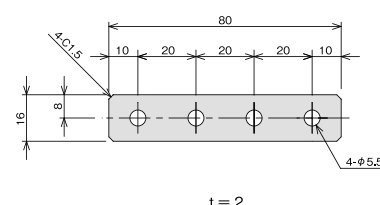
Kit Contents

- S Plate Bracket SS-T Type×1
- Hexagon Socket Bolt (M5×6)Stainless×4
- ST Nut SS(M5) ×4

S Plate Bracket SS-H2



S Plate Bracket SS-H4



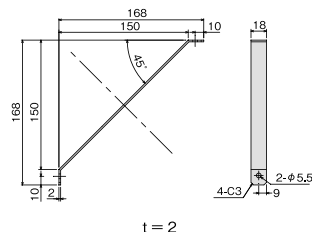
Name	S Plate Bracket SS-H2	S Plate Bracket SS-H2 Kit	S Plate Bracket SS-H4	S Plate Bracket SS-H4 Kit
Item No.	SFJ-124S	SFK-124S	SFJ-128S	SFK-128S

Kit Contents

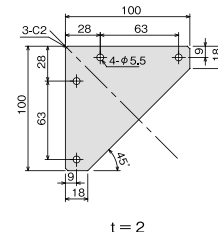
- S Plate Bracket SS-H2×1
- Hexagon Socket Bolt (M5×6)Stainless×2
- ST Nut SS (M5)×2

- S 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	S Corner Support Bracket SS	S Corner Support Bracket SS Kit	S Corner Support Plate SS	S Corner Support Plate SS Kit
Item No.	SFJ-135S	SFK-135S	SFJ-136S	SFK-136S

Kit Contents

- S Corner Support Bracket SS×1
- Hexagon Socket Bolt (M5×6)Stainless×2
- ST Nut SS (M5)×2

- S Corner Support Plate SS×1
- Hexagon Socket Bolt (M5×6)Stainless×4
- ST Nut SS (M5)×4

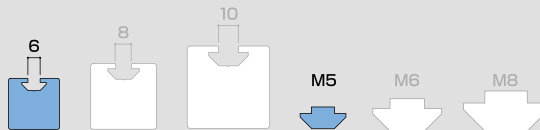


Parts

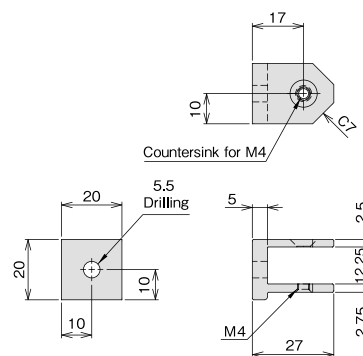
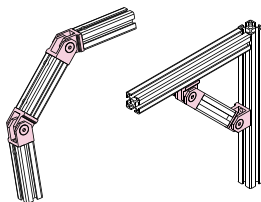
How to order

Item No. Quantity (pcs)

SFJ-121S □□



Turn Bracket 20



(Attachment) Cross-Recessed Flat Head Screw M4 x 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).

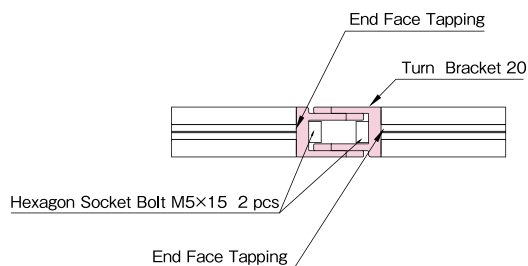
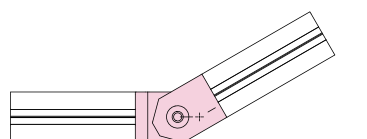
Material/Technical Data

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

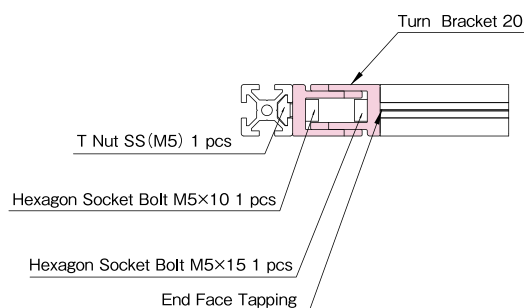
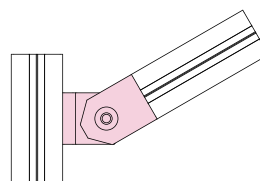
※2 pcs/set

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.〉



Parts

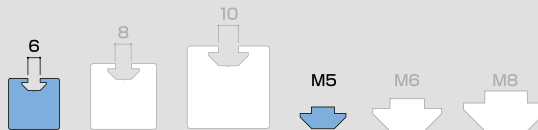
How to order

Item No.

SFK-44A

Quantity (set)

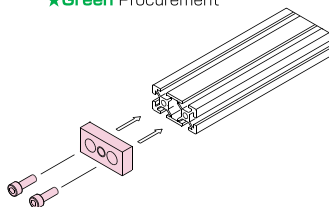




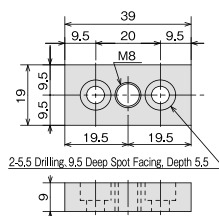
Foot Base



Environment ★RoHS Compliant
★Green Procurement



Foot Base 2040



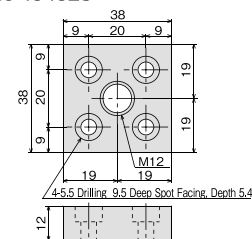
(Material)

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 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 40402S <Foot Base 40402S(Stainless)>
Item No.	★SFK-55A ★SFK-55AS	★SFK-51A ★SFK-51AS



Parts

How to order
Item No.

SFK-55A

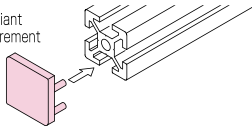
Quantity (set)



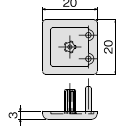
Frame Cap



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

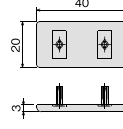


Frame Cap 2020



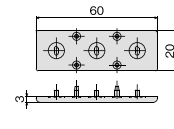
Weight/1.3g
Usable Frame
SF-20-20(1F/2F/3F/2H)

Frame Cap 2040



Weight/2.3g
Usable Frame
SF-20-40, SF-20-40-1F, *SF-20-80

Frame Cap 2060

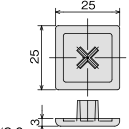


Weight/4.1g
Usable Frame
SF-20-60

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

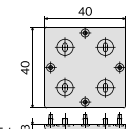
※Use 2 pcs for SF20-80

Frame Cap 2525



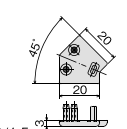
Weight/2.0g
Usable Frame
SF-25-25

Frame Cap 40402S



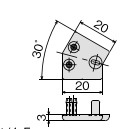
Weight/5.1g
Usable Frame
SF-40-40-2S(1F/2F) *SF-40-80-SS

Frame Cap 20-DE45



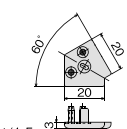
Weight/1.5g
Usable Frame
SF-20-DE45

Frame Cap 20-DE30



Weight/1.5g
Usable Frame
SF-20-DE30

Frame Cap 20-DE60

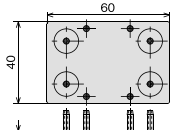


Weight/1.5g
Usable Frame
SF-20-DE60

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

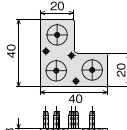
※Use 2 pcs for SF40-80-SS

Frame Cap 4060SS



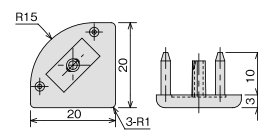
Weight/8.9g
Usable Frame
SF-40-60-SS

Frame Cap 204040



Weight/4.3g
Usable Frame
SF-20-40-40

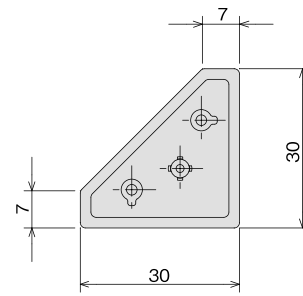
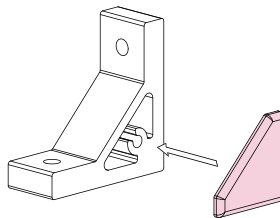
Frame Cap 20-20-R



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



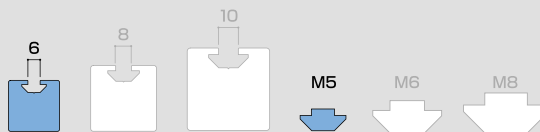
Name	Hard Bracket Cap (Light Gray)
Item No.	SFA-J11G

Usable Frame

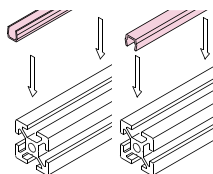
Hard Bracket SSG
Hard Bracket SSG2040
Hard Bracket SSG2060

Material/Technical Data

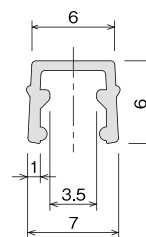
Material Polyamide
Weight 1.8g
Environment RoHS Compliant
Green Procurement



Slot Cap SS



Slot Cap SS



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

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

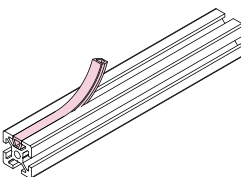
Usable Frame

Compatible to all SF20 series
(Groove Width 6mm)

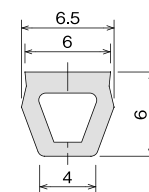
Material/Technical Data

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

Slot Seal SS



Slot Seal SS



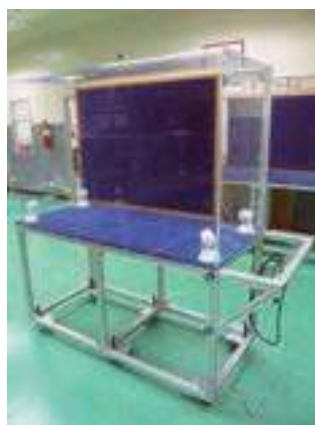
Name	Slot Seal SS ℓ=5000/pcs
Item No.	SFA-170

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.

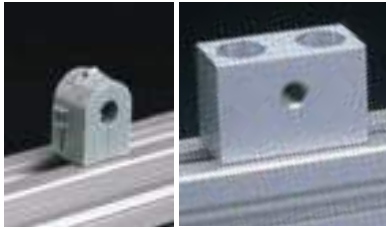
SFA-103

Quantity (pcs)



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

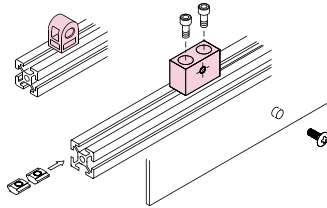
Cover Holder SS with Cap / Cover Support SS / Cover Support SS Flat



Cover Holder SS with Cap

Cover Support SS

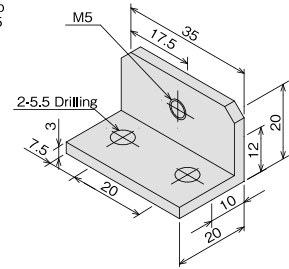
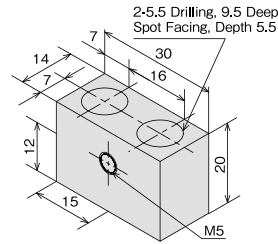
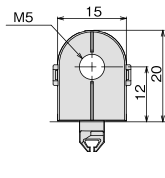
Cover Support SS Flat



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 with Cap

Material Polyamide
Color/Light gray
Weight 4g
※ M5 Nut ×1
Environment **RoHS** Compliant
Green Procurement

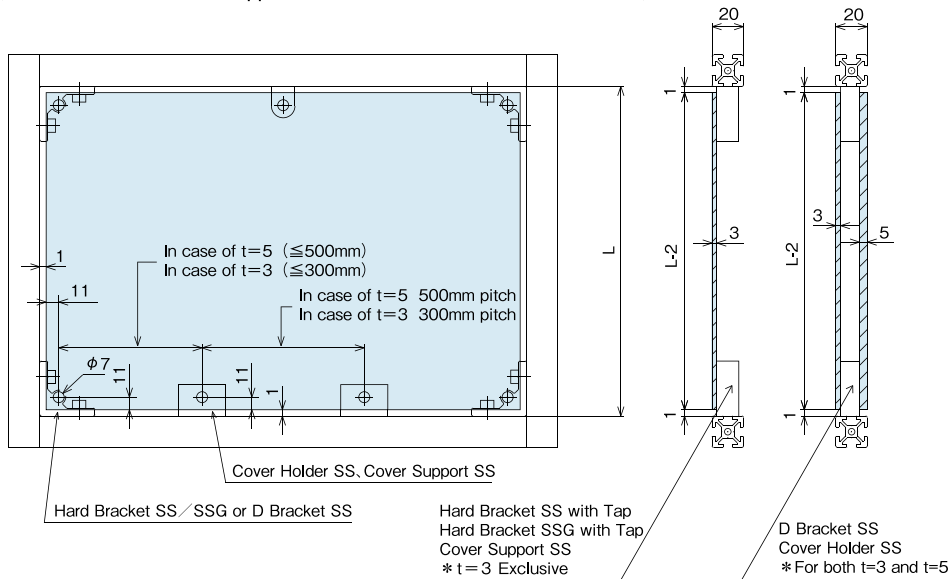
Cover Support SS / Cover Support SS Flat

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

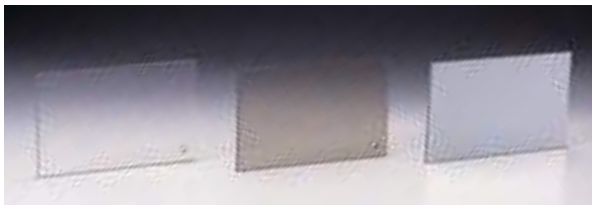
Name	Cover Holder SS	Cover Support SS	Cover Support SS Kit (Cover Support SS(Stainless)Kit)	Cover Support SS Flat	Cover Support SS Flat Kit (Cover Support SS Flat(Stainless)Kit)
Item No.	★SFA-KH5	★SFJ-K01	★SFK-K01 ★SFK-K01S	★SFJ-K11	★SFK-K11 ★SFK-K11S

How to fix Cover

<Cover Holder SS, Cover Support SS Indication of Resin Plate Dimension>



<Resin plate>

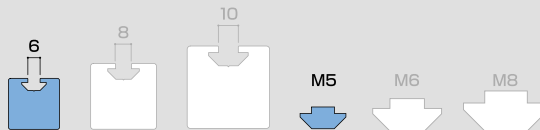


GO Various Resin Plates are available.
Refer P168 ~.

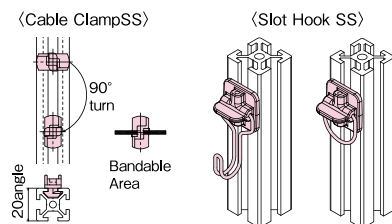
<Door accessories>



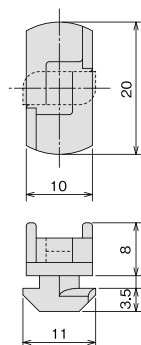
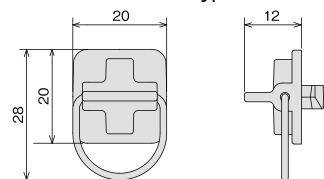
GO Various parts for door are available.
Refer P140 ~.



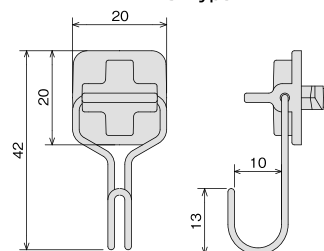
Cable Clamp SS (last-in) / Slot Hook SS (U), (J)



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)

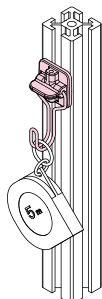
Material/Technical Data

Cable Clamp SS
Material Polyamide(Body) Stainless(Hook)
Color/Black-Light Gray
Weight 1g/piece
Environment RoHS Compliant
Green Procurement

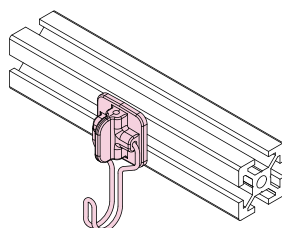
Slot Hook SS U Type-J Type
Material Polyamide(Body) Stainless(Hook)
Color/Light Gray
Weight 2.5g(U Type) -3g(J Type)/Load capacity 1.5kg

How to use Slot Hook

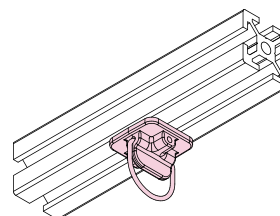
〈To hang small article and tool〉



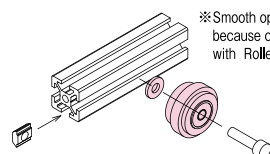
〈To hang memo pad〉



〈To store manual where you can see anytime〉

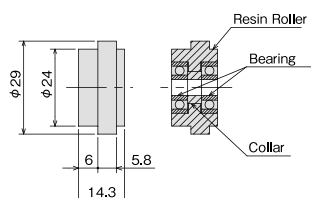


Slot Roller SS



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

Slot Roller SS



Usable Frame

Compatible to all SF20 series
(Groove Width 6mm)

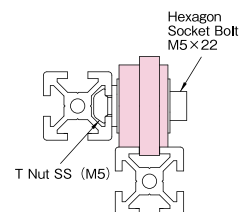
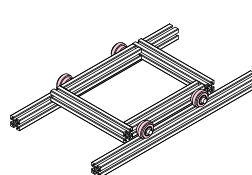
Material/Technical Data

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

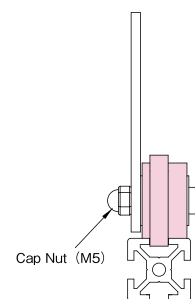
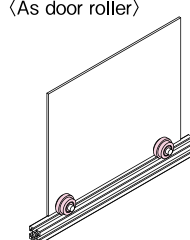
※Size of the attaching bolt : M5
※Appropriate Tightening Torque : 7.4N·m
※2 Bearings-1 Collar-1 Washer

Example of use

〈To frame's movable part〉



〈As door roller〉



Parts

How to order

Item No. Quantity (Pac)

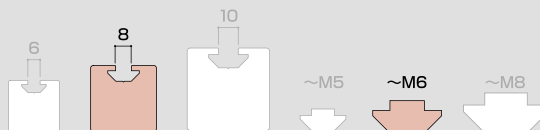
C1P-B03C ☐ ☐



STANDARD FRAME

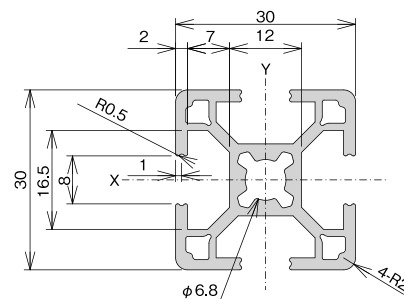
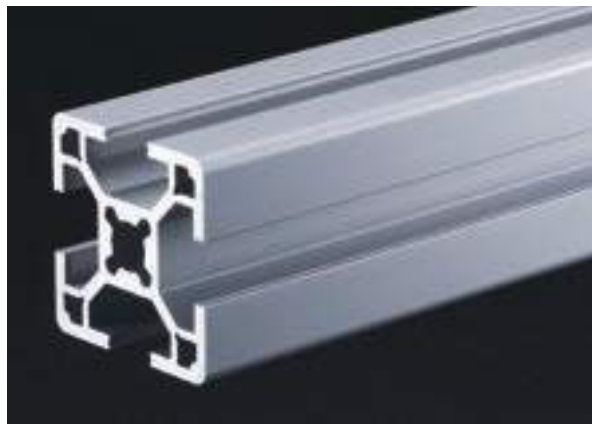
SF30

SERIES



SF2-30-30

Asia

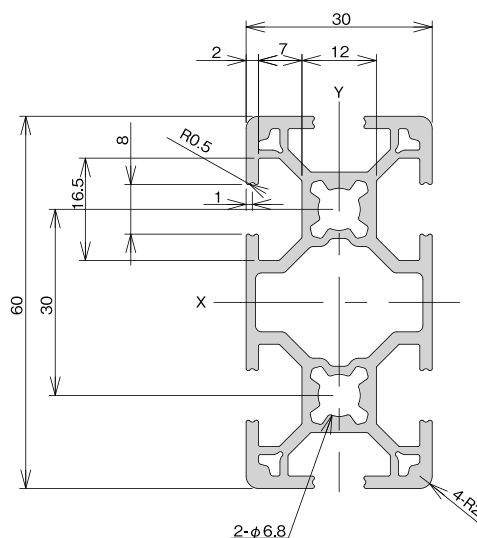
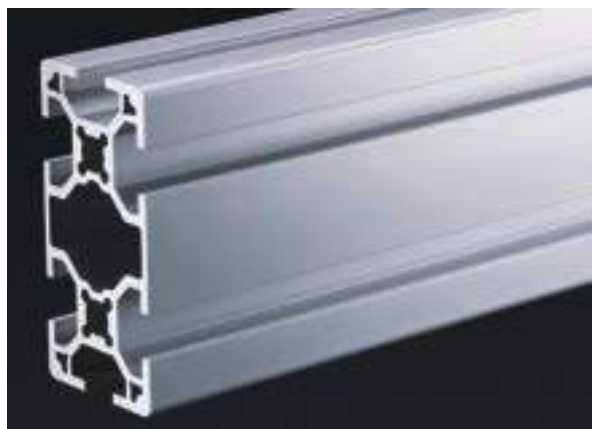


Name	SF2-30-30 ℓ = 4000	SF2-30-30 ℓ = 50~4000
Item No.	SFF-322-T	SFF-324-T

Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 2.85 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 2.85 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 1.90 \times 10^3 \text{ mm}^3$ $Z_y = 1.90 \times 10^3 \text{ mm}^3$
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	$I_x = 20.79 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 5.41 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 6.93 \times 10^3 \text{ mm}^3$ $Z_y = 3.61 \times 10^3 \text{ mm}^3$
Unit Mass	1.49kg/m



SF Frame

Standard(ℓ = 4000) (Cut by customer)

Item No. ℓ = 4030-Effective range of use ℓ = 4000

SFF-322-T

In case of specifying the length (Cut by SUS) ※ Order by 0.1mm unit

Quantity (pcs) Item No. Length (mm)

SFF-324-T ℓ = 800

Frame for 30 Nut for 30 Bracket for 30 Adjuster for 30 Accessory for 30

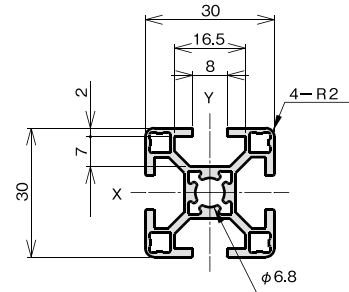
Asia This sign shows the product is designed for Asia region only

SF-K-30-30

Asia



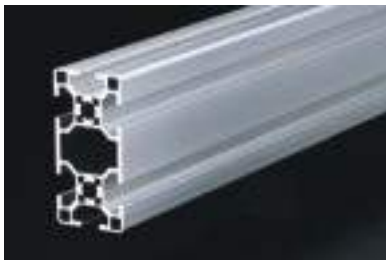
■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — **RoHS** Compliant
Green Procurement
Geometrical
Moment of Inertia $I_x=2.38 \times 10^4 \text{mm}^4$
 $I_y=2.38 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=1.59 \times 10^3 \text{mm}^3$
 $Z_y=1.59 \times 10^3 \text{mm}^3$
Unit Mass — 0.73kg/m



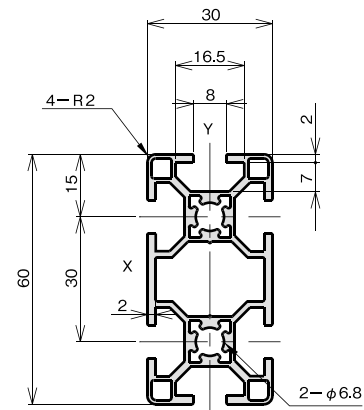
Name	SF-K-30-30 $\ell = 4000$	SF-K-30-30 $\ell = 50 \sim 4000$
Item No.	SFF-B12-T	SFF-B14-T

SF-K-30-60

Asia



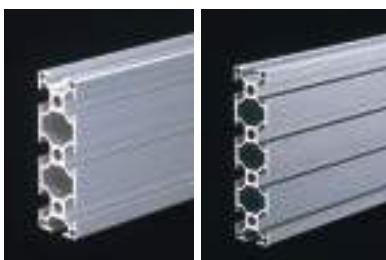
■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — **RoHS** Compliant
Green Procurement
Geometrical
Moment of Inertia $I_x=16.68 \times 10^4 \text{mm}^4$
 $I_y=4.63 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=5.56 \times 10^3 \text{mm}^3$
 $Z_y=3.09 \times 10^3 \text{mm}^3$
Unit Mass — 1.30kg/m



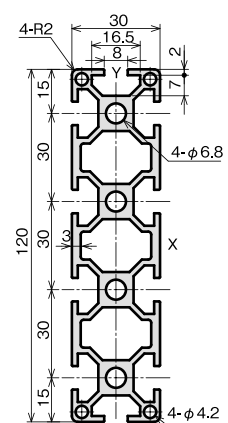
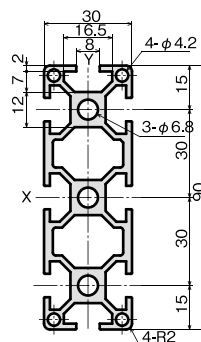
Name	SF-K-30-60 $\ell = 4000$	SF-K-30-60 $\ell = 50 \sim 4000$
Item No.	SFF-B22-T	SFF-B24-T

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 $I_x=66.28 \times 10^4 \text{mm}^4$ $I_x=152.16 \times 10^4 \text{mm}^4$
 $I_y=8.44 \times 10^4 \text{mm}^4$ $I_y=11.19 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=14.7 \times 10^3 \text{mm}^3$ $Z_x=25.36 \times 10^3 \text{mm}^3$
 $Z_y=5.6 \times 10^3 \text{mm}^3$ $Z_y=7.46 \times 10^3 \text{mm}^3$
Unit Mass — 2.44kg/m 3.21kg/m

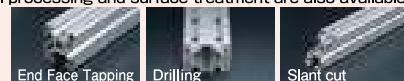


Name	SF-30-90 $\ell = 4000$	SF-30-90 $\ell = 50 \sim 4000$
Item No.	SFF-392-T	SFF-394-T
Name	SF-30-120 $\ell = 4000$	SF-30-120 $\ell = 50 \sim 4000$
Item No.	SFF-312	SFF-314

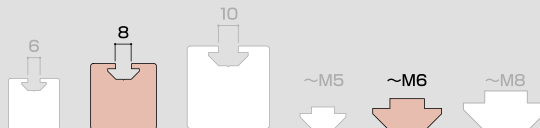
●Exclusive Nut T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P56~

●Exclusive Cap Frame Cap
P79, 80

●Additional processing and surface treatment are also available.



P198~

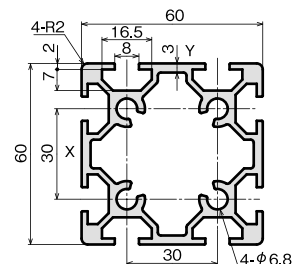


SF-60·60·2S

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=41.38 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=41.38 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=13.79 \times 10^3 \text{mm}^3$ $Z_y=13.79 \times 10^3 \text{mm}^3$
Unit Mass	2.63kg/m

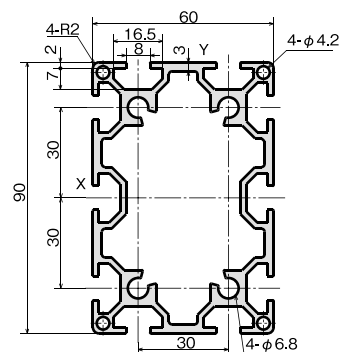


Name	SF-60-60-2S $\ell=4000$	SF-60-60-2S $\ell=50 \sim 4000$
Item No.	SFF-602W-T	SFF-604W-T

SF-60·90



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=111.61 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=52.65 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=24.8 \times 10^3 \text{mm}^3$ $Z_y=17.56 \times 10^3 \text{mm}^3$
Unit Mass	3.10kg/m

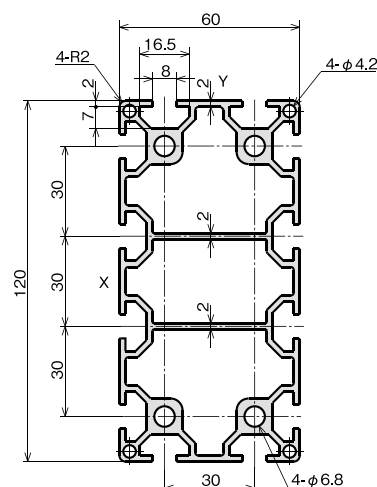


Name	SF-60-90 $\ell=4000$	SF-60-90 $\ell=50 \sim 4000$
Item No.	SFF-692	SFF-694

SF-60·120



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=242.90 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=65.97 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=40.48 \times 10^3 \text{mm}^3$ $Z_y=21.99 \times 10^3 \text{mm}^3$
Unit Mass	4.13kg/m



Name	SF-60-120 $\ell=4000$	SF-60-120 $\ell=50 \sim 4000$
Item No.	SFF-612	SFF-614



SF Frame

Standard ($\ell=4000$) (Cut by customer)Item No. $\ell=4030$ -Effective range of use $\ell=4000$

SFF-602W-T

Quantity (pcs)



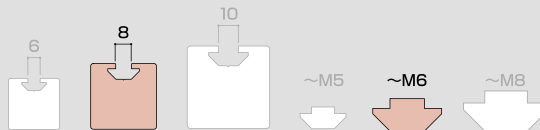
In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit

Item No.

SFF-604W-T

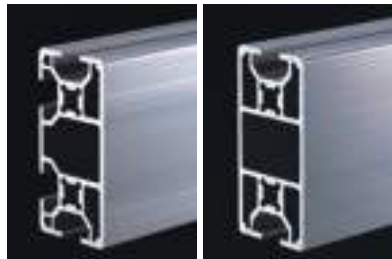
Length (mm)

 $\ell=800$

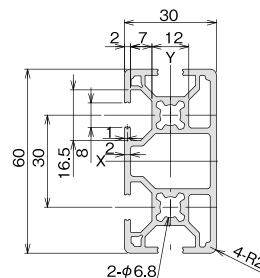


SF2-30-60-1F / SF2-30-60-2H

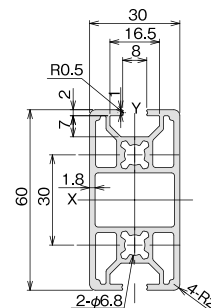
Asia



Material/Technical Data		
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
	SF2-30-60-1F	SF2-30-60-2H
Geometrical	$I_x=20.93 \times 10^{-4} \text{mm}^4$	$I_x=21.21 \times 10^{-4} \text{mm}^4$
Moment of Inertia	$I_y=5.95 \times 10^{-4} \text{mm}^4$	$I_y=6.35 \times 10^{-4} \text{mm}^4$
Section Modulus	$Z_x=6.99 \times 10^{-3} \text{mm}^3$	$Z_x=7.08 \times 10^{-3} \text{mm}^3$
	$Z_y=3.81 \times 10^{-3} \text{mm}^3$	$Z_y=4.23 \times 10^{-3} \text{mm}^3$
Unit Mass	1.55kg/m	1.58kg/m



SF2-30-60-1F



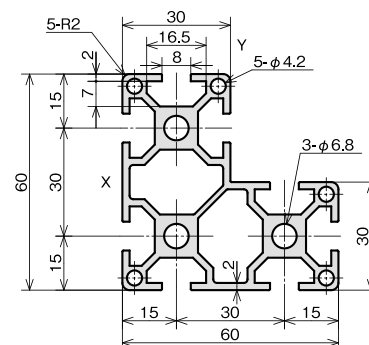
SF2-30-60-2H

Name	SF2-30-60-1F $\ell=4000$	SF2-30-60-1F $\ell=50 \sim 4000$
Item No.	SFF-5E2-T	SFF-5E4-T
Name	SF2-30-60-2H $\ell=4000$	SF2-30-60-2H $\ell=50 \sim 4000$
Item No.	SFF-6H2-T	SFF-6H4-T

SF-30-60-60



Material/Technical Data		
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
Geometrical	$I_x=27.29 \times 10^{-4} \text{mm}^4$	$I_y=27.29 \times 10^{-4} \text{mm}^4$
Moment of Inertia	$Z_x=10.75 \times 10^{-3} \text{mm}^3$	$Z_y=10.75 \times 10^{-3} \text{mm}^3$
Section Modulus	Unit Mass 2.33kg/m	

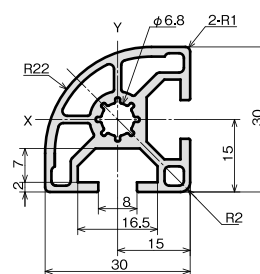


Name	SF-30-60-60 $\ell=4000$	SF-30-60-60 $\ell=50 \sim 4000$
Item No.	SFF-G12	SFF-G14

SF-30-30-R



Material/Technical Data		
Material	Aluminium Alloy Alumite Treatment	
Environment	RoHS Compliant Green Procurement	
Geometrical	$I_x=2.42 \times 10^{-4} \text{mm}^4$	$I_y=2.42 \times 10^{-4} \text{mm}^4$
Moment of Inertia	$Z_x=1.53 \times 10^{-3} \text{mm}^3$	$Z_y=1.53 \times 10^{-3} \text{mm}^3$
Section Modulus	Unit Mass 0.82/m	



SF-30-30-R

Name	SF-30-30-R $\ell=4000$	SF-30-30-R $\ell=50 \sim 4000$
Item No.	SFF-R62	SFF-R64



SF Frame

Standard($\ell=4000$) (Cut by customer)Item No. $\ell=4030$ -Effective range of use $\ell=4000$

SFF-5E2-T

Quantity (pcs)



In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit

Item No. Length (mm)

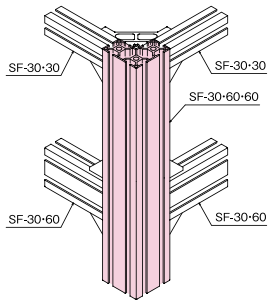
SFF-5E4-T $\ell=800$

Frame for 30 Nut for 30 Bracket for 30 Adjuster for 30 Accessory for 30

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

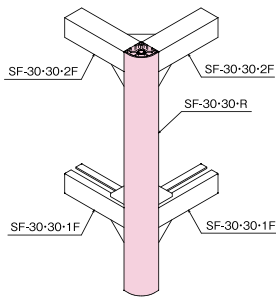
How to use Frames

<SF-30-60-60>



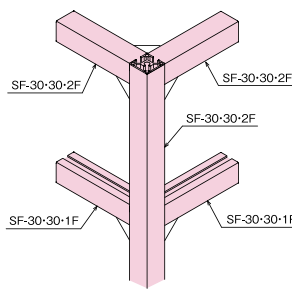
●As the reinforcing Frame at corner, or to ensure space inside.

<SF-30-30-R>



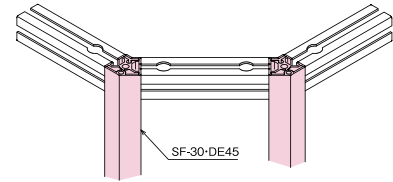
●For safety and beauty by the round corner.

<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>

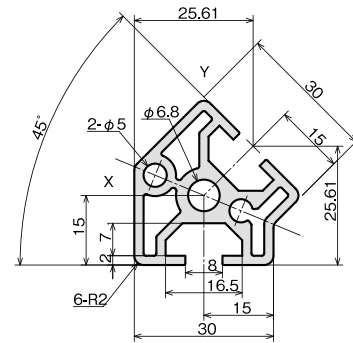


●Many variations to construct angles other than 90°

SF-30-DE45



■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — RoHS Compliant
Green Procurement
Geometrical
Moment of Inertia
 $I_x = 3.21 \times 10^4 \text{ mm}^4$
 $I_y = 3.72 \times 10^4 \text{ mm}^4$
Section Modulus
 $Z_x = 1.56 \times 10^3 \text{ mm}^3$
 $Z_y = 1.86 \times 10^3 \text{ mm}^3$
Unit Mass — 1.08 kg/m

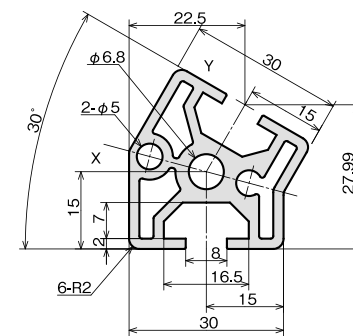


Name	SF-30-DE45 ℓ= 4000	SF-30-DE45 ℓ=50~4000
Item No.	SFF-J62B	SFF-J64B

SF-30-DE30



■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — RoHS Compliant
Green Procurement
Geometrical
Moment of Inertia
 $I_x = 3.15 \times 10^4 \text{ mm}^4$
 $I_y = 3.86 \times 10^4 \text{ mm}^4$
Section Modulus
 $Z_x = 1.58 \times 10^3 \text{ mm}^3$
 $Z_y = 2.00 \times 10^3 \text{ mm}^3$
Unit Mass — 1.11 kg/m

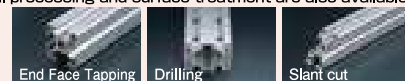


Name	SF-30-DE30 ℓ= 4000	SF-30-DE30 ℓ=50~4000
Item No.	SFF-J62A	SFF-J64A

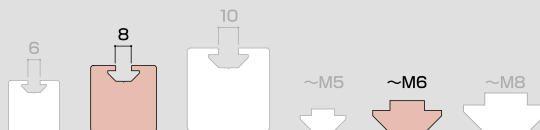
●Exclusive Nut T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P56~

●Exclusive Cap Frame Cap
P79, 80

●Additional processing and surface treatment are also available.



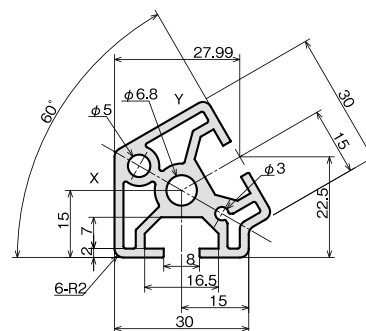
P198~



SF-30·DE60



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 3.33 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 3.70 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 1.67 \times 10^3 \text{ mm}^3$ $Z_y = 1.89 \times 10^3 \text{ mm}^3$
Unit Mass	1.10 kg/m



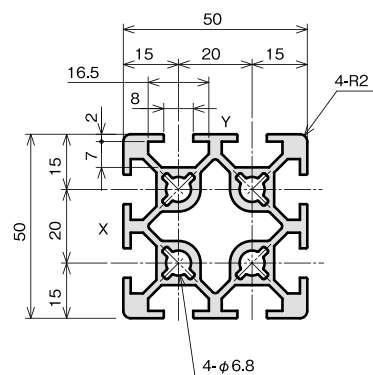
Name	SF-30·DE60 $\ell = 4000$	SF-30·DE60 $\ell = 50 \sim 4000$
Item No.	SFF-J62C	SFF-J64C

SF-50·50·2S

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 21.67 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 21.67 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 8.67 \times 10^3 \text{ mm}^3$ $Z_y = 8.67 \times 10^3 \text{ mm}^3$
Unit Mass	2.32 kg/m



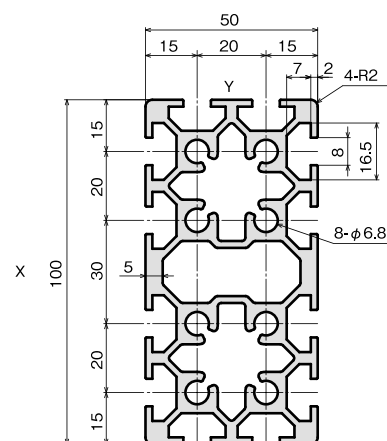
Name	SF-50·50·2S $\ell = 4000$	SF-50·50·2S $\ell = 50 \sim 4000$
Item No.	SFF-502-T	SFF-504-T

SF-50·100·2S

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 153.40 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 42.48 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 30.68 \times 10^3 \text{ mm}^3$ $Z_y = 16.99 \times 10^3 \text{ mm}^3$
Unit Mass	4.28 kg/m



Name	SF-50·100·2S $\ell = 4000$	SF-50·100·2S $\ell = 50 \sim 4000$
Item No.	SFF-512-T	SFF-514-T



SF Frame

Standard ($\ell = 4000$) (Cut by customer)Item No. $\ell = 4030$ -Effective range of use $\ell = 4000$

SFF-J62C

In case of specifying the length (Cut by SUS) ※ Order by 0.1mm unit

Quantity (pcs) Item No. Length (mm)

SFF-J64C $\ell = 800$

Frame for **30** Nut for **30** Bracket for **30** Adjuster for **30** Accessory for **30**

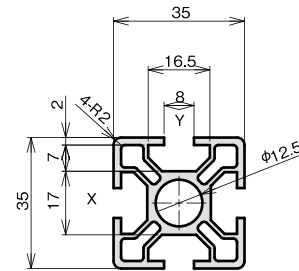
Asia

This sign shows the product is designed for Asia region only

SF-35·35

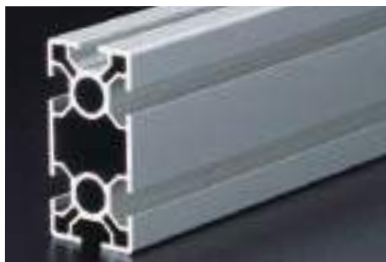


■Material/Technical Data
 Material — Aluminium Alloy
 — Alumite Treatment
 Environment — **RoHS** Compliant
 — **Green** Procurement
 Geometrical
 Moment of Inertia $I_x=5.12 \times 10^4 \text{ mm}^4$
 $I_y=5.12 \times 10^4 \text{ mm}^4$
 Section Modulus $Z_x=2.93 \times 10^3 \text{ mm}^3$
 $Z_y=2.93 \times 10^3 \text{ mm}^3$
 Unit Mass — 1.11 kg/m

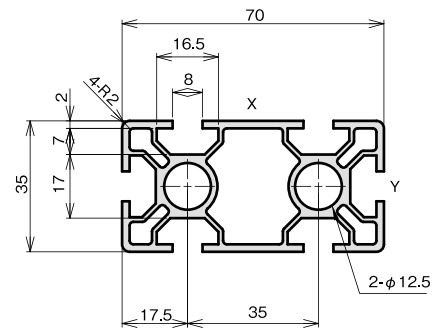


Name	SF-35·35 ℓ= 4000	SF-35·35 ℓ=50~4000
Item No.	SFF-3A2	SFF-3A4

SF-35·70



■Material/Technical Data
 Material — Aluminium Alloy
 — Alumite Treatment
 Environment — **RoHS** Compliant
 — **Green** Procurement
 Geometrical
 Moment of Inertia $I_x=35.09 \times 10^4 \text{ mm}^4$
 $I_y=9.04 \times 10^4 \text{ mm}^4$
 Section Modulus $Z_x=10.03 \times 10^3 \text{ mm}^3$
 $Z_y=5.16 \times 10^3 \text{ mm}^3$
 Unit Mass — 1.80 kg/m



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

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

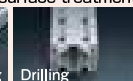
Door · Panel
Clean Equipment

Technical Data

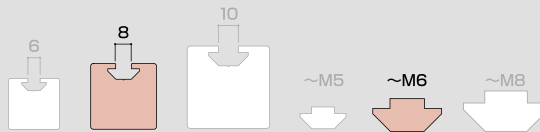
●Exclusive Nut T Nut S
After Nut S
Last-In Lock Nut S
Free Nut S P56~

●Exclusive Cap Frame Cap
P79, 80

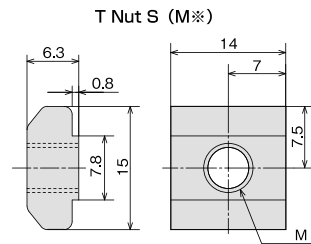
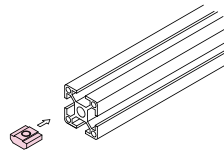
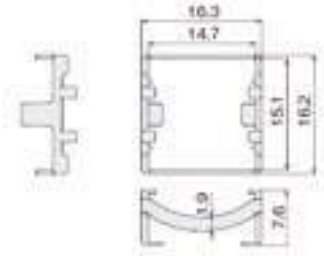
●Additional processing and surface treatment are also available.



P198~

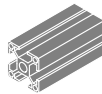


T Nut S (M※)/ Anti-Skid Cap S

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

Name	T Nut S(M6) <ST Nut S (M6)>	T Nut S(M5) <ST Nut S (M5)>	T Nut S(M4) <ST Nut S (M4)>	T Nut S(M3) <ST Nut S (M3)>
Item No.	SFB-002 (SFB-TS6)	SFB-001 (SFB-TS5)	SFB-006 (SFB-TS4)	SFB-005 (SFB-TS3)
Name	Anti-Skid Cap S (50pcs/pack)			
Item No.	SFA-954			

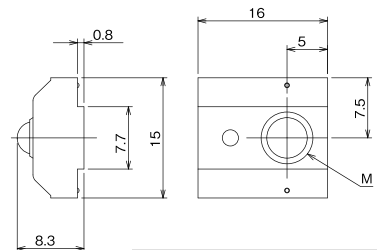
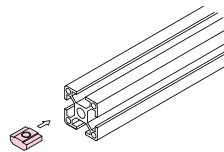
Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

Material/Technical Data

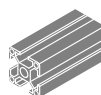
T Nut S	ST Nut S	Anti-Skid Cap S
Material Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	POM
Weight 8g	8g	0.2g/piece
Environment RoHS Compliant	Green Procurement	

ST Nut Stopper S



Name	ST Nut Stopper S (M3)	ST Nut Stopper S (M4)	ST Nut Stopper S (M5)	ST Nut Stopper S (M6)
Item No.	SFN-SS3	SFN-SS4	SFN-SS5	SFN-SS6

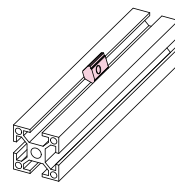
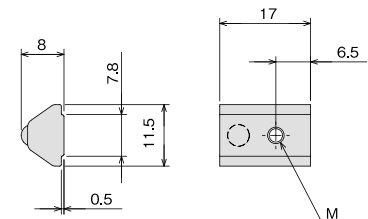
Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

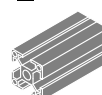
Material/Technical Data

ST Nut Stopper S	ST Nut Stopper S
Material Stainless	Material Stainless
Weight 8.90g (M3) 8.60g (M4) 8.40g (M5) 8.00g (M6)	Weight 8.90g (M3) 8.60g (M4) 8.40g (M5) 8.00g (M6)
Environment RoHS Compliant	Environment RoHS Compliant

Easy Nut S (M※)

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

Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

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

Material/Technical Data

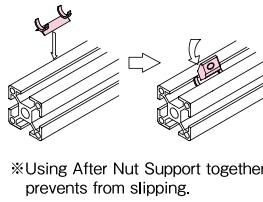
Easy Nut S	S Easy Nut S
Material Equivalent to S10C Uni-Chrome plating	Stainless With Conductive
Weight 6g/piece	
Environment RoHS Compliant	Green Procurement

Parts
How to order
Item No.
SFB-002

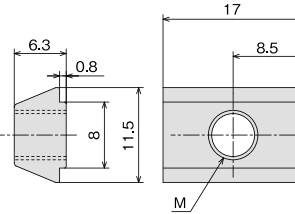
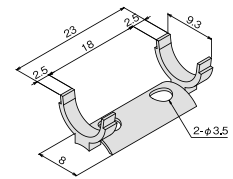
Quantity (pcs)



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



After Nut S (M※)

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

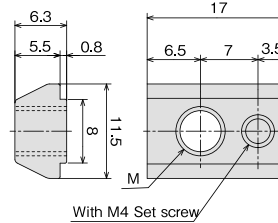
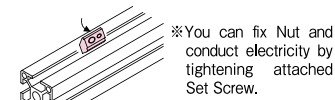
Name	After Nut S (M6) (S After Nut S (M6))	After Nut S (M5) (S After Nut S (M5))	After Nut S (M4) (S After Nut S (M4))	After Nut S (M3) (S After Nut S (M3))
Item No.	SFB-616 (SFN-AS6)	SFB-615 (SFN-AS5)	SFB-614 (SFN-AS4)	SFB-613 (SFN-AS3)
Name	After Nut Support S (50pcs/pack)			
Item No.	SFA-9A2			



■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 Procurement		

Lock Nut S (M※)

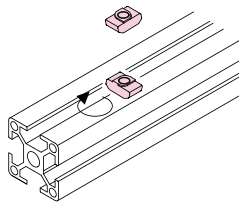


Name	Lock Nut S (M6) (S Lock Nut S (M6))	Lock Nut S (M5) (Lock Nut S (M5))	Lock Nut S (M4) (Lock Nut S (M4))	Lock Nut S (M3) (S Lock Nut S (M3))
Item No.	★SFB-4B6 (★SFWLS6)	★SFB-4B5 (★SFWLS5)	★SFB-4B4 (★SFWLS4)	★SFB-4B3 (★SFWLS3)

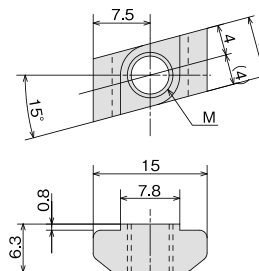
■Usable Frame —
Compatible to all SF30 series
(Groove Width 8mm)

Material/Technical Data		
Lock Nut S	S Lock Nut S	
Material Equivalent to S10C Uni-Chrome	Stainless	
Weight 7g	7g	
Environment ★RoHS Compliant ★Green Procurement		

S Free Nut S (M※)



S Free Nut S (M※)



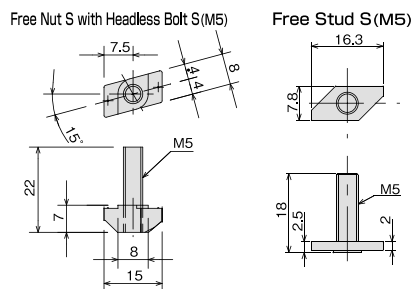
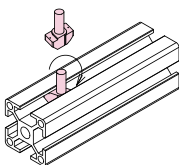
Name	※ 1 S Free Nut S (M6)	S Free Nut S (M5)	S Free Nut S (M4)	S Free Nut S (M3)
Item No.	SFB-S64	SFN-FS5	SFN-FS4	SFN-FS3

■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		

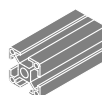
※ 1 No conductive type for S Free Nut S (M6)

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



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

■ Usable Frame



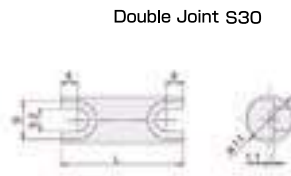
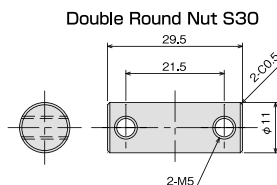
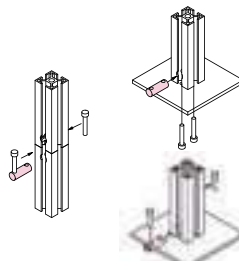
Compatible to all SF30 series
(Groove Width 8mm)

Material/Technical Data

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

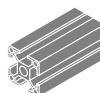
※Tightening Torque is below 1.2N·m for Free Stad S.
(Use Knurling Nut)

Double Round Nut S30/Double Joint S30



Name	Double Round Nut S30	Double Joint S30
Item No.	SFJ-250S	SFJ-311A

■ Usable Frame

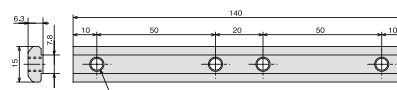
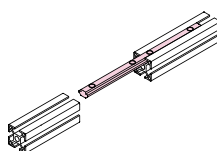


SF-30·30、SF-30·60
SF-30·90、SF-30·120

■Material/Technical Data

Double Round Nut S30	Double Joint S30
Material Stainless	A6005CSS-T5
Weight 19g	4.5g
Environment  RoHS Compliant	
 Green Procurement	

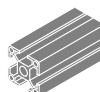
Joint Bar S140



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

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

■ Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

■ Kit Contents

- Joint Bar S140×1
- Set Screw(M6×8)×4

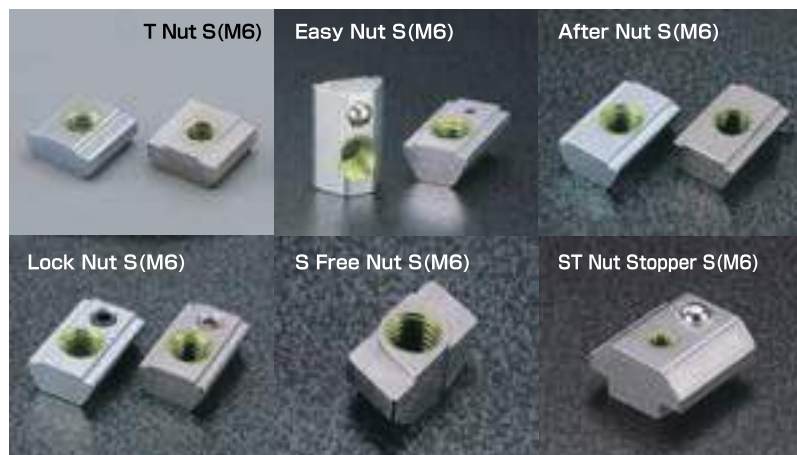
■ Material/Technical Data

Material Equivalent to S10C
Uni-Chrome Plating

Weight 86g

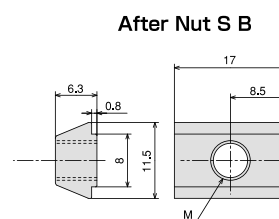
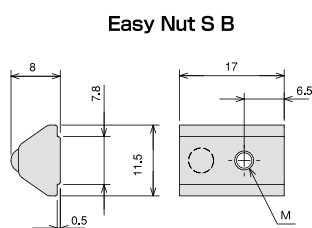
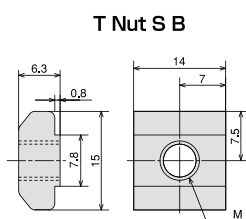
Environment ★RoHS Compliant
★Green Procurement

Loctite Locknut

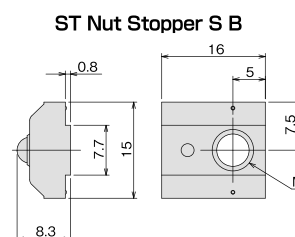
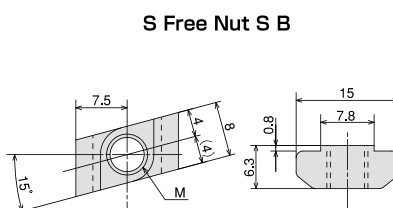
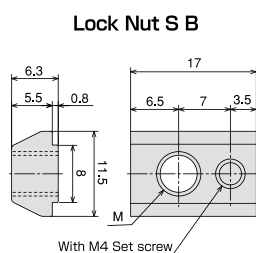


Material/Technical Data			
	T Nut S B	Easy Nut S B	After Nut S B
Material	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function 1.0g(Uni-Chrome Plating) 6g(Stainless)	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function
Weight	8g		7g
	Lock Nut S B	S Free Nut S B	ST Nut Stopper S B
Material	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function	Stainless With Conductive Function	Stainless With Conductive Function
Weight	7g	4g	8g
Environment	RoHS Compliant		

The inner part of the tap is coated with an anti-loosening agent.

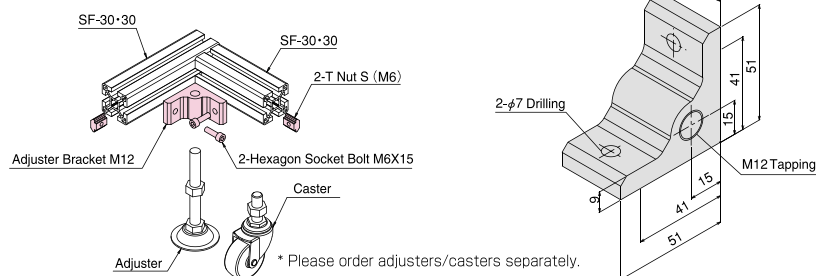


Name	T Nut S(M6)B with Loctite (ST Nut S(M6)B with Loctite)	Easy Nut S(M6)B with Loctite (S Easy Nut S(M6)B with Loctite)	After Nut S(M6)B with Loctite (S After Nut S(M6)B with Loctite)
Item No.	SFB-802 (SFB-803)	SFB-806 (SFB-807)	SFB-810 (SFB-811)

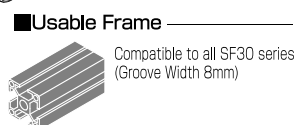


Name	Lock Nut S(M6)B with Loctite (S Lock Nut S(M6)B with Loctite)	S Free Nut S(M6)B with Loctite	ST Nut Stopper S(M6)B with Loctite
Item No.	SFB-814(SFB-815)	SFB-818	SFB-820

Adjuster Bracket M12 S Kit

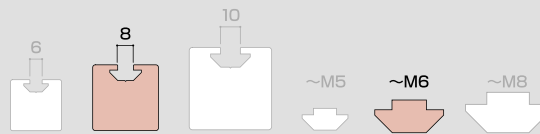


Name(Single Item)	Adjuster Bracket M12 S Kit
Item No.	SFK-7E1

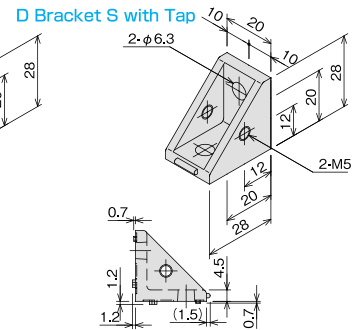
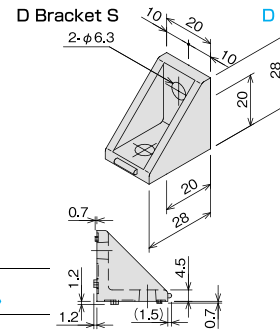
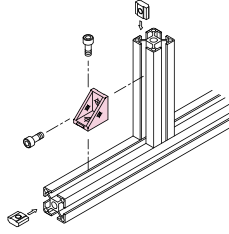


● Adjuster Bracket M12 x1
● T Nut S (M6)x2
● Hexagon Socket Bolt (M6x15)x2

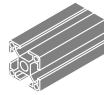
Material/Technical Data
Material Aluminum Extrusion
 Alumite Treatment
Weight 107g
Environment RoHS Compliant



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
P80

■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.

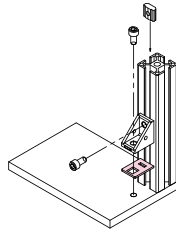
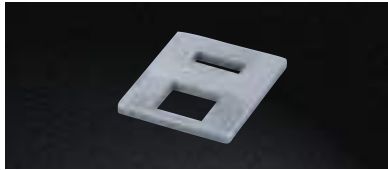
■Material/Technical Data

Material Aluminum Die-Cast (ADC12)
(CN/Electroless Nickel Plating)
With Anti-Skid Function

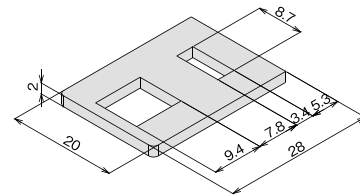
Weight 13g

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)



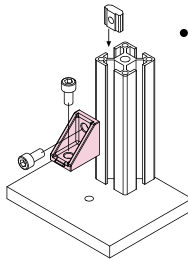
■Material/Technical Data

Material Stainless

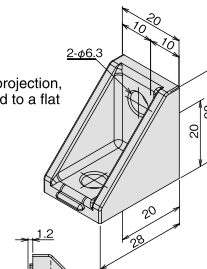
Weight 8g

Environment ★RoHS Compliant
★Green Procurement

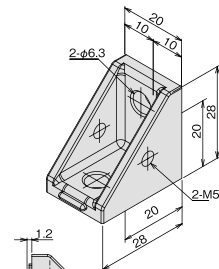
D Bracket Flat S



- Since there is no projection,
it can be flush fitted to a flat
surface



There is no projection
for this part.



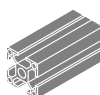
There is no projection
for this part.

Name(Single Item)	D Bracket Flat S (D Bracket Flat S with Tap)	
Item No.	SFJ-039(SFJ-040)	

Name(Single Item)	D Bracket Flat S Kit (D Bracket Flat S with Tap Kit)	D Bracket Flat S Kit (Stainless) (D Bracket Flat S with Tap Kit (Stainless))
Item No.	SFK-039(SFK-040)	SFK-039S(SFK-040S)

■Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)



■Kit Contents

- D Bracket Flat S (or with Tap) × 1
- Hexagon Socket Bolt M6×12 (Trivalent Chromate) × 2
- T Nut S (M6) × 2
- ※ Bolt and Nut in (Stainless)
Kit are stainless.

■Material/Technical Data

Material Aluminum Die-Cast (ADC12)

Weight 28g (D Bracket Flat S)

27g (D Bracket Flat S with Tap)

Environment RoHS Compliant

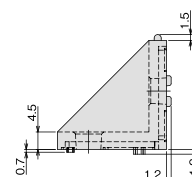
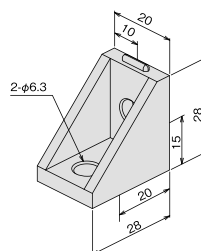
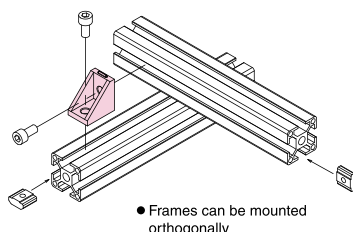


Parts
How to order
Item No.
SFJ-018

Quantity (pcs)



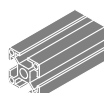
D Bracket Cross S



Name(Single Item)	D Bracket Cross S	
Item No.	SFJ-045	

Name(Single Item)	D Bracket Cross S Kit	D Bracket Cross S Kit (Stainless)
Item No.	SFK-045	SFK-045S

■ Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

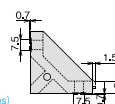
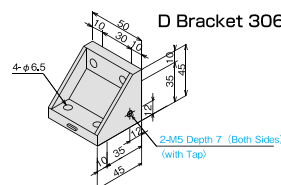
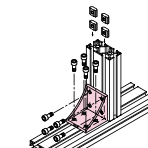
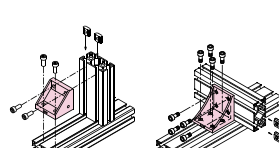
■ Kit Contents

- D Bracket Cross S×1
 - Hexagon Socket Bolt M6×12 (Trivalent Chromate)×2
 - T Nut S(M6)×2
 - ※ Bolt and Nut in (Stainless)
- Kit are stainless

■ Material/Technical Data

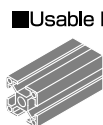
Material Aluminum Die-Cast (ADC12)
Weight 1.4g (D Bracket Cross S)
Environment RoHS Compliant

D Bracket 3060 / D Bracket S3060



Name(Single Item)	D Bracket 3060 (D Bracket 3060 with Tap)		D Bracket S3060 (D Bracket S 3060 with Tap)	
Item No.	SFJ-Q21 (SFJ-Q21T)		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-Q21 (SFK-Q21T)	SFK-Q21S (SFK-Q21P)	SFK-A13 (SFK-A13T)	SFK-A13S (SFK-A13P)

Name(Single Item)	D Bracket 3060-CN
Item No.	SFJ-021N
Name(Bolt and Nut Kit)	D Bracket 3060-CN Kit
Item No.	SFK-021N



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

■ Usable Frame

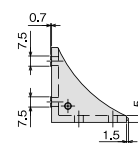
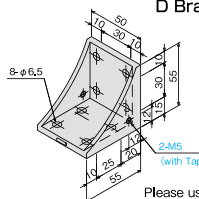
■ Kit Contents:

- <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

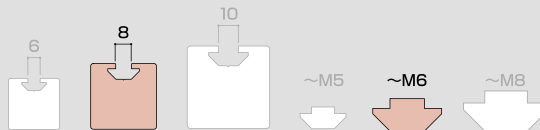
※Bolt and Nut in CN· (Stainless) Kit are stainless.

Material/Technical Data

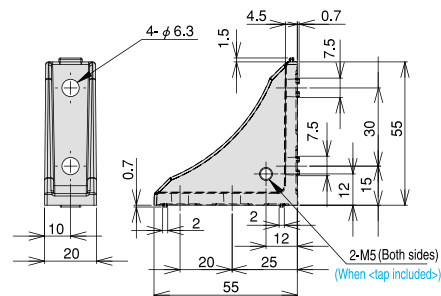
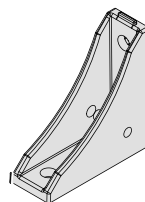
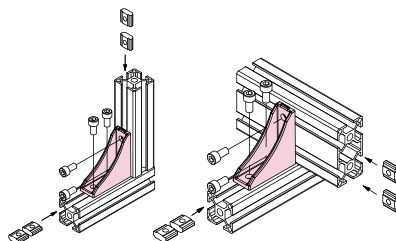
	D Bracket 3060	D Bracket S3060
Material	Aluminum Die-Cast(ADC12) (CN/Electroless Nickel Plating)	
Weight	With Anti-Skid Function 100g	65g
Environment	★RoHS Compliant ★Green Procurement	



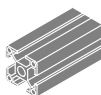
Please use Kit with Tap to install Side Cover. (P81)



D Bracket SW



Name(Single Item)	D Bracket SW (D Bracket SW with Tap)	
Item No.	SFJ-024 (SFJ-024T)	
Name(Bolt and Nut Kit)	D Bracket SW Kit (D Bracket SW with Tap Kit)	D Bracket SW Kit (Stainless) (D Bracket SW with Tap Kit (Stainless))
Item No.	SFK-024 (SFK-024T)	SFK-024S (SFK-024P)



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

■Kit Contents

- D Bracket SW (or with Tap) × 1
- Hexagon Socket Bolt (M6×12) × 4
- T Nut S(M6) × 4

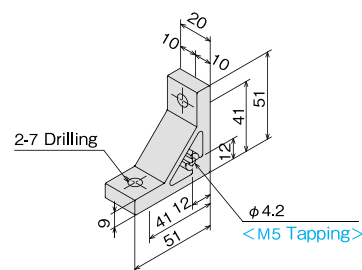
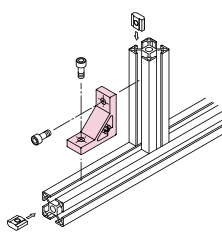
*Bolt and Nut in (Stainless) Kit are stainless.

*When mounting the side cover <with tap>, please use a truss head screw M5×6 (if panel: t=3), or truss head screw M5×8 (if panel: t=5).

■Material/Technical Data

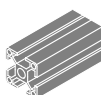
Material Aluminum Die-Cast (ADC12)
With Rotation-Prevention Function
Weight 40g
Environment RoHS Compliant

Hard Bracket S



Please use Kit with Tap to install Side Cover. (Refer P81 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

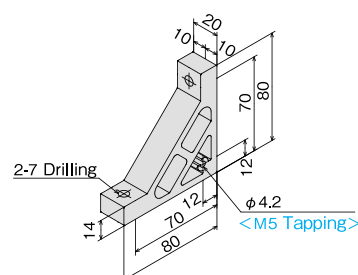
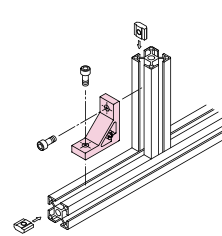
- Hard Bracket S (or with Tap) × 1
- Hexagon Socket Bolt (M6×15) × 2
- T Nut S(M6) × 2

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

■Material/Technical Data

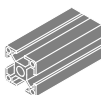
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
44g
Weight RoHS Compliant
Environment Green Procurement

Hard Bracket SG



Please use Kit with Tap to install Side Cover. (Refer P81 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



Parts
How to order
Item No.
SFJ-024

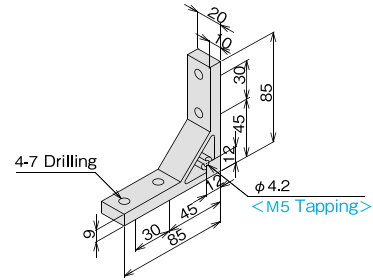
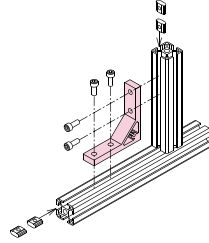
Quantity (pcs)



●Cap for Bracket
P80

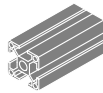


Hard Bracket SW3030



Please use Kit with Tap to install Side Cover. (Refer P81 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)

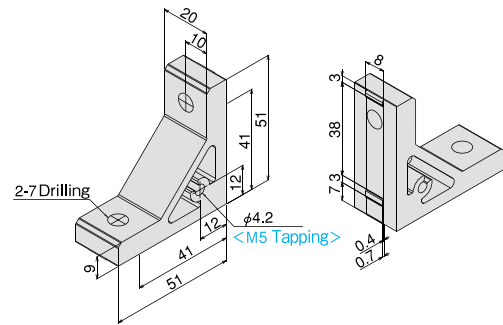
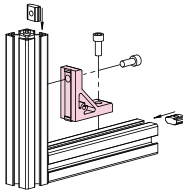
Kit Contents

- 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

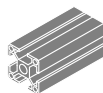
Material Aluminium Alloy
Alumite Treatment
Weight 76g
Environment **RoHS** Compliant
Green Procurement

Hard Bracket with Stopper S



Please use Kit with Tap to install Side Cover. (Refer P81 for details.)

Name(Single Item)	Hard Bracket with Stopper S (Hard Bracket with Stopper S with Tap)	
Item No.	SFJ-N61 (SFJ-N61T)	
Name(Bolt and Nut Kit)	Hard Bracket with Stopper S Kit (Hard Bracket with Stopper S with Tap Kit)	Hard Bracket with Stopper S Kit (Stainless) (Hard Bracket with Stopper S with Tap Kit (Stainless))
Item No.	SFK-N61 (SFK-N61T)	SFK-N61S (SFK-N61P)



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

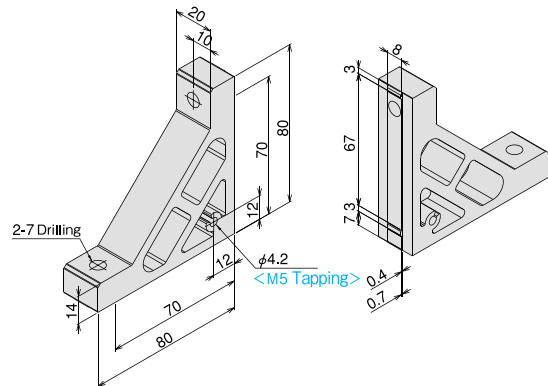
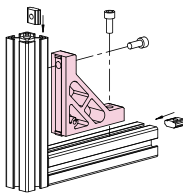
Kit Contents

- Hard Bracket with Stopper 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

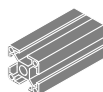
Material A6N01SS-T5
Alumite Treatment
Perpendicular surface is machining finished.
With Rotation-Prevention Function
Weight 45g
Environment **RoHS** Compliant

Hard Bracket with Stopper SG



Please use Kit with Tap to install Side Cover. (Refer P81 for details.)

Name(Single Item)	Hard Bracket with Stopper SG (Hard Bracket with Stopper SG with Tap)	
Item No.	SFJ-N62 (SFJ-N62T)	
Name(Bolt and Nut Kit)	Hard Bracket with Stopper SG Kit (Hard Bracket with Stopper SG with Tap Kit)	Hard Bracket with Stopper SG Kit (Stainless) (Hard Bracket with Stopper SG with Tap Kit (Stainless))
Item No.	SFK-N62 (SFK-N62T)	SFK-N62S (SFK-N62P)



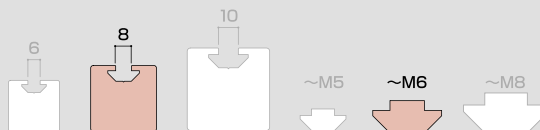
■Usable Frame
Compatible to all SF30 series
(Groove Width 8mm)

Kit Contents

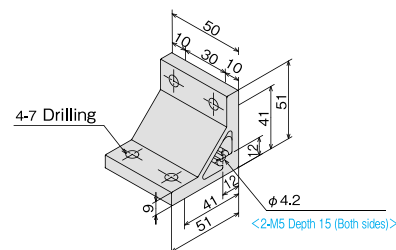
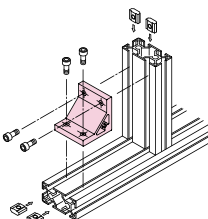
- Hard Bracket with Stopper SG (or with Tap) × 1
- Hexagon Socket Bolt (M6×22) × 2
- T Nut S (M6) × 2
- ※ Bolt and Nut in (Stainless)
Kit are stainless.

Material/Technical Data

Material A6N01SS-T5
Alumite Treatment
Perpendicular surface is machining finished.
With Rotation-Prevention Function
Weight 105g
Environment **RoHS** Compliant

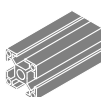


Hard Bracket S3060



Please use Kit with Tap to install Side Cover. (Refer P81 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)

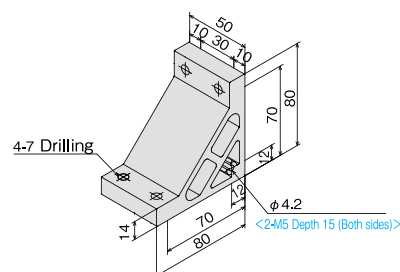
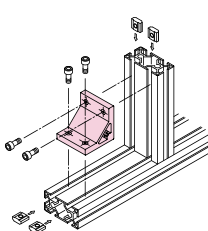


■Usable Frame —
SF-30-60/1F
SF-60-60-2S/1F/2F
SF-60-90/60-120

■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.

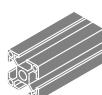
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 111g
Environment RoHS Compliant
Green Procurement

Hard Bracket SG3060



Please use Kit with Tap to install Side Cover. (Refer P81 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)

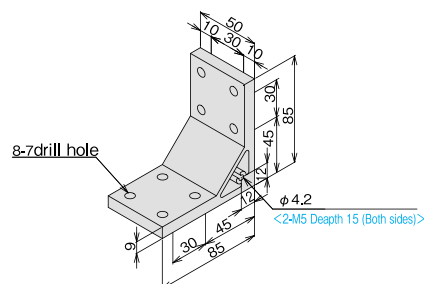
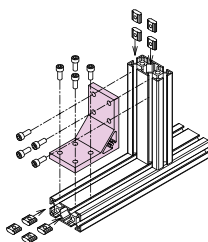


■Usable Frame —
SF-30-60/1F
SF-60-60-2S/1F/2F
SF-60-90/60-120

■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.

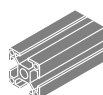
■Material/Technical Data
Material Aluminium Alloy
Alumite Treatment
Perpendicular surface is machining finished.
Weight 256g
Environment RoHS Compliant
Green Procurement

Hard Bracket SW3060



Please use Kit with Tap to install Side Cover. (Refer P81 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



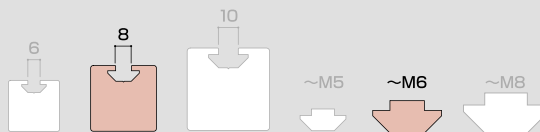
Parts
How to order
Item No.
SFJ-N04

Quantity (pcs)

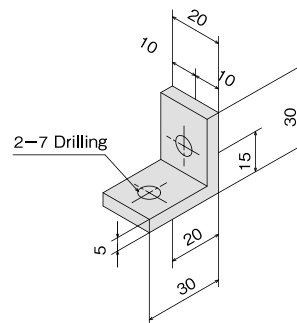
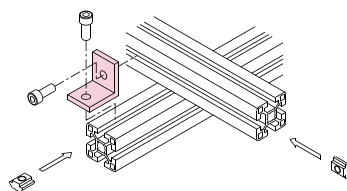


●Cap for Bracket
P80

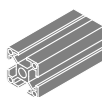




Angle Bracket S



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)

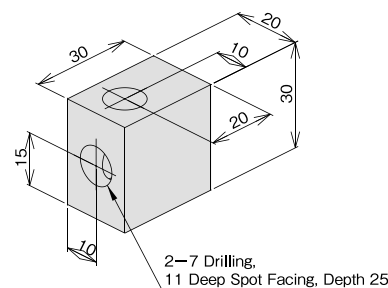
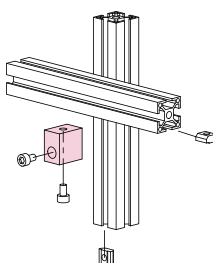
■Kit Contents

- Angle Bracket Hard S×1
 - Hexagon Socket Bolt(M6×12)×2
 - T Nut S(M6)×2
- ※Bolt and Nut in (Stainless)
Kit are stainless.

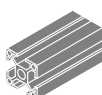
■Material/Technical Data

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)

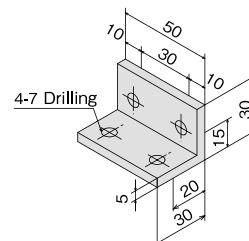
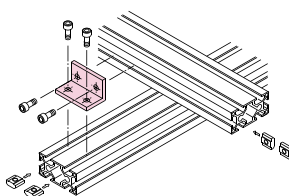
■Kit Contents

- Angle Bracket Hard S×1
 - Hexagon Socket Bolt(M6×12)×2
 - T Nut S(M6)×2
- ※Bolt and Nut in (Stainless)
Kit are stainless.

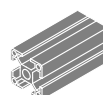
■Material/Technical Data

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
Weight 35g
Environment ★RoHS Compliant
★Green Procurement



Parts
How to order
Item No.
SFJ-A03

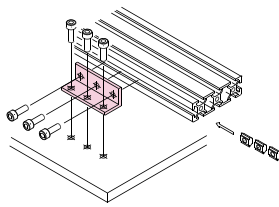
Quantity (pcs)



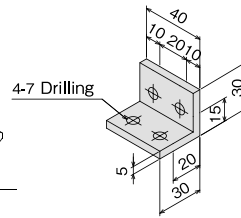
●Cap for Bracket
P80



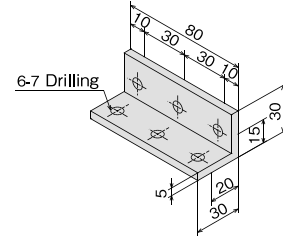
Angle Bracket S50 / S3090



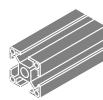
Angle Bracket S50



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).

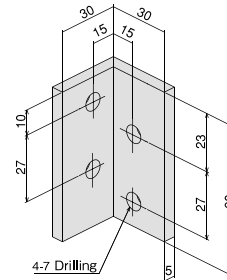
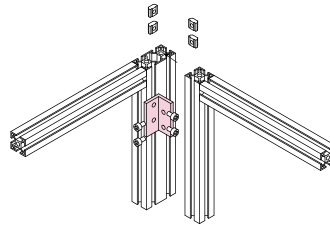
Kit Contents

- <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

Offset Bracket S3060



Name(Single Item)	Offset Bracket S3060
Item No.	SFJ-A21
Name(Bolt and Nut Kit)	Offset Bracket S3060 Kit (Offset Bracket S3060 (Stainless) Kit)
Item No.	SFK-A21 (SFK-A21S)

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

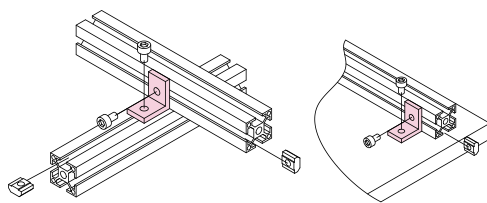
- Offset Bracket S3060×1
 ● Hexagon Socket Bolt (M6×12)×4
 ● T Nut S (M6)×4
 *Bolt and Nut in (Stainless)
 Kit are stainless.

Material/Technical Data

Material A6063
 Alumite Treatment
 (Special order: Black Alumite is also available.)
 Weight 42g
 Environment **RoHS** Compliant

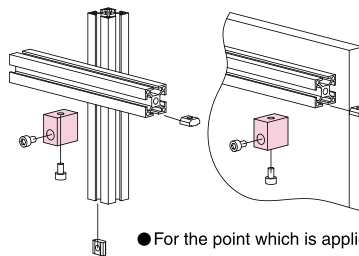
How to use Angle Bracket · Angle Bracket Hard · Offset Bracket S3060

Angle Bracket



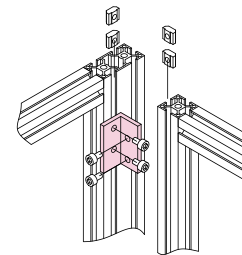
● For cross joint of frames and base fixing

Angle Bracket Hard



● For the point which is applied vertical load

Offset Bracket S3060

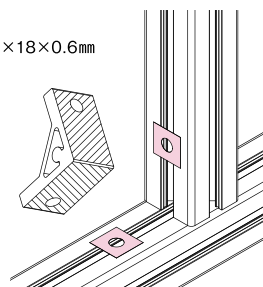


● To assemble from surface

Friction Sheet M6 with Case (50pcs/Set)



Dimension : 18×18×0.6mm



Name	Friction Sheet M6 with Case (50pcs/Set)
Item No.	SFA-M02

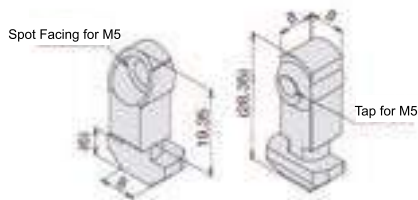
Material/Technical Data

Dimension Sheet : 18×18×0.6mm
 Case : 52×43×15mm
 Material Sheet : Urethane Resin
 Case : ABS
 Weight Sheet : 0.02g/pcs
 Case : 20.3g
 Environment **RoHS** Compliant

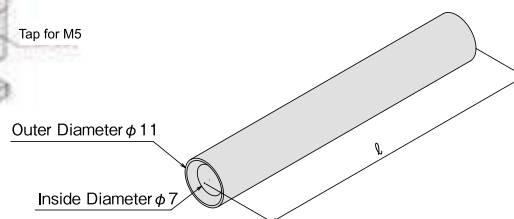
QC Joint S



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-Q30A	SFK-Q31A	SFK-Q32A	SFK-Q33A	SFK-Q34A	SFK-Q35A

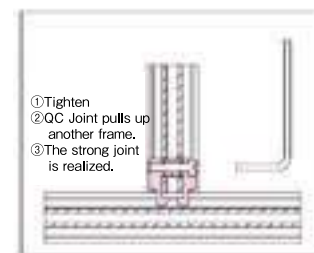
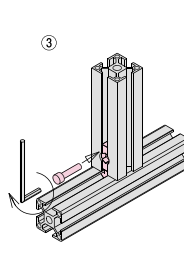
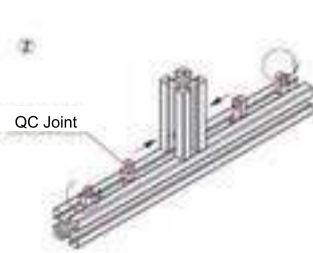
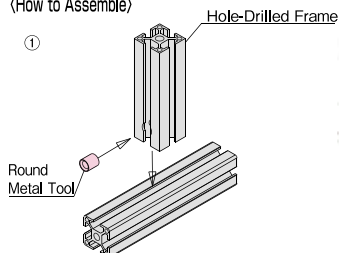
Kit contents	Kit Name	QC Joint	Round metal tool	Bolt
	QC Joint S Kit	QC Joint Sx1Set	Round metal tool S30x1	Hexagon Socket Bolt (M5x22) Stainlessx1
	QC Joint S50 Kit		Round metal tool S50x1	Hexagon Socket Bolt (M5x40) Stainlessx1
	QC Joint S60 Kit		Round metal tool S60x1	Hexagon Socket Bolt (M5x50) Stainlessx1
	QC Joint S90 Kit		Round metal tool S90x1	Hexagon Socket Bolt (M5x80) Stainlessx1
	QC Joint S100 Kit		Round metal tool S100x1	Hexagon Socket Bolt (M5x90) Stainlessx1
	QC Joint S120 Kit		Round metal tool S120x1	Hexagon Socket Bolt (M5x110)Stainlessx1

Material/Technical Data						
	QC Joint S			Round metal tool S		
Material	Aluminum Die-Cast			Aluminium Alloy		
Weight	S Kit	\$50 Kit	\$60 Kit	\$90 Kit	\$100 Kit	\$120 Kit
Environment	15g	20g	23g	32g	35g	42g
	RoHS Compliant			Green Procurement		

QC Joint S

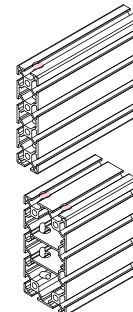
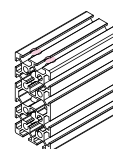
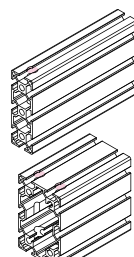
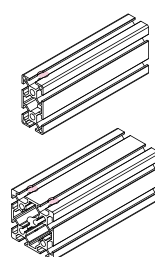
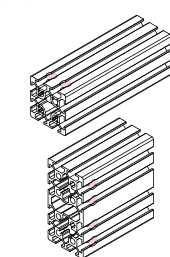
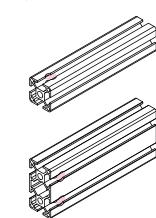
(Characteristics) It's easy to set vertically and hardly make gap, because 2 frames are pulled at each other to combine. Also, you don't have to let nuts into frame in advance, and strong fixing is possible by one bolt, so the assembly man-hour is reduced.

<How to Assemble>



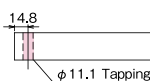
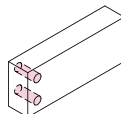
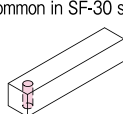
〈Example of Kit Selection〉

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



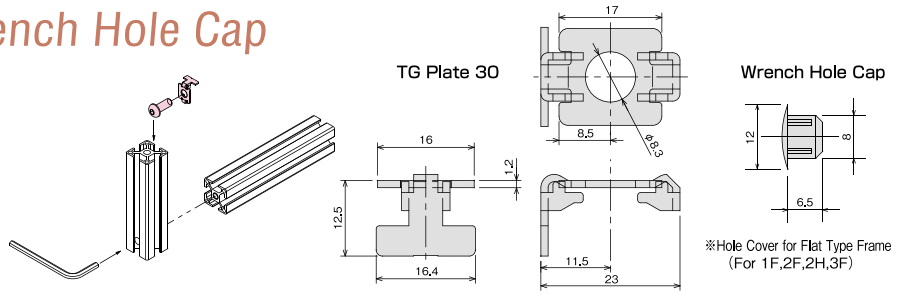
〈Drilling〉

Common in SF-30 series



●Drillid by SUS
Processing Symbol P202~

TG Joint Kit 30 / Wrench Hole Cap



Name	TG Joint Kit 30	Name	Wrench Hole Cap
Item No.	*SFK-206	Item No.	*SFA-155

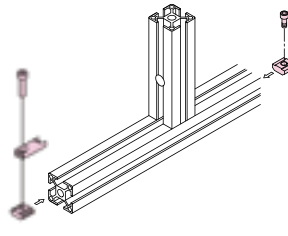
Usable Frame
SF-30-30/1F/2F/2H/3F
SF-30-60/1F/2H
SF-30-90
SF-60-60-2S/1F/2F

- Kit Contents**
- TG Plate 30x1
 - Hexagon Socket Button Bolt (M8x20)x1

Material/Technical Data

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

Double Joint Kit



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).

- Kit Contents**
- Double Joint S30x1
 - T Nut S(M5)x2
 - Hexagon Socket Bolt (M5x22)Stainlessx2

View A

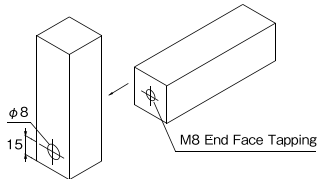
Material/Technical Data

Material A6005CSS-T5
Weight 27g
Environment RoHS Compliant
Green Procurement

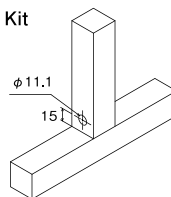
Name	Double Joint Kit S30
Item No.	SFK-311A

TG Joint · Double Joint · KF Joint

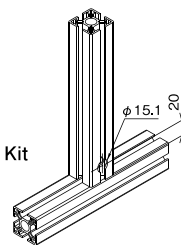
● TG Joint Kit



● Double Joint Kit



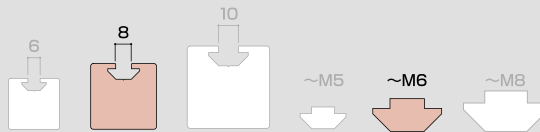
● KF Joint Kit



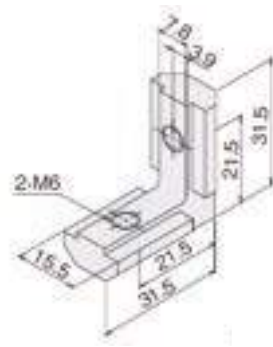
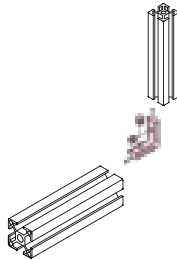
TG, Double Joint, KF Joint are easy to set vertically and hardly make gap, because 2 frames are pulled each other.
Also, it looks clear because the joint part doesn't bulge outside.

GO ●How to assemble. Refer P188~

GO ●Drillid by SUS Processing Symbol P202~

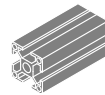


Blind Bracket S



Name	Blind Bracket S
Item No.	SFK-621A

Usable Frame



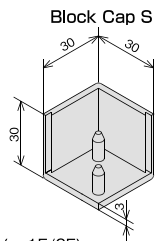
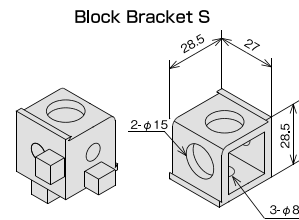
Compatible to all SF30 series
(Groove Width 8mm)

Material/Technical Data

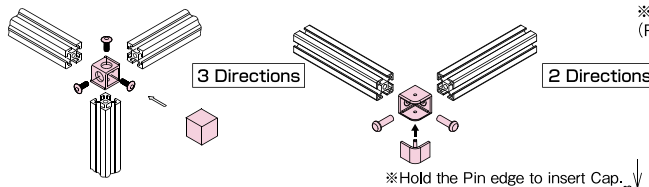
Material Aluminum Die-Cast
Weight 14.8g
Environment **RoHS** Compliant
Green Procurement

2 Set Screws M6×8 Stainless Included.

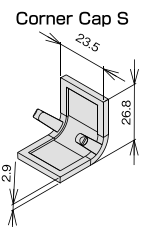
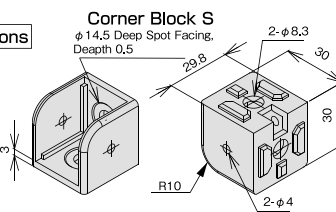
Block Bracket S Kit / Corner Block S Kit



※M8 Tapping is needed to the section of SF30-30 (or 1F/2F).
(Refer P199 ~ for details.)

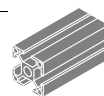


※Hold the Pin edge to insert Cap.



※M8 Tapping is needed to the section of SF30-30 (or 1F/2F).
(Refer P199 ~ for details.)
※Corner block S Kit is installable by Tapping Bolt as well.

Usable Frame



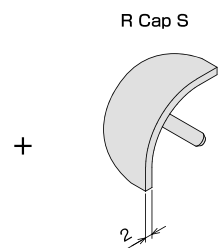
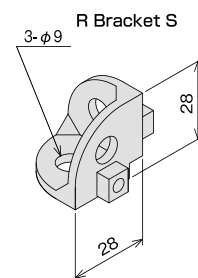
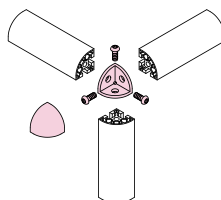
(Block Bracket S Kit)
SF-30-30(Included 1F/2F)
(Corner Block S Kit)
SF-30-30(1F/2F/3F/2H)

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	

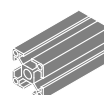
※1 3 Hexagon Socket Button Bolt M8×25 Included,
※2 2 Hexagon Socket Button Bolt M8×25 Included.

R Bracket S Kit



※M8 Tapping is needed to the section of SF30-30-R.
(Refer P199 ~ for details.)

Usable Frame



SF-30-30-R

Material/Technical Data

R Bracket S Kit^{*}
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.

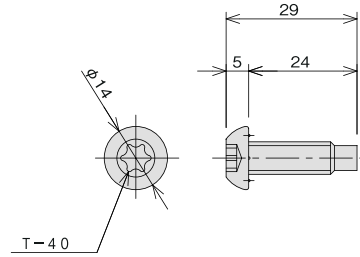
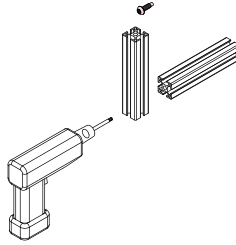


Parts
How to order
Item No.
SFK-601S

Quantity (pcs)

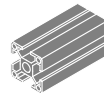


Tapping Bolt S



Name	Tapping Bolt S
Item No.	SFB-T30

Usable Frame



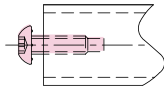
SF-30-30(1F/2F/3F/2H)
SF-30-60(1F)
SF-30-90/30-120
SF-60-60-2S(1F/2F)

Material/Technical Data

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

How to fix Tapping Bolt

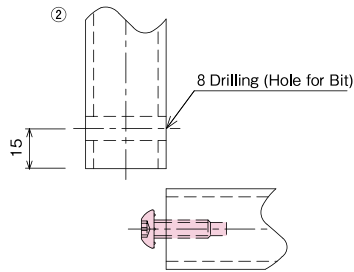
①



Fix the frame with jig etc, and screw the Tapping Bolt halfway into the end face. (Temporary joint)

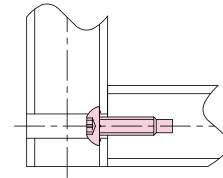
* In case it's too tight, please use cutting oil.

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.



●Drillid by SUS
Processing Symbol P202~

SF20
SS Size

SF30
S Size

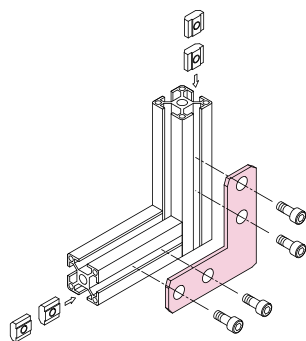
SF40-45
L Size

Complex Parts

Door・Panel
Clean Equipment

Technical Data

Plate Bracket S



S Plate Bracket SG

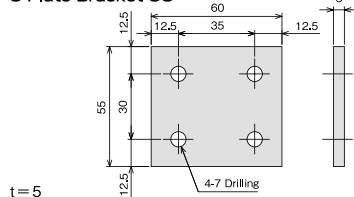
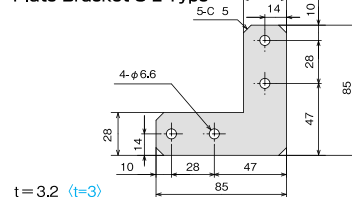
 $t=5$

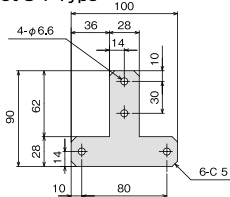
Plate Bracket S-L Type



$t = 3.2$ $\langle t = 3 \rangle$

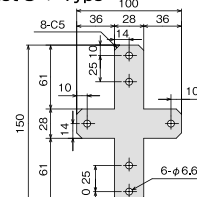
Name	S Plate Bracket SG	S Plate Bracket SG Kit	Plate Bracket S-L Type (S Plate Bracket S-L Type)	Plate Bracket S-L Type Kit (S Plate Bracket S-L Type Kit)
Item No.	SFJ-122S	SFK-122S	SFJ-104 (SFJ-104S)	SFK-104 (SFK-104S)
Kit contents	● Plate Bracket SG×1 ● Hexagon Socket Bolt (M6×12)Stainless×4 ● ST Nut S (M6)×4		● Plate Bracket S-L×1 ● Hexagon Socket Bolt (M6×10)×4 ● T Nut S (M6)×4	

Plate Bracket S-T Type



t=3.2 $\langle t=3 \rangle$

Plate Bracket S-+ Type



t=3.2 $\langle t=3 \rangle$

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-Tx1 ● Hexagon Socket Bolt (M6×10)×4 ● T Nut S (M6)×4	● S Plate Bracket S-Tx1 ● Hexagon Socket Bolt (M6×10)Stainlessx4 ● ST Nut S (M6)×4	● Plate Bracket S-+x1 ● Hexagon Socket Bolt (M6×10)×6 ● T Nut S (M6)×6	● S Plate Bracket S-+x1 ● Hexagon Socket Bolt (M6×10)Stainlessx6 ● ST Nut S (M6)×6

Plate Bracket S-H2

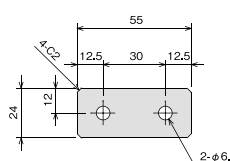
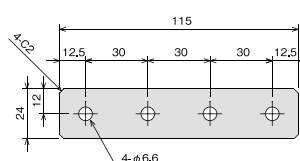
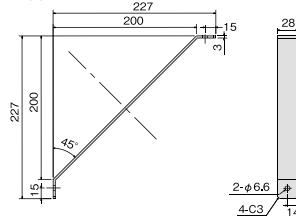
 $t=3$

Plate Bracket S-H4

 $t=3$

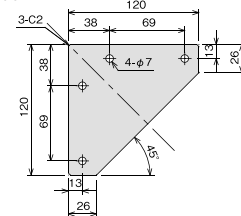
Name	Plate Bracket S-H2	Plate Bracket S-H2 Kit	Plate Bracket S-H4	Plate Bracket S-H4 Kit
Item No.	SFJ-125S	SFK-125S	SFJ-129S	SFK-129S
Kit contents	●Plate Bracket S-H2×1 ●Hexagon Socket Bolt (M6×10) Stainless×2 ●ST Nut S (M6)×2		●Plate Bracket S-H4×1 ●Hexagon Socket Bolt (M6×10) Stainless×4 ●ST Nut S (M6)×4	

Corner Support Bracket S



t=3

Corner Support Plate S

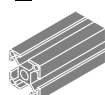
 $t=2$

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 S-G	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-T	145	SPCC Uni-Chrome	
S Plate Bracket S-T	135	SUS304	
Plate Bracket S-H2	29.6	SUS304	
Plate Bracket S-H4	29.6	SUS304	
Corner Reinforced Bracket S	200	SUS304	
Corner Reinforced Plate S	155.8	SUS304	

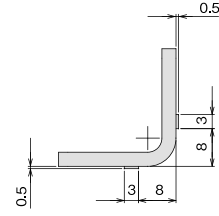
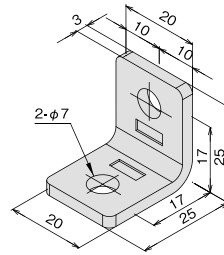
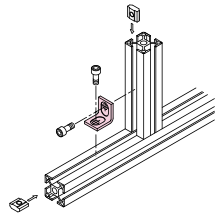
■ Usable Frame



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).

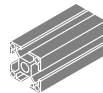
Frame for 30	Nut for 30	Bracket for 30	Adjuster for 30	Accessory for 30
------------------------	----------------------	--------------------------	---------------------------	----------------------------

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)

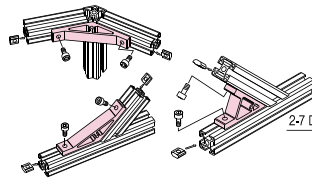
Kit Contents

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

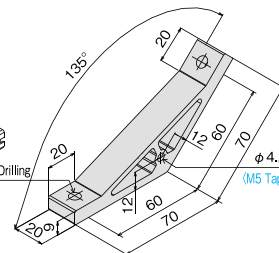
Material/Technical Data

Material SUS304
Weight 18g
Environ **RoHS** Compliant
Green Procurement

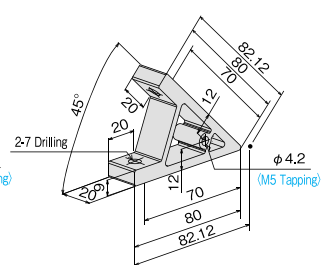
Hard Bracket S·DE



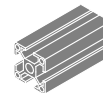
Hard Bracket S · DE135



Hard Bracket S · DE45



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·DE45 Kit (S·DE45 Kit with Tap)
Item No.	SFK-N33(SFK-N33T)	SFK-N34(SFK-N34T)



Usable Frame
SF30·DE45·SF35 Series
45° slant cut frame
(Refer P198)

Kit Contents

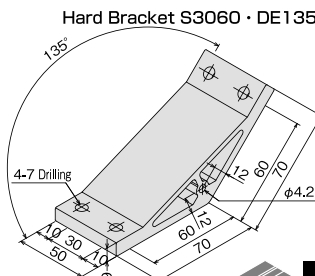
- Hard Bracket S·DE135 Kit
- Hard Bracket S·DE135 (or with Tap)×1
 - Hexagon Socket Bolt (M6×15)×2
 - T Nut S(M6)×2
- Hard Bracket S·DE45 Kit
- Hard Bracket S·DE45 (or with Tap)×1
 - Hexagon Socket Bolt (M6×15)×2
 - T Nut S(M6)×2
- *Bolt and Nut in (Stainless)
Kit are stainless.

Please use Kit with Tap to install
Side Cover. (Refer P81 for details.)

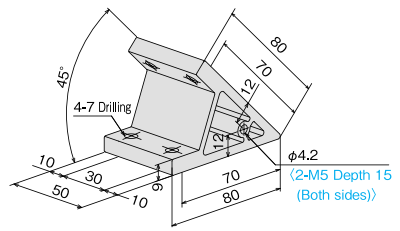
Material/Technical Data

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

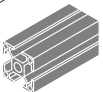
Hard Bracket SS3060·DE



Hard Bracket SS3060 · DE45



Name(Single Item)	Hard Bracket SS3060·DE135	Hard Bracket SS3060·DE45 (Hard Bracket SS3060·DE45 with Tap)
Item No.	SFJ-N40	SFJ-N39(SFJ-N39T)
Name(Bolt and Nut Kit)	S3060-DE135 Kit	S3060-DE45 Kit (S3060-DE45 Kit with Tap)
Item No.	SFK-N40	SFK-N39(SFK-N39T)



Usable Frame
SF-30-60/60-60-2S/
60-90/60-120Series
45° slant cut frame (Refer
P198)

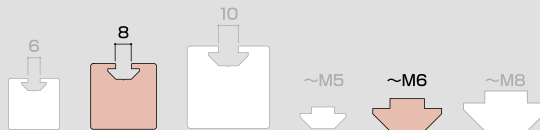
Kit Contents

- Hard Bracket SS3060·DE135 Kit
- Hard Bracket SS3060·DE135 ×1
 - Hexagon Socket Bolt (M6×15)×4
 - T Nut S(M6)×4
- Hard Bracket SS3060·DE45 Kit
- Hard Bracket SS3060·DE45 (or with Tap)×1
 - Hexagon Socket Bolt (M6×15)×4
 - T Nut S(M6)×4
- *Bolt and Nut in (Stainless)
Kit are stainless.

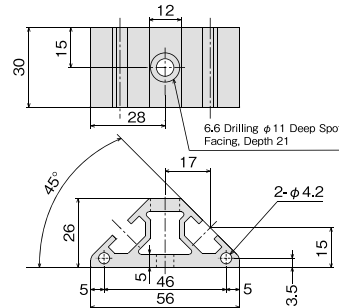
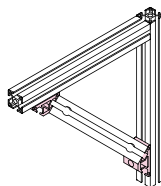
Please use Kit with Tap to install
Side Cover. (Refer P81 for details.)

Material/Technical Data

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



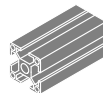
Truss Joint S



※Groove size is as same as SF-30-30

Name(Single Item)	Truss Joint S
Item No.	SFJ-J02

Usable Frame

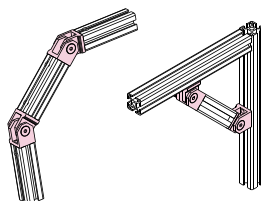


(Frame to reinforce)
SF-30-30
(Frame to combine)
SF-30-40/45 series installable

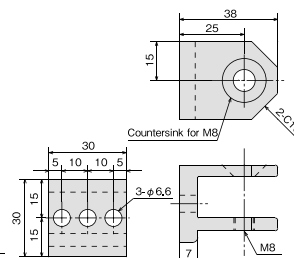
Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
37g
Weight **RoHS** Compliant
Environment **Green** Procurement

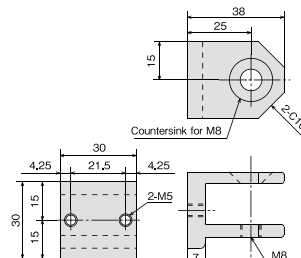
Turn Bracket 30A / B



Turn Bracket 30A

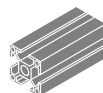


Turn Bracket 30B



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.

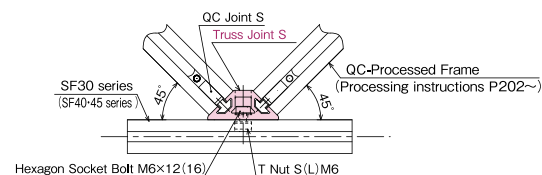
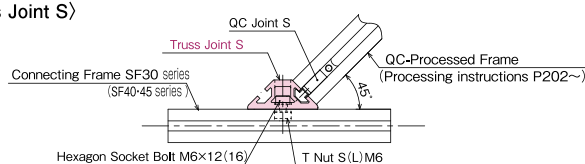
Material/Technical Data

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).

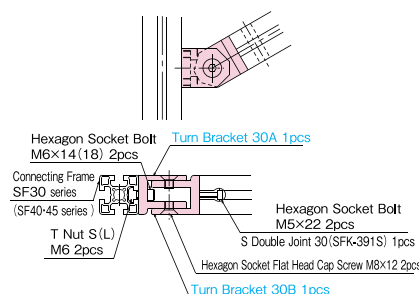
How to use Truss Joint・Turn Bracket

〈Truss Joint S〉

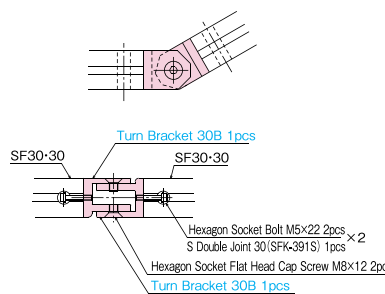


〈Turn Bracket〉

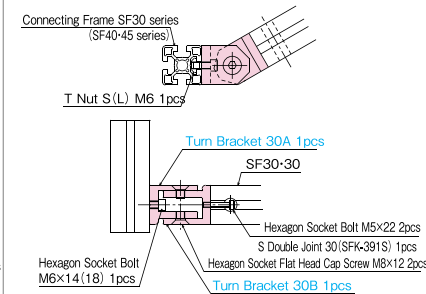
〈In case of installing to side and end of the Frames.〉



〈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.



●Use Processing Symbols written from P204~ to specify frilling for Double Joint.

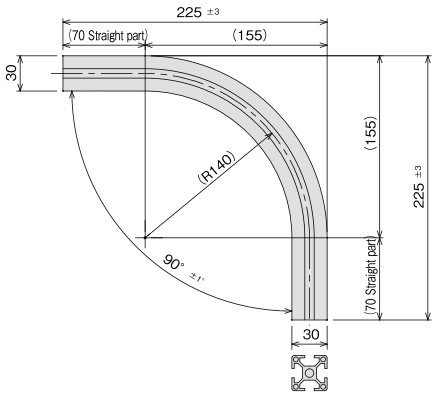
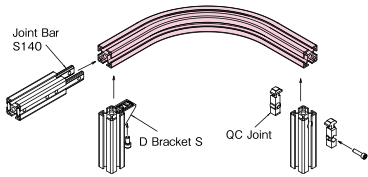
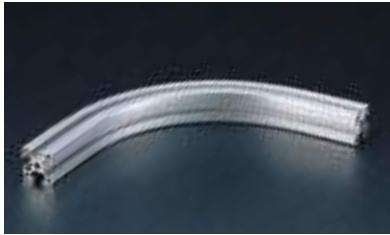


Parts
How to order
Item No.
SFJ-J02

Quantity (pcs)



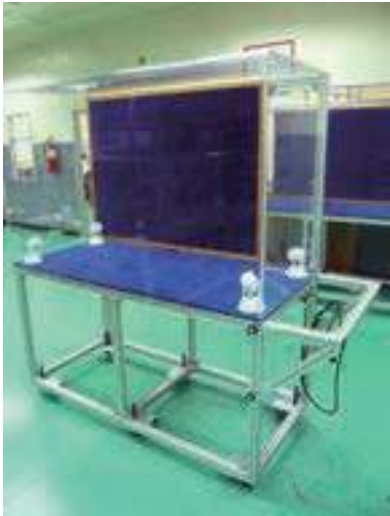
Bend Bracket S



Name	Bend Bracket S
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

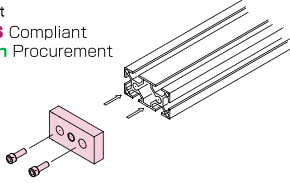


Foot Base

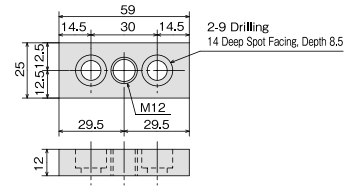


Environment

★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)

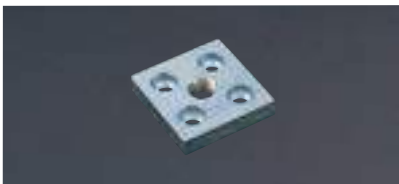


Name

Foot Base 3060
(Foot Base 3060(Stainless))

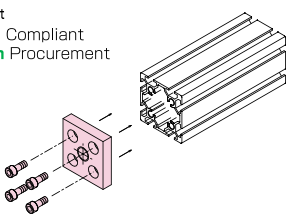
Item No.

★SFK-56A ★SFK-56AS

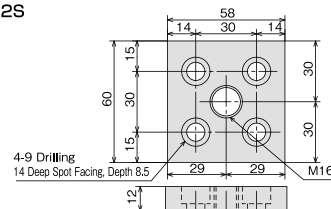


Environment

★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)



Name

Foot Base 60602S
(Foot Base 60602S(Stainless))

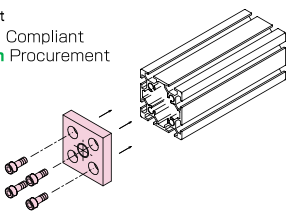
Item No.

★SFK-58A ★SFK-58AS

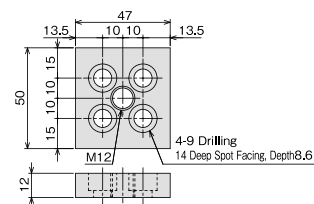


Environment

★RoHS Compliant
★Green Procurement



Foot Base 50502S



(Material)

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

Usable Frame

SF-50-50-2S

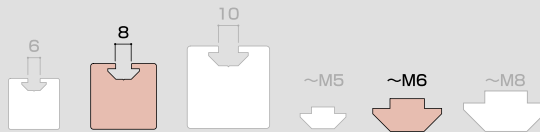


Name

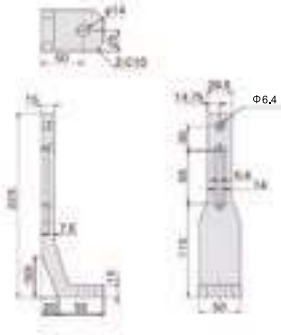
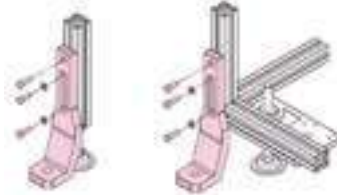
Foot Base 50502S

Item No.

★SFK-68A

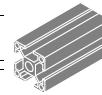


Anchor Bracket



Name (Single Item)	Anchor Bracket
Item No.	SFJ-84A
Name (Bolt and Nut Kit)	Anchor Bracket Kit S
Item No.	SFK-84AS

Usable Frame



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

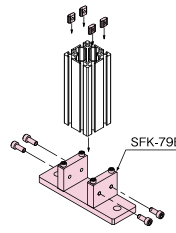
Kit Contents

- Anchor Bracket x1
- ST Nut S (M6) x3
- Hexagon Socket Bolt (M6 x 16) Stainless x3
- M6 Flat Washer (Stainless)

Material/Technical Data

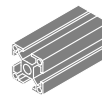
Material A6005CSS-T5
Weight 430 g (Anchor Bracket)
Environment RoHS Compliant

Anchor Plate Bracket 60602S Kit



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

Usable Frame

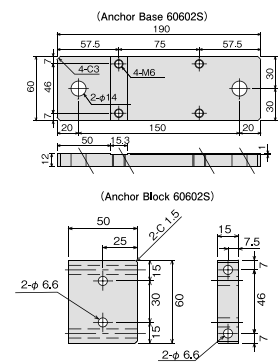


SF-60-60-2S

Kit Contents

- Anchor Base 60602S x1
- Anchor Block 60602S x2
- Hexagon Socket Bolt (M6 x 60) Stainless x4
- Hexagon Socket Bolt (M6 x 22) Stainless x4
- ST Nut S (M6) x4
- Anti-Sliding Cap S

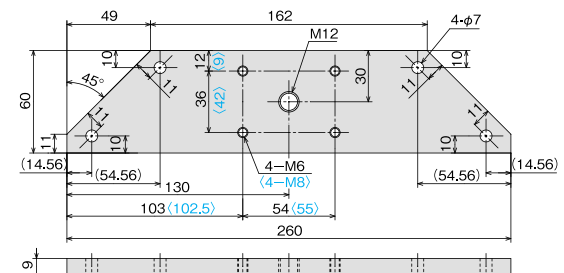
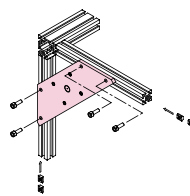
Anchor Plate Bracket 60602S Kit



Material/Technical Data

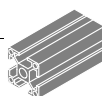
Anchor Plate Bracket 60602S Kit
Material SUS304 (Base)
A6063 Aluminite Treatment (Anchor Block)
Weight 1328g
Environment RoHS Compliant
Green Procurement
※Hexagon Socket Bolt (M8 x 25) Stainless 4

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	SUS304
	Uni-Chrome Plating	
Weight	900g	909g
Environment	★RoHS Compliant	★Green Procurement



Parts
How to order
Item No.
SFJ-70S

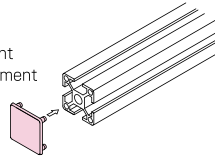
Quantity (pcs)



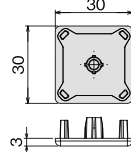
Frame Cap



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



Frame Cap N3030

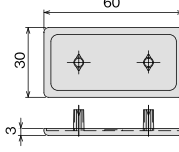


Weight/2.4g

■Usable Frame

SF-30-30(or 1F/2F/3F/2H)
SF Light 30-30/SF-K-30-30

Frame Cap 3060

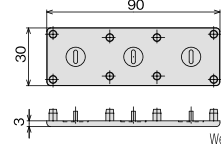


Weight/4.7g

■Usable Frame

SF-30-60, SF-30-60-1F,
SF-K-30-60*SF-30-120

Frame Cap 3090



Weight/9.5g

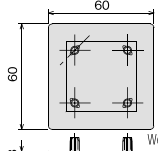
■Usable Frame

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

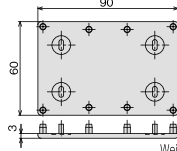


Weight/12.6g

■Usable Frame

SF-60-60(or 1F/2F)

Frame Cap 6090

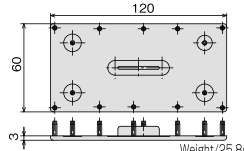


Weight/19.6g

■Usable Frame

SF-60-90

Frame Cap 60120

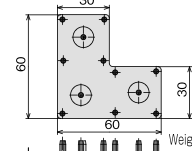


Weight/25.8g

■Usable Frame

SF-60-120

Frame Cap 306060



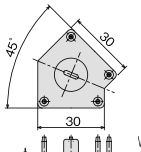
Weight/10.0g

■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

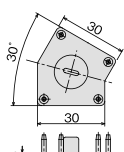


Weight/3.2g

■Usable Frame

SF-30-DE45

Frame Cap 30-DE30

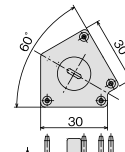


Weight/3.2g

■Usable Frame

SF-30-DE30

Frame Cap 30-DE60

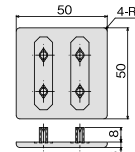


Weight/3.2g

■Usable Frame

SF-30-DE60

Frame Cap 5050



Weight/8.0g

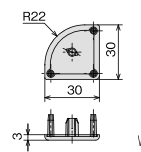
■Usable Frame

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

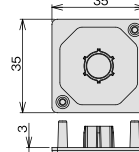


Weight/2.4g

■Usable Frame

SF-30-30-R

Frame Cap 3535

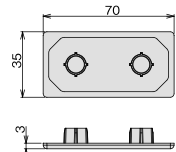


Weight/3.6g

■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

SF20
SS Size

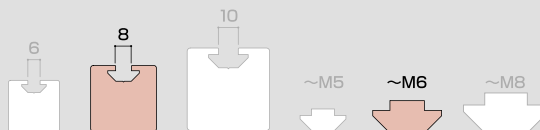
SF30
S Size

SF40-45
L Size

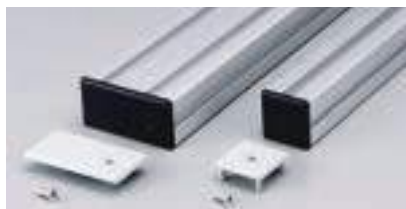
Complex Parts

Door Panel
Clean Equipment

Technical Data



Frame Cap Lock Type

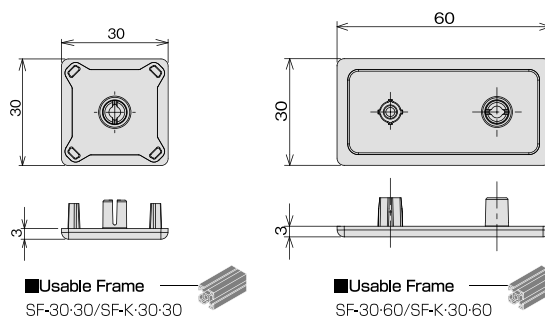


Material Polyamide(Cap), SWCHDR(Bolt), Chromate Black Treatment or Stainless(Bolt)
 Weight 3.7g(3030), 5.9g(3060)
 Environment **RoHS** Compliant
Green Procurement

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

Name	Frame Cap Lock Type N3030(Black)※ ¹	Frame Cap Lock Type N3030(Light Gray)※ ²
Item No.	SFK-05LB	SFK-05LG

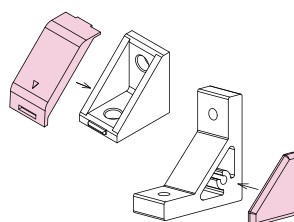
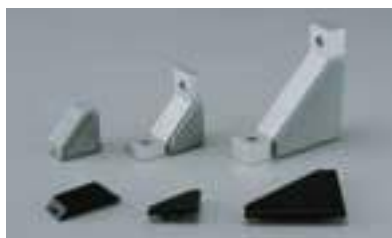
※¹ With Small Flat Screw with Cross Hole (M4×12) Chromate Black ※² With Small Flat Screw with Cross Hole (M4×12) Stainless



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

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

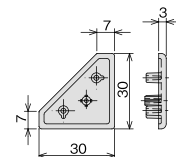
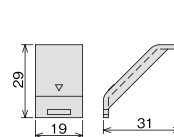
D Bracket Cap S / Hard Bracket Cap



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

D Bracket Cap S

Hard Bracket Cap



■ Usable Bracket
 (D Bracket Cap)
 D Bracket S/Black/CN
 (Hard Bracket Cap)
 Hard Bracket S/S3060
 S3090/Black

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

Slot Cap S / Slot Seal S



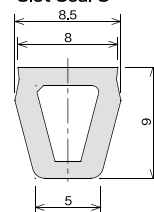
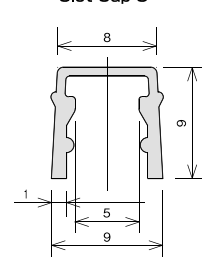
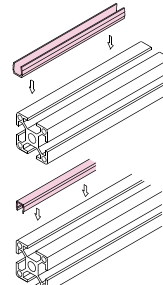
Name	Slot Cap S (ℓ=2000mm/pcs)					
	(Black)	(Light Gray)	(Blue)	(Green)	(Yellow)	(Red)
Item No.	SFA-104	SFA-104G	SFA-104L	SFA-104M	SFA-104Y	SFA-104R

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

Slot Cap S

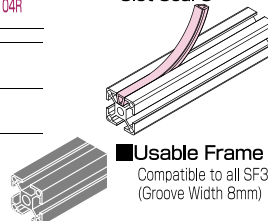
Slot Cap S

Slot Seal S



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

Slot Seal S



■ 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



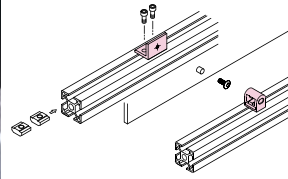
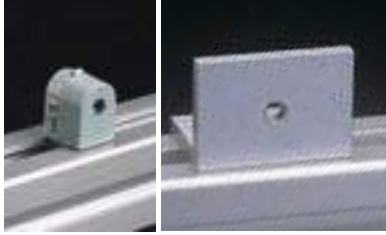
Parts
 How to order
 Item No.
SFK-05LB

Quantity (pcs)



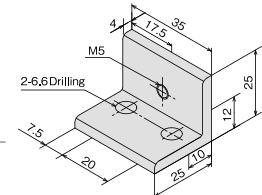
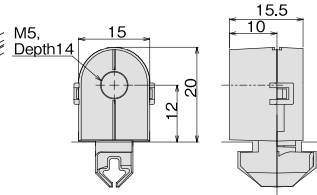
Frame for **30** Nut for **30** Bracket for **30** Adjuster for **30** Accessory for **30**

Cover Holder S with Cap / Cover Support S



Cover Holder S with Cap

Cover Support S



Name(Single Item)	Cover Holder S with Cap	Cover Support S
Item No.	★SFA-KH6	★SFJ-K02
Name(Bolt and Nut Kit)		
Cover Support S Kit (Cover Support S(Stainless)Kit)		
Item No.	★SFK-K02(★SFK-K02S)	

Usable Frame



Compatible to all SF30 series
(Groove Width 8mm)

Cover Holder S with Cap

Kit contents

- Cover Holder S with Cap ×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 with Cap	Cover Support S
Material Polyamide	Aluminium Alloy Alumite Treatment (Special order Black Alumite is also available.)
Weight 4g	17g
Environment RoHS Compliant	Green Procurement

※With M5 nut

Cable Clamp S / Slot Hook S (U)•(J)

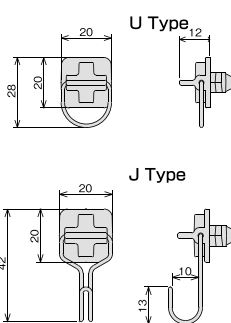
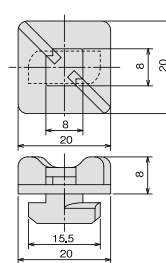
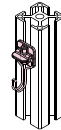
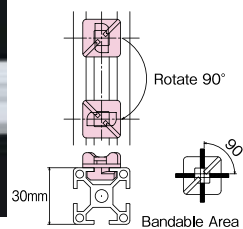


Cable S

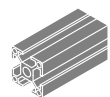
Slot Hook S

Cable S

Slot Hook S

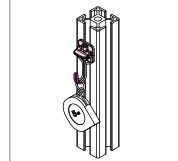


Name	Cable Clamp S (50pcs/pack)
	(Black) (Light Gray)
Item No.	C1P-B04C C1P-004C
Name	Slot Hook S
	(U Type) (J Type)
Item No.	SFK-K32U SFK-K32J



Compatible to all SF30 series
(Groove Width 8mm)

How to use Slot Hook

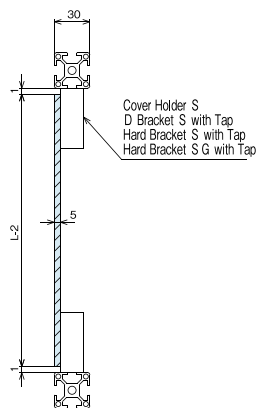
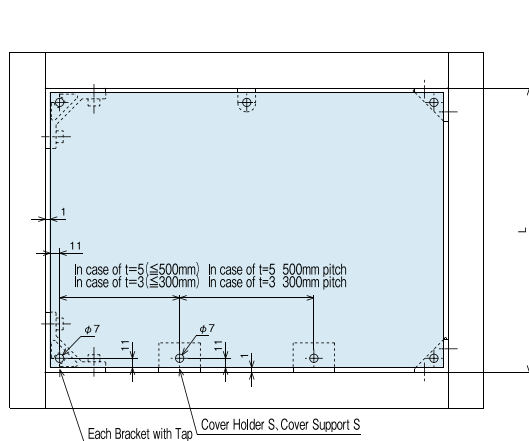


Material/Technical Data

Cable S	Slot HookS
Material Polyamide	Polyamide(Body) Stainless(Hook)
Weight 2g/piece	3g(U Type) 4g(J Type)/Load capacity 1.5kg
Environment RoHS Compliant	Green Procurement

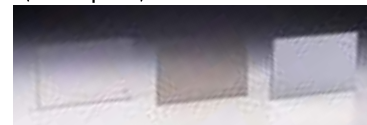
How to fix Cover

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



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

〈Resin plate〉



● Various Resin plates are available.
Refer P168~.

〈Door accessories〉



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

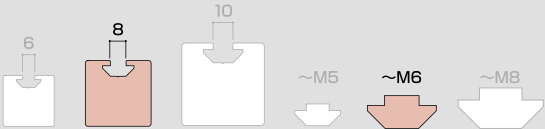
SF20
SS SizeSF30
S SizeSF40-45
L Size

Complex Parts

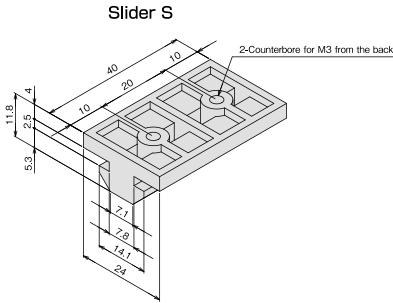
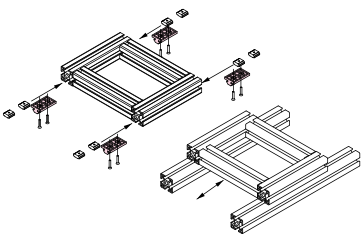
Door・Panel
Clean Equipment

Technical Data

SF30 SERIES



Slider S



Name	Slider S
Item No.	SFA-510

■Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

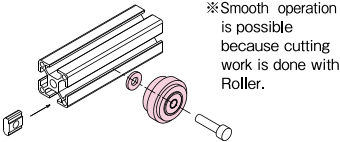
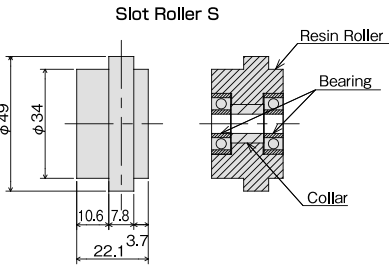
■Material/Technical Data

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.

■Usable Frame

Compatible to all SF30 series
(Groove Width 8mm)

■Material/Technical Data

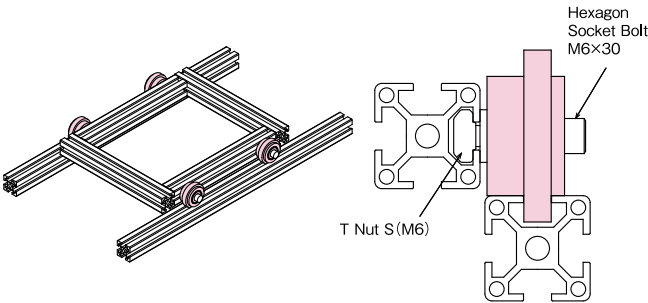
Material Nylon 6(Resin Roller)
S45C(Collar)
Steel(Bearing)
Weight 45g
Environment **RoHS** Compliant
Green Procurement

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

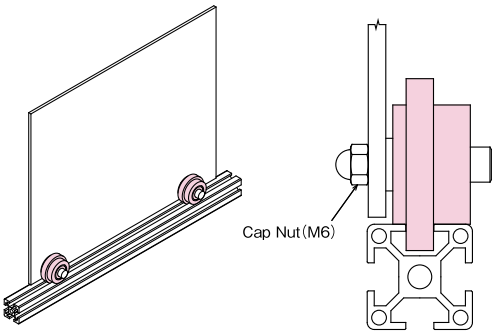
Name	Slot Roller S
Item No.	SFK-806

How to use Slot Roller

〈To frame's movable part〉



〈As door roller〉



Parts
How to order
Item No.
SFA-510

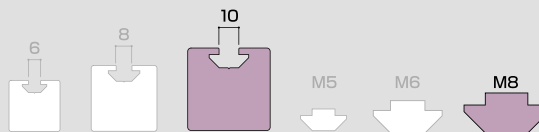
Quantity (pcs)



STANDARD FRAME

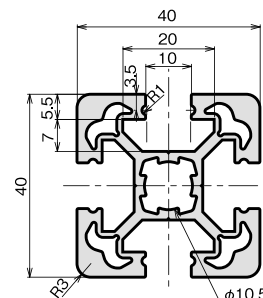
SF40·45

SERIES



SF2-40•40

Asia



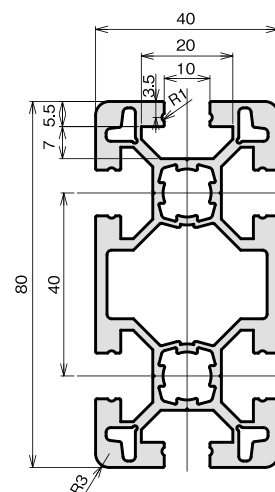
Name	SF2-40-40 (ℓ=4000)	SF2-40-40 ℓ=50~4000
Item No.	SFF-422-T	SFF-424-T

■Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=10.54 \times 10^4 \text{ mm}^4$ Moment of Inertia $I_y=10.54 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=5.27 \times 10^3 \text{ mm}^3$ $Z_y=5.27 \times 10^3 \text{ mm}^3$
Unit Mass	1.61 kg/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	$I_x=72.40 \times 10^4 \text{ mm}^4$ Moment of Inertia $I_y=19.92 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=18.10 \times 10^3 \text{ mm}^3$ $Z_y=9.96 \times 10^3 \text{ mm}^3$
Unit Mass	2.8 kg/m



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. Length (mm)
☐ **SFF-424-T** ℓ=800

Frame for 40·45
Nut for 40·45
Bracket for 40·45
Adjuster for 40·45
Accessory for 40·45

Asia

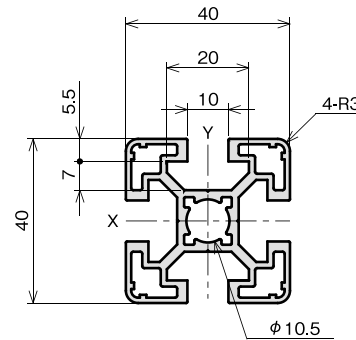
This sign shows the product is designed for Asia region only

SF-K·40·40

Asia



■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — RoHS Compliant
Green Procurement
Geometrical
Moment of Inertia $I_x=7.5 \times 10^4 \text{mm}^4$
 $I_y=7.5 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=3.7 \times 10^3 \text{mm}^3$
 $Z_y=3.7 \times 10^3 \text{mm}^3$
Unit Mass — 1.33kg/m



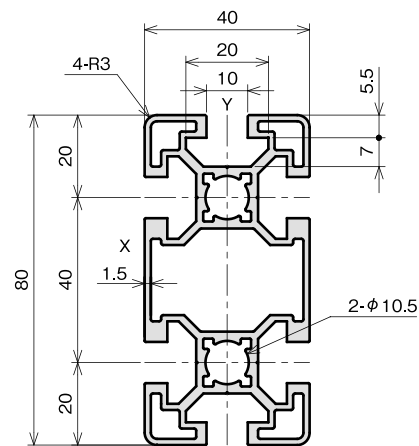
Name	SF-K·40·40 (ℓ=4000)	SF-K·40·40 ℓ=50~4000
Item No.	SFF-C02-T	SFF-C04-T

SF-K·40·80

Asia

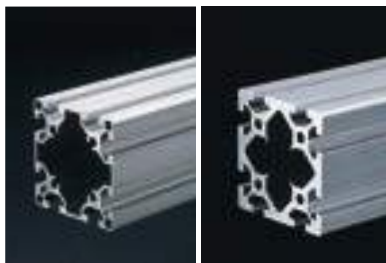


■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — RoHS Compliant
Green Procurement
Geometrical
Moment of Inertia $I_x=55.3 \times 10^4 \text{mm}^4$
 $I_y=14.4 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=13.8 \times 10^3 \text{mm}^3$
 $Z_y=7.2 \times 10^3 \text{mm}^3$
Unit Mass — 2.31kg/m



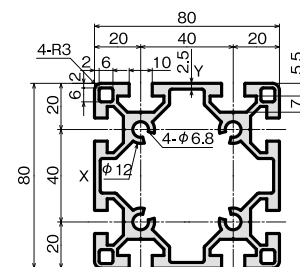
Name	SF-K·40·80 (ℓ=4000)	SF-K·40·80 ℓ=50~4000
Item No.	SFF-C482-T	SFF-C484-T

SF-80·80 / SF-80·80·H

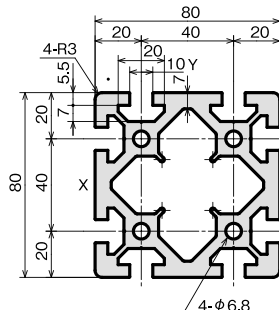


■Material/Technical Data
Material — Aluminium Alloy
Alumite Treatment
Environment — RoHS Compliant
Green Procurement
SF-80·80 SF-80·80·H
Geometrical
Moment of Inertia $I_x=129.84 \times 10^4 \text{mm}^4$ $I_x=182.5 \times 10^4 \text{mm}^4$
 $I_y=129.84 \times 10^4 \text{mm}^4$ $I_y=182.5 \times 10^4 \text{mm}^4$
Section Modulus $Z_x=32.46 \times 10^3 \text{mm}^3$ $Z_x=45.6 \times 10^3 \text{mm}^3$
 $Z_y=32.46 \times 10^3 \text{mm}^3$ $Z_y=45.6 \times 10^3 \text{mm}^3$
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-T	SFF-804-T
Name	SF-80·80·H (ℓ=4000)	SF-80·80·H ℓ=50~4000
Item No.	SFF-H82	SFF-H84

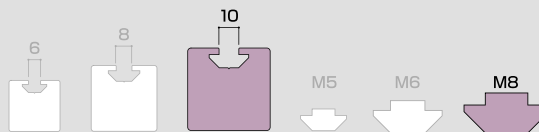
●Exclusive Nut
T Nut L
After Nut L
Lock Nut L
Free Nut L
P95~

●Exclusive Cap
Frame Cap
P122-123

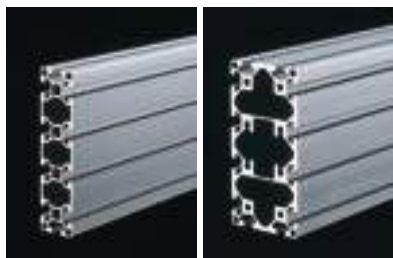
●Additional processing and surface treatment are also available.



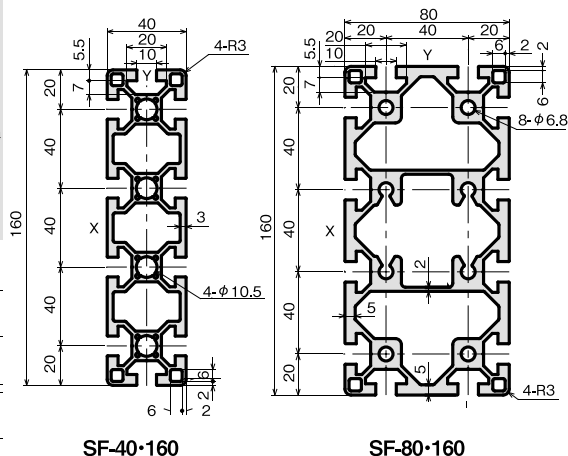
P198~



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	$I_x=498.8 \times 10^4 \text{mm}^4$ $I_y=1000.9 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_x=38.5 \times 10^4 \text{mm}^4$ $I_y=295.3 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=62.3 \times 10^3 \text{mm}^3$ $Z_y=125.1 \times 10^3 \text{mm}^3$
	$Z_y=19.2 \times 10^3 \text{mm}^3$ $Z_z=73.8 \times 10^3 \text{mm}^3$
Unit Mass	5.54kg/m 10.51kg/m



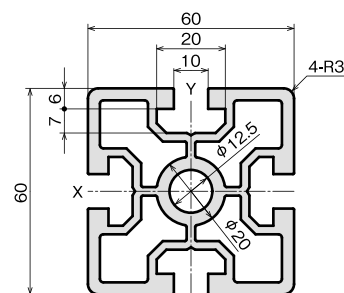
Name	SF-40•160 (ℓ=4000)	SF-40•160 ℓ=50~4000
Item No.	SFF-4162	SFF-4164
Name	SF-80•160 (ℓ=4000)	SF-80•160 ℓ=50~4000
Item No.	SFF-812	SFF-814

SF-60•60•1S

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=49.27 \times 10^4 \text{mm}^4$ $I_y=49.27 \times 10^4 \text{mm}^4$
Moment of Inertia	$Z_x=16.42 \times 10^3 \text{mm}^3$ $Z_y=16.42 \times 10^3 \text{mm}^3$
Section Modulus	
Unit Mass	3.72kg/m



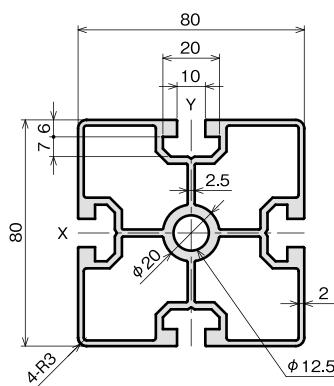
Name	SF-60•60•1S (ℓ=4000)	SF-60•60•1S ℓ=50~4000
Item No.	SFF-602-T	SFF-604-T

SF-80•80•1S

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=90.46 \times 10^4 \text{mm}^4$ $I_y=90.46 \times 10^4 \text{mm}^4$
Moment of Inertia	$Z_x=22.62 \times 10^3 \text{mm}^3$ $Z_y=22.62 \times 10^3 \text{mm}^3$
Section Modulus	
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



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. Length (mm)
☐ **SFF-4164** ℓ=800

Frame for 40·45
Nut for 40·45
Bracket for 40·45
Adjuster for 40·45
Accessory for 40·45

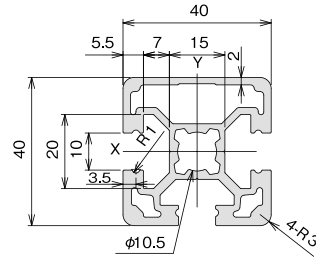
Asia This sign shows the product is designed for Asia region only

SF2-40·40·1F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=9.7 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=9.99 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=4.58 \times 10^3 \text{mm}^3$ $Z_y=5.00 \times 10^3 \text{mm}^3$
Unit Mass	1.53kg/m



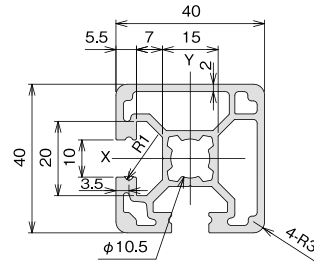
Name	SF2-40·40·1F (ℓ=4000)	SF2-40·40·1F ℓ=50~4000
Item No.	SFF-E12-T	SFF-E14-T

SF2-40·40·2F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=9.72 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=9.72 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=4.81 \times 10^3 \text{mm}^3$ $Z_y=4.81 \times 10^3 \text{mm}^3$
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

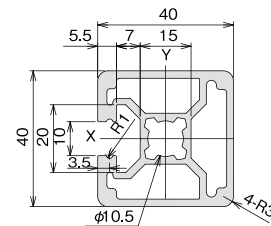
SF2-40·40·3F / SF2-40·40·2H

Asia

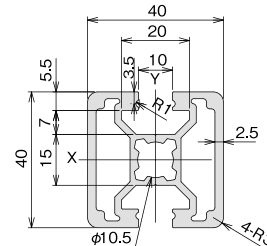


Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=10.1 \times 10^4 \text{mm}^4$ $I_x=10.15 \times 10^4 \text{mm}^4$
Moment of Inertia	$I_y=10.52 \times 10^4 \text{mm}^4$ $I_y=10.55 \times 10^4 \text{mm}^4$
Section Modulus	$Z_x=5.00 \times 10^3 \text{mm}^3$ $Z_x=5.08 \times 10^3 \text{mm}^3$ $Z_y=5.26 \times 10^3 \text{mm}^3$ $Z_y=5.28 \times 10^3 \text{mm}^3$
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



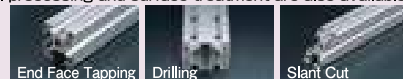
P95~

●Exclusive Cap

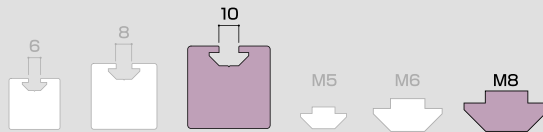


P122·123

●Additional processing and surface treatment are also available.



P198~

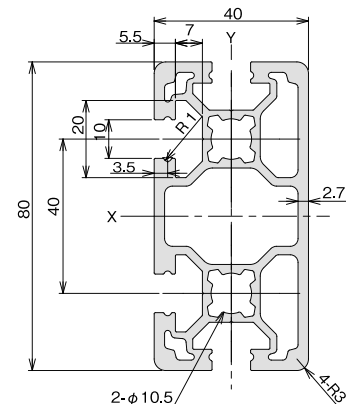


SF2-40•80•1F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=71.00 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y=20.35 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=17.75 \times 10^3 \text{ mm}^3$ $Z_y=10.16 \times 10^3 \text{ mm}^3$
Unit Mass	2.82kg/m

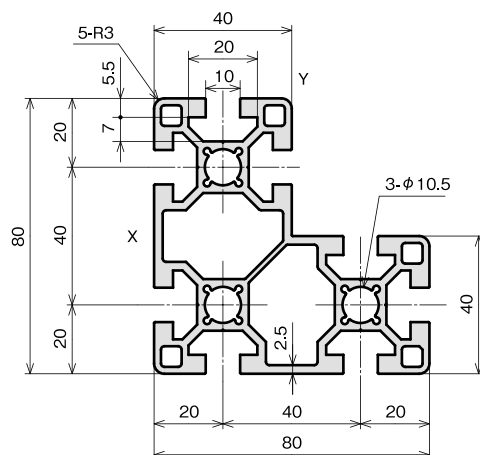


Name	SF2-40-80-1F (ℓ=4000)	SF2-40-80-1F ℓ=50~4000
Item No.	SFF-4E82-T	SFF-4E84-T

SF-40•80•80



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=94.15 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y=94.15 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=20.53 \times 10^3 \text{ mm}^3$ $Z_y=20.53 \times 10^3 \text{ mm}^3$
Unit Mass	4.19kg/m

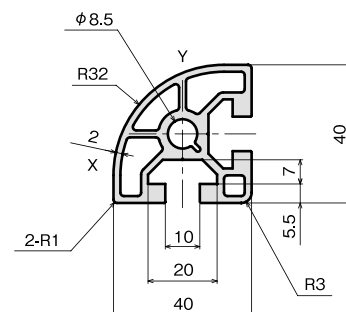


Name	SF-40-80-80 (ℓ=4000)	SF-40-80-80 ℓ=50~4000
Item No.	SFF-G22	SFF-G24

SF-40•40•R



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x=7.82 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y=7.82 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=3.53 \times 10^3 \text{ mm}^3$ $Z_y=3.53 \times 10^3 \text{ mm}^3$
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



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
Length (mm)
Quantity (pcs) Item No.
SFF-4E84-T ℓ=800

Frame for 40·45
Nut for 40·45
Bracket for 40·45
Adjuster for 40·45
Accessory for 40·45

Asia

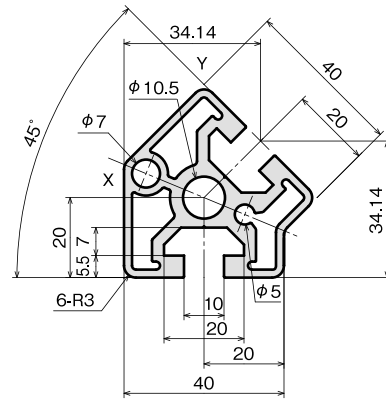
This sign shows the product is designed for Asia region only

SF-40·DE45



■Material/Technical Data
Material: Aluminium Alloy
Alumite Treatment
Environment: RoHS Compliant
Green Procurement
Geometrical Moment of Inertia: $I_x=9.87 \times 10^4 \text{mm}^4$
 $I_y=10.37 \times 10^4 \text{mm}^4$
Section Modulus: $Z_x=3.59 \times 10^3 \text{mm}^3$
 $Z_y=3.99 \times 10^3 \text{mm}^3$
Unit Mass: 1.83kg/m

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

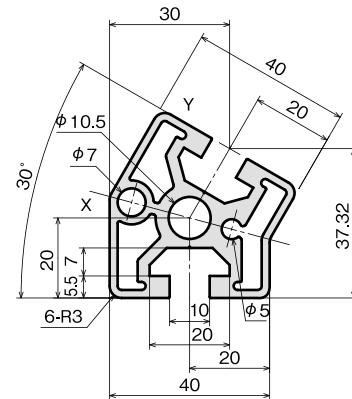


SF-40·DE30



■Material/Technical Data
Material: Aluminium Alloy
Alumite Treatment
Environment: RoHS Compliant
Green Procurement
Geometrical Moment of Inertia: $I_x=9.89 \times 10^4 \text{mm}^4$
 $I_y=10.64 \times 10^4 \text{mm}^4$
Section Modulus: $Z_x=3.73 \times 10^3 \text{mm}^3$
 $Z_y=4.20 \times 10^3 \text{mm}^3$
Unit Mass: 1.88kg/m

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

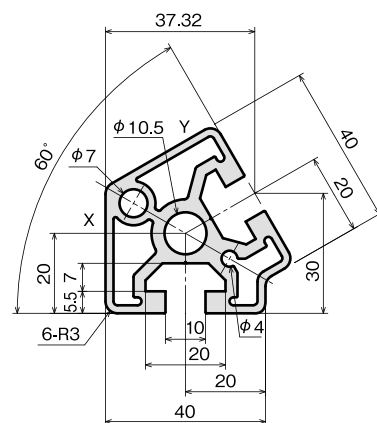


SF-40·DE60



■Material/Technical Data
Material: Aluminium Alloy
Alumite Treatment
Environment: RoHS Compliant
Green Procurement
Geometrical Moment of Inertia: $I_x=9.99 \times 10^4 \text{mm}^4$
 $I_y=10.53 \times 10^4 \text{mm}^4$
Section Modulus: $Z_x=3.74 \times 10^3 \text{mm}^3$
 $Z_y=4.14 \times 10^3 \text{mm}^3$
Unit Mass: 1.84kg/m

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



SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door Panel
Clean Equipment

Technical Data

●Exclusive Nut



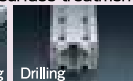
T Nut L
After Nut L
Lock Nut L
Free Nut L
P95~

●Exclusive Cap

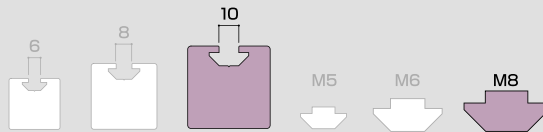


Frame Cap
P122-123

●Additional processing and surface treatment are also available.

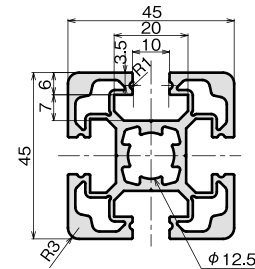


P198~



SF2-45・45

Asia



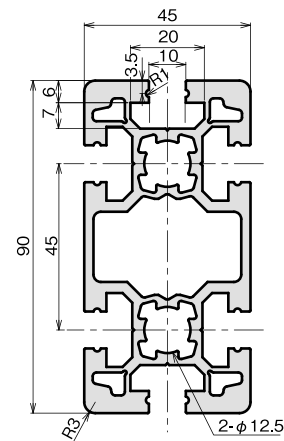
Name	SF2-45・45 (ℓ=4000)	SF2-45・45 ℓ=50~4000
Item No.	SFF-442-T	SFF-444-T

Material/Technical Data

Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 15.28 \times 10^4 \text{ mm}^4$ Moment of Inertia $I_y = 15.28 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 6.79 \times 10^3 \text{ mm}^3$ $Z_y = 6.79 \times 10^3 \text{ mm}^3$
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	$I_x = 129.24 \times 10^4 \text{ mm}^4$ Moment of Inertia $I_y = 33.32 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 28.72 \times 10^3 \text{ mm}^3$ $Z_y = 14.81 \times 10^3 \text{ mm}^3$
Unit Mass	3.87kg/m



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. Length (mm)
☐ ☐ **SFF-444-T** ℓ=800

Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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Asia

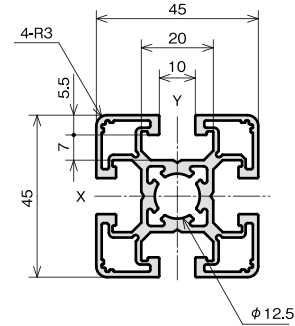
This sign shows the product is designed for Asia region only

SF-K·45·45

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x=11.73 \times 10^4 \text{ mm}^4$ $I_y=11.73 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=5.21 \times 10^3 \text{ mm}^3$ $Z_y=5.21 \times 10^3 \text{ mm}^3$
Unit Mass	1.70kg/m



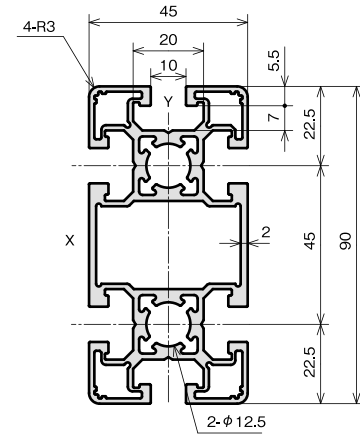
Name	SF-K·45·45 (ℓ=4000)	SF-K·45·45 ℓ=50~4000
Item No.	SFF-B02-T	SFF-B04-T

SF-K·45·90

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x=87.16 \times 10^4 \text{ mm}^4$ $I_y=22.87 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=19.37 \times 10^3 \text{ mm}^3$ $Z_y=10.16 \times 10^3 \text{ mm}^3$
Unit Mass	2.98kg/m

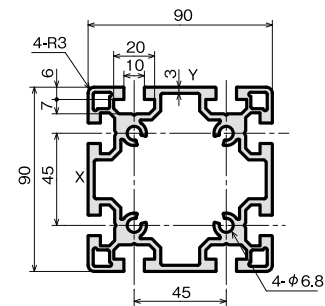


Name	SF-K·45·90 (ℓ=4000)	SF-K·45·90 ℓ=50~4000
Item No.	SFF-B492-T	SFF-B494-T

SF-90·90



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x=209.2 \times 10^4 \text{ mm}^4$ $I_y=209.2 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=46.5 \times 10^3 \text{ mm}^3$ $Z_y=46.5 \times 10^3 \text{ mm}^3$
Unit Mass	5.8kg/m



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

SF20

SS Size

SF30

S Size

SF40·45

L Size

Complex Parts

Door Panel
Clean Equipment

Technical Data

●Exclusive Nut



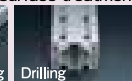
T Nut L
After Nut L
Lock Nut L
Free Nut L
P95~

●Exclusive Cap

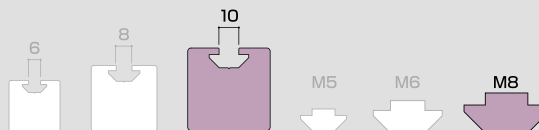


Frame Cap
P122·123

●Additional processing and surface treatment are also available.



P198~

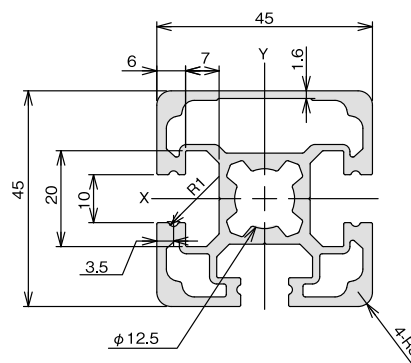


SF2-45•45•1F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 13.94 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 14.71 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 5.97 \times 10^3 \text{ mm}^3$ $Z_y = 6.53 \times 10^3 \text{ mm}^3$
Unit Mass	1.83kg/m



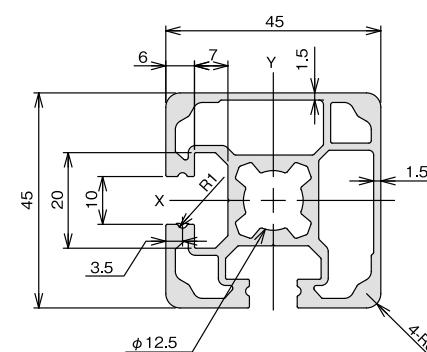
Name	SF2-45-45-1F (ℓ=4000)	SF2-45-45-1F ℓ=50~4000
Item No.	SFF-4J2-T	SFF-4J4-T

SF2-45•45•2F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 14.14 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 14.14 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 6.15 \times 10^3 \text{ mm}^3$ $Z_y = 6.15 \times 10^3 \text{ mm}^3$
Unit Mass	1.78kg/m



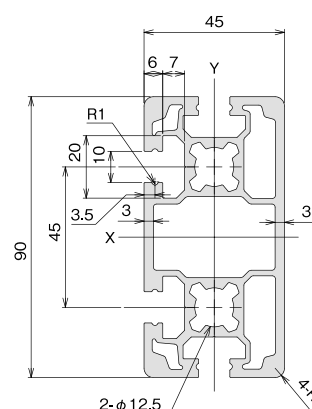
Name	SF2-45-45-2F (ℓ=4000)	SF2-45-45-2F ℓ=50~4000
Item No.	SFF-4K2-T	SFF-4K4-T

SF2-45•90•1F

Asia



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 117.53 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 32.08 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 26.12 \times 10^3 \text{ mm}^3$ $Z_y = 14.07 \times 10^3 \text{ mm}^3$
Unit Mass	3.61kg/m

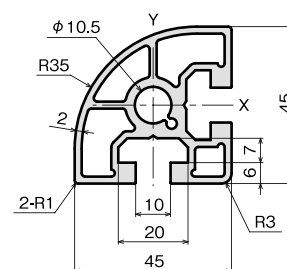


Name	SF2-45-90-1F (ℓ=4000)	SF2-45-90-1F ℓ=50~4000
Item No.	SFF-EF2-T	SFF-EF4-T

SF-45•45•R



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	$I_x = 11.33 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 11.33 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 4.52 \times 10^3 \text{ mm}^3$ $Z_y = 4.52 \times 10^3 \text{ mm}^3$
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



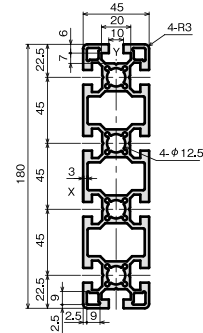
SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No. **SFF-4J2-T**

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

SF-45·180



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x=804.81 \times 10^4 \text{ mm}^4$ $I_y=60.75 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=89.42 \times 10^3 \text{ mm}^3$ $Z_y=27 \times 10^3 \text{ mm}^3$
Unit Mass	7.12kg/m

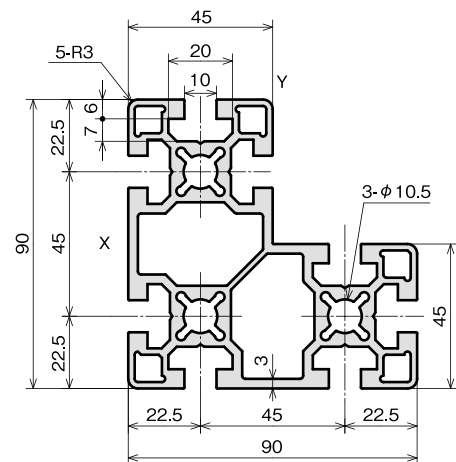


Name	SF-45·180 (ℓ=4000)	SF-45·180 ℓ=50~4000
Item No.	SFF-4182	SFF-4184

SF-45·90·90



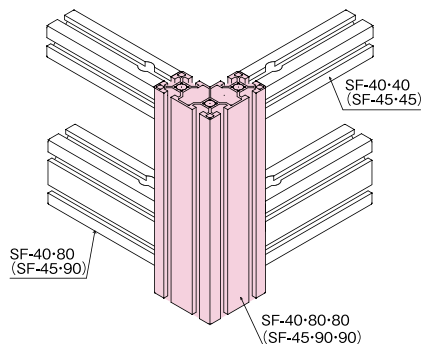
Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical Moment of Inertia	$I_x=149.53 \times 10^4 \text{ mm}^4$ $I_y=149.53 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=28.83 \times 10^3 \text{ mm}^3$ $Z_y=28.83 \times 10^3 \text{ mm}^3$
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

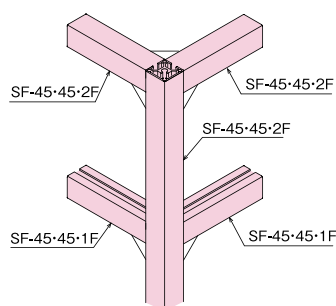
How to use Frame

〈SF-40·80·80〉
〈SF-45·90·90〉



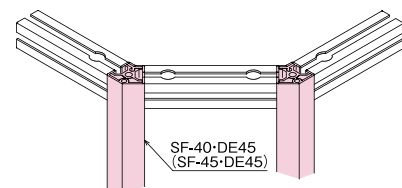
● As the reinforcing Frame at corner, or to ensure space inside

〈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〉

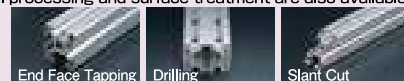


● Many variations to construct angles other than 90°

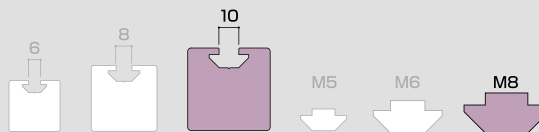
● Exclusive Nut
T Nut L
After Nut L
Lock Nut L
Free Nut L
P95~

● Exclusive Cap
Frame Cap
P122~123

● Additional processing and surface treatment are also available.



P198~

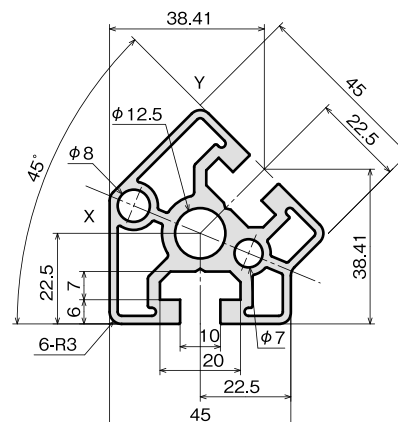


SF-45•DE45



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=14.78 \times 10^4 \text{ mm}^4$ $I_y=15.49 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=4.72 \times 10^3 \text{ mm}^3$ $Z_y=5.36 \times 10^3 \text{ mm}^3$
Unit Mass	2.22kg/m

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

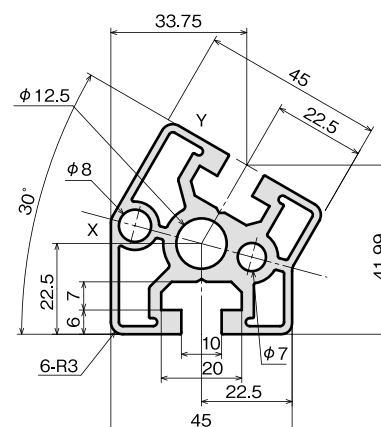


SF-45•DE30



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=14.91 \times 10^4 \text{ mm}^4$ $I_y=15.95 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=4.95 \times 10^3 \text{ mm}^3$ $Z_y=5.70 \times 10^3 \text{ mm}^3$
Unit Mass	2.30kg/m

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

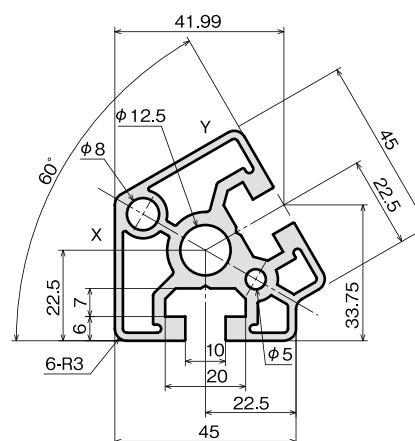


SF-45•DE60



Material/Technical Data	
Material	Aluminium Alloy Alumite Treatment
Environment	RoHS Compliant Green Procurement
Geometrical	
Moment of Inertia	$I_x=14.94 \times 10^4 \text{ mm}^4$ $I_y=15.93 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=4.86 \times 10^3 \text{ mm}^3$ $Z_y=5.78 \times 10^3 \text{ mm}^3$
Unit Mass	2.26kg/m

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

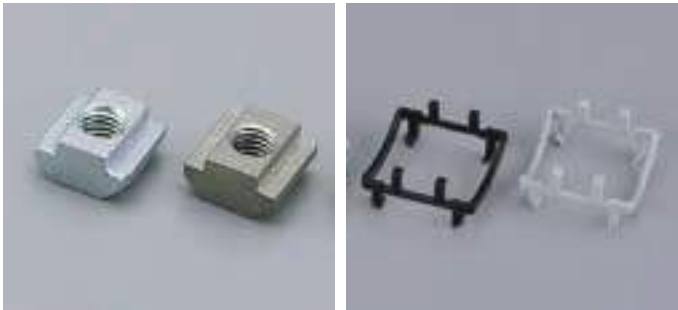


SF Frame
Standard (ℓ=4000) (Cut by customer)
Item No.
SFF-J82B

In case of specifying the length (Cut by SUS) ※Order by 0.1mm unit
Quantity (pcs) Item No. Length (mm)
☐ **SFF-J84B** ℓ=800

Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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T Nut L(M※) / Anti-Skid Cap L40 / L45

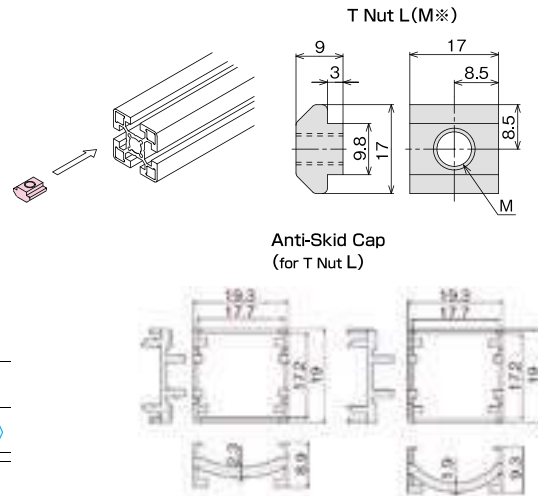


Name	T Nut L(M8) (ST Nut L(M8))	T Nut L(M6) (ST Nut L(M6))	T Nut L(M5) (ST Nut L(M5))	T Nut L(M4) (ST Nut L(M4))
Item No.	SFB-004(SFN-TL8)	SFB-003(SFN-TL6)	SFB-008(SFN-TL5)	SFB-007(SFN-TL4)
Name	Anti-Skid Cap L40 (50pcs/pack)		Anti-Skid Cap L45 (50pcs/pack)	
Item No.	SFA-957		SFA-958	

Usable Frame



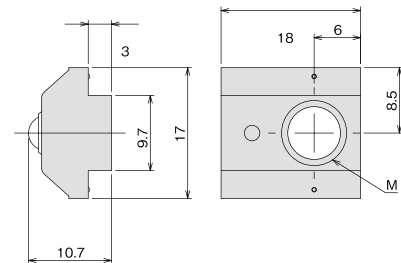
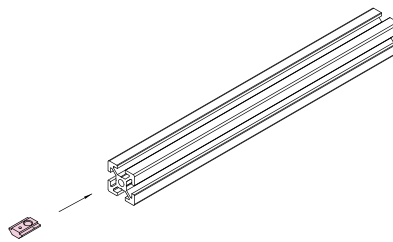
Compatible to all SF40 and 45 series
(Groove Width 10mm)



Material/Technical Data

	T Nut L	ST Nut L	Anti-Skid Cap
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	POM Black (L40) POM Gray (L45)
Weight	14g	14g	0.2g/piece (L40) 0.2g/piece (L45)
Environment	RoHS Compliant Green Procurement		

ST Nut Stopper L



Name	ST Nut Stopper L (M8)	ST Nut Stopper L (M6)	ST Nut Stopper L (M5)
Item No.	SFN-SL8	SFN-SL6	SFN-SL5
Name	ST Nut Stopper L (M4)		ST Nut Stopper L (M3)
Item No.	SFN-SL4		SFN-SL3

Usable Frame

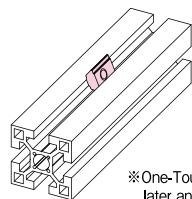


Compatible to all SF40 and 45 series
(Groove Width 10mm)

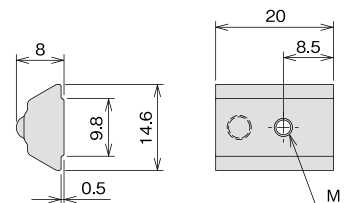
Material/Technical Data

Material	Stainless	With Conductive Function
Weight	11.8g (M8) 13.5g (M4)	12.8g (M5) 13.5g (M3)
Environment	RoHS Compliant	

Easy Nut L(M※)



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



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	

●Exclusive Nut



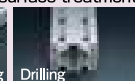
T Nut L
After Nut L
Lock Nut L
Free Nut L
P95~

●Exclusive Cap

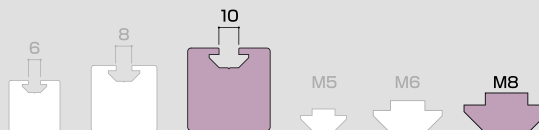


Frame Cap
P122-123

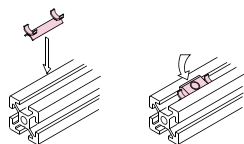
●Additional processing and surface treatment are also available.



P198~

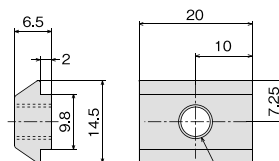
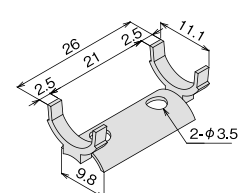


After Nut L(M※) / After Nut Support L



※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

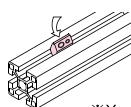


Compatible to all SF40 and 45 series
(Groove Width 10mm)

■Material/Technical Data

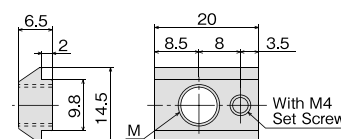
	After Nut L	S After Nut L	After Nut Support L
Material	Equivalent to S10C Uni-Chrome	Stainless With Conductive Function	PP Resin
Weight	10g	10g	0.3g/piece
Environment	★RoHS Compliant	★Green Procurement	

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

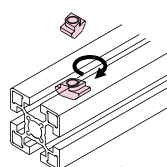


Compatible to all SF40 and 45 series
(Groove Width 10mm)

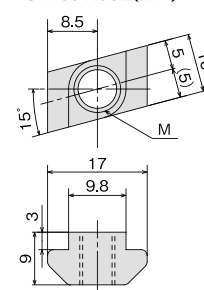
■Material/Technical Data

	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

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

Material	Stainless With Conductive Function
Weight	7g
Environment	★RoHS Compliant ★Green Procurement

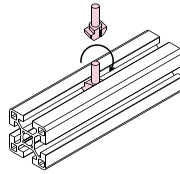


Parts
How to order
Item No.
SFB-628

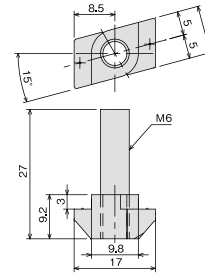
Quantity (pcs)



Free Nut with Headless Bolt L(M6)



Free Nut with Headless Bolt L(M6)



Name	Free Nut with Headless Bolt L(M6)
Item No.	★SFN-NL6

Usable Frame

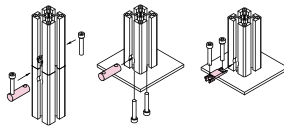


Compatible to all SF40 and 45 series
(Groove Width 10mm)

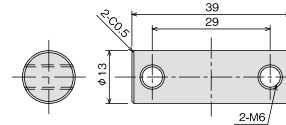
Material/Technical Data

Material Stainless
With Conductive Function
Weight 12g
Environment ★RoHS Compliant ★Green Procurement

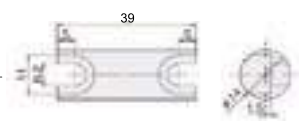
Double Round Nut L40/L45 / Double Joint L40/L45



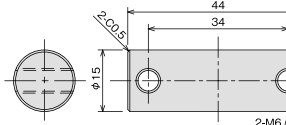
Double Round Nut L40



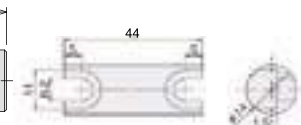
Double Joint L40



Double Round Nut L45



Double Joint L45



Name	Double Round Nut L40	Double Round Nut L45
Item No.	SFJ-251S	SFJ-252S
Name	Double Joint L40	Double Joint L45
Item No.	SFJ-317A	SFJ-318A

Usable Frame

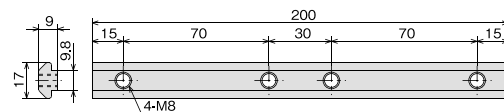
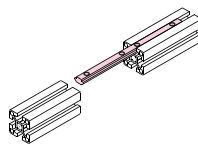


SF-40-40, SF-40-80, SF-40-120,
SF-45-45, SF-45-90, SF-45-180

Material/Technical Data

	Double Round Nut L40/L45	Double Joint L40/L45
Material	SUS304	A6005CSS-T5
Weight	36g(Double Round Nut L40) 55g(Double Round Nut L45)	10.6 g(Double Joint L40) 12.7 g(Double Joint L45)
Environment	★RoHS Compliant ★Green Procurement	

Joint Bar L200



Name(Single Item)	Joint Bar L200	Name(With Set screw)	Joint Bar L200 Kit
Item No.	★SFJ-607	Item No.	★SFK-607

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

Material Equivalent to S10C
Uni-Chrome plating
Weight 171g
Environment ★RoHS Compliant ★Green Procurement

SF20

SS Size

SF30

S Size

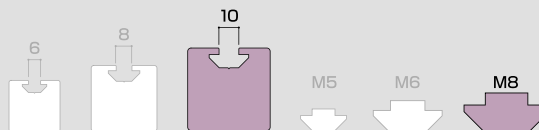
SF40-45

L Size

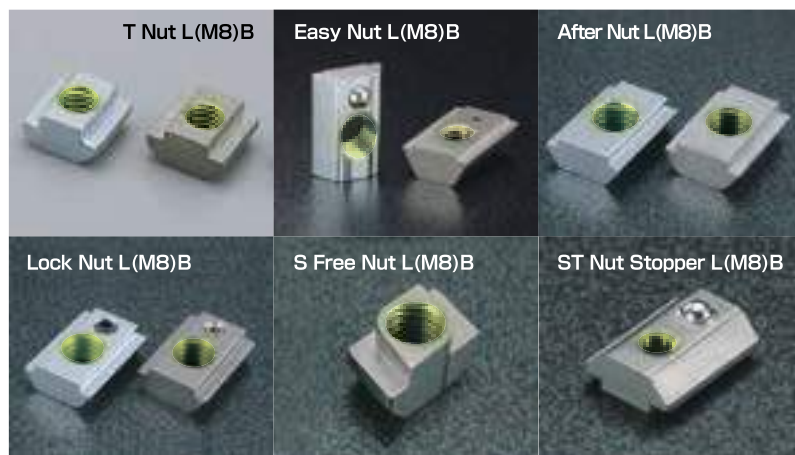
Complex Parts

Door · Panel
Clean Equipment

Technical Data



Loctite Locknut



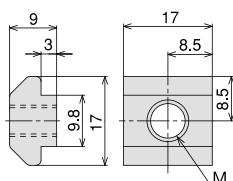
■Material/Technical Data

	T Nut L	Easy Nut L	After Nut L
Material	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function
Weight	8g	1.0g (Uni-Chrome Plating) 6g (Stainless)	7g
	Lock Nut L	S Free Nut L	ST Nut Stopper L
Material	Equivalent to S10C Uni-Chrome Plating Stainless With Conductive Function	Stainless With Conductive Function	Stainless With Conductive Function
Weight	7g	4g	12.5g

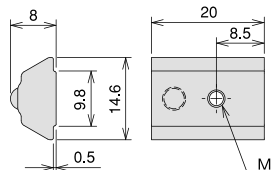
Environment **RoHS** Compliant

※The inner part of the tap is coated with an anti-loosening agent.

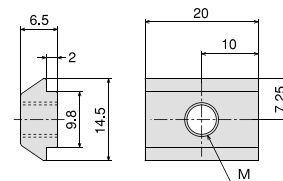
T Nut L



Easy Nut L

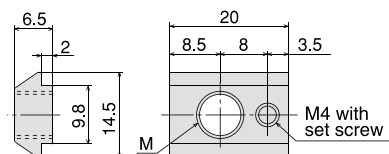


After Nut L

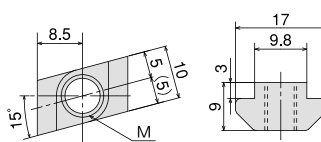


Name	T Nut L(M8)B with Loctite (ST Nut L(M8)B with Loctite)	Easy Nut L(M8)B with Loctite (S Easy Nut L(M8)B with Loctite)	After Nut L(M8)B with Loctite (S After Nut L(M8)B with Loctite)
Item No.	SFB-804(SFB-805)	SFB-808(SFB-809)	SFB-812(SFB-813)

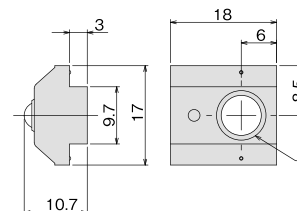
Lock Nut L



S Free Nut L



ST Nut Stopper L



Name	Lock Nut L(M8)B with Loctite (S Lock Nut L(M8)B with Loctite)	S Free Nut L(M8)B with Loctite	ST Nut Stopper L(M8)B with Loctite
Item No.	SFB-816(SFB-817)	SFB-819	SFB-821

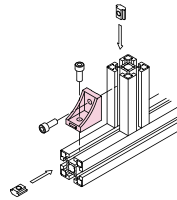


Parts
How to order
Item No.
SFB-804

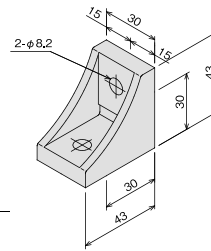
Quantity (pcs)

Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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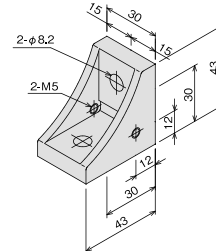
D Bracket L



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)

Usable Frame



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

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Kit Contents

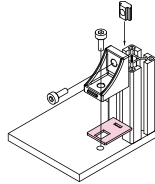
- D Bracket L (or with Tap) × 1
- Hexagon Socket Bolt (M8×20) × 2
- T Nut (M8) × 2
- ※ Bolt and Nut in CN (Stainless) Kit are stainless.

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



D Bracket Spacer L



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

Usable Frame



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

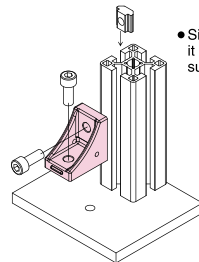
Name	D Bracket Spacer L
Item No.	SFJ-402S

Material/Technical Data

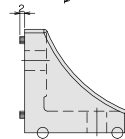
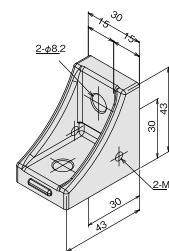
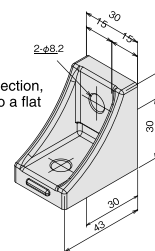
Material SUS304
Weight 22g
Environment RoHS Compliant
Green Procurement

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

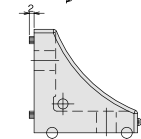
D Bracket Flat L



- Since there is no projection, it can be flush fitted to a flat surface



There is no projection for this part.



There is no projection for this part.

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Kit Contents

- D Bracket Flat L (or with Tap) × 1
- Hexagon Socket Bolt M8×20 (Trivalent Chromate) × 2
- T Nut L (M8) × 2
- ※ Bolt and Nut in (Stainless) Kit are stainless.

Material/Technical Data

Material Aluminum Die-Cast
(ADC-12)
Weight 105g (D Bracket Flat L)
104g (D Bracket Flat L with Tap)
Environment RoHS Compliant

Usable Frame



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

SF20

SS Size

SF30

S Size

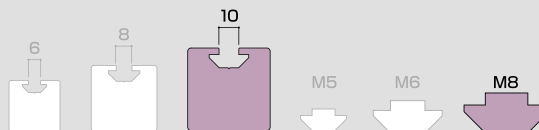
SF40-45

L Size

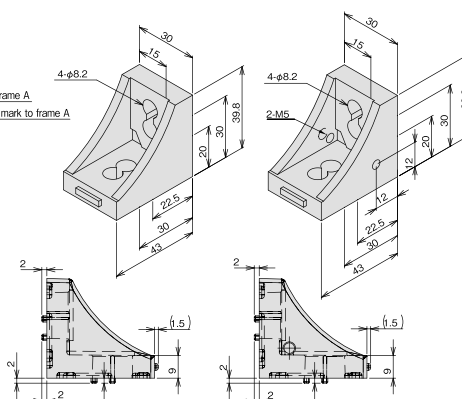
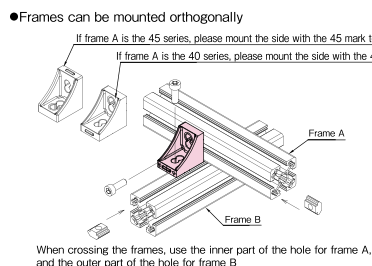
Complex Parts

Door Panel
Clean Equipment

Technical Data



D Bracket Cross L



Name(Single Item)	D Bracket Cross L	
Item No.	SFJ-052	
Name(Bolt and Nut Kit)	D Bracket Cross L Kit	D Bracket Cross L Kit (Stainless)
Item No.	SFK-052	SFK-052S



■ Usable Frame

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

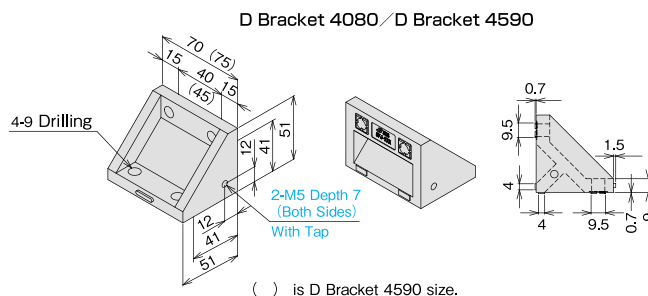
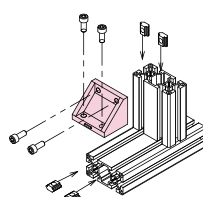
■ Kit Contents

- D Bracket Cross L×1
- Hexagon Socket Bolt M8×20 (Trivalent Chromate)×2
- T Nut L (M8)×2
- ※ Bolt and Nut in (Stainless)
Kit are stainless.

■ Material/Technical Data

Material Aluminum Die-Cast (ADC-12)
Weight 53g (D Bracket Cross L)
Environment RoHS Compliant

D Bracket 4080 / 4590



() is D Bracket 4590 size.

Name(Single Item)	D Bracket 4080 (4080 with Tap)	D Bracket 4080-CN	D Bracket 4590 (4590 with Tap)
Item No.	SFJ-022 (SFJ-022T)	SFJ-022N	SFJ-023 (SFJ-023T)
Name(Bolt and Nut Kit)	4080 Kit (4080 Kit with Tap)	4080-CN Kit	4590 Kit (4590 Kit with Tap)
Item No.	SFK-022 (SFK-022T)	SFK-022N	SFK-023 (SFK-023T)
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

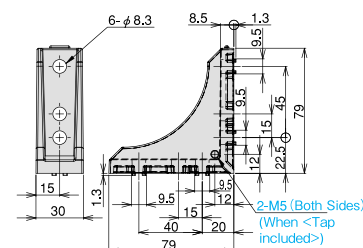
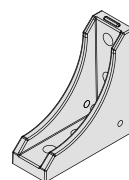
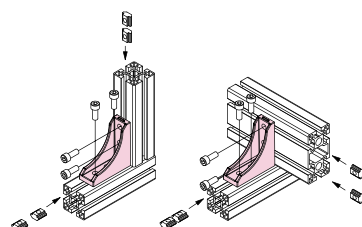
Kit Contents

- (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

■ Material/Technical Data

	D Bracket 4080	D Bracket 4590
Material	Aluminum Die-Cast(ADC-12) With Anti-Skid Function	Aluminum Die-Cast(ADC-12) With Anti-Skid Function
Weight	168 g	180g
Environment	RoHS Compliant	Green Procurement

D Bracket LW



Name(Single Item)	D Bracket LW (D Bracket LW with Tap)	
Item No.	SFJ-025 (SFJ-025T)	
Name(Bolt and Nut Kit)	D Bracket LW Kit (D Bracket LW with Tap Kit)	D Bracket LW Kit (Stainless) (D Bracket LW with Tap Kit (Stainless))
Item No.	SFK-025 (SFK-025T)	SFK-025S (SFK-025P)

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■ Kit Contents

- D Bracket LW (or with Tap) x 1
 - Hexagon Socket Bolt M8x20 (Trivalent Chrome Plating) x 4
 - T Nut L (M8)
 - ※ Bolt and Nut in (Stainless)
- Kit are stainless.

■ Material/Technical Data

Material Aluminum Die-Cast (ADC-12)
With Rotation-Prevention Function

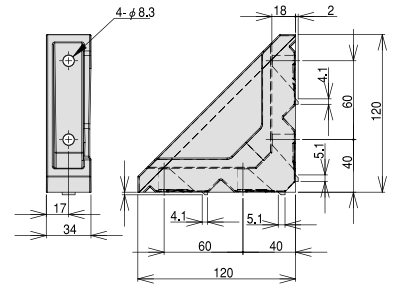
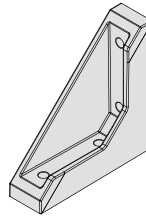
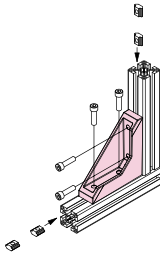
Weight 115g (D Bracket LW)

Environment **RoHS** Compliant



Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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D Bracket LWHG



Name(Single Item)	D Bracket LWHG	
Item No.	SFJ-026	
Name(Bolt and Nut Kit)	D Bracket LWHG Kit	D Bracket LWHG Kit (Stainless)
Item No.	SFK-026	SFK-026S

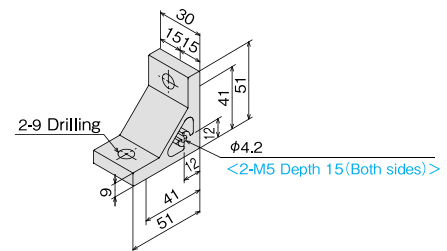
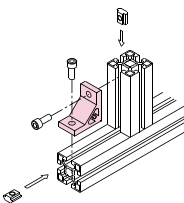
Kit Contents

- D Bracket LWHG × 1
- Hexagon Socket Bolt (M8×30) × 4
- T Nut L (M8)
- ※ Bolt and Nut in (Stainless) Kit are stainless.

Material/Technical Data

Material Aluminum Die-Cast (ADC-12)
With Rotation-Prevention Function
Weight 338g
Environment RoHS Compliant

Hard Bracket L



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)

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

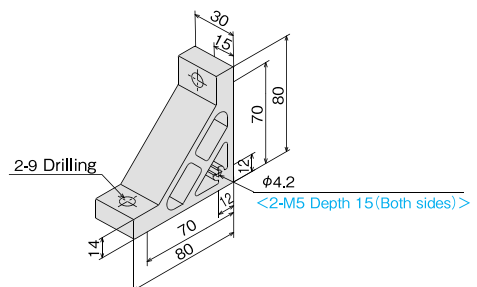
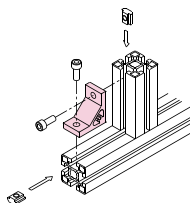
Kit Contents

- 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



Name(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)

Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

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

SF20

SS Size

SF30

S Size

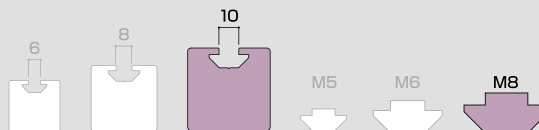
SF40·45

L Size

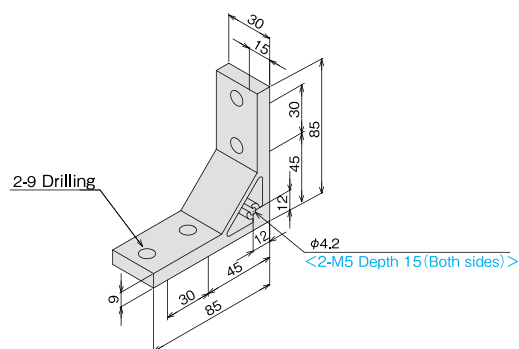
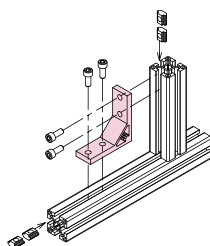
Complex Parts

Door · Panel
Clean Equipment

Technical Data



Hard Bracket LW



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(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)

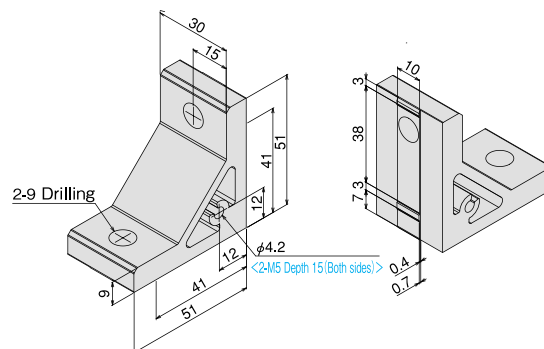
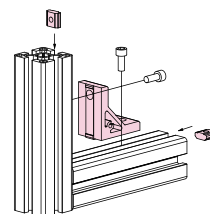
Kit Contents

- 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

Hard Bracket with Stopper L



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket with Stopper L <Hard Bracket with Stopper L with Tap>	
Item No.	SFJ-N64<SFJ-N64T>	
Name(Bolt and Nut Kit)	Hard Bracket with Stopper L Kit <Hard Bracket with Stopper L with Tap Kit>	Hard Bracket with Stopper L Kit (Stainless) <Hard Bracket with Stopper L with Tap Kit (Stainless)>
Item No.	SFK-N64<SFK-N64T>	SFK-N64S<SFK-N64P>

Usable Frame



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

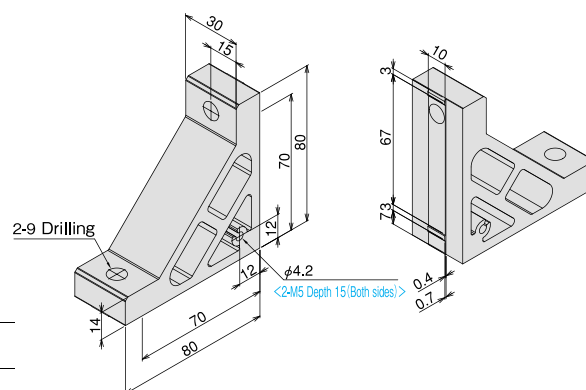
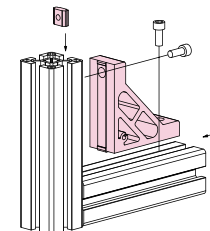
Kit Contents

- Hard Bracket with Stopper 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 A6N01SS-T5
Alumite Treatment
Perpendicular surface is machining finished.
With Rotation-Prevention Function
Weight 67g
Environment RoHS Compliant

Hard Bracket with Stopper LG



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Name(Single Item)	Hard Bracket with Stopper LG <Hard Bracket with Stopper LG with Tap>	
Item No.	SFJ-N65<SFJ-N65T>	
Name(Bolt and Nut Kit)	Hard Bracket with Stopper LG Kit <Hard Bracket with Stopper LG with Tap Kit>	Hard Bracket with Stopper LG Kit (Stainless) <Hard Bracket with Stopper LG with Tap Kit (Stainless)>
Item No.	SFK-N65<SFK-N65T>	SFK-N65S<SFK-N65P>

Usable Frame



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

Kit Contents

- Hard Bracket with Stopper 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 A6N01SS-T5
Alumite Treatment
Perpendicular surface is machining finished.
With Rotation-Prevention Function
Weight 156g
Environment RoHS Compliant



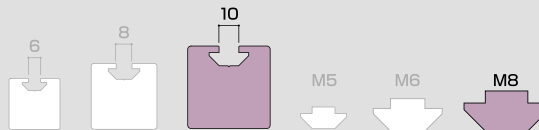
Parts
How to order
Item No.
SFJ-N19

Quantity (pcs)

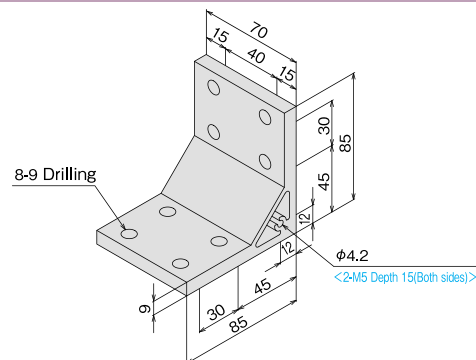
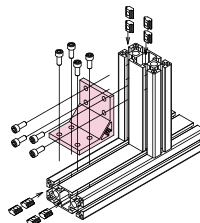


● Cap for Bracket
P123





Hard Bracket LW4080



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

■ Usable Frame



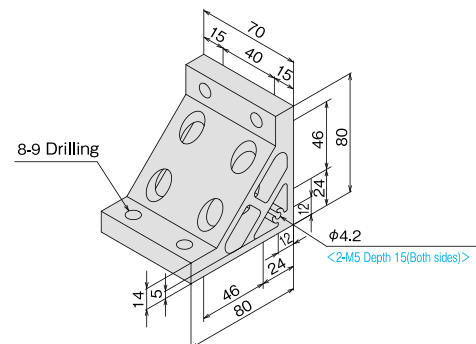
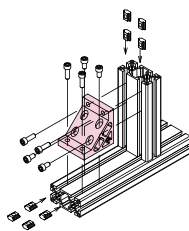
■ Kit Contents

- 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.)

■ Usable Frame



■ 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

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)

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)



Parts
How to order
Item No.
SFJ-N20

Quantity (pcs)

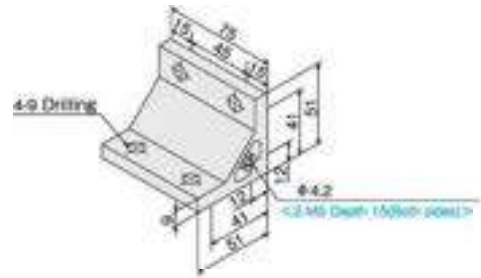
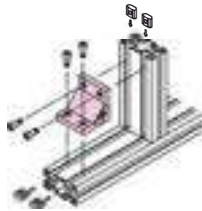


● Cap for Bracket
P123





Hard Bracket L4590



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

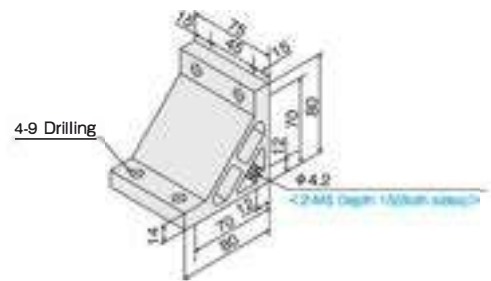
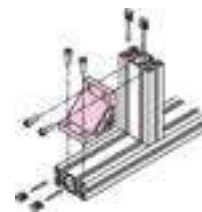
Kit Contents

- 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



Please use Kit with Tap to install Side Cover. (Refer P125 for details.)

Usable Frame

SF-45-90/1F
SF-90-90/H

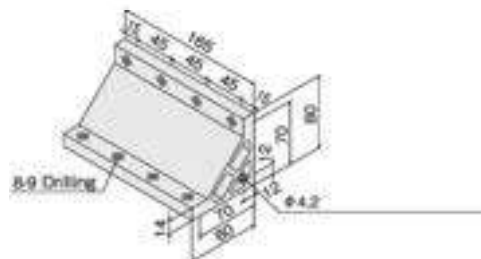
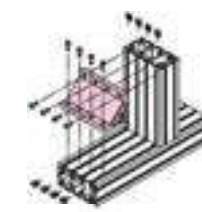
Kit Contents

- 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



Usable Frame

SF-90-180

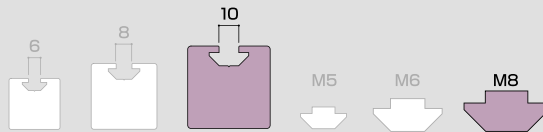
Kit Contents

- Hard Bracket G90180 ×1
 - Hexagon Socket Bolt (M8×25) ×8
 - T Nut L (M8) ×8
- ※ Bolt and Nut in (Stainless) Kit are stainless.

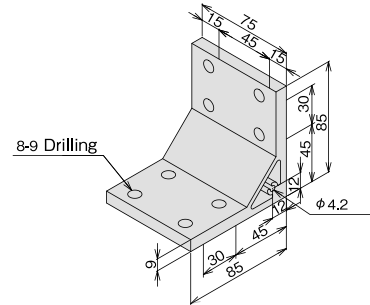
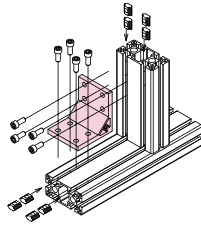
Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 846g
Environment ★RoHS Compliant
★Green Procurement

Name (Single Item)	Hard Bracket G90180	
Item No.	SFJ-N49	
Name (Bolt and Nut Kit)	Hard Bracket G90180 Kit	Hard Bracket G90180 (Stainless) Kit
Item No.	SFK-N49	SFK-N49S



Hard Bracket LW4590



Name(Single Item)	Hard Bracket LW4590	
Item No.	SFJ-N21	
Name(Bolt and Nut Kit)	Hard Bracket LW4590 Kit	Hard Bracket LW4590(Stainless)Kit
Item No.	SFK-N21	SFK-N21S

■Usable Frame

 SF-45-90/1F
SF-90-90/45-90-90

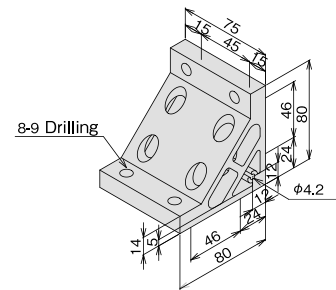
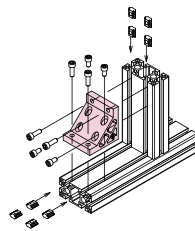
■Kit Contents

- Hard Bracket LW4590 ×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 276 g
Environment **RoHS** Compliant
Green Procurement

Hard Bracket GW90



Name(Single Item)	Hard Bracket GW90	
Item No.	SFJ-N22	
Name(Bolt and Nut Kit)	Hard Bracket GW90 Kit	Hard Bracket GW90(Stainless)Kit
Item No.	SFK-N22	SFK-N22S

■Usable Frame

 SF-45-90/1F
SF-90-90/45-90-90

■Kit Contents

- Hard Bracket GW90 ×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 353 g
Environment **RoHS** Compliant
Green Procurement

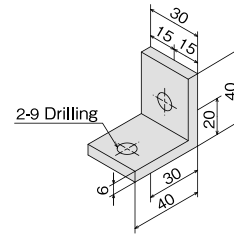
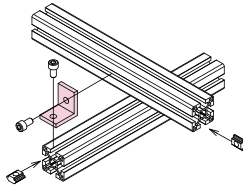


Parts
How to order
Item No.
SFJ-N21

Quantity (pcs)

Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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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)

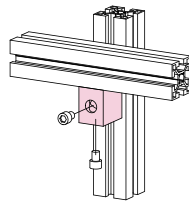
Kit Contents

- Angle Bracket L40×1
- Hexagon Socket Bolt (M8×15)×2
- T Nut L(M8)×2
- ※ Bolt and Nut in (Stainless) Kit are stainless.

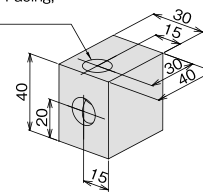
Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 34g
Environment ★RoHS Compliant
★Green Procurement

Angle Bracket Hard L40



2-9 Drilling,
14 Deep Spot Facing,
Depth 34



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)

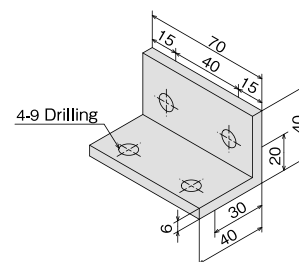
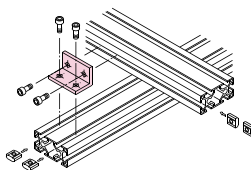
Kit Contents

- 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

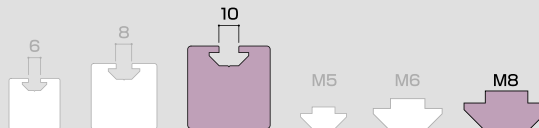
Material Aluminium Alloy
Alumite Treatment
Weight 80g
Environment ★RoHS Compliant
★Green Procurement

SF20
SS SizeSF30
S SizeSF40-45
L Size

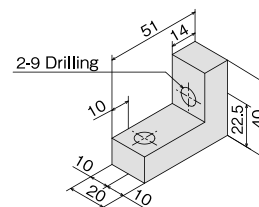
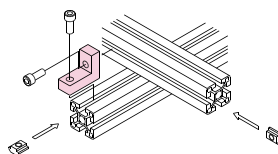
Complex Parts

Door · Panel
Clean Equipment

Technical Data



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)

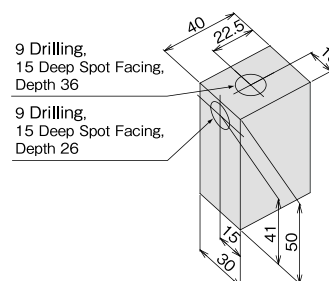
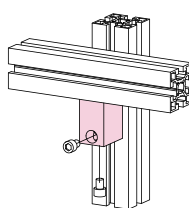
Kit Contents

- 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 SF45 series
(Groove Width 10mm)

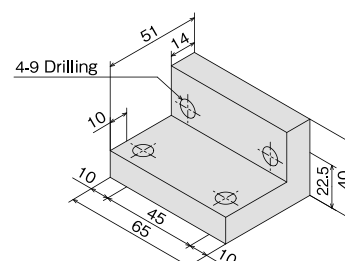
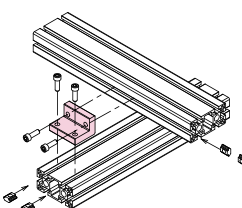
Kit Contents

- Angle Bracket Hard 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 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



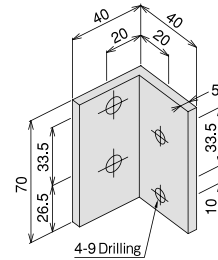
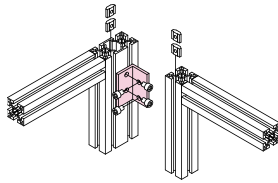
Parts
How to order
Item No.
SFJ-007

Quantity (pcs)



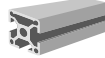
Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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Offset Bracket L4080



Name(Single Item)	Offset Bracket L4080
Item No.	SFJ-A22
Name(Bolt and Nut Kit)	Offset Bracket L4080 Kit (Offset Bracket L4080 (Stainless) Kit)
Item No.	SFK-A22 (SFK A22S)

Usable Frame



Compatible to all SF40 series
(Groove Width 10mm)

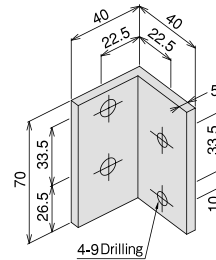
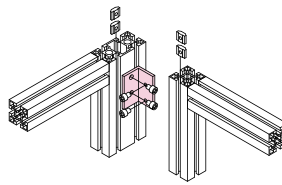
Kit Contents

- Offset 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 A6063
Alumite Treatment
(Special order: Black Alumite is also available.)
Weight 67g
Environment **RoHS** Compliant

Offset Bracket L4590



Name(Single Item)	Offset Bracket L4590
Item No.	SFJ-A23
Name(Bolt and Nut Kit)	Offset Bracket L4590 Kit (Offset Bracket L4590 (Stainless) Kit)
Item No.	SFK-A23 (SFK-A23S)

Usable Frame



Compatible to all SF45 series
(Groove Width 10mm)

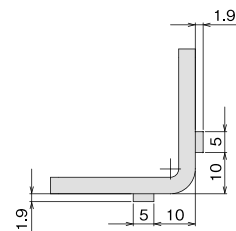
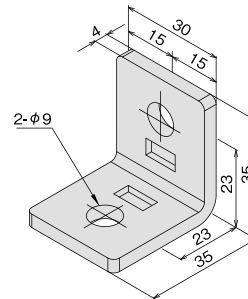
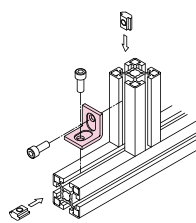
Kit Contents

- Offset Bracket L4590×1
- Hexagon Socket Bolt (M8×15)×4
- T Nut L (M8)×4
- ※ Bolt and Nut in (Stainless) Kit are stainless.

Material/Technical Data

Material A6063
Alumite Treatment
(Special order: Black Alumite is also available.)
Weight 67g
Environment **RoHS** Compliant

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

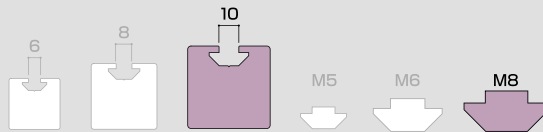
Material SUS304
Weight 58g
Environment **RoHS** Compliant
Green Procurement

SF20
SS SizeSF30
S SizeSF40-45
L Size

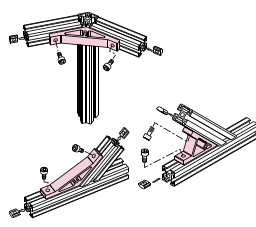
Complex Parts

Door Panel
Clean Equipment

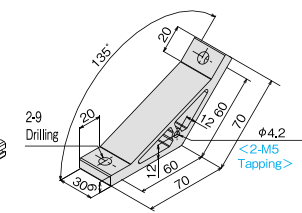
Technical Data



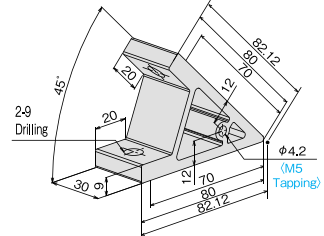
Hard Bracket L•DE



Hard Bracket L•DE135



Hard Bracket L•DE45



Please use Kit with Tap to install Side Cover.
(Refer P125 for detail.)

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.

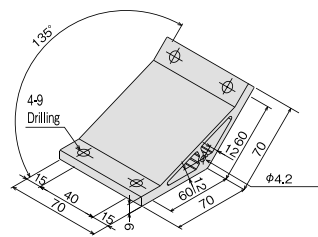
Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 103g (L-DE135)
88g (L-DE45)
Environment **RoHS** Compliant
Green Procurement

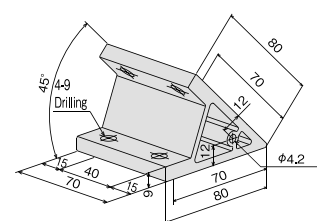
Hard Bracket L4080•DE



Hard Bracket L4080-DE135



Hard Bracket L4080-DE45



Please use Kit with Tap to install Side Cover.
(Refer P125 for detail.)

Name(Single Item)	Hard Bracket L4080-DE135		Hard Bracket L4080-DE45	
Item No.	SFJ-N42		SFJ-N41	
Name(Bolt and Nut Kit)	L4080-DE135 Kit	L4080-DE135(Stainless)Kit	L4080-DE45 Kit	L4080-DE45(Stainless)Kit
Item No.	SFK-N42	SFK-N42S	SFK-N41	SFK-N41S

Usable Frame



SF-40-80 45° slant cut frame

Kit Contents

〈Hard Bracket L4080-DE135 Kit〉

- Hard Bracket L4080-DE135 ×1
- Hexagon Socket Bolt (M8×20) ×4
- T Nut L (M8) ×4

〈Hard Bracket L4080-DE45 Kit〉

- Hard Bracket L4080-DE45 ×1
- Hexagon Socket Bolt (M8×20) ×4
- T Nut L (M8) ×4

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

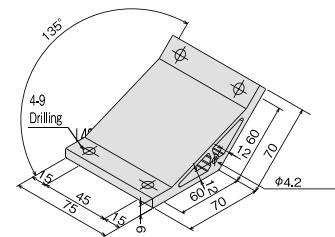
Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 239g (L4080-DE135)
203g (L4080-DE45)
Environment **RoHS** Compliant
Green Procurement

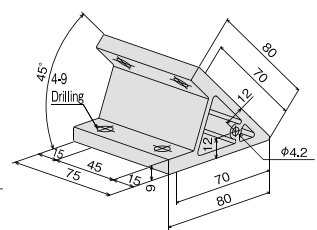
Hard Bracket L4590•DE



Hard Bracket L4590-DE135



Hard Bracket L4590-DE45



Please use Kit with Tap to install Side Cover.
(Refer P125 for detail.)

Name(Single Item)	Hard Bracket L4590-DE135		Hard Bracket L4590-DE45	
Item No.	SFJ-N44		SFJ-N43	
Name(Bolt and Nut Kit)	L4590-DE135 Kit	L4590-DE135(Stainless)Kit	L4590-DE45 Kit	L4590-DE45(Stainless)Kit
Item No.	SFK-N44	SFK-N44S	SFK-N43	SFK-N43S

Usable Frame



SF-45-90 45° slant cut frame

Kit Contents

〈Hard Bracket L4590-DE135 Kit〉

- Hard Bracket L4590-DE135 ×1
- Hexagon Socket Bolt (M8×20) ×4
- T Nut L (M8) ×4

〈Hard Bracket L4590-DE45 Kit〉

- Hard Bracket L4590-DE45 ×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 255g (L4590-DE135)
219g (L4590-DE45)
Environment **RoHS** Compliant
Green Procurement



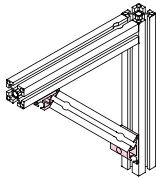
Parts
How to order
Item No.
SFJ-N35

Quantity (pcs)

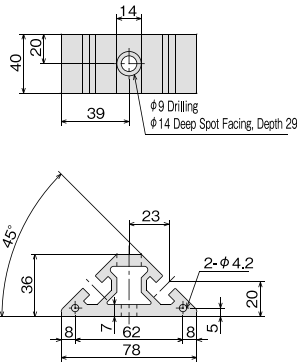


Frame for 40·45 Nut for 40·45 Bracket for 40·45 Adjuster for 40·45 Accessory for 40·45

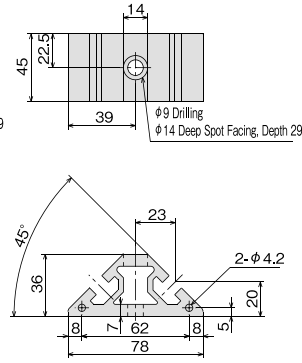
Truss Joint L40 / L45



Truss Joint L40



Truss Joint L45



※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

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

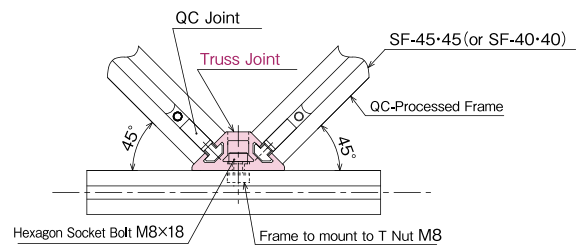
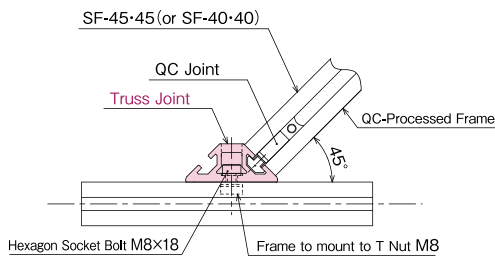
Material/Technical Data

Truss Joint L40/L45
Material Aluminium Alloy
Alumite Treatment
Weight 103g(L40)
117g(L45)
Environment RoHS Compliant
Green Procurement

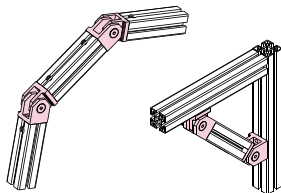
Truss Joint

<Truss Joint>

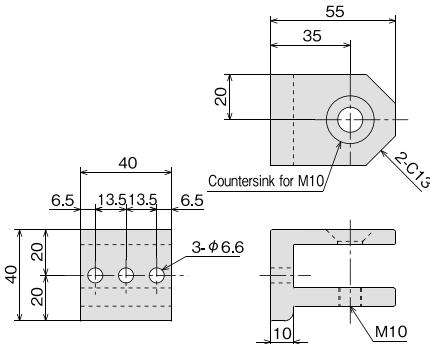
Best suited to reinforce in 45° or truss stiffening.



Turn Bracket 40A / 40B

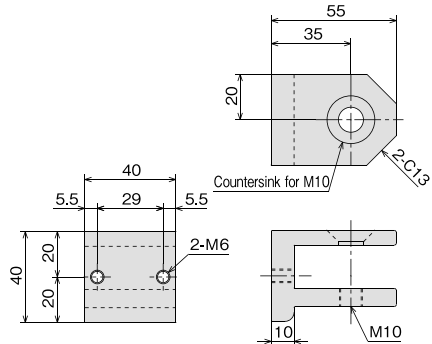


Turn Bracket 40A



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

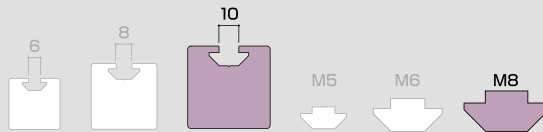
Usable Frame



(Section Installation)
SF-40·40(1F/K/2H include)
(Side Installation)
Compatible to all SF40 series

Material/Technical Data

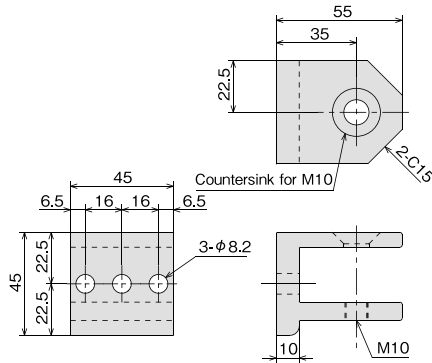
Turn Bracket 40A/40B
Material Aluminium Alloy
Alumite Treatment
Weight 97g(40A)
98g(40B)
Environment RoHS Compliant



Turn Bracket 45A / 45B

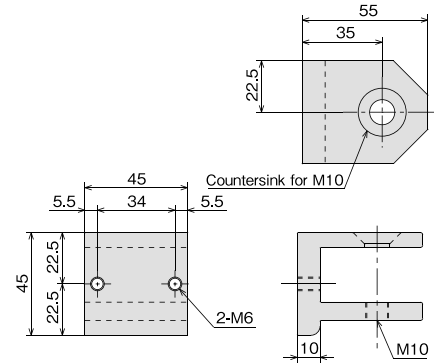


Turn Bracket 45A



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



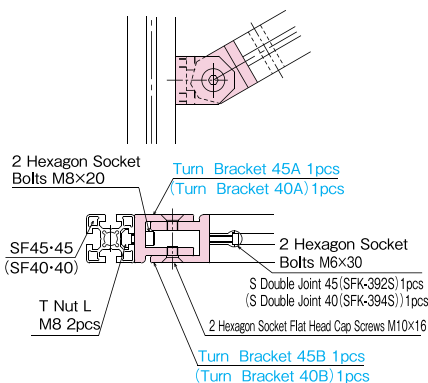
〈Section Installation〉
SF-45-45(1F/K/2H include)
〈Side Installation〉
Compatible to all SF45 series

Material/Technical Data

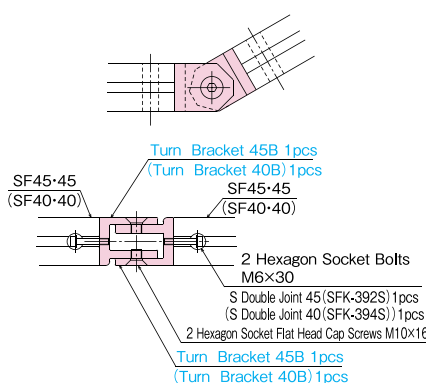
Material Aluminium Alloy
Alumite Treatment
Weight 113g(45A)
116g(45B)
Environment RoHS Compliant

Example of mounting Turn Bracket ※This product cannot be used as supporting point of movable part.

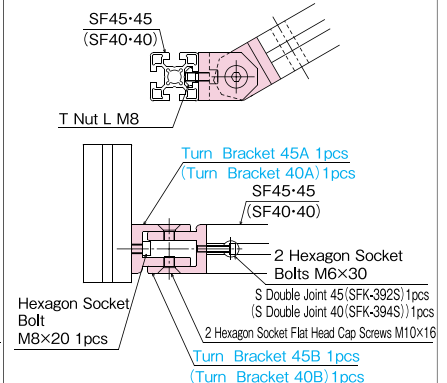
〈In case of installing to side and end of the Frames.〉



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



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

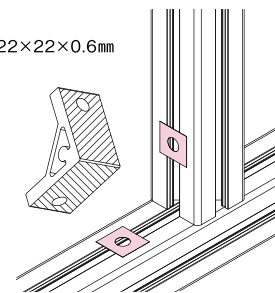


●Use Processing Symbols written from P204 to specify frilling for Double Joint.

Friction Sheet M8 with Case (50pcs/Set)



Dimension : 22×22×0.6mm



Name	Friction Sheet M8 with Case (50pcs/Set)
Item No.	SFA-M01

Material/Technical Data

Material Sheet : Urethane Resin
Case : ABS
Weight Sheet : 0.03g/pcs (M8)
Case : 20.3g
Environment RoHS Compliant



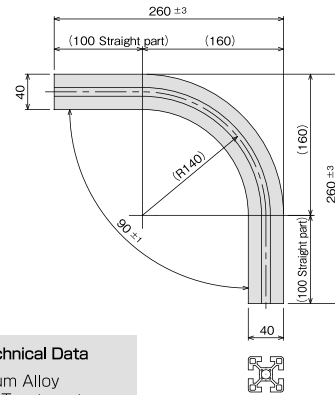
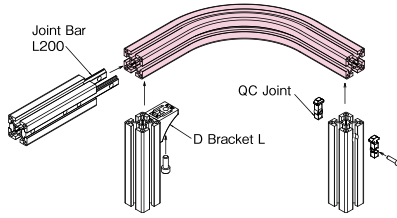
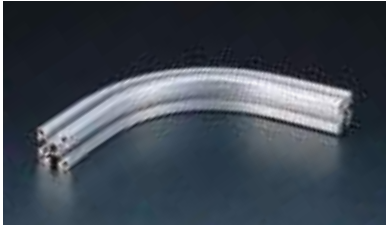
Parts
How to order
Item No.
SFK-43A

Quantity (pcs)



Frame for 40·45
Nut for 40·45
Bracket for 40·45
Adjuster for 40·45
Accessory for 40·45

Bend Bracket L40

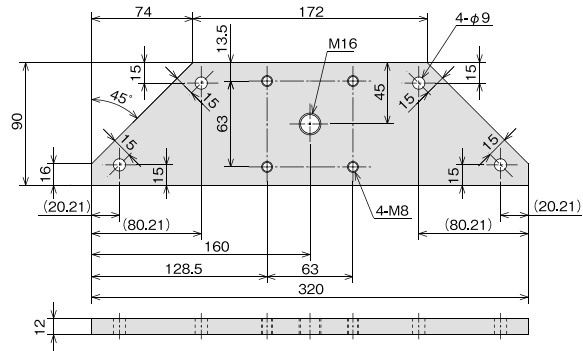
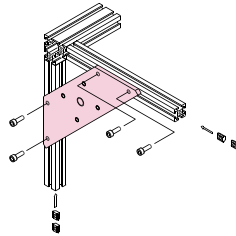


Name	Bend Bracket L40
Item No.	SFJ-V02

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

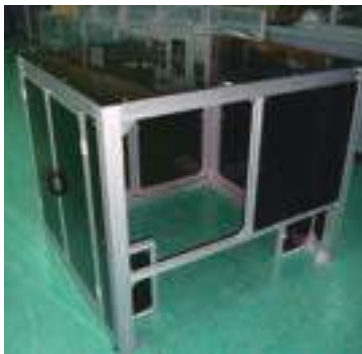


Name	Caster Plate L (Caster Plate L(Stainless))
Item No.	★SFJ-7A3 (★SFJ-7A3S)

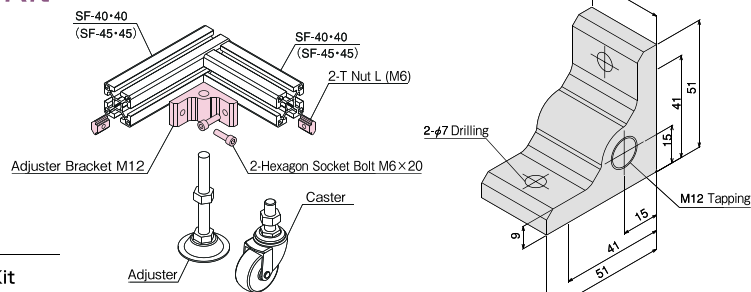
Usable Frame
Compatible to all SF40 and 45 series (Groove Width 10mm)

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



Adjuster Bracket M12 L Kit



Name(Single Item)	Adjuster Bracket M12 L Kit
Item No.	SFK-7E2

Kit Contents
●Adjuster Bracket M12×1
●T Nut L (M6)×2
●Hexagon Socket Bolt(M6×20) (Uni-Chrome)×2

Material/Technical Data
Material Aluminum Extrusion
Weight 121g
Environment **RoHS** Compliant

SF20
SS Size

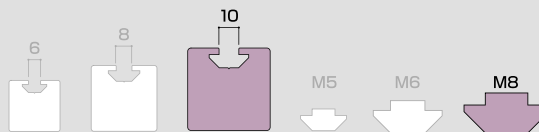
SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

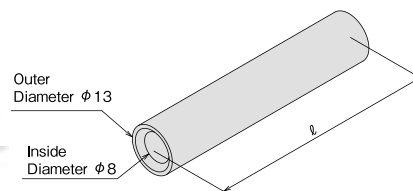
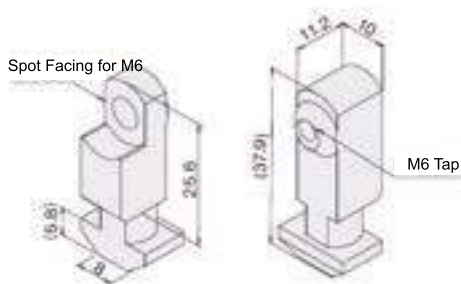


QC Joint L



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-Q40A	SFK-Q41A	SFK-Q42A	SFK-Q43A	SFK-Q44A

Kit Contents	Kit Name	QC Joint	Round Metal Tool	Bolt
	QC Joint L40 Kit	QC Joint L ×1 set	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

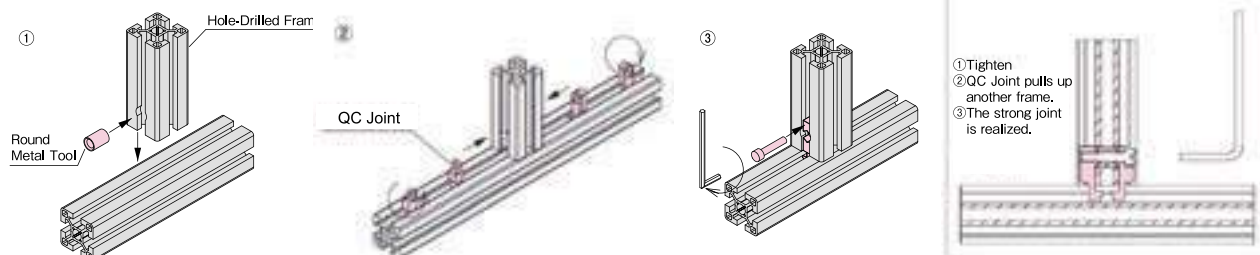
QC Joint L			L Round metal tool		
Material	Aluminum Die-Cast		Aluminium Alloy		
	L40 Kit	L45 Kit	L60 Kit	L80 Kit	L90 Kit
Weight	30g	32g	39g	48g	52g
Environment	RoHS Compliant Green Procurement				

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.

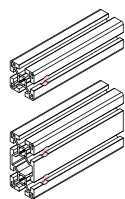
〈How to assemble〉



〈Example of Kit Selection〉

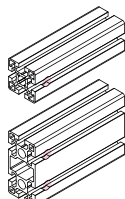
●QC Joint L40 Kit

(For drilled hole to the direction of 40mm)



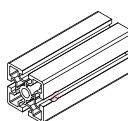
●QC Joint L45 Kit

(For drilled hole to the direction of 45mm)



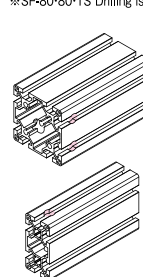
●QC Joint L60 Kit

(For drilled hole to the direction of 60mm)



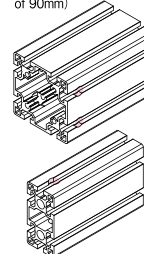
●QC Joint L80 Kit

(For drilled hole to the direction of 80mm)
※SF-80-80-1S Drilling is as same as L60 Kit

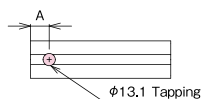
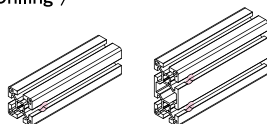


●QC Joint L90 Kit

(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



●Drilled by SUS
Processing Symbol P202



Parts
How to order
Item No.
SFK-Q40

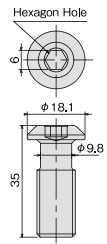
Quantity (pcs)



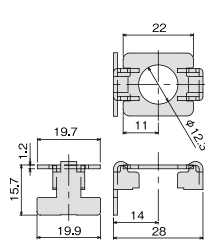
TG Joint Kit 4045 / 60 / 80 / Wrench Hole Cap



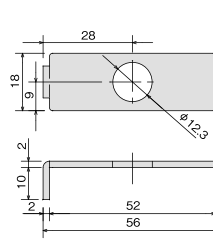
〈TG Bolt M12〉



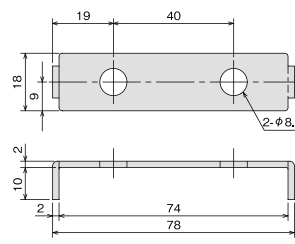
〈TG Plate 4045〉



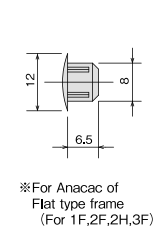
〈TG Plate 60〉



〈TG Plate 80〉



Wrench Hole Cap



■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) x2

Name	4045	TG Joint Kit 60	80	Wrench Hole Cap
Item No.	★SFK-207	★SFK-208	★SFK-307	★SFA-155

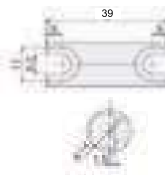
■Material/Technical Data

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)
Environment ★RoHS Compliant	★Green Procurement	0.3g (Wrench Hole Cap)

Double Joint Kit L 40 / 45 / 60 / 80

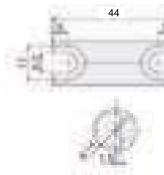


Double Joint Kit L40



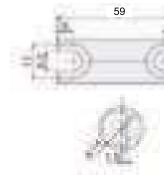
■Usable Frame
SF-40-40, SF-40-80
SF-K-40-40, SF-K-40-80

Double Joint Kit L45



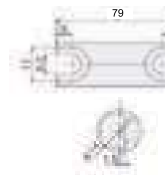
■Usable Frame
SF-45-45, SF-45-90
SF-K-45-45, SF-K-45-90

Double Joint Kit L60



■Usable Frame
SF-60-60·1S

Double Joint Kit L80



■Usable Frame
SF-80-80 (H)
SF-80-80·1S
SF-40-80

Name	L40	Double Joint Kit L45	L60	L80
Item No.	SFK-317A	SFK-318A	SFK-320A	SFK-321A

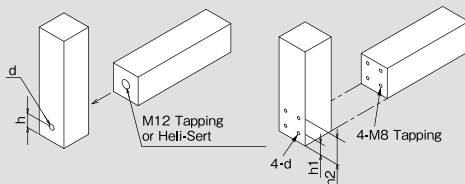
■Kit Contents

〈Double Joint Kit L 40/45/60/80〉
●Each Double Joint Kit L×1
●Hexagon Socket Bolt (M6×30) Stainless x2
●ST Nut L (M6)×2

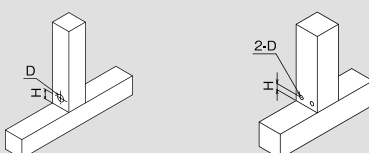
■Material/Technical Data

Material	A6005CSS-T5
Weight	50g (Kit L40) 58g (Kit L60) 52g (Kit L45) 67g (Kit L80)
Environment	RoHS Compliant

〈TG Joint Drilling Jig〉



〈Double Joint Drilling Jig〉



TG Joint · Double Joint

TG, 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.



●Refer from P188 how to assemble

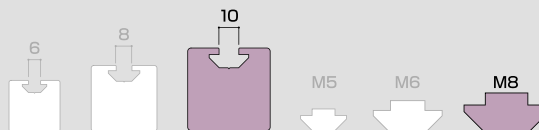
Processing size (mm)

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	φ15.1	

Usable Frame	H	h1	h2	D	d
SF-80-80 (H)	20	20	40	φ13.1	φ8
SF-80-80·1S		—	—		



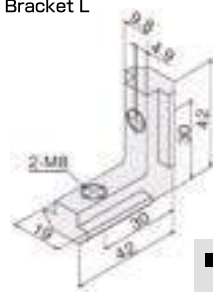
●Drillid by SUS
Processing
Symbol P202~



Blind Bracket L



Blind Bracket L



Name	Blind Bracket L
Item No.	SFK-622A

Usable Frame

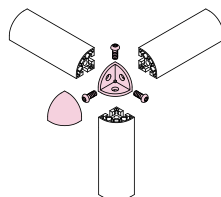


Compatible to all SF40 and 45 series (430):
Other Frame SF30 series
(K Frame excluded)

Material/Technical Data

Blind Bracket L
Material Aluminum Die-Cast
(2 Set Screws (M8×10)
Stainless Included)
Weight 31g
Environment **RoHS** Compliant
Green Procurement

R Bracket L40 Kit / L45 Kit

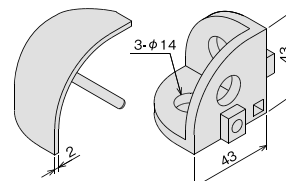
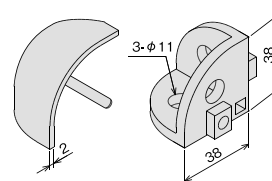


R Cap L40

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



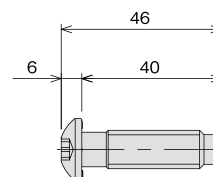
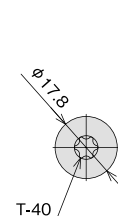
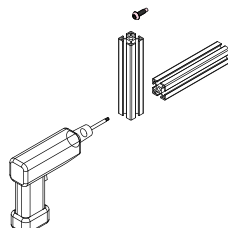
(R Bracket L40 Kit)
SF-40-40-R
(R Bracket L45 Kit)
SF-45-45-R

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)

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

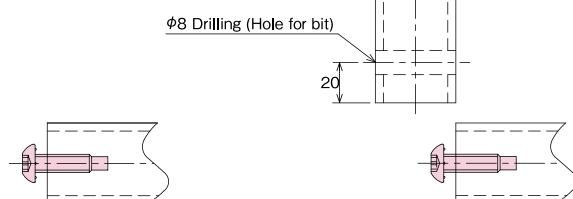
Tapping Bolt L40
Material SAE1022Si
Uni-Chrome Plating
Weight 31g
Environment **RoHS** Compliant
Green Procurement

How to fix Tapping Bolt

①

②

③



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.

Put the bolt head through T slot of another frame.

Tighten by Manual tool to fix.

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



●Drillid by SUS
Processing Symbol P206~



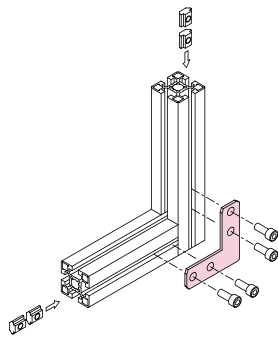
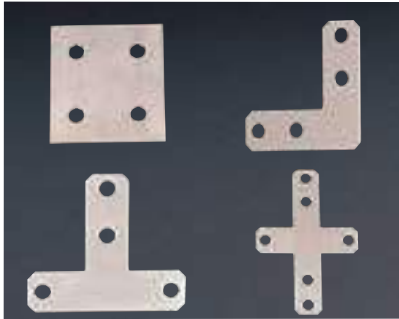
Parts
How to order
Item No.
SFK-602S

Quantity (pcs)



Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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Plate Bracket L



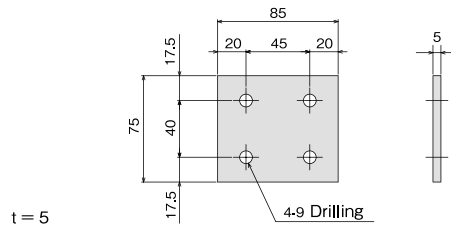
Usable Frame

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 LG

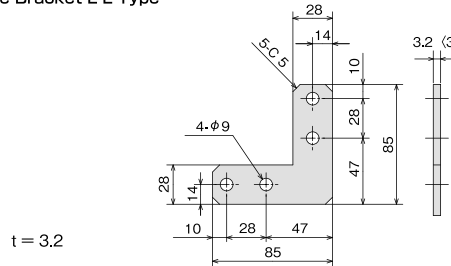


Kit Contents

- ◁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

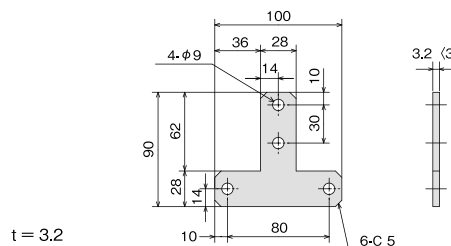


Kit Contents

- ◁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

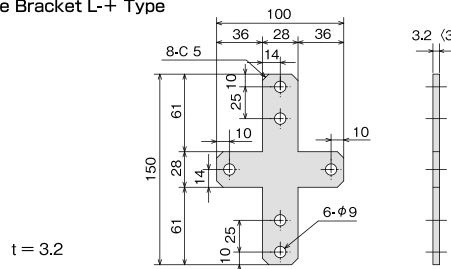


Kit Contents

- ◁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



Kit Contents

- ◁Plate Bracket L+ Type Kit
- Plate Bracket L+×1
- Hexagon Socket Bolt (M8×15)×6
- T Nut L(M8)×6

Name	Plate Bracket L+ Type	Plate Bracket L+ Type Kit
Item No.	★SFJ-108	★SFK-108

SF20
SS Size

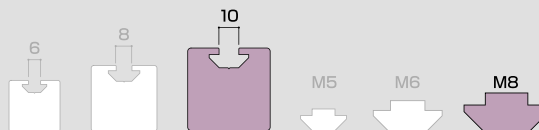
SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

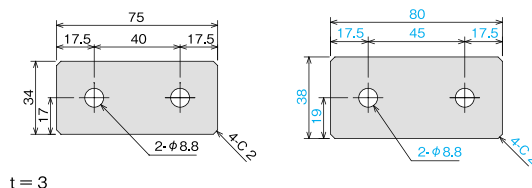


S Plate Bracket



S Plate Bracket L40-H2

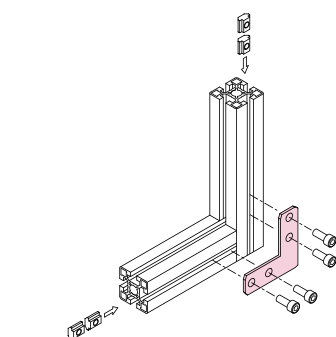
S Plate Bracket L45-H2



■Kit Contents

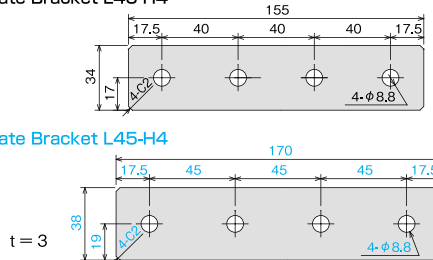
- ◁Plate Bracket L40(L45) -H2 Kit
- Plate Bracket L40-H2 (or L45-H2)×1
- Hexagon Socket Bolt(M8×15)Stainless×2
- ST Nut L(M8)×2

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



■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)

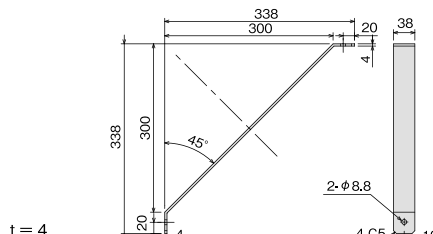
■Usable Frame

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 Corner Support Bracket L

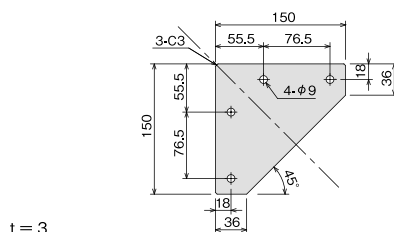


■Kit Contents

- ◁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



■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



Parts
How to order
Item No.
SFJ-126S

Quantity (pcs)
□□

Adjuster Kit

SF20
SS SizeSF30
S SizeSF40-45
L Size

Complex Parts

Door Panel
Clean Equipment

Technical Data

■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 L

	Material	Treatment	Weight
Adjuster Caster Plate L	SS400	Uni-Chrome	1.03kg
Adjuster Caster Plate L (Stainless)	SUS304	—	1.04kg

Adjuster Caster Plate L (Stainless)

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

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 90

	Material	Treatment	Weight
Adjuster Caster Plate 90	SS400	Uni-Chrome	2.5kg

■Adjuster

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

Adjuster M20

	Material	Treatment	Load Capacity	Weight
Adjuster M20	SS400	Zn Black	500kg	536g

Adjuster BM20 (Stainless)

	Material	Treatment	Load Capacity	Weight
Adjuster BM20 (Stainless)	SUS304	Electrolytic Polishing	880kg	546g

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

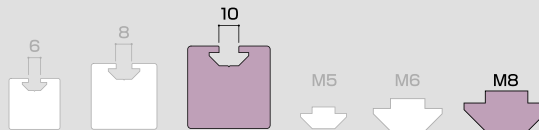
Caster C

	Material	Load Capacity	Weight
Caster C	Nylon	300kg	902g

Caster C (Stainless)

	Material	Load Capacity	Weight
Caster C (Stainless)	MC Nylon	150kg	520g

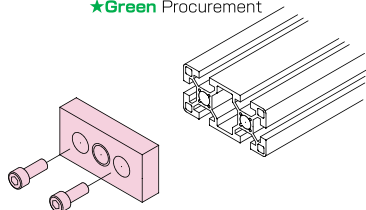
	Item No.	Name	Compatible Frames	Kit Contents
Adjuster + Plate	SFK-501A	Level Adjuster Kit L	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Plate Lx1 ●Adjuster M16x1 ●T Nut L (M8)x4 ●Hexagon Socket Bolt (M8x20)x4
	SFK-501S	Level Adjuster Kit L (Stainless)	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Plate L (Stainless)x1 ●Adjuster BM16 (Stainless)x1 ●ST Nut L (M8)x4 ●Hexagon Socket Bolt (M8x20) Stainlessx4
	SFK-513A	Level Adjuster Kit 80	SF-80-80 SF-80-80-H	●Adjuster Caster Plate 80x1 ●Adjuster M20x1 ●Flat Washer (M8)x8 ●T Nut L (M8)x8 ●Hexagon Socket Bolt (M8x25)x8
	SFK-513S	Level Adjuster Kit 80 (Stainless)	SF-80-80 SF-80-80-H	●Adjuster Caster Plate 80 (Stainless)x1 ●Hexagon Socket Bolt (M8x25) Stainlessx8 ●ST Nut L (M8)x8 ●Adjuster BM20 (Stainless)x1 ●Flat Washer (M8) Stainlessx8
	SFK-515	Level Adjuster Kit 90	SF-90-90 SF-90-90-H	●Adjuster Caster Plate 90x1 ●Adjuster M20x1 ●Flat Washer (M8)x8 ●T Nut (M8)x8 ●Hexagon Socket Bolt (M8x25)x8
Adjuster Caster + Plate	SFK-502A	Level Adjuster Kit L with Caster	Compatible to all SF40 and 45 series (Groove Width 10mm)	●Adjuster Caster Plate Lx1 ●Caster Bx1 ●Hexagon Socket Bolt (M6x10)x4 ●Adjuster M16x1 ●T Nut L (M8)x4 ●Hexagon Socket Bolt (M8x20)x4
	SFK-502S	Level Adjuster Kit L with Caster (Stainless)	Compatible to all SF40 and 45 series (Groove Width 10mm)**	●Adjuster Caster Plate L (Stainless)x1 ●ST Nut L (M8)x4 ●Hexagon Socket Bolt (M8x12) Stainlessx4 ●Adjuster BM16 (Stainless)x1 ●Caster B (Stainless)x1 ●Hexagon Socket Bolt (M8x20) Stainlessx4
	SFK-514A	Level Adjuster Kit 80 with Caster	SF-80-80 SF-80-80-H	●Adjuster Caster Plate 80x1 ●Adjuster M20x1 ●Hexagon Socket Bolt (M8x25)x8 ●Caster Cx1 ●T Nut L (M8)x8 ●Flat Washer (M8)x8 ●Hexagon Socket Bolt (M8x12)x4
	SFK-514S	Level Adjuster Kit 80 with Caster (Stainless)	SF-80-80 SF-80-80-H	●Adjuster Caster Plate 80 (Stainless)x1 ●Adjuster BM20 (Stainless)x1 ●Hexagon Socket Bolt (M8x25) Stainlessx8 ●Caster C (Stainless)x1 ●ST Nut L (M8)x8 ●Flat Washer (M8) Stainlessx8 ●Hexagon Socket Bolt (M8x12) Stainlessx4
	SFK-516	Level Adjuster Kit 90 with Caster	SF-90-90 SF-90-90-H	●Adjuster Caster Plate 90x1 ●Adjuster M20x1 ●Hexagon Socket Bolt (M8x25)x8 ●Caster Cx1 ●T Nut L (M8)x8 ●Flat Washer (M8)x8 ●Hexagon Socket Bolt (M8x12)x4



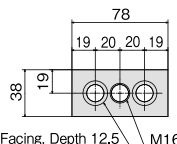
Foot Base



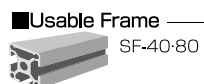
Environment **★RoHS** Compliant
★Green Procurement



Foot Base 4080



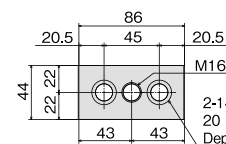
t=16



(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

Name	Foot Base 4080 (Foot Base 4080(Stainless))
Item No.	★SFK-57A (★SFK-57AS)

Foot Base 4590



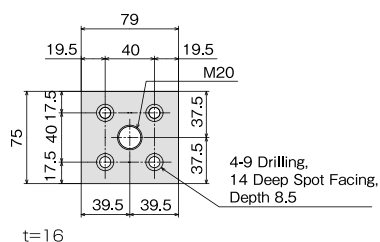
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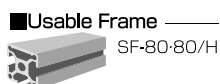
(Material)	
Foot Base 4590	SS400 Uni-Chrome Plating 2 Hexagon Socket Bolts (M12×25) Included Weight/371g

Name	Foot Base 4590
Item No.	★SFK-60A

Foot Base 8080



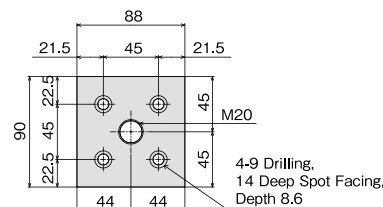
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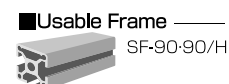
(Material)	
Foot Base 8080	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×25) Included Weight/625g
Foot Base 8080 (Stainless)	SUS304 4 Hexagon Socket Bolts (M8×25) Stainless Included Weight/631g

Name	Foot Base 8080 (Foot Base 8080(Stainless))
Item No.	★SFK-59A (★SFK-59AS)

Foot Base 9090



t=16



(Material)	
Foot Base 9090	SS400 Uni-Chrome Plating 4 Hexagon Socket Bolts (M8×25) Included Weight/861g

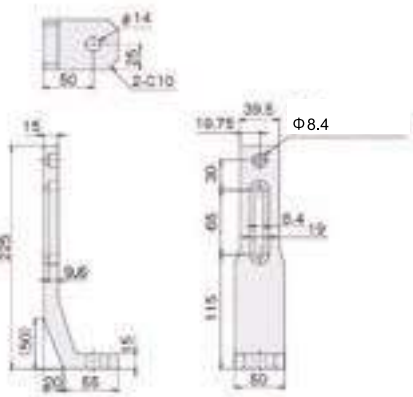
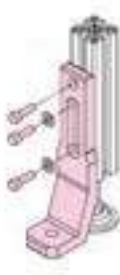
Name	Foot Base 9090
Item No.	★SFK-54A



Parts
How to order
Item No.
SFK-57A

Quantity (pcs)

Anchor Bracket



Name(Single Item)	Anchor Bracket
Item No.	SFJ- 74A
Name(Bolt and Nut Kit)	Anchor Bracket Kit
Item No.	SFK-74AS

Usable Frame



SF40-45 series (Groove Width 10mm)
※2F Frame excluded

Kit Contents

●Anchor Bracket ×1

●ST Nut L(M8)×3

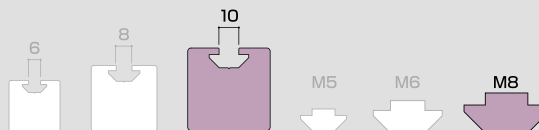
●Hexagon Socket Bolt (M8×18)Stainless×3

Material/Technical Data

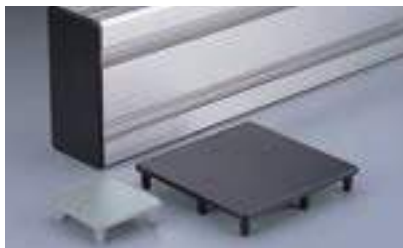
Material A6005CSS-T5

Weight 461g (Anchor Bracket)

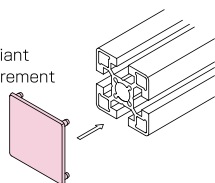
Environment **RoHS** Compliant



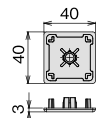
Frame Cap



Material Polyamide
Weight In Drowing
Environment **RoHS** Compliant
Green Procurement



Frame Cap N4040

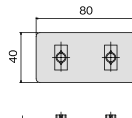


Weight/5.4g

■ Usable Frame

SF-40-40, SF-40-40-1F/2F/3F/2H/SF-K-40-40

Frame Cap 4080

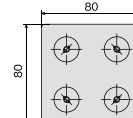


Weight/10.5g

■ Usable Frame

SF-40-80, SF-40-80-1F*SF-40-160/SF-K-40-80

Frame Cap 8080



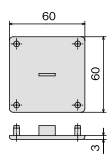
Weight/22.1g

■ Usable Frame

SF-80-80/H *SF-80-160

Name	Frame Cap 4040 (Black) (Light Gray)		Frame Cap 4080 (Black) (Light Gray)		Frame Cap 8080 (Black) (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

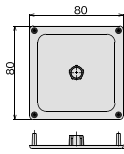


Weight/12.5g

■ Usable Frame

SF-60-60-1S

Frame Cap 80801S

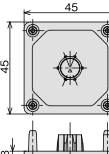


Weight/17.4g

■ Usable Frame

SF-80-80-1S

Frame Cap 4545

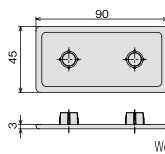


Weight/7.5g

■ Usable Frame

SF-45-45/1F/2F/3F/2H, SF-K-45-45/1F/2F

Frame Cap 4590

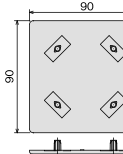


Weight/14.2g

■ Usable Frame

SF-45-90/1F, SF-K-45-90*SF-45-180

Frame Cap 9090



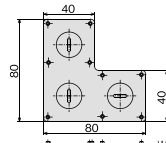
Weight/28.2g

■ Usable Frame

SF-90-90/H *SF-90-180

Name	Frame Cap 60601S (Black) (Light Gray)		Frame Cap 80801S (Black) (Light Gray)		Frame Cap 4545 (Black) (Light Gray)		Frame Cap 4590 (Black) (Light Gray)		Frame Cap 9090 (Black) (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

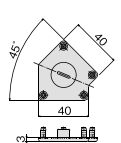


Weight/16.9g

■ Usable Frame

SF-40-80-80

Frame Cap 40-DE45

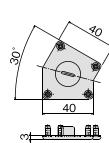


Weight/5.8g

■ Usable Frame

SF-40-DE45

Frame Cap 40-DE30

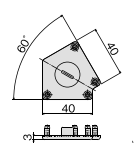


Weight/5.8g

■ Usable Frame

SF-40-DE30

Frame Cap 40-DE60

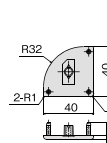


Weight/5.8g

■ Usable Frame

SF-40-DE60

Frame Cap 40-40-R



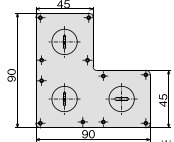
Weight/4.8g

■ Usable Frame

SF-40-40-R

Name	Frame Cap 40-80-80 (Black) (Light Gray)		Frame Cap 40-DE45 (Black) (Light Gray)		Frame Cap 40-DE30 (Black) (Light Gray)		Frame Cap 40-DE60 (Black) (Light Gray)		Frame Cap 40-40-R (Black) (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

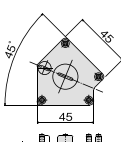


Weight/21.1g

■ Usable Frame

SF-45-90-90

Frame Cap 45-DE45

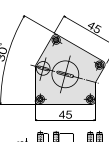


Weight/7.5g

■ Usable Frame

SF-45-DE45

Frame Cap 45-DE30

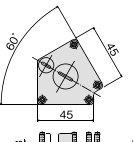


Weight/7.5g

■ Usable Frame

SF-45-DE30

Frame Cap 45-DE60

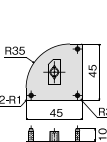


Weight/7.5g

■ 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) (Light Gray)		Frame Cap 45-DE45 (Black) (Light Gray)		Frame Cap 45-DE30 (Black) (Light Gray)		Frame Cap 45-DE60 (Black) (Light Gray)		Frame Cap 45-45-R (Black) (Light Gray)	
Item No.	SFA-J9D	SFA-J9DG	SFA-J8B	SFA-J8BG	SFA-J8A	SFA-J8AG	SFA-J8C	SFA-J8CG	SFA-025	SFA-025G



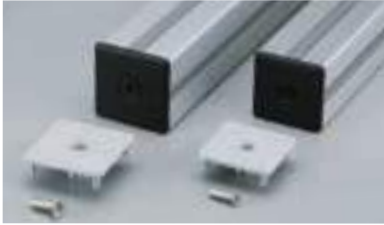
Parts
How to order
Item No.
SFA-034B

Quantity (pcs)

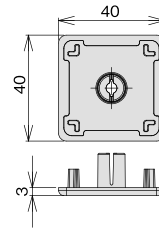
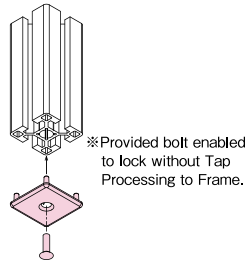


Frame for 40·45	Nut for 40·45	Bracket for 40·45	Adjuster for 40·45	Accessory for 40·45
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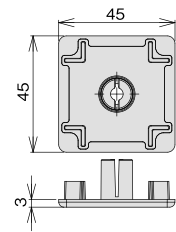
Frame Cap Lock Type N4040 / N4545



Material Polyamide(Cap), SWCHIOR(Screw), Chromate Black or Stainless(Screw)
Weight 7.3g(4040), 10.2g(4545)
Environment **RoHS** Compliant **Green** Procurement



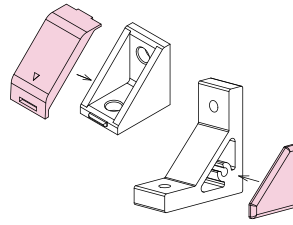
■ Usable Frame
SF-40-40



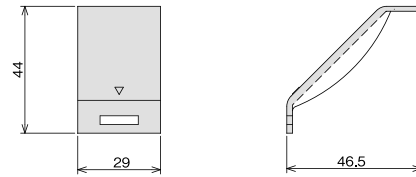
■ Usable Frame
SF-45-45

Name	Frame Cap Lock Type N4040(Black)*1	Frame Cap Lock Type N4040(Light Gray)*2	Frame Cap Lock Type N4545(Black)*3	Frame Cap Lock Type N4545(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		*3 With Small Flat Screw with Cross Hole (M6×18) Chromate Black	
	*2 With Small Flat Screw with Cross Hole (M5×16) Stainless		*4 With Small Flat Screw with Cross Hole (M6×18) Stainless	

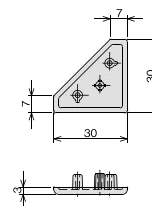
D Bracket Cap L / Hard Bracket Cap



D Bracket Cap L



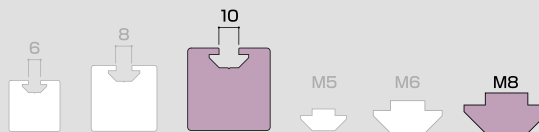
Hard Bracket Cap



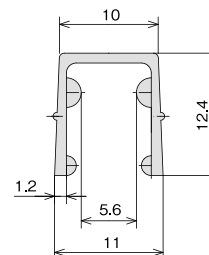
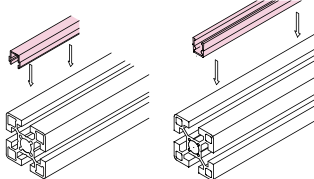
Name	D Bracket Cap L(Black)	D Bracket Cap L(Light Gray)
Item No.	SFA-J14	SFA-J14G
Name	Hard Bracket Cap(Light Gray)	
Item No.	SFA-J11G	

■ Usable Frame
 (D Bracket Cap L)
 D Bracket L
 (Hard Bracket Cap)
 Hard Bracket L/Black
 L4080/Black
 L4590/Black

■ Material/Technical Data
Material Polyamide
Weight 6.0g(D Bracket Cap L)
 1.8g(Hard Bracket Cap)
Environment **RoHS** Compliant
Green Procurement



Slot Cap



Name	(Black)	Slot Cap L (ℓ=2000) (Light Gray)	(Green)
Item No.	SFA-102	SFA-102G	SFA-102M
Name	(Blue)	Slot Cap L (ℓ=2000) (Yellow)	(Red)
Item No.	SFA-102L	SFA-102Y	SFA-102R

■ Usable Frame

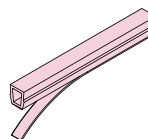
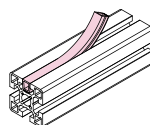


Compatible to all SF40 and 45 series
(Groove Width 10mm)

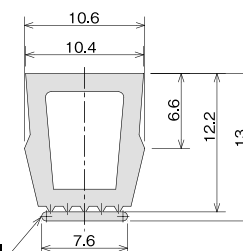
■ Material/Technical Data

Material Polyethylene
Weight 46g/m
Environment **RoHS** Compliant
Green Procurement

Slot Seal



*Please remove the bottom
part to install SF40 Series.



Please remove to install
SF40 Series.

Name	Slot Seal L (ℓ=5000)
Item No.	SFA-172

■ Usable Frame



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

■ Material/Technical Data

Material Elastomer
Weight 68g/m
Environment **RoHS** Compliant
Green Procurement



Parts
How to order
Item No.
SFA-102

Quantity (pcs)



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

Frame for 40·45 Nut for 40·45 Bracket for 40·45 Adjuster for 40·45 Accessory for 40·45

SF20 SS Size

SF30 S Size

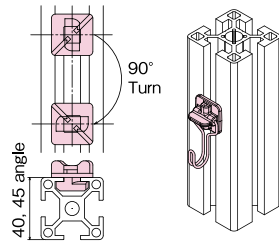
SF40·45 L Size

Complex Parts

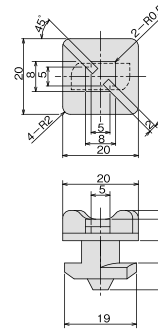
Door Panel Clean Equipment

Technical Data

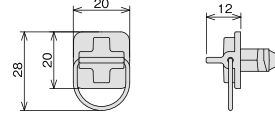
Cable Clamp L / Slot Hook / Slot Hook L (U), (J)



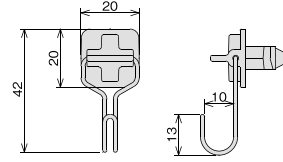
Cable Clamp L



Slot Hook L (U)



Slot Hook L (J)



Name	Cable Clamp L (50 pcs/Pack)	
	(Black)	(Light Gray)
Item No.	C1P-B12C	C1P-O12C

Name	Slot Hook L (U)	Slot Hook L (J)
Item No.	SFK-K33U	SFK-K33J

Usable Frame

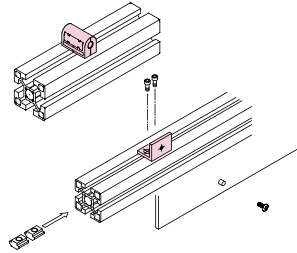
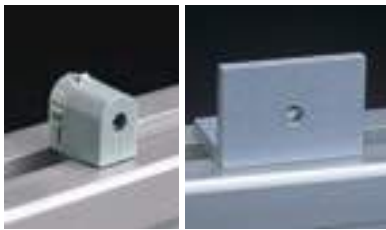


Compatible to all SF40 and 45 series (Groove Width 10mm)

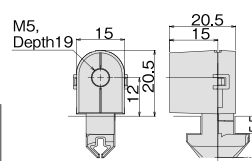
Material/Technical Data

	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	

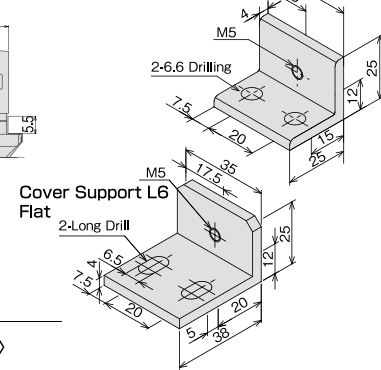
Cover Holder L Cap / Cover Support L6



Cover Holder L Cap



Cover Support L6



Name(Single Item)	Cover Holder L Cap	Cover Support L6	Cover Support L6 Flat
Item No.	*SFA-KH7	*SFJ-K04	*SFJ-K14

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.

Usable Frame



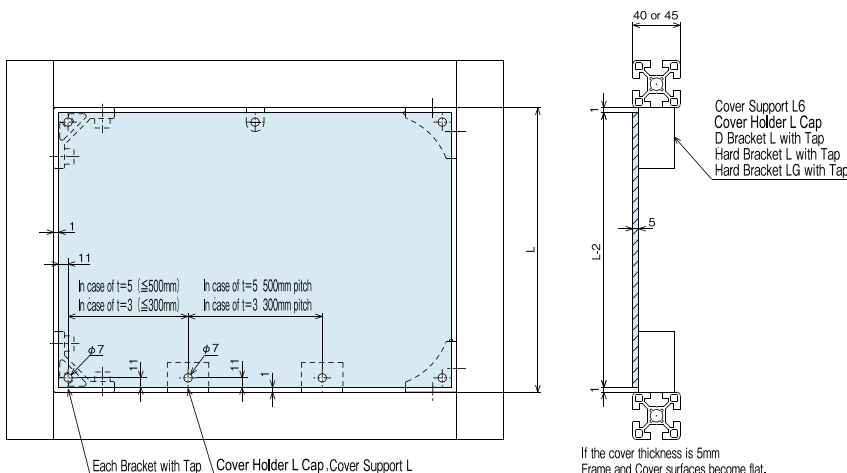
Compatible to all SF40 and 45 series (Groove Width 10mm)

Material/Technical Data

	Cover Holder L Cap	Cover Support L6	Cover Support L6 Flat
Material	Polyamide	Polyamide	Alumite Treatment
	Color/Light Gray	A6063S-T5	(Special order Black Alumite is available.)
Weight	8g	1.7g (Cover Support L6)	2.1g (Cover Support L6 Flat)
Environment	RoHS Compliant Green Procurement		

How to fix Cover

(Indication of Cover Holder, Cover Support, Resin Plate Dimension)



◀Resin Plate▶

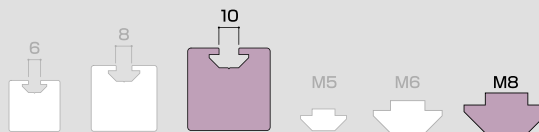


GO ●Various Resin plates are available. Refer P168~.

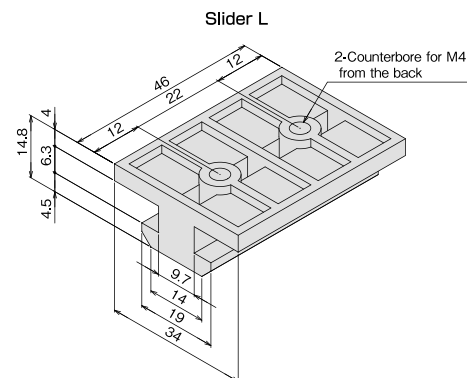
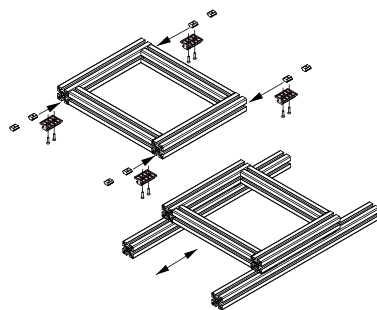
◀Door accessories▶



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



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

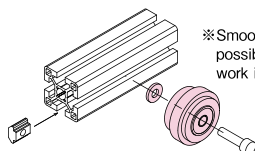
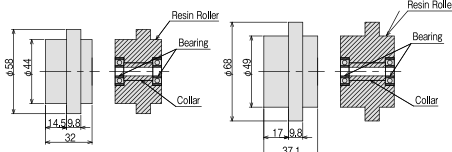
Name	Installation Frame	Recommended Bolt	Recommended Nut	Appropriate Tightening Torque(N・m)
Slider L	SF40・45 series	Flat Bolt with Cross Hole(M4×25)	T Nut L (M4)	1.0

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)

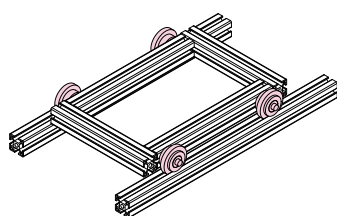
■Material/Technical Data
Material 6 Nylon (Resin Roller)
Steel (Bearing)
SC45C (Collar)
Weight 86.5g (L40)・120g (L45)
Environment **RoHS** Compliant
Green Procurement

※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

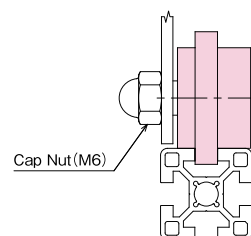
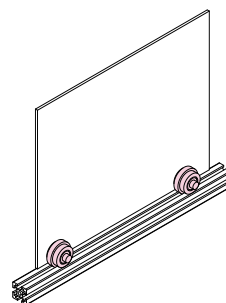
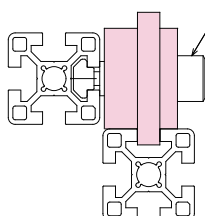
Example of using Slot Roller L

〈To frame's movable part〉



〈As door roller〉

Hexagon Socket Bolt M6×45 (L40)
Hexagon Socket Bolt M6×50 (L45)



Parts
How to order
Item No.
SFA-511

Quantity (pcs)



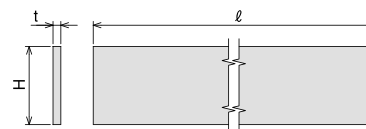


STANDARD FRAME

Complex Parts

Complex Parts

Flat Bar



Material/Technical Data

Material A6063 Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant

Name	Item No.	H	t	Geometrical Moment of Inertia($\times 10^4 \text{mm}^4$)		Section Modulus($\times 10^3 \text{mm}^3$)		Unit Mass (kg/m)
				Ix	Iy	Zx	Zy	
Flat Bar15 T=2 $\ell=50\sim 4000$	SFF-A154	15	2	0.0562	0.001	0.075	0.01	0.08
Flat Bar15 T=3 $\ell=50\sim 4000$	SFF-A164	15	3	0.0843	0.0033	0.112	0.022	0.12
Flat Bar20 T=2 $\ell=50\sim 4000$	SFF-A174	20	2	0.1333	0.0013	0.133	0.013	0.11
Flat Bar20 T=3 $\ell=50\sim 4000$	SFF-A184	20	3	0.2	0.0045	0.2	0.03	0.16
Flat Bar20 T=5 $\ell=50\sim 4000$	SFF-A194	20	5	0.3333	0.0208	0.333	0.083	0.27
Flat Bar30 T=2 $\ell=50\sim 4000$	SFF-A204	30	2	0.45	0.002	0.3	0.02	0.16
Flat Bar30 T=3 $\ell=50\sim 4000$	SFF-A214	30	3	0.675	0.0067	0.45	0.045	0.24
Flat Bar30 T=5 $\ell=50\sim 4000$	SFF-A224	30	5	1.125	0.0312	0.75	0.125	0.41
Flat Bar30 T=10 $\ell=50\sim 4000$	SFF-A14	30	10	2.248	0.250	1.499	0.500	0.81
Flat Bar40 T=3 $\ell=50\sim 4000$	SFF-A234	40	3	1.6	0.009	0.8	0.06	0.32
Flat Bar40 T=5 $\ell=50\sim 4000$	SFF-A244	40	5	2.666	0.0416	1.333	0.166	0.54
Flat Bar40 T=10 $\ell=50\sim 4000$	SFF-AC4	40	10	5.330	0.333	2.665	0.666	1.08
Flat Bar50 T=3 $\ell=50\sim 4000$	SFF-A384	50	3	3.125	0.011	1.25	0.075	0.4
Flat Bar50 T=5 $\ell=50\sim 4000$	SFF-A394	50	5	5.208	0.052	0.208	0.208	0.68
Flat Bar70 T=5 $\ell=50\sim 4000$	SFF-A404	70	5	14.282	0.073	4.081	0.291	0.94
Flat Bar75 T=5 $\ell=50\sim 4000$	SFF-AY4	75	5	17.567	0.078	4.685	0.312	1.01
Flat Bar100 T=5 $\ell=50\sim 4000$	SFF-A414	100	5	41.647	0.104	8.329	0.416	1.35

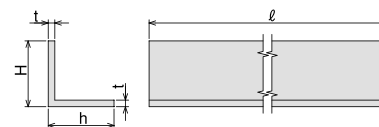


SF Frame

In case of specifying the length (Cut by SUS)

Item No. Length (mm)
SFF-A154 $\ell=800$

Angle



Material/Technical Data

Material A6063 Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant

Name	Item No.	H	h	t	Geometrical Moment of Inertia($\times 10^4 \text{mm}^4$)		Section Modulus($\times 10^3 \text{mm}^3$)		Unit Mass (kg/m)
					Ix	Iy	Zx	Zy	
Angle1515 T=1.5 $\ell=50\sim 4000$	SFF-A424	15	15	1.5	0.091	0.091	0.085	0.085	0.12
Angle2020 T=1.5 $\ell=50\sim 4000$	SFF-A444	20	20	1.5	0.223	0.223	0.154	0.154	0.16
Angle2020 T=2 $\ell=50\sim 4000$	SFF-A014	20	20	2	0.288	0.288	0.201	0.201	0.21
Angle2020 T=3 $\ell=50\sim 4000$	SFF-A024	20	20	3	0.403	0.403	0.289	0.289	0.30
Angle2020 T=5 $\ell=50\sim 4000$	SFF-AU4	20	20	5	0.589	0.589	0.446	0.446	0.47
Angle3030 T=2 $\ell=50\sim 4000$	SFF-A054	30	30	2	1.019	1.019	0.468	0.468	0.31
Angle3030 T=3 $\ell=50\sim 4000$	SFF-A064	30	30	3	1.458	1.458	0.681	0.681	0.46
Angle3030 T=5 $\ell=50\sim 4000$	SFF-A074	30	30	5	2.216	2.216	1.071	1.071	0.74
Angle4040 T=2 $\ell=50\sim 4000$	SFF-A084	40	40	2	2.476	2.476	0.846	0.846	0.42
Angle4040 T=3 $\ell=50\sim 4000$	SFF-A094	40	40	3	3.581	3.581	1.239	1.239	0.62
Angle4040 T=5 $\ell=50\sim 4000$	SFF-A104	40	40	5	5.561	5.561	1.974	1.974	1.01
Angle5050 T=3 $\ell=50\sim 4000$	SFF-A344	50	50	3	7.149	7.149	1.964	1.964	0.79
Angle5050 T=4 $\ell=50\sim 4000$	SFF-A454	50	50	4	9.255	9.255	2.569	2.569	1.04
Angle5050 T=5 $\ell=50\sim 4000$	SFF-A464	50	50	5	11.244	11.244	3.153	3.153	1.28
Angle6060 T=5 $\ell=50\sim 4000$	SFF-A574	60	60	5	19.9	19.9	4.61	4.61	1.55
Angle7575 T=5 $\ell=50\sim 4000$	SFF-AM4	75	75	5	39.814	39.814	7.319	7.319	1.96
Angle7575 T=6 $\ell=50\sim 4000$	SFF-A514	75	75	6	46.882	46.882	8.677	8.677	2.33
Angle100100 T=6 $\ell=50\sim 4000$	SFF-A524	100	100	6	114.390	114.390	15.718	15.718	3.14
Angle150150 T=6 $\ell=50\sim 4000$	SFF-A534	150	150	6	397.52	397.52	36.051	36.051	4.76
Angle1520 T=2 $\ell=50\sim 4000$	SFF-A434	15	20	2	0.126	0.261	0.114	0.193	0.18
Angle2040 T=2 $\ell=50\sim 4000$	SFF-A034	20	40	2	0.348	1.964	0.219	0.758	0.31
Angle2040 T=3 $\ell=50\sim 4000$	SFF-A044	20	40	3	0.489	2.828	0.315	1.108	0.46
Angle2550 T=3 $\ell=50\sim 4000$	SFF-A334	25	50	3	0.993	5.661	0.504	1.759	0.58

SF20
SS SizeSF30
S SizeSF40-45
L Size

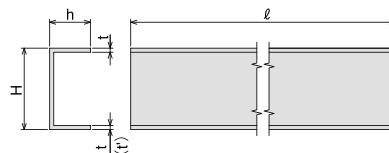
Complex Parts

Door · Panel
Clean Equipment

Technical Data

Complex Parts

Channel



Material/Technical Data

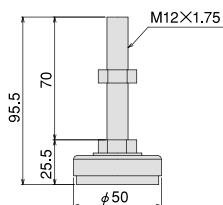
Material A6063 Alumite Treatment
Section Performance and Unit Mass Refer Table Below
Environment RoHS Compliant

Name	Item No.	H	h	t	Geometrical Moment of Inertia($\times 10^4 \text{mm}^4$)		Section Modulus($\times 10^3 \text{mm}^3$)		Unit Mass (kg/m)
					Ix	Iy	Zx	Zy	
Channel1515 T=2 ℓ =50~4000	SFF-A114	15	15	2	0.277	0.181	0.37	0.196	0.22
Channel1530 T=2 ℓ =50~4000	SFF-A124	30	15	2	1.47	0.231	0.98	0.22	0.3
Channel2020 T=2 ℓ =50~4000	SFF-A134	20	20	2	0.718	0.452	0.718	0.36	0.3

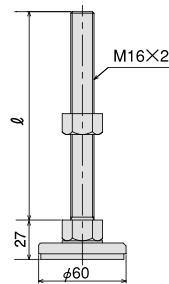
Adjuster A



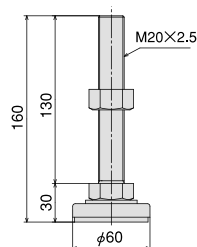
Adjuster A M12



Adjuster A M16



Adjuster A M20



SUS Original Adjuster A

Name	Adjuster A			
	M12-70	M16-140T	M16-70T	M20-130T
ℓ (mm)	70	170	70	130
Weight (g)	172	384	283	520
Load Capacity (N)	3500	5000	5000	5000
Item No.	SFA-607	SFK-935	SFK-936	SFK-938

Material/Technical Data

Material SS400 (Zn Black)
Bottom Neo Prene Rubber



SF Frame

In case of specifying the length (Cut by SUS) ※ Order by 0.1mm unit

Item No. Length (mm)
SFF-A114 ℓ =800

Parts

How to order

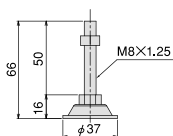
Item No. **SFA-607**

Quantity (pcs)

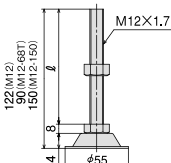
Adjuster B



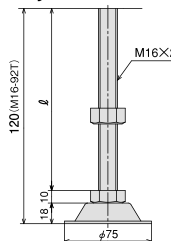
Adjuster B M8



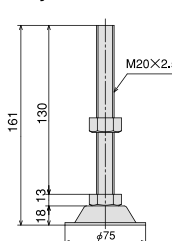
Adjuster B M12



Adjuster B M16



Adjuster B M20



SUS Original Adjuster B

Name	Adjuster B						
	M12-68T	M12-100T	M12-100T (Stainless)	M16-92T	M16-150T	M16-150T (Stainless)	M20-130T (Stainless)
ℓ (mm)	68	100	100	92	150	150	130
Weight (g)	129	153	155	276	346	349	499
Load Capacity (N)	3500	5000	3000	5600	5600	5600	8800
Item No.	SFK-C84	SFK-933	SFK-933S	SFK-C89	SFK-934	SFK-934S	SFK-937S

Adjuster B

Name	Adjuster B			
	M8-50	M8-50(Stainless)	M12-150	M12-150 (Stainless)
ℓ (mm)	50	50	150	150
Weight (g)	55	55	205	204
Load Capacity (N)	2000	2000	6000	6000
Item No.	SFA-613	SFA-613S	SFA-614	SFA-614S

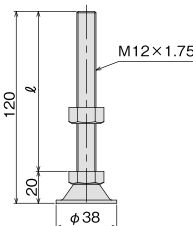
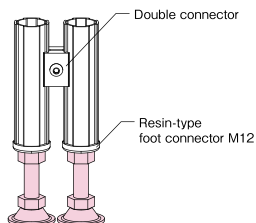
Material/Technical Data

Material SS400
SUS304 (Stainless)
Environment RoHS Compliant

Small Diameter Adjuster M12



- Adjuster usable for frames coupled with a double-connector.



SUS Original Small Diameter Adjuster

Name	Small Diameter Adjuster		
	M12-60T	M12-100T	M12-100T (Stainless)
ℓ (mm)	60	100	100
Weight (g)	101	132	134
Load Capacity (N)	2000	2000	1200
Item No.	GFN-002	GFN-000	GFN-003S

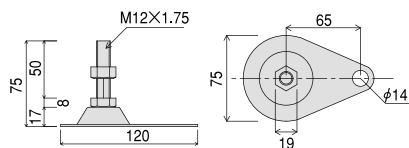
Material/Technical Data

M12-60
Material SS400
M12-100
Material SS400
M12-100 (Stainless) / M12 (Stainless)
Material SUS304
Environment RoHS Compliant

Adjuster with hole for floor fixing



Adjuster M12-50A



Name	Adjuster B	
	M12-50A	M12-50A (Stainless)
ℓ (mm)	50	50
Weight (g)	195	197
Load Capacity (N)	5000	5000
Item No.	SFA-605	SFA-605S

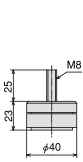
Material/Technical Data

Material SS400
SUS304 (Stainless)
Environment RoHS Compliant

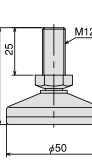
Foot M8/M12



Foot M8



Foot M12



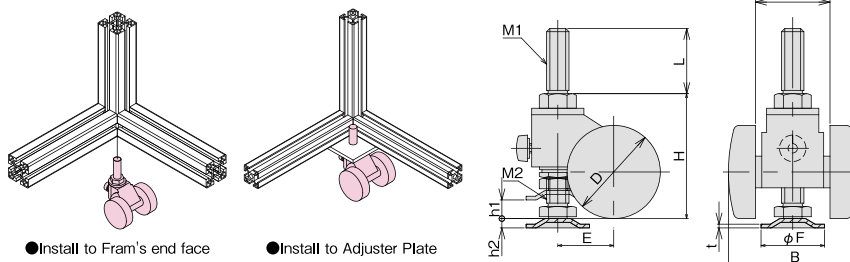
Name	Foot M8	Foot M12
Item No.	SFA-602-T	SFA-603

Material/Technical Data

FootM8 Foot M12
Material Low-Carbon Steel Wire Rod
(Bottom: Polyamide)
Weight 35g 71g
Load Capacity 800N 1000N
Environment RoHS Compliant

Complex Parts

Caspad



Name	Caspad $\phi 50$ -M12	Caspad $\phi 75$ -M16
Item No.	SFA-703	SFA-704

Dimension Table

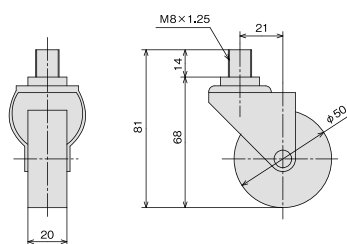
	D	H	h1	h2	E	F	A	B	L	t	M1	M2	Load Capacity (N)
Caspad $\phi 50$ -M12	50	67	10	5	30	34	40	69	35	2	M12	M12	588
Caspad $\phi 75$ -M16	75	95	24	5	35	42	50	84	35	2	M16	M12	1176

■ 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

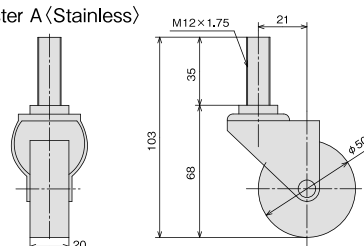
Caster M8



Material/Rubber Load Capacity/30kg With Brake Available
Weight/154g(165g with Brake)

Name	Caster M8	Caster M8 with Brake
Item No.	GFN-665	GFN-666

Caster A
Caster A〈Stainless〉

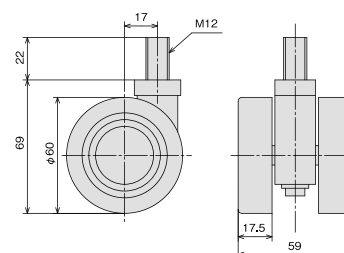


	Material	Load Capacity	Weight
Caster A	Rubber	30kg	189g(223g)
Caster A (Stainless)	Nylon	40.8kg	147g(175g)

() : with Brake

() : with Brake

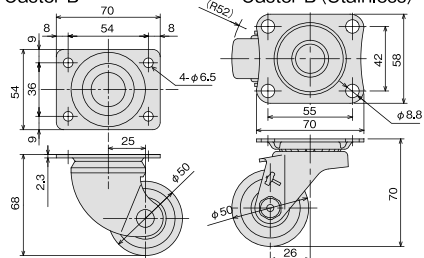
Double-Wheel Casters M12



Material/Nylon Load Capacity/150kg With Brake Available
Weight/210g(219g with Brake)

Name	Caster M8	Caster M8 with Brake	Caster A	Caster A with Brake	Caster A (Stainless)	Caster A with Brake (Stainless)	Double-Wheel Casters M12	Double-Wheel Casters M12 with Brake
Item No.	GFN-665	GFN-666	SFK-582	SFK-583	SFK-582S	SFK-583S	TY60-12	TY60-12S

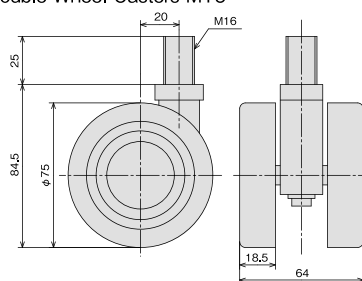
Caster B



	Material	Load Capacity	Weight
Caster B	Phenol Resin	150kg	340g
Caster B (Stainless)	Phenol Resin	71.4kg	285g

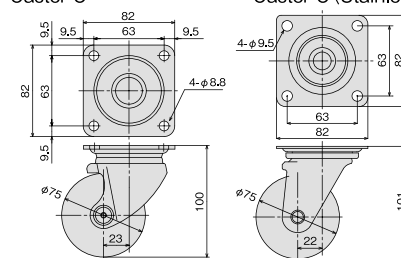
Caster B (Stainless)

Double-Wheel Casters M16



Material/Nylon	Load Capacity/170kg	Only with Brake	Weight/291g
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Caster C



	Material	Load Capacity	Weight
Caster C	Nylon	300kg	902g
Caster C (Stainless)	MC Nylon	150kg	520g

Caster C (Stainless)

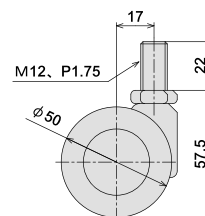
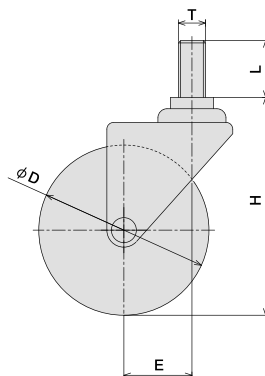
Name	Caster B	Caster B (Stainless)	Double-Wheel Casters M16 with Brake	Caster C	Caster C (Stainless)
Item No.	SFK-595	SFK-595S	TY75-16S	SFK-594	SFK-594S

Caster Screw Fitting Type

Environment: RoHS Compliant



● This Caster is for installation of Foot Connector or Adjuster Caster Connector etc.



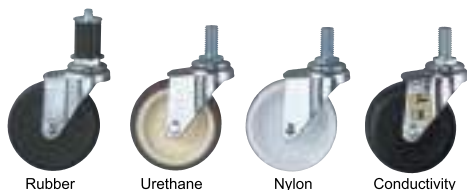
φ 50M12 Only Caster has double whe
Wheel: Nylon

■ Shaft Screw Caster Size, Weight

D (mm)	T (mm)	Wheel Material	Body Material		No Brake	With Brake	Load Capacity	L (mm)	H (mm)	E (mm)	Weight (g)
φ 50	M8	Rubber	Steel	Item No.	GFN-665	GFN-666	300 N	14	68	21	149 (169)
	M12	Nylon	—	Item No.	GFN-513	GFN-512	600 N	22	57.5	17	130 (130)
φ 75	M12	Rubber	Steel	Item No.	GFN-667	GFN-668	400 N	25	95	28	245 (270)
		Urethane	Steel	Item No.	GFN-537	GFN-541	500 N	25	95	29	282 (312)
		Nylon	Steel	Item No.	GFN-609	GFN-610	500 N	25	95	29	188 (237)
		Conductivity	Steel	Item No.	GFN-526	GFN-524	240 N	25	95	29	316 (352)

● (Blue Number) is a weight including brake

Caster Material



Special Caster Material

	Elasticity	Abrasion Resistance	Oil Resistance	Water Resistance	Chemical Resistance	Heat Resistance
Rubber	◎	○	×	○	○	○
Urethane	○	◎	◎	△	○	○
Nylon	×	◎	◎	◎	◎	○
Conductivity (Rubber)	◎	○	×	○	○	○

SF20
SS SizeSF30
S SizeSF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

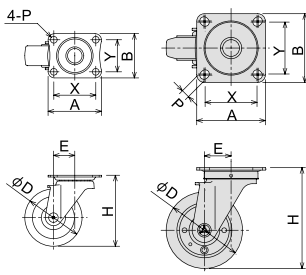
Complex Parts

Free/Fixed caster

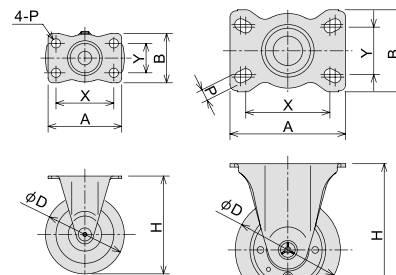
Environment: RoHS Compliant



Adjustable Caster



Fix Caster



● Install T Nut and Bolt to Green Frame L Slot

φ 75 Adjustable φ 100 · φ 150 Adjustable

φ 75 Fix

φ 100 · φ 150 Fix

Size, Weight

D (mm)	T (mm)	Body Material		Adjustable		Fix	Load Capacity	X (mm)	Y (mm)	A (mm)	B (mm)	H (mm)	P (mm)	E (mm)	Weigh (g)									
				No Brake	With Brake																			
φ 75	Rubber	Steel	Item No.	GFN-539	GFN-532	GFN-550	600 N	55	42	70	58 (60)	93	8.8	28	610									
	Urethane		Item No.	GFN-540	GFN-533	GFN-551	800 N								630									
			Conductivity	Item No.	GFN-538	GFN-531	GFN-552								360 N	306								
																								610
φ 100		Rubber	Steel	Item No.	GFN-504	GFN-500	GFN-502	1200 N	68	68	90	90	132	11	35	1054								
	Urethane	Item No.		GFN-511	GFN-508	GFN-553	1000 N	1054																
		Conductivity		Item No.	GFN-546	GFN-547	GFN-548	720 N								873								
																								1054
																								1084
																								831
φ 150		Rubber	Steel	Item No.	GFN-521	GFN-507	GFN-554	1600 N	75	75	102 (106)	102 (111)	190	11	41	1054								
	Urethane	Item No.		GFN-522	GFN-517	GFN-555	1400 N	873																
		Conductivity		Item No.	GFN-510	GFN-516	GFN-556	960 N								1810								
																								1840
																								1391
																								1810

● () is dimension for Fix Caster

● Weight Top : Adjustable no brake
 Middle : Adjustable with brake
 Bottom : Fix

Parts

How to order

Item No.

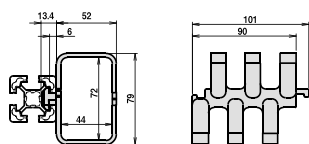
GFN-539

Quantity (pcs)

□□

Cable Holder

Cable Holder for SF Large



Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Holder L (Large)	Semi-Transparent	C1F-L4C
		White	C1F-L4W
		Red	C1F-L4R
		Yellow	C1F-L4Y

4 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: 35.2g/piece

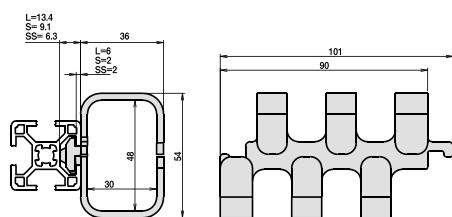
SF20
SS SizeSF30
S SizeSF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

Cable Holder for SF Middle

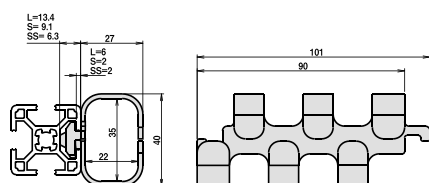


Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Holder L (Middle)	Semi-Transparent	C1F-L3C
		White	C1F-L3W
		Red	C1F-L3R
		Yellow	C1F-L3Y
 SF series S (Groove Width 8mm)	Cable Holder S (Middle)	Semi-Transparent	C1F-S3C
		White	C1F-S3W
		Red	C1F-S3R
		Yellow	C1F-S3Y
 SF series SS (Groove Width 6mm)	Cable Holder SS (Middle)	Semi-Transparent	C1F-A3C
		White	C1F-A3W
		Red	C1F-A3R
		Yellow	C1F-A3Y

4 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: L 20.2g/piece, S 19.0g/piece, SS 18.3g/piece

Cable Holder for SF Small



Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Holder L (Small)	Semi-Transparent	C1F-L2C
		White	C1F-L2W
		Red	C1F-L2R
		Yellow	C1F-L2Y
 SF series S (Groove Width 8mm)	Cable Holder S (Small)	Semi-Transparent	C1F-S2C
		White	C1F-S2W
		Red	C1F-S2R
		Yellow	C1F-S2Y
 SF series SS (Groove Width 6mm)	Cable Holder SS (Small)	Semi-Transparent	C1F-A2C
		White	C1F-A2W
		Red	C1F-A2R
		Yellow	C1F-A2Y

4 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: L 10.7g/piece, S 9.7g/piece, SS 9.1g/piece

C1 —

Classification of Holder/Ring
F... Holder
R... Ring

Classification of mounting frame
A... Groove Width SS (6mm)
S... Groove Width S (8mm)
L... Groove Width L (10mm)
G... GF
R... DIN rail

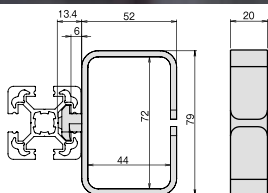
Classification of duct size
1... Minimum
2... Small
3... Middle
4... Large

Classification of color
C... Semi-Transparent
W... White
R... Red
Y... Yellow

Complex Parts

Cable Ring

Cable Ring for SF Large

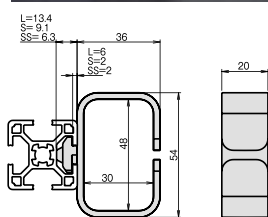


Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Ring L (Large)	Semi-Transparent	C1R-L4C
		White	C1R-L4W
		Red	C1R-L4R
		Yellow	C1R-L4Y

10 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: 14.4g/piece

Cable Ring for SF Middle

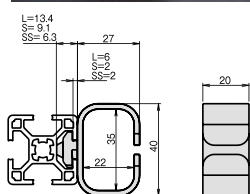


Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Ring L (Middle)	Semi-Transparent	C1R-L3C
		White	C1R-L3W
		Red	C1R-L3R
		Yellow	C1R-L3Y
 SF series S (Groove Width 8mm)	Cable Ring S (Middle)	Semi-Transparent	C1R-S3C
		White	C1R-S3W
		Red	C1R-S3R
		Yellow	C1R-S3Y
 SF series SS (Groove Width 6mm)	Cable Ring SS (Middle)	Semi-Transparent	C1R-A3C
		White	C1R-A3W
		Red	C1R-A3R
		Yellow	C1R-A3Y

10 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: L 8.4g/piece , S 7.8g/piece, SS 7.4g/piece

Cable Ring for SF Small

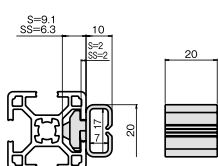


Usable Frame	Name	Color	Item No.
 SF series L (Groove Width 10mm)	Cable Ring L (Small)	Semi-Transparent	C1R-L2C
		White	C1R-L2W
		Red	C1R-L2R
		Yellow	C1R-L2Y
 SF series S (Groove Width 8mm)	Cable Ring S (Small)	Semi-Transparent	C1R-S2C
		White	C1R-S2W
		Red	C1R-S2R
		Yellow	C1R-S2Y
 SF series SS (Groove Width 6mm)	Cable Ring SS (Small)	Semi-Transparent	C1R-A2C
		White	C1R-A2W
		Red	C1R-A2R
		Yellow	C1R-A2Y

10 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: L 5.3g/piece , S 4.7g/piece , SS 4.3g/piece

Cable Ring for SF Minimum



Usable Frame	Name	Color	Item No.
 SF series S (Groove Width 8mm)	Cable Ring S (Minimum)	Semi-Transparent	C1R-S1C
		White	C1R-S1W
		Red	C1R-S1R
		Yellow	C1R-S1Y
 SF series SS (Groove Width 6mm)	Cable Ring SS (Minimum)	Semi-Transparent	C1R-A1C
		White	C1R-A1W
		Red	C1R-A1R
		Yellow	C1R-A1Y

20 pcs/pack

■Material Material: Polypropylene Flame retardant grade: V-0 (excluding semi-transparent)
Mass: S 1.9g/piece, SS 1.5g/piece

Parts

How to order

Item No.

C1R-L4C

Quantity (pack)

Bolt

■ Hexagon Socket Head Cap Screw

Item No.

Uni-chrome	Length (mm)														Galvanized trivalent chromate treating products				
Screw size	5	6	8	10	12	14	15	16	18	20	22	25	30	35					
M3		SFB-531	SFB-532	SFB-533	SFB-534				SFB-535				SFB-536	SFB-531A					
M4		SFB-540	SFB-541	SFB-542					SFB-546	SFB-543	SFB-54D	SFB-544							
M5		SFB-55E	SFB-550	SFB-551	SFB-55C	SFB-55A	SFB-554		SFB-55B	SFB-555	SFB-552	SFB-553	SFB-556						
M6			SFB-56E	SFB-561	SFB-560	SFB-56B	SFB-562	SFB-569	SFB-56C	SFB-563	SFB-56A	SFB-566	SFB-564	SFB-56P					
M8					SFB-580		SFB-581		SFB-589	SFB-582		SFB-583	SFB-584						
M10										SFB-929									
M12												SFB-521							
Screw size	40	45	50	55	60	70	80	85	90	110	115	120	125	130					
M3																			
M4		SFB-545																	
M5																			
M6	SFB-565	SFB-574			SFB-56G														
M8	SFB-588	SFB-58A			SFB-58B		SFB-58C												
M10																			
M12																			

Stainless	Length (mm)													
Screw size	5	6	8	10	12	14	15	16	18	20	22	25	30	35
M3	SFB-53PS	SFB-531S	SFB-532S	SFB-533S	SFB-534S		SFB-53ES	SFB-53RS	SFB-535S	SFB-53HS			SFB-536S	SFB-53FS
M4	SFB-54PS	SFB-540S	SFB-541S	SFB-542S	SFB-54QS		SFB-54RS		SFB-546S	SFB-543S	SFB-54DS	SFB-544S	SFB-5D1S	SFB-54SS
M5		SFB-55ES	SFB-550S	SFB-551S	SFB-55CS	SFB-55AS	SFB-554S		SFB-55BS	SFB-555S	SFB-552S	SFB-553S	SFB-556S	SFB-55ZS
M6			SFB-56ES	SFB-561S	SFB-560S	SFB-56BS	SFB-562S	SFB-569S	SFB-56CS	SFB-563S	SFB-56AS	SFB-566S	SFB-564S	SFB-56PS
M8				SFB-58PS	SFB-580S	SFB-58KS	SFB-581S		SFB-589S	SFB-582S	SFB-58DS	SFB-583S	SFB-584S	
M10										SFB-929S				SFB-594S
M12										SFB-522S		SFB-521S		
Screw size	40	45	50	55	60	70	80	85	90	110	115	120	125	130
M3	SFB-53VS			SFB-53GS										
M4	SFB-5D2S	SFB-545S	SFB-54TS											
M5	SFB-55US	SFB-55PS	SFB-55WS	SFB-55QS	SFB-595S		SFB-55XS	SFB-55RS	SFB-55SS	SFB-55YS	SFB-55TS			
M6	SFB-565S	SFB-574S	SFB-56SS		SFB-56GS	SFB-56TS	SFB-56US							SFB-56VS
M8	SFB-588S	SFB-58AS		SFB-58SS	SFB-58BS	SFB-58TS	SFB-58CS					SFB-58QS	SFB-58RS	
M10			SFB-596S							SFB-5D4S				
M12														

■ Cross-Recessed Flat Head Screw

Uni-Chrome plating	Length (mm)														Galvanized trivalent chromate treating products			
Screw size	5	6	8	10	12	15	16	18	20	22	25	30	35	45				
M3		SFB-530A	SFB-530	SFB-539														
M4		SFB-54A	SFB-54B	SFB-54E	SFB-54F													
M5			SFB-54G	SFB-559	SFB-557													
M6					SFB-54J	SFB-54K												
Stainless	Length (mm)																	
Screw size	5	6	8	10	12	15	16	18	20	22	25	30	35	45				
M3	SFB-9N3S	SFB-9N4S	SFB-530S	SFB-539S		SFB-53QS	SFB-5D3S		SFB-5D6S									
M4	SFB-9N6S	SFB-54AS	SFB-54BS	SFB-54ES	SFB-54FS	SFB-5D5S			SFB-9N7S	SFB-9N8S	SFB-9N9S		SFB-9P6S	SFB-54ZS				
M5			SFB-54GS	SFB-9P0S	SFB-9P1S	SFB-9P2S	SFB-9P3S		SFB-9P4S		SFB-9P5S	SFB-9P7S						
M6				SFB-54HS	SFB-54JS	SFB-54KS		SFB-571S										



Hexagon Socket Head Cap Screw



Cross-Recessed Flat Head Screw

SF20

SS Size

SF30

S Size

SF40-45

L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

Complex Parts

Bolt

Hexagon Socket Flat Head Cap Screw

Uni-Chrome	Length (mm)											Galvanized trivalent chromate treating products				
Screw size	6	8	10	12	15	16	18	20	25	30	35	40	45	50	55	
M3				SFB-53A												
M4																
M5	SFB-55F	SFB-917		SFB-927	SFB-502			SFB-55G			SFB-55H	SFB-9C6	SFB-9C7			
M6		SFB-56J	SFB-914	SFB-916	SFB-915			SFB-56D								
M8				SFB-926	SFB-918	SFB-928		SFB-58F								
M10						SFB-920	SFB-501									
Stainless	Length (mm)															
Screw size	6	8	10	12	15	16	18	20	25	30	35	40	45	50	55	
M3			SFB-9L6S	SFB-53AS												
M4		SFB-9L7S	SFB-9L8S		SFB-9L9S			SFB-9P8S								
M5	SFB-55FS	SFB-917S	SFB-559S	SFB-927S	SFB-502S		SFB-9B5S	SFB-55GS	SFB-9M1S	SFB-9M2S	SFB-55HS	SFB-9C6S	SFB-9C7S	SFB-9M7S		
M6		SFB-56JS	SFB-914S	SFB-916S	SFB-915S		SFB-9M3S	SFB-56DS	SFB-56NS	SFB-9M5S	SFB-9M8S	SFB-9M9S	SFB-9N0S			
M8				SFB-926S	SFB-918S	SFB-928S		SFB-58FS	SFB-58JS	SFB-9M6S		SFB-9N1S	SFB-9N2S		SFB-9R7S	
M10						SFB-920S										

Truss Head Screw

Uni-Chrome	Length (mm)											
Screw size	5	6	8	10	12	14	15	18	20	30	35	
M3		SFB-53B										
M4	SFB-54B		SFB-54C	SFB-924	SFB-925			SFB-54M	SFB-54N			
M5			SFB-558A	SFB-558	SFB-558B		SFB-558C			SFB-55J	SFB-55K	
M6				SFB-56K	SFB-56L		SFB-56M					
Stainless	Length (mm)											
Screw size	5	6	8	10	12	14	15	18	20	30	35	
M3	SFB-53US	SFB-53BS	SFB-53JS									
M4	SFB-54BS	SFB-54US	SFB-54CS	SFB-924S	SFB-925S		SFB-54VS					
M5		SFB-597S	SFB-55LS	SFB-558S	SFB-55MS	SFB-598S	SFB-55NS					
M6				SFB-56KS	SFB-56LS							

Tapping Screw (Stainless)

No.	Part Code	Description
1	SFE-100	Tapping Screw P (SUS) M4x10mm. (P8x3/8")
2	SFE-101	Tapping Screw P (SUS) M4x30mm. (P8x1x1/4")
3	SFE-102	Tapping Screw P (SUS) M4x40mm. (P8x1x1/2")
4	SFE-103	Tapping Screw P (SUS) M4x25mm. (P8x1")
5	SFE-104	Tapping Screw P (SUS) M4x16mm. (P8x5/8")
6	SFE-105	Tapping Screw P (SUS) M4x35mm. (P8x1x3/8")

Plain Washer

Size	Uni-Chrome	Stainless
M3	SFB-904	SFB-9H1S
M4	SFB-906	SFB-9H2S
M5	SFB-9T8	SFB-967S
M6	SFB-902	SFB-902S
M8	SFB-903	SFB-903S
M10	SFB-964	SFB-9H3S
M12	SFB-905	SFB-9H4S
M16	SFB-907	SFB-9H6S

Spring Washer

Size	Uni-Chrome	Stainless
M3	SFB-9T4	SFB-9J1S
M4	SFB-547	SFB-9J2S
M5	SFB-9T5	SFB-9J3S
M6	SFB-9T6	SFB-9J4S
M8	SFB-9T7	SFB-934S
M10	SFB-965	SFB-9J5S
M12	SFB-9J6	SFB-9J6S

Hexagon Nut

Size	Uni-Chrome	Stainless
M3	SFB-930	SFB-9F1S
M4	SFB-9F2	SFB-9F2S
M5	SFB-961	SFB-961S
M6	SFB-960	SFB-960S
M8	SFB-959	SFB-959S
M10	SFB-9F6	SFB-9F6S
M12	SFB-901	SFB-901S



Hexagon Socket Flat Head Cap Screw



Truss Head Screw



Tapping Screw (Stainless)



Plain Washer



Spring Washer



Hexagon Nut



Parts

How to order

Item No.

SFB-55F

Quantity (pcs)

□□



STANDARD FRAME

Door•Panel

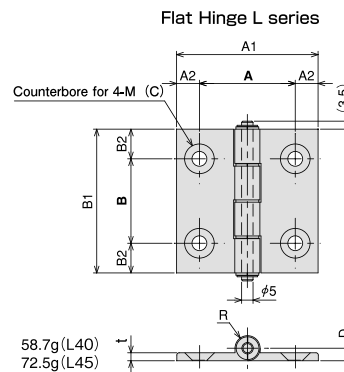
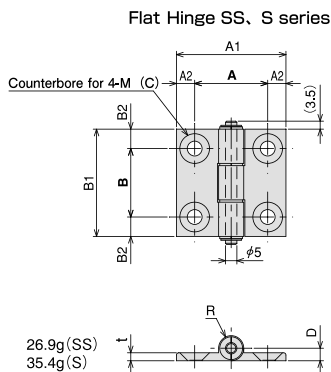
Clean Equipment

Flat Hinge



Material/A6N01SS-T5 Alumite Treatment

■Environment RoHS Compliant



Name	Item No.	A	B	A1	A2	B1	B2	(C)	D	t	R	Indication of the Load (N/Piece)
Flat Hinge SS	SFA-2A1	21	25	36	7.5	47	11	5	5.6	4	5.6	49
Flat Hinge SS Kit (Flat Hinge SS (Stainless) Kit)	SFK-2A1 (SFK-2A1S)											
Flat Hinge S	SFA-2A2	32	30	48	8	63	8.5	6	6.1	4.5	6.1	73
Flat Hinge S Kit (Flat Hinge S (Stainless) Kit)	SFK-2A2 (SFK-2A2S)											
Flat Hinge L40(M6)	SFA-2A3	42	37	62	10	63	13	6	6.1	4.5	6.1	73
Flat Hinge L40(M6) Kit (Flat Hinge L40(M6)Stainless Kit)	SFK-2A3 (SFK-2A3S)											
Flat Hinge L45(M6)	SFA-2A4	47	43	80	16.5	63	10	6	6.1	4.5	6.1	73
Flat Hinge L45(M6) Kit (Flat Hinge L45(M6)Stainless Kit)	SFK-2A4 (SFK-2A4S)											

Kit (Flat Hinge SS Kit)

● Flat Hinge SS×1
● Cross-Recessed Flat Head Bolt (M5×8)×4
● T Nut SS (M5)×4

Kit (Flat Hinge S Kit)

● Flat Hinge S×1
● Cross-Recessed Flat Head Bolt (M6×12)×4
● T Nut S (M6)×4

Kit (Flat Hinge L40(M6) Kit)

● Flat Hinge L40 (M6)×1
● Cross-Recessed Flat Head Bolt (M6×15)×4
● T Nut L (M6)×4

Kit (Flat Hinge L45(M6) Kit)

● Flat Hinge L45 (M6)×1
● Cross-Recessed Flat Head Bolt (M6×15)×4
● T Nut L (M6)×4

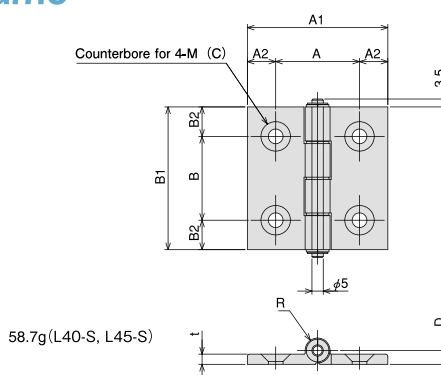
※Bolt and Nut for (Stainless) Kit is stainless.

Flat Hinge for Irregular Shape Frame



Material/ A6N01SS-T5 Alumite Treatment

■Environment RoHS Compliant



Name	Item No.	A	B	A1	A2	B1	B2	(C)	D	t	R	Indication of the Load (N/Piece)
Flat Hinge L40-S	SFA-2A5	37	37	62	12.5	63	13	6	6.1	4.5	6.1	73
Flat Hinge L40-S Kit (Flat Hinge L40-S (Stainless) Kit)	SFK-2A5 (SFK-2A5S)				11.5							
Flat Hinge L45-S	SFA-2A6	39	39	62	12.5	63	13	6	6.1	4.5	6.1	73
Flat Hinge L45-S Kit (Flat Hinge L45-S (Stainless) Kit)	SFK-2A6 (SFK-2A6S)				11.5							

Kit (Flat Hinge L40-S Kit)

● Flat Hinge L40-S×1
● Cross-Recessed Flat Head Bolt (M6×12)×2
● Cross-Recessed Flat Head Bolt (M6×15)×2

● T Nut L (M6)×2

● T Nut S (M6)×2

Kit (Flat Hinge L45-S Kit)

● Flat Hinge L45-S×1
● Cross-Recessed Flat Head Bolt (M6×12)×2
● Cross-Recessed Flat Head Bolt (M6×15)×2

● T Nut L (M6)×2

● T Nut S (M6)×2

※Bolt and Nut for (Stainless) Kit is stainless.



Parts

How to order

Item No.

SFA-2A1

Quantity (pcs)

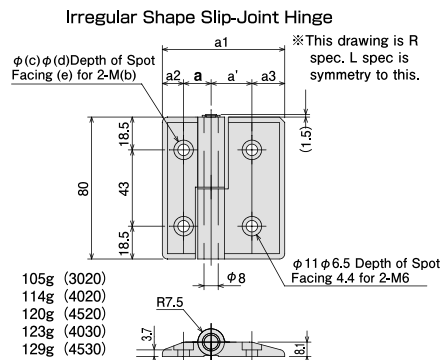
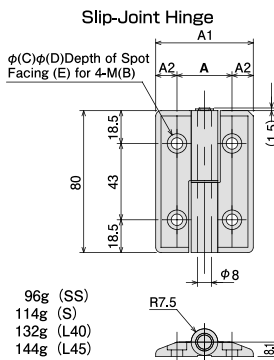


Slip-Joint Hinge / Irregular Shape Slip-Joint Hinge



Electroless nickel plating
■Environment **RoHS** Compliant **Green** Procurement
■Material Aluminum Die-Casting (ADC12)

Acrylic Paint



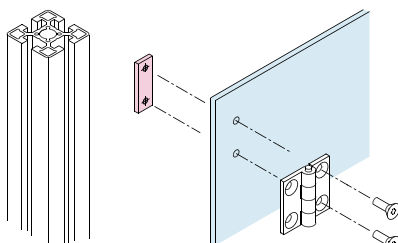
Name	Item No.				A	A1	A2	(B)	(C)	(D)	(E)	Indication of the Load (N/Piece)
	Single Item		(Bolt・Nut Kit (Stainless))									
	Electroless Nickel Plating	Acrylic Paint	Electroless Nickel Plating	Acrylic Paint								
Slip-Joint Hinge SS-L	SFA-2N2	SFA-2N2P	(SFK-2N2S)	(SFK-2N2P)	26	41	7.5	5	5.5	9.5	4.1	73
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	6	6.5	11	4.4	98
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	6	6.5	11	4.4	98
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 S-L (R) Kit)	(Slip-Joint Hinge L40-L (R) Kit)	(Slip-Joint Hinge L45-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) ×1 ● Hexagon Socket Low Head Bolt (M6×12) Stainless×4 ● ST Nut S (M6) ×4	● 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) ×1 ● Hexagon Socket Low Head Bolt (M6×15) Stainless×4 ● ST Nut L (M6) ×4

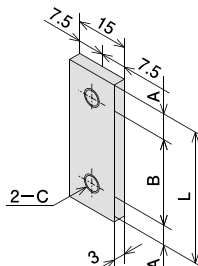
Name	Item No.				a	a'	a1	a2	a3	(b)	(c)	(d)	(e)	Indication of the Load (N/Piece)
	Single Item		(Bolt・Nut Kit (Stainless))											
	Electroless Nickel Plating	Acrylic Paint	Electroless Nickel Plating	Acrylic Paint										
Slip-Joint Hinge 3020-L	SFA-2D2	SFA-2D2P	(SFK-2D2S)	(SFK-2D2P)	13	15.5	48	7.5	12	5	5.5	9.5	4.1	73
Slip-Joint Hinge 3020-R	SFA-2D1	SFA-2D1P	(SFK-2D1S)	(SFK-2D1P)		20.5	57		16					
Slip-Joint Hinge 4020-L	SFA-2D4		(SFK-2D4S)											
Slip-Joint Hinge 4020-R	SFA-2D3		(SFK-2D3S)	23		62	18.5							
Slip-Joint Hinge 4520-L	SFA-2D6		(SFK-2D6S)											
Slip-Joint Hinge 4520-R	SFA-2D5		(SFK-2D5S)											
Slip-Joint Hinge 4030-L	SFA-2E2		(SFK-2E2S)	15.5	20.5	64	12	16	6	6.5	11	4.4	98	
Slip-Joint Hinge 4030-R	SFA-2E1		(SFK-2E1S)		23	69		18.5						
Slip-Joint Hinge 4530-L	SFA-2E4													
Slip-Joint Hinge 4530-R	SFA-2E3													

Kit Contents	(Slip-Joint Hinge 3020-L (R) Kit)	(Slip-Joint Hinge 4020-L (R) Kit)	(Slip-Joint Hinge 4520-L (R) Kit)	(Slip-Joint Hinge 4030-L (R) Kit)	(Slip-Joint Hinge 4530-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) ×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) ×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) ×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) ×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 Flat Hinge



※ Use it when the door is resin panel.



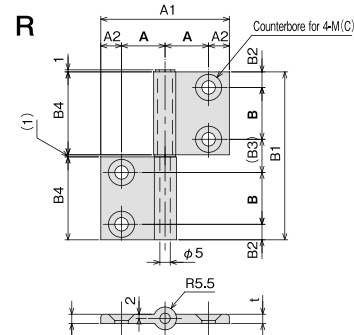
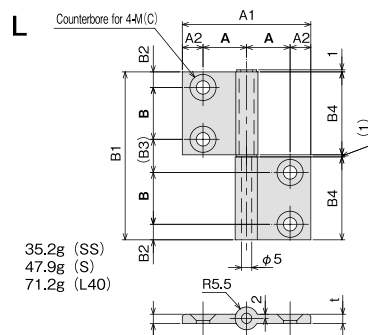
Material/Technical Data	
Material	Stainless
Weight	13g (SS) 16g (S) 20g (L40) 22g (L45)
Environment	RoHS Compliant Green Procurement

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	

Free Hinge L and R * Separatable



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	10	21	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)											

Kit Contents

●Free Hinge SS-L(R)×1
 ●Cross-Recessed Small Flat Screw(M5×8)×4
 ●T Nut SS(M5)×4

Kit Contents

●Free Hinge S-L(R)×1
 ●Cross-Recessed Small Flat Screw(M6×12)×4
 ●T Nut S(M6)×4

Kit Contents

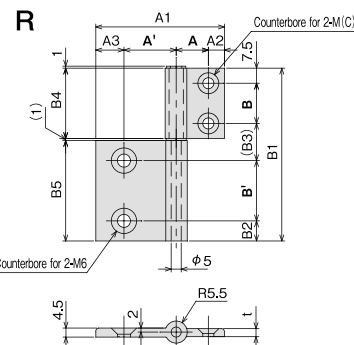
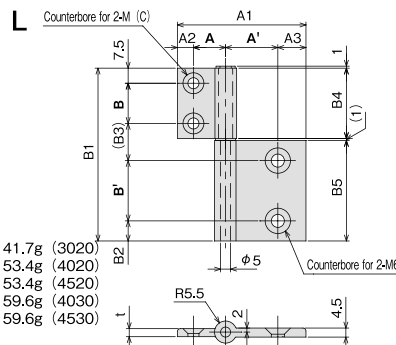
●Free Hinge L40(M6)-L(R)×1
 ●Cross-Recessed Small Flat Screw(M6×15)×4
 ●T Nut L(M6)×4

※Bolt and Nut for [Bolt·Nut (Stainless) Kit] is stainless.

Irregular Shape Free Hinge L and R * Separatable



■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		10	76	7.5	16		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				8	14				35				
Free Hinge 4020-R	SFA-26R	(SFK-26R)	(SFK-26RS)					64			86							
Free Hinge 4520-L	SFA-27L	(SFK-27L)	(SFK-27LS)	21	28.5	25	30			11.5		10	18.5		50	6	4.5	73
Free Hinge 4520-R	SFA-27R	(SFK-27R)	(SFK-27RS)															
Free Hinge 4030-L	SFA-28L	(SFK-28L)	(SFK-28LS)		26					14								
Free Hinge 4030-R	SFA-28R	(SFK-28R)	(SFK-28RS)					71	10		91			40				
Free Hinge 4530-L	SFA-29L	(SFK-29L)	(SFK-29LS)	21	28.5	25	30			11.5		10	18.5			6	4.5	73
Free Hinge 4530-R	SFA-29R	(SFK-29R)	(SFK-29RS)															

Kit Contents

●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

Kit Contents

●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

Kit Contents

●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

Kit Contents

●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

Kit Contents

●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

Item No.

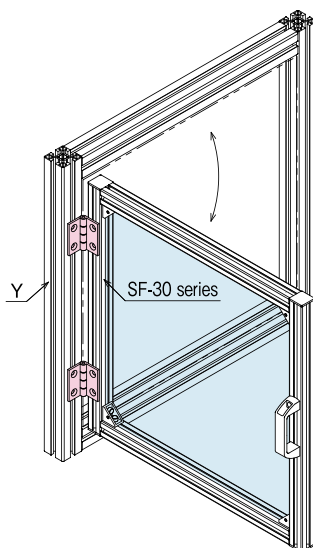
SFA-21L

Quantity (pcs)

□□

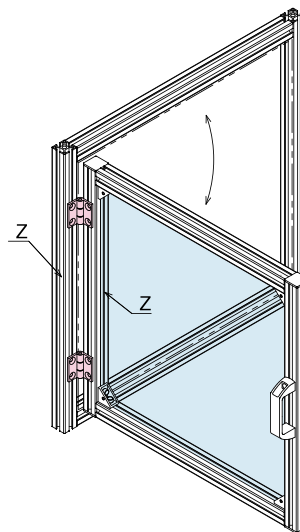
Choice of Flat Hinge

In case door-side frame is SF30 series and the body frame is SF40 or 45 series.



Y	Flat Hinge Name	Item No.
SF-40 series	Flat Hinge L40-S	SFA-2A5
SF-45 series	Flat Hinge L45-S	SFA-2A6

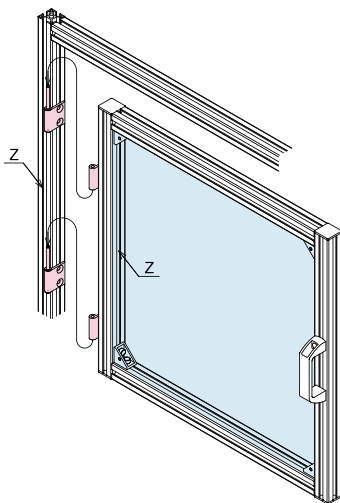
In case frames at door and body are the same series.



Z	Flat Hinge Name	Item No.
SF-20 series	Flat Hinge SS	SFA-2A1
SF-30 series	Flat Hinge S	SFA-2A2
SF-40 series	Flat Hinge L40 (M6)	SFA-2A3
SF-45 series	Flat Hinge L45 (M6)	SFA-2A4

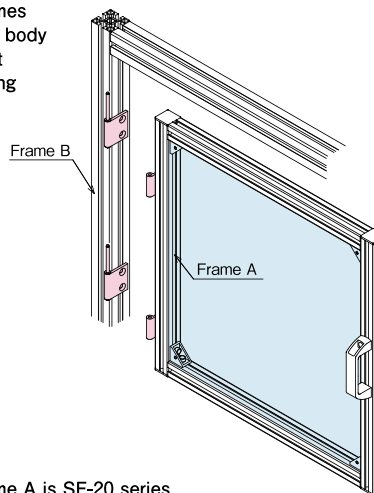
Choice of Free Hinge and Slip-Joint Hinge

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	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)

SF20
SS SizeSF30
S SizeSF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

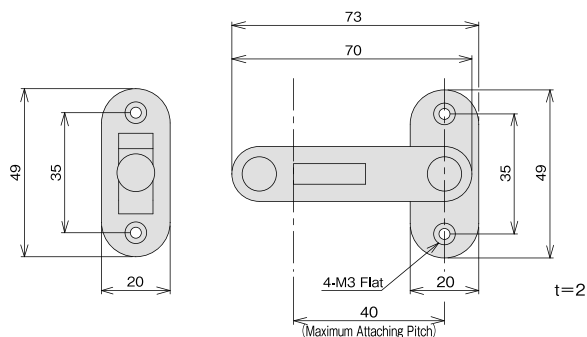
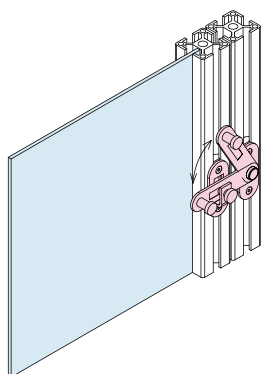
Technical Data

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

Small Flat Screw with Cross Hole(M3)2 pcs
Length : See Table

Small Flat Screw with Cross Hole(M3)2 pcs
Length : See Table

T Nut※ (M3)
2 piece

T Nut ※ (M3)
2 piece

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.

SFA-3A1

Quantity (pcs)

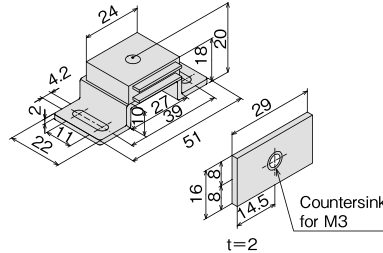


SF Door•Panel Parts Magnet Catch

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 Dark Brown Painting Weight Stainless Ferrite Aluminum 35g (Magnet Catch N)	

In case of Door Frame 20mm (Include Panel Frame)

Door Frame 20mm • Body Frame 20mm
(MG Bracket SS Kit)

Weight 91.7g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket SS×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×6)×1
- ⑤ T Nut SS M3×1
- ⑥ T Nut SS M5×2
- ⑦ Hexagon Socket Bolt (M5×25)×2

Name	MG Bracket SS Kit
Item No.	SFK-4AA

Door Frame 20mm • Body Frame 30mm
(MG Bracket S Kit)

Weight 119.7g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket S×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×6)×1
- ⑤ T Nut SS M3×1
- ⑥ T Nut S M5×2
- ⑦ Hexagon Socket Bolt (M5×22)×2

Name	MG Bracket S Kit
Item No.	SFK-4AB

Door Frame 20mm • Body Frame 40mm • 45mm
(MG Bracket L Kit)

Weight 96g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket L×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×6)×1
- ⑤ T Nut SS M3×1
- ⑥ T Nut L M5×2
- ⑦ Hexagon Socket Bolt (M5×15)×2

Name	MG Bracket L Kit
Item No.	SFK-4AC

Door Frame 20mm • Body Frame 80mm (2 lines of grooves) • 90mm
(MG Bracket L80-90 Kit)

Weight 105g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket L80-90×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×6)×1
- ⑤ T Nut SS M3×1
- ⑥ T Nut L M5×2
- ⑦ Hexagon Socket Bolt (M5×14)×2

Name	MG Bracket L80-90 Kit
Item No.	SFK-4AK

In case of Door Frame 30mm

Door Frame 30mm • Body Frame 30mm
(MG Bracket S-S Kit)

Weight 93.3g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket S-S×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×8)×1
- ⑤ T Nut S M3×1
- ⑥ T Nut S M5×2
- ⑦ Hexagon Socket Bolt (M5×10)×2

Name	MG Bracket S-S Ki
Item No.	SFK-4AH

Door Frame 30mm • Body Frame 40mm • 45mm
(MG Bracket L-S Kit)

Weight 101.9g/set

Kit Contents

- ① Magnet Catch N×1
- ② MG Bracket L-S×1
- ③ Truss Screw (M4×5)×2
- ④ Flat-Head Screw (M3×8)×1
- ⑤ T Nut S M3×1
- ⑥ T Nut L M5×2
- ⑦ Hexagon Socket Bolt (M5×12)×2

Name	MG Bracket L-S Kit
Item No.	SFK-4AE



Parts
How to order
Item No. Quantity (pcs)
SFA-45A □□

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 Nx1
- 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 Nx1
- 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

Name	MG Bracket L-L40 Kit
Item No.	SFK-4AM

Kit Contents

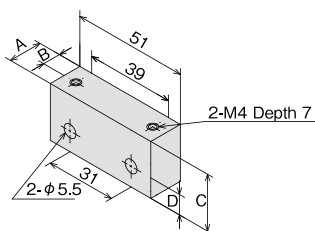
- ①Magnet Catch Nx1
- ②MG Bracket Lx1
- ③Truss Screw (M4×5)×2
- ④Flat-Head Screw (M3×10)×1
- ⑤Accessory Nut L M3×1
- ⑥T Nut L M5×2
- ⑦Hexagon Socket Bolt (M5×15)×2

<Body Frame □40mm>

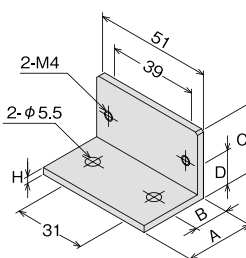
<Body Frame □45mm>

■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

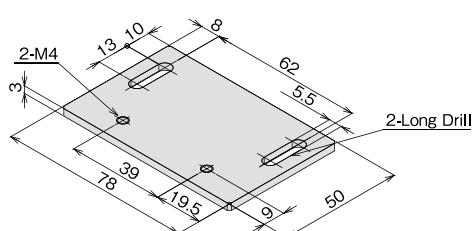
(Unit : mm)

<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)

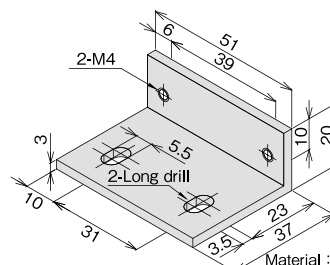
(Unit : mm)

<MG Bracket L80-90>



Material : A6063 Alumite Treatment

<MG Bracket L>

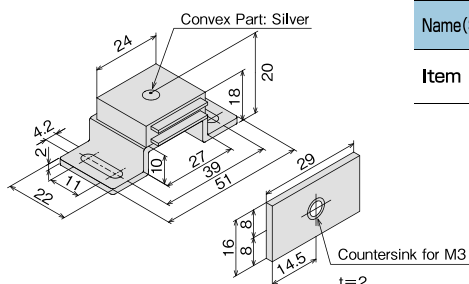


Material : A6063 Alumite Treatment

Magnet Catch J(For Resin Panel Door)

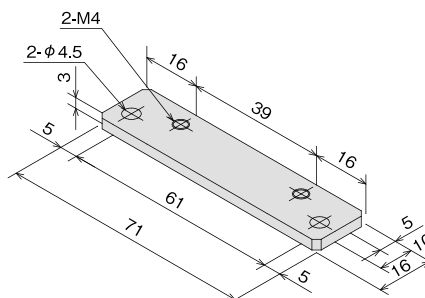
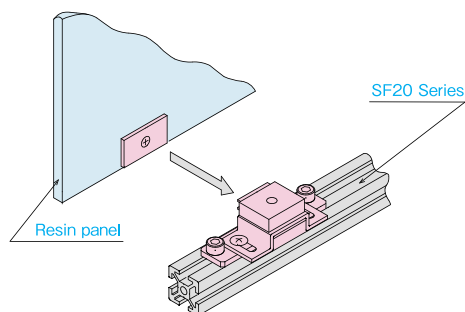


Magnet Catch J(Adsorbability:14.7N)



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 Jx1
- MG20P Bracketx1
- Truss Screw(M4x5)x2
- Flat-Head Screw(M3x10)x1
- Hexagon Socket Bolt (M4x8)x2
- Cap Nut(M3)x1
- T Nut SS(M4)x2

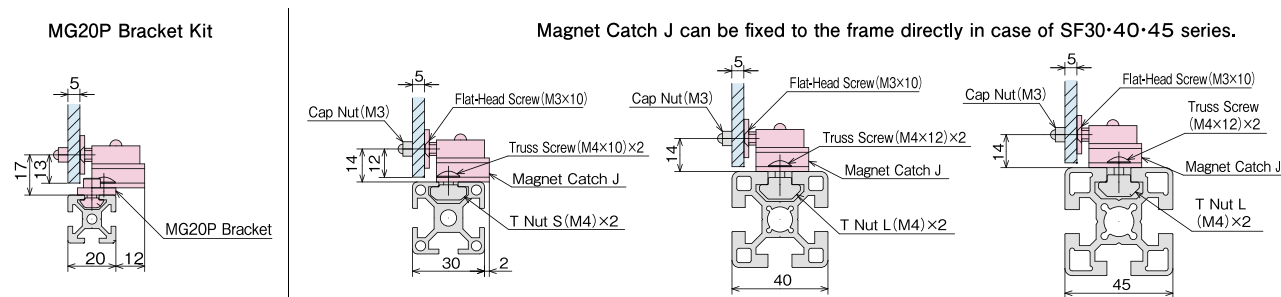
■Material/Technical Data

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〉

Magnet Catch J can be fixed to the frame directly in case of SF30·40·45 series.

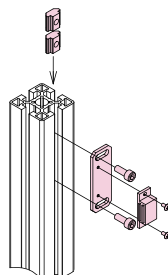


※Please order by single item regarding screws for Magnet Catch in case of SF30・40・45.

Magnet Catch G (For Resin Panel Door)

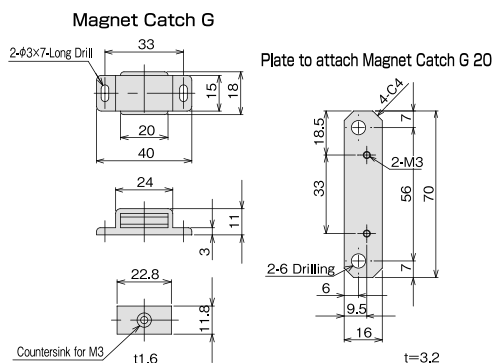


Magnet Catch G (Adsorbability : 10N)

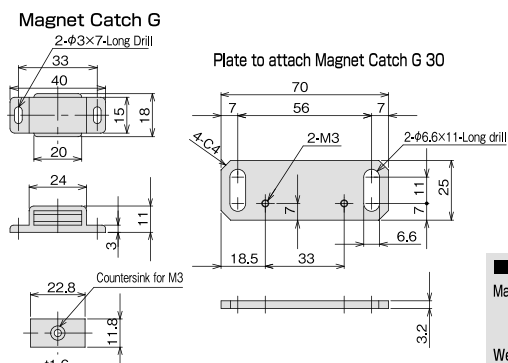


Name(Single Item)	Magnet Catch G
Item No.	SFA-498

Magnet Catch G-SS Kit



Magnet Catch G-S/L Kit(Common)

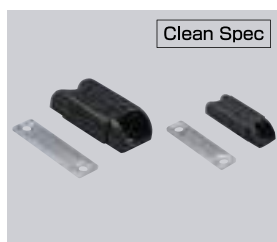
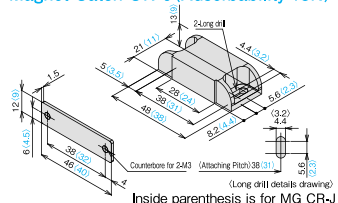


Material/Technical Data	
Material	ABS (Magnet Catch) SPCC Uni-Chrome (Door Side-Setting Plate)
Weight	14g (Magnet Catch G)

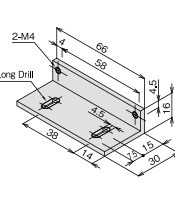
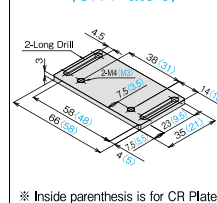
Attaching Frame	SF20 Series	SF30 Series	SF40-45 Series
Name(Bolt and Nut Kit)	Magnet Catch G-SS Kit	Magnet Catch G-S Kit	Magnet Catch G-L Kit
Item No.	SFK-4X4	SFK-4X5	SFK-4X6

Kit Contents	(Magnet Catch G-SS Kit)	(Magnet Catch G-S Kit)	(Magnet Catch G-L Kit)
	● Magnet Catch Gx1 ● Plate to attach Magnet Catch G 20x1 ● Cap Nut(M3)x2 ● Truss Screw(M3x6)x2 ● Hexagon Socket Bolt (M5x8)x2 ● T Nut SS(M5)x2 ● Flat-Head Screw(M3x8)x2	● Magnet Catch Gx1 ● Plate to attach Magnet Catch G 30x1 ● Cap Nut(M3)x2 ● Truss Screw(M3x6)x2 ● Hexagon Socket Bolt (M6x10)x2 ● T Nut S(M6)x2 ● Flat-Head Screw(M3x10)x2	● Magnet Catch Gx1 ● Plate to attach Magnet Catch G 30x1 ● Cap Nut(M3)x2 ● Truss Screw(M3x6)x2 ● Hexagon Socket Bolt (M6x15)x2 ● T Nut L(M6)x2 ● Flat-Head Screw(M3x10)x2

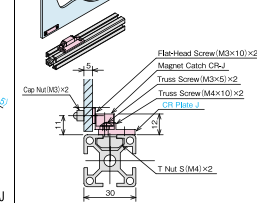
Magnet Catch CR-N (For Frame Rim Door)/J (For Resin Panel Door)

Magnet Catch CR-N (Adsorbability:23N)
Magnet Catch CR-J (Adsorbability:13N)

CR Bracket

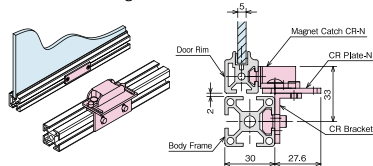
CR Plate-N
(CR Plate-J)

Magnet Catch CR-J Example of installation

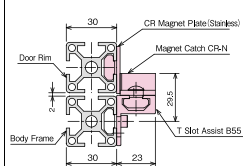


Installing Example of Magnet Catch CR-N Kit

※ 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-Nx1 ● CR Plate-Nx1 ● CR Bracketx1 ● Cross-Recessed Small Flat Screw M3x6(Stainless)x2 ● ST Nut SS(M3)x2 ● Truss Screw M4x6(Stainless)x4 ● Truss Screw M4x10(Stainless)x2 ● ST Nut S(M4)x2	● Magnet Catch CR-Nx1 ● T Slot Assist B55x1 ● CR Magnet Platex1 ● Cross-Recessed Small Flat Screw M3x8(Stainless)x2 ● ST Nut S(M3)x2 ● Truss Screw M4x6(Stainless)x4 ● Truss Screw M4x12(Stainless)x2 ● ST Nut S(M4)x4	● Magnet Catch CR-Nx1 ● CR Plate-Nx1 ● CR Bracketx1 ● Cross-Recessed Small Flat Screw M3x8(Stainless)x2 ● ST Nut SS(M3)x2 ● Truss Screw M4x6(Stainless)x4 ● Truss Screw M4x12(Stainless)x2 ● ST Nut L(M4)x2	● Magnet Catch CR-Nx1 ● CR Plate-Nx1 ● CR Bracketx1 ● Cross-Recessed Small Flat Screw M3x8(Stainless)x2 ● ST Nut S(M3)x2 ● Truss Screw M4x6(Stainless)x4 ● Truss Screw M4x12(Stainless)x2 ● ST Nut L(M4)x2	● Magnet Catch CR-Nx1 ● T Slot Assist B55x1 ● CR Magnet Platex1 ● Cross-Recessed Small Flat Screw M3x10(Stainless)x2 ● Accessory Nut L-M3x2 ● Truss Screw M4x10(Stainless)x2 ● ST Nut S(M4)x2 ● Truss Screw M4x12(Stainless)x2 ● ST Nut L(M4)x2	● Magnet Catch CR-Nx1 ● CR Plate-Nx1 ● CR Bracketx1 ● Cross-Recessed Small Flat Screw M3x10(Stainless)x2 ● Accessory Nut L-M3x2 ● Truss Screw M4x6(Stainless)x4 ● Truss Screw M4x12(Stainless)x2 ● ST Nut L(M4)x2

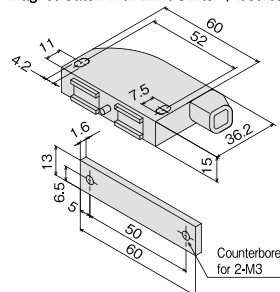
Material/Technical Data	
Material	A6063 (CR Plate-CR Bracket) Resin (Housing) Neodymium (Magnet)
Weight	16.7g (Magnet Catch CR-N (Single Item)) 8.9g (Magnet Catch CR-J (Single Item))
Environment	RoHS Compliant

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

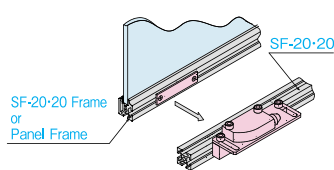
Rated Voltage [V]	Resistant Load [A]	Lumped Load [A]	Induction Load [A]
AC125	5	1.5	3
AC250	5	—	3
DC30	5	—	1.5

Purpose Example

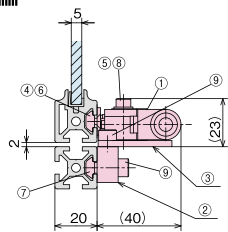
Name	Door	Component
ML Bracket SS Kit	SF-20-20 or Panel Frame SS	SF-20-20 Series
ML Bracket S Kit		SF-30-30 Series
ML Bracket L Kit		SF-40-45 Series
ML Bracket S-S Kit	SF-30-30	SF-30-30 Series
ML Bracket L-S Kit		SF-40-45 Series
		SF-20-20 Series
ML Plate	Resin Panel	SF-30-30 Series
		SF-40-45 Series

*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)

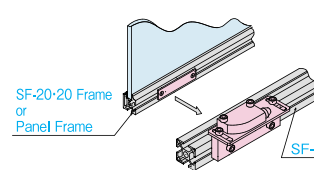
Weight 181g/set



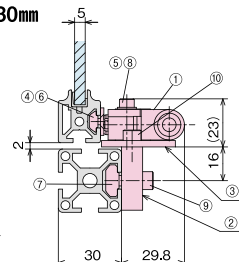
Kit Contents

- ① Magnet Catch with Limit Switch×1
- ② ML Bracket SS×1
- ③ ML Plate×1
- ④ Flat-Head Screw (M3×6)×2
- ⑤ For Flat Washer M4×2
- ⑥ T Nut SS M3×2
- ⑦ T Nut SS M5×2
- ⑧ Hexagon Socket Bolt (M4×18)×2
- ⑨ Hexagon Socket Bolt (M5×15)×4

Name	ML Bracket SS Kit
Item No.	SFK-4CA

Door Frame □20mm · Body Frame □30mm
(ML Bracket S Kit)

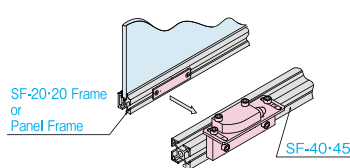
Weight 221g/set



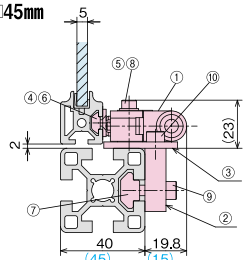
Kit Contents

- ① Magnet Catch with Limit Switch×1
- ② ML Bracket S×1
- ③ ML Plate×1
- ④ Flat-Head Screw (M3×6)×2
- ⑤ For Flat Washer M4×2
- ⑥ T Nut SS M3×2
- ⑦ T Nut S M5×2
- ⑧ Hexagon Socket Bolt (M4×18)×2
- ⑨ Hexagon Socket Bolt (M5×15)×2
- ⑩ Hexagon Socket Bolt (M5×18)×2

Name	ML Bracket S Kit
Item No.	SFK-4CB

Door Frame □20mm · Body Frame □40mm · □45mm
(ML Bracket L Kit)

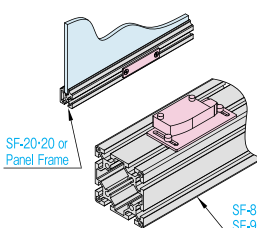
Weight 217.5g/set



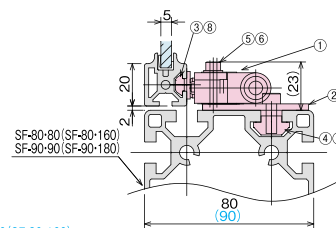
Kit Contents

- ① Magnet Catch with Limit Switch×1
- ② ML Bracket ×1
- ③ ML Plate×1
- ④ Flat-Head Screw (M3×6)×2
- ⑤ For Flat Washer M4×2
- ⑥ T Nut SS M3×2
- ⑦ T Nut L M5×2
- ⑧ Hexagon Socket Bolt (M4×18)×2
- ⑨ Hexagon Socket Bolt (M5×15)×2
- ⑩ Hexagon Socket Bolt (M5×22)×2

Name	ML Bracket L Kit
Item No.	SFK-4CC

Door Frame □20mm · Body Frame □80mm (2 lines of grooves) · □90mm
(ML Bracket L80-90 Kit)

Weight 125g/set

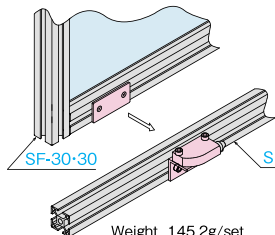


Kit Contents

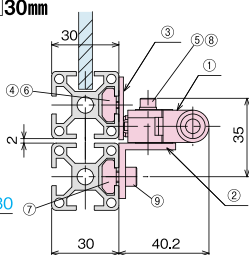
- ① Magnet Catch with Limit Switch×1
- ② ML Bracket L80-90×1
- ③ T Nut SS M3×2
- ④ T Nut L M5×2
- ⑤ For Flat Washer M4×2
- ⑥ Hexagon Socket Bolt (M4×18)×2
- ⑦ Hexagon Socket Bolt (M5×14)×2
- ⑧ Flat-Head Screw (M3×6)×2

Name	ML Bracket L80-90 Kit
Item No.	SFK-4CJ

■In case of Door Frame □30mm

Door Frame □30mm · Body Frame □30mm
(ML Bracket S-S Kit)

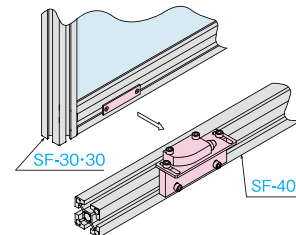
Weight 145.2g/set



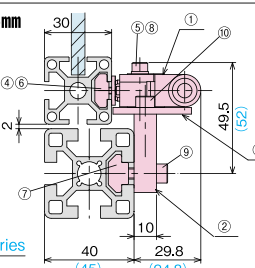
Kit Contents

- ① Magnet Catch with Limit Switch×1
- ② ML Bracket S-S×1
- ③ ML Magnet Plate×1
- ④ Flat-Head Screw (M3×8)×2
- ⑤ For Flat Washer M4×2
- ⑥ T Nut S M3×2
- ⑦ T Nut S M5×2
- ⑧ Hexagon Socket Bolt (M4×20)×2
- ⑨ Hexagon Socket Bolt (M5×10)×2

Name	ML Bracket S-S Kit
Item No.	SFK-4CD

Door Frame □30 · Body Frame □40mm · □45mm
(ML Bracket L-S Kit)

Weight 284.7g/set



Kit Contents

- ① Magnet Catch with Limit Switch×1
- ② ML Bracket L-S×1
- ③ ML Plate×1
- ④ Flat-Head Screw (M3×8)×2
- ⑤ For Flat Washer M4×2
- ⑥ T Nut S M3×2
- ⑦ T Nut L M5×2
- ⑧ Hexagon Socket Bolt (M4×18)×2
- ⑨ Hexagon Socket Bolt (M5×15)×2
- ⑩ Hexagon Socket Bolt (M5×22)×2

Name	ML Bracket L-S Kit
Item No.	SFK-4CF



Parts

How to order

Item No.

SFA-42A

Quantity (pcs)



Door Frame 30mm • Body Frame 60mm (2 lines of grooves)
〈ML Bracket S60-S Kit〉

SF-30-30
SF-60-60-2S (SF-60-90, SF-60-120)
Weight 179g/set

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

Name	ML Bracket S60-S Kit
Item No.	SFK-4CN

Door Frame 30mm • Body Frame 80mm (2 lines of grooves) • 90mm
〈ML Bracket L80-90-S Kit〉

SF-30-30
SF-80-80 (SF-80-160)
SF-90-90 (SF-90-180)
Weight 162g/set

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

Name	ML Bracket L80-90-S Kit
Item No.	SFK-4CK

■In case of Door Frame 40mm

Door Frame 40mm • Body Frame 40mm
〈ML Bracket L40-L40 Kit〉

SF-40-40
SF-40 series
Weight 266g/set

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

Name	ML Bracket L40-L40 Kit
Item No.	SFK-4CL

Door Frame 40mm • Body Frame 45mm
〈ML Bracket L45-L40 Kit〉

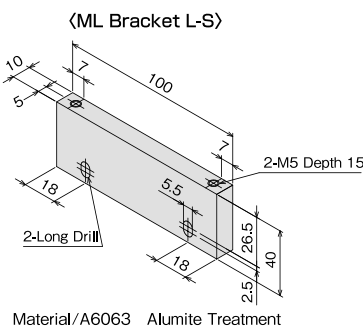
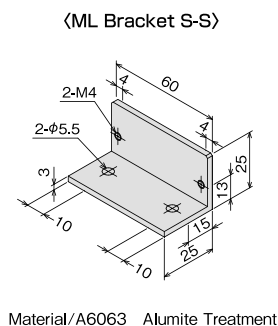
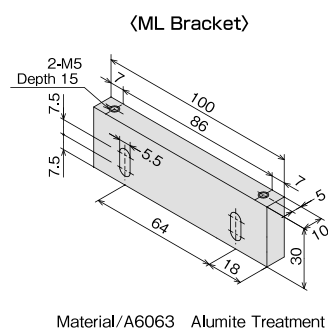
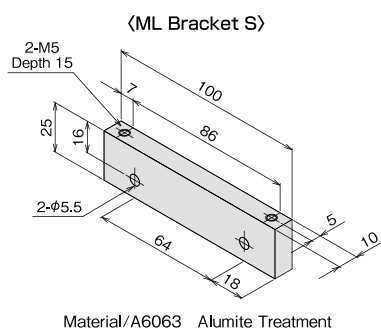
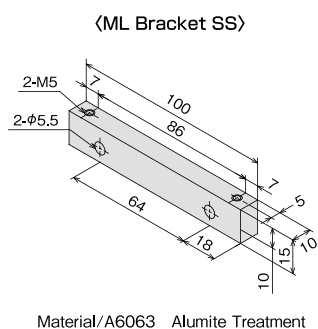
SF-40 series
SF-45 series
Weight 293g/set

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

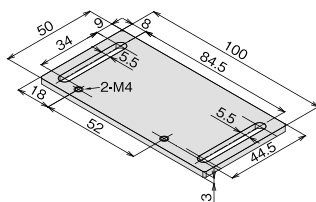
Name	ML Bracket L45-L40 Kit
Item No.	SFK-4CM

■Bracket for Magnet Catch with Limit Switch Kit (For Frame Rim Door)



Door·Panel Parts Magnet Catch with Limit Switch

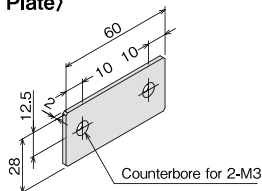
〈ML Bracket L80×90〉



Material/Technical Data

Material Aluminium Alloy
Alumite Treatment
Weight 36.4g
Environment **RoHS** Compliant
Green Procurement

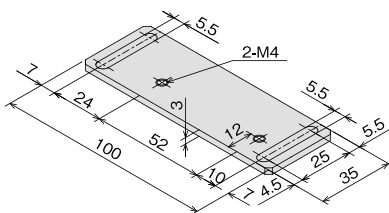
★〈ML Magnet Plate 1〉 ★〈CR Magnet Plate〉



Material/Technical Data

	ML Magnet Plate 1	CR Magnet Plate
Material	SPCC	Stainless(SUS430)
Weight	25.2g	25.6g
Environment	★ RoHS Compliant	★ Green Procurement

〈ML Plate〉

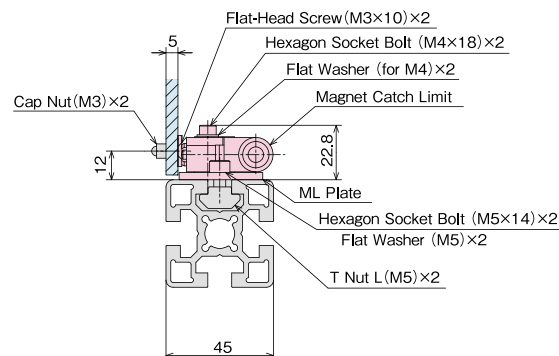
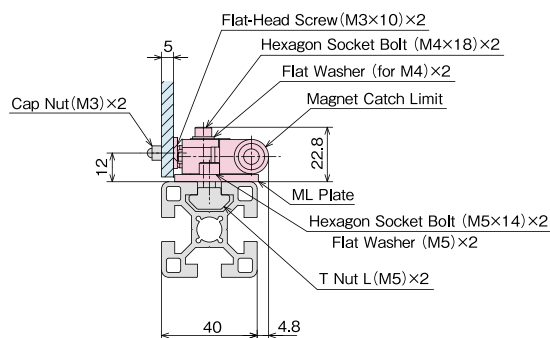
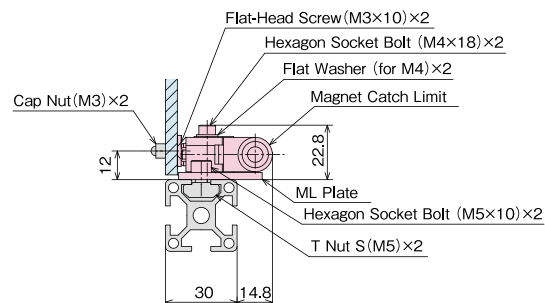
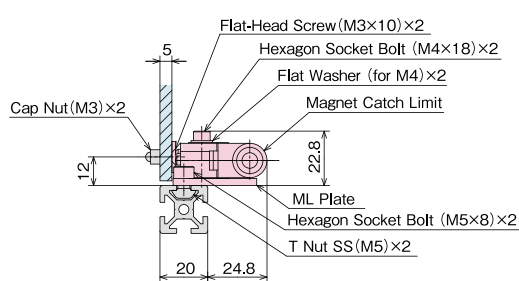


Name	ML Plate
Item No.	SFA-42E

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.



Parts

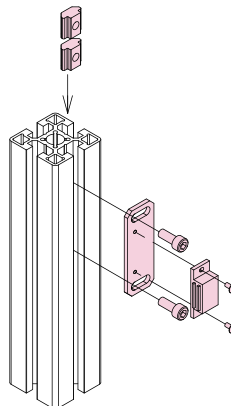
How to order

Item No. Quantity (pcs)
SFA-42E

Magnet Catch G with Limit Switch

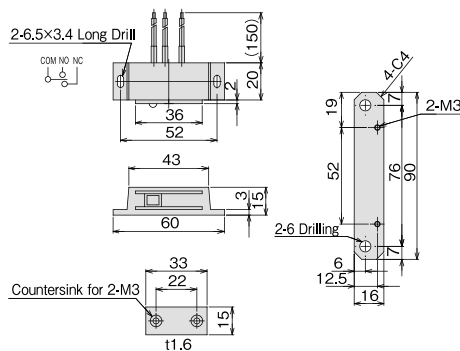


Magnet Catch G with Limit Switch
(Adsorbability:19N)

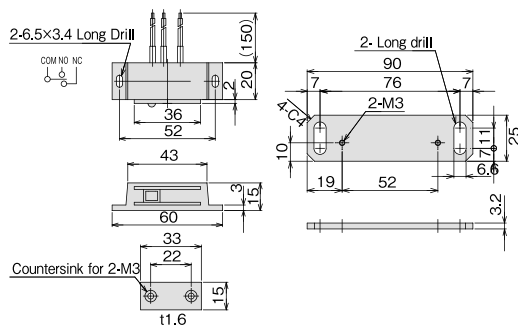


Name(Single Item)	Magnet Catch G with Limit Switch
Item No.	SFA-499

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 ● T Nut SS(M5)×2 ● MG-G Limit Installing Plate 20×1 ● Truss Screw (M3×6)×2 ● Flat-Head Screw (M3×8)×2 ● Hexagon Socket Bolt (M5×8)×2 ● Cap Nut (M3)×2	● Magnet Catch G with Limit Switch×1 ● T Nut S (M6)×2 ● MG-G Limit Installing Plate 30×1 ● Truss Screw (M3×6)×2 ● Flat-Head Screw (M3×10)×2 ● Hexagon Socket Bolt (M6×10)×2 ● Cap Nut (M3)×2	● Magnet Catch G with Limit Switch×1 ● T Nut L (M6)×2 ● MG-G Limit Installing Plate 30×1 ● Truss Screw (M3×6)×2 ● Flat-Head Screw (M3×10)×2 ● Hexagon Socket Bolt (M6×15)×2 ● Cap Nut (M3)×2

Door•Panel Parts *Ball Catch*

Ball Catch Exclusive Bracket

SF20

SS Size

SF30

S Size

SF40

L Size

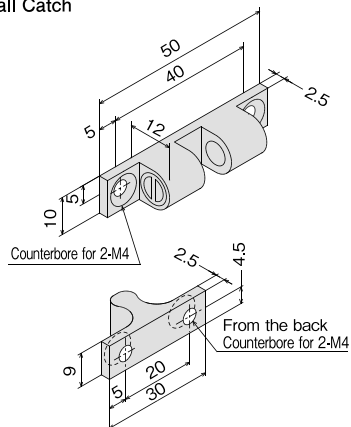
Complex Parts

Door • Panel
Clean Equipment

Technical Data



Ball Catch

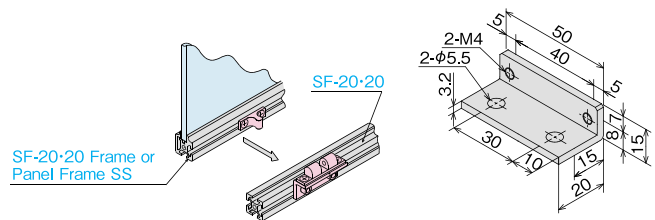


Material/Technical Data

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

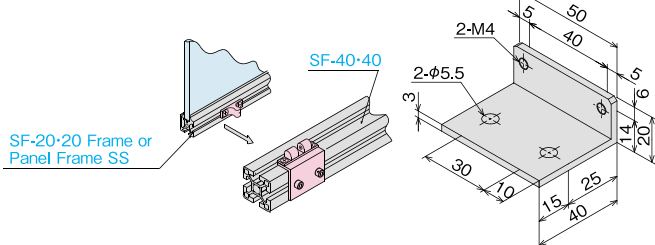


Material/SPHC Uni-Chrome Plating

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 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

Name (Bolt and Nut Kit)	BW Bracket SS Kit	BW Bracket L40 Kit
Item No.	SFK-4BA	SFK-4BC



Parts

How to order

Item No.

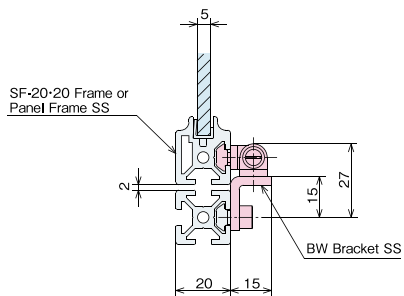
SFA-41A

Quantity (pcs)

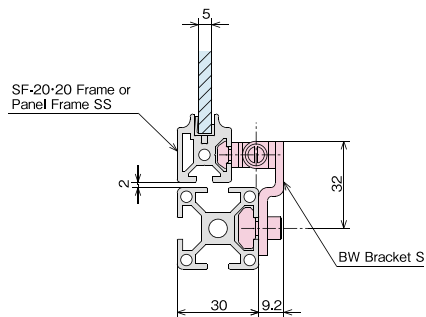


Use Example when using Ball Catch

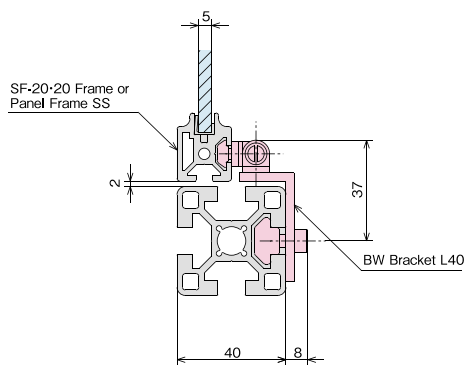
<Dimension Indication when using SF-20·20 Frame or Panel Frame SS Door>



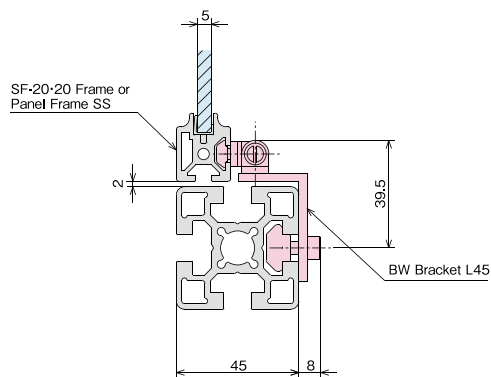
BW Bracket SS Kit



BW Bracket S Kit



BW Bracket L40 Kit



BW Bracket L45 Kit

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

Panel Clamp



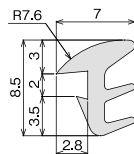
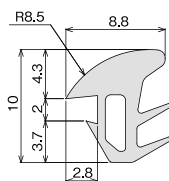
■Material/Technical Data

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)

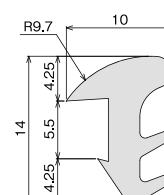
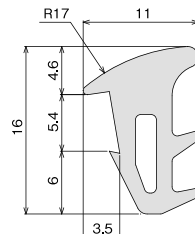
20(for T3)30(for T5)



Panel Clamp

4045(for T3)

4045(for T5)



Name	Panel Clamp(ℓ=5000mm)		Panel Clamp(ℓ=5000mm)	
	30(for T3)	20(for T3)30(for T5)	4045(for T3)	4045(for T5)
Item No.	SFA-125	SFA-121	SFA-126	SFA-123

Seal Cover



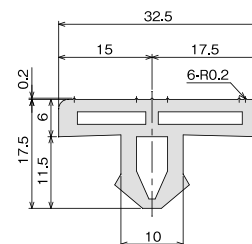
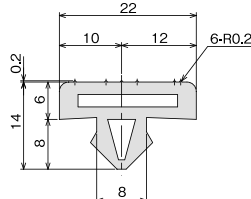
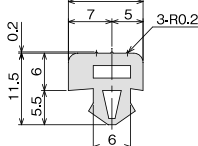
■Material/Technical Data

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=2500mm)	Seal Cover S(ℓ=2500mm)	Seal Cover L(ℓ=2500mm)
Item No.	SFA-131	SFA-133	SFA-135



Parts

How to order

Item No.

SFA-125

Quantity (pcs)



How to install Panel Clamp

〈Indication of Installation Size and Parts Selection〉

Plate Dimension : W+X

Plate Dimension : H+X

Resin Plate

Panel Clamp

W

H

Frame A

● Resin Plate needs to be notched when using QC Joint.

Notching Dimension

Mating part is cut as inset

QC Joint

Notching Dimension:Z

● 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.

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	

How to use Seal Cover

● It can fill a gap between Resin Panel and frame.

● As a stopper when making a resin door.

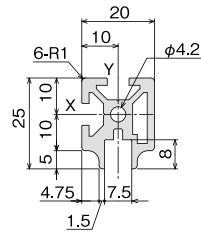
● To protect Aluminum Frame.

Door・Panel Parts Panel Frame[For Small and Medium Door]

Panel Frame SS / Panel Hold T5 / TC Block SS

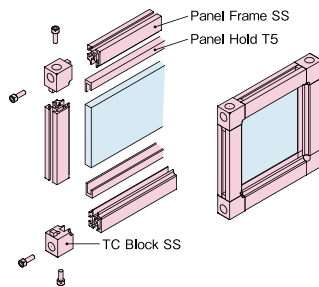
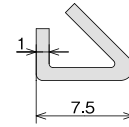


Panel Frame SS



※Based on a groove shape SF20.

Panel Hold T5



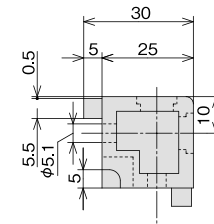
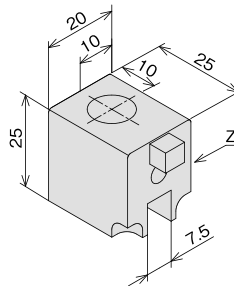
※M5 Tapping is needed to the cut surface of Panel Frame.
(Refer P199~ for details)

Material/Technical Data

Material	Aluminium Alloy (Panel Frame)
	Alumite Treatment
Weight	Ethylene Vinyl Acetate (Panel Hold T5)
	ZDC2 (TC Block SS)
Environment	0.6kg/m (Panel Frame)
	14g/m (ℓ=2000mm/pcs) (Panel Hold T5)
	40g (TC Block SS) ※

※Hexagon Socket Bolt M5×15 with 2 pcs

TC Block SS

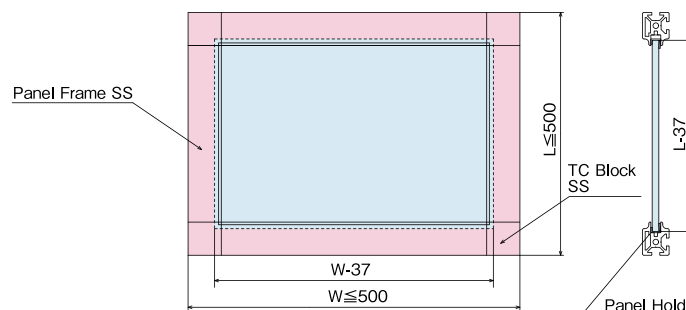


View Z

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.

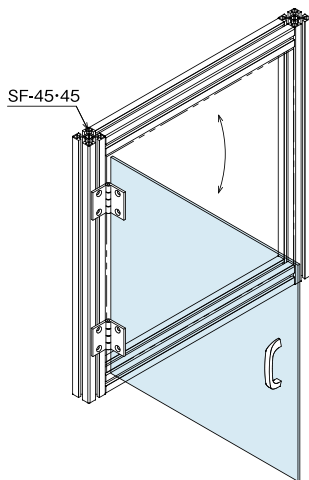


Parts

How to order

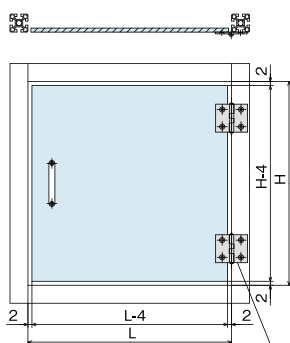
Item No. SFF-T62 Quantity (pcs)

Installment Indication for Resin Panel Door (Small door)

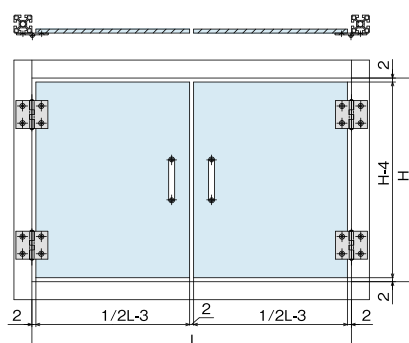


● This drawing is example of using Flat Hinge (M6).

(In case of Single Swing Door)



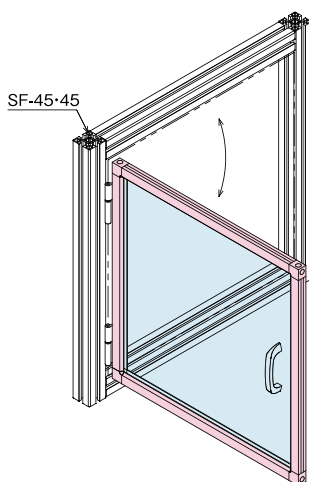
(In case of Hinged Double Door)



Flat Hinge
(P140)

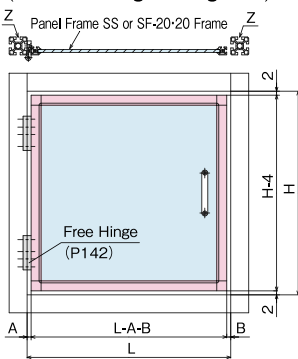
※Refer from P140 for Hinge and Magnet Catch.

Installment Indication for Panel Frame Door (Small and Medium Door)

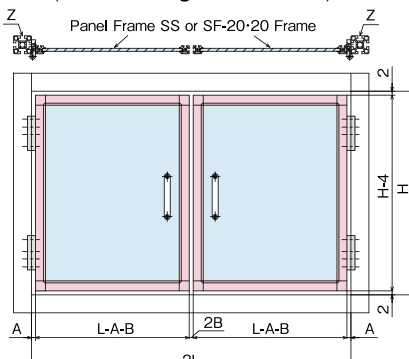


● This drawing is example of using Free Hinge 4520L.

(In case of Single Swing Door)



(In case of Hinged Double Door)

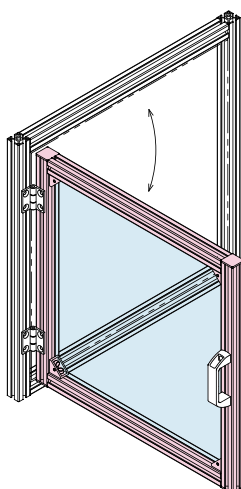


[Dimension Indication when creating Panel Frame Door]

	SF20 or SF30			SF40 or SF45		
Z	200	330	700	200	330	700
Lmm	s	s	and up	s	s	and up
Amm	329	699		329	699	
Bmm	3	2.5	2	3	2.5	2

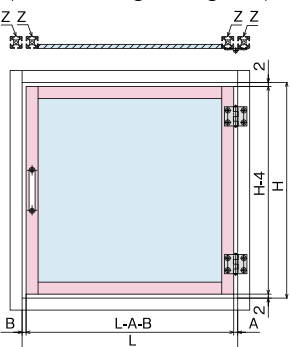
※Refer from P140 for Hinge and Magnet Catch.

Installment Indication for Frame Door (Medium and Large Door)

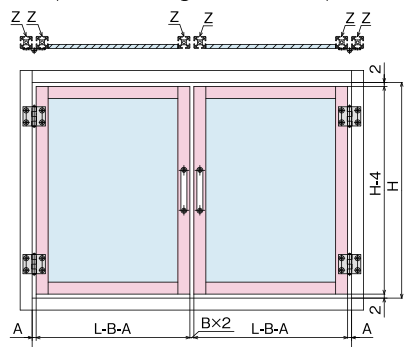


● This drawing is example of using Flat Hinge S.

(In case of Single Swing Door)



(In case of Hinged Double Door)



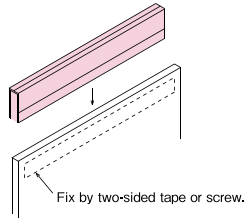
[Dimension Indication when creating Frame Door] When using Flat Hinge

	SF20	SF30	SF40 or SF45
Z	250	440	215 400 700 1000
Lmm	s	s	s and up
Amm	439	399	699 999
Bmm	2	3	5 4 3 2
	1	2	2

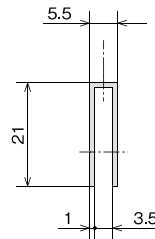
※Refer from P140 for Hinge and Magnet Catch.

Door・Panel Parts Rail [For Small Sliding Door]

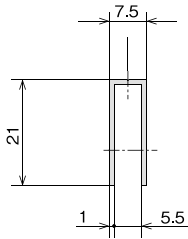
Panel Guard



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

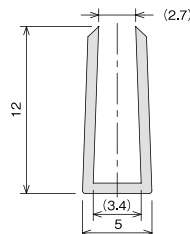
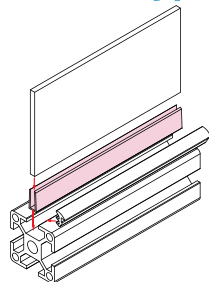


	Processing Contents	Processing Symbol
One Side	Diagram showing a 45-degree slant cut on one side of the profile, with length ℓ.	DVS
Both Side	Diagram showing 45-degree slant cuts on both sides of the profile, with length ℓ.	DVW



Panel Guard T5 800mm In case both sides are cut aslant
SFF-K54 800mm DVW (Or both sides are cut aslant)

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



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)

Item No.
SFF-K34

Length (mm) ※ Order by 0.1mm unit

ℓ=800

Parts

How to order

Item No.
SFA-109

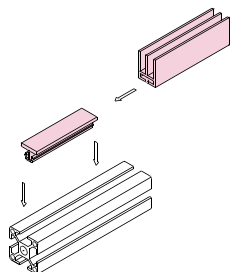
Quantity (pcs)





Door·Panel Parts Rail [For Small Sliding Door]

Sliding Door Rail (Resin)



Material/Technical Data

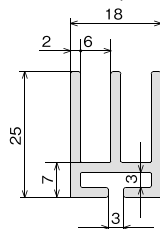
Slide Rail	Slot Connector
Material ABS	Polypropylene
Light Gray	Light Gray
Unit Mass 0.18kg/m (2 Rows)	0.06kg/m (SS)
0.28kg/m (3 Rows)	0.07kg/m (S)
	0.08kg/m (L)
Environment RoHS Compliant	Green Procurement

Usable Frame

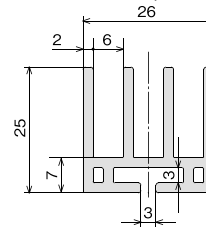


Sliding Rail..... Joint to each Slot Connector
 Slot Connector SS..... For SF20 series (Groove Width 6mm)
 Slot Connector S..... For SF30 series (Groove Width 8mm)
 Slot Connector L..... For SF40-50 series (Groove Width 10mm)

Slide Rail (2 Rows)



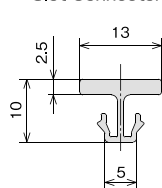
Slide Rail (3 Rows)



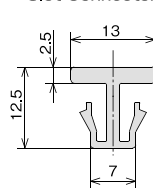
● Standard Length Products (ℓ = 2000) are to be cut by customer.

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

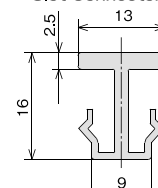
Slot Connector SS



Slot Connector S



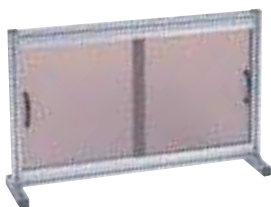
Slot Connector L



● Standard Length Products (ℓ = 2000) are to be cut by customer.

Name	Slot Connector SS (ℓ = 2000)	Slot Connector 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		

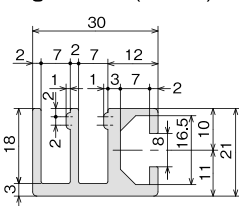
Sliding Door Rail (2 Rows) / 3 Rows (Aluminum)



Material/Technical Data

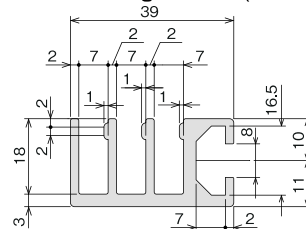
Sliding Door Rail	Attaching Plate	Slide Spacer
Material Aluminium Alloy SPCC (2 Rows)	Polyethylene	
Alumite Treatment SPHC (3 Rows)	Black	
	Uni-chrome Plating	
Weight 0.72kg/m (2 Rows)	28g (2 Rows)	60g
0.90kg/m (3 Rows)	35g (3 Rows)	(ℓ = 2000mm/pcs)
Environment ★RoHS Compliant	★Green Procurement	

Sliding Door Rail (2 Rows)



※For T Nut S

Sliding Door Rail (3 Rows)

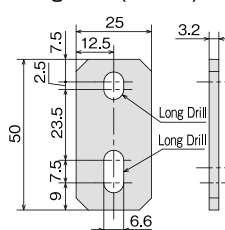


※For T Nut S

● Standard Length Products (ℓ = 4000) are to be cut by customer.

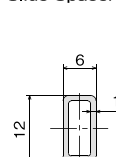
Name	Sliding Door Rail (2 Rows) (ℓ = 4000)	Sliding Door Rail (2 Rows) (ℓ = 50~4000)	Sliding Door Rail (3 Rows) (ℓ = 4000)	Sliding Door Rail (3 Rows) (ℓ = 50~4000)
Item No.	★SFF-R02-T	★SFF-R04-T	★SFF-R12-T	★SFF-R14-T

Attaching Plate (2 Rows)



※Attaching Plate can connect Frames together as well.

Slide Spacer



Name	Attaching Plate (For 2 Rows)	Slide Spacer (ℓ = 2000)
Item No.	★SFA-502	★SFA-107



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

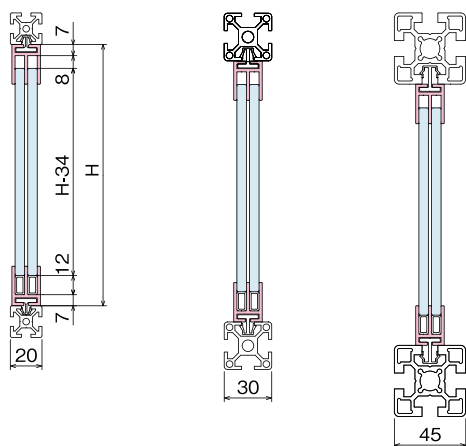
Quantity (pcs)



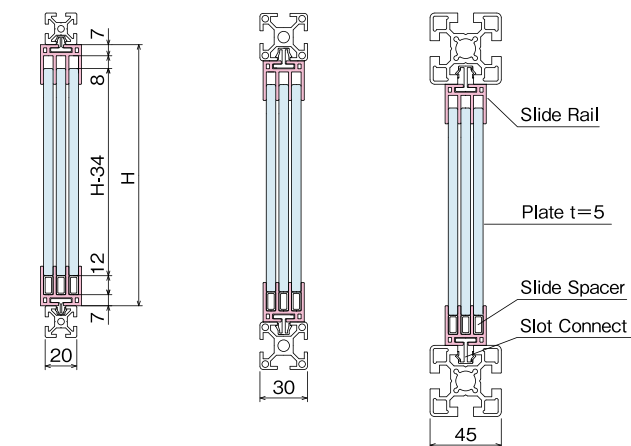
Dimensional Indication of Installing Slide Rail and Slide Door Rail

〈Slide Rail〉

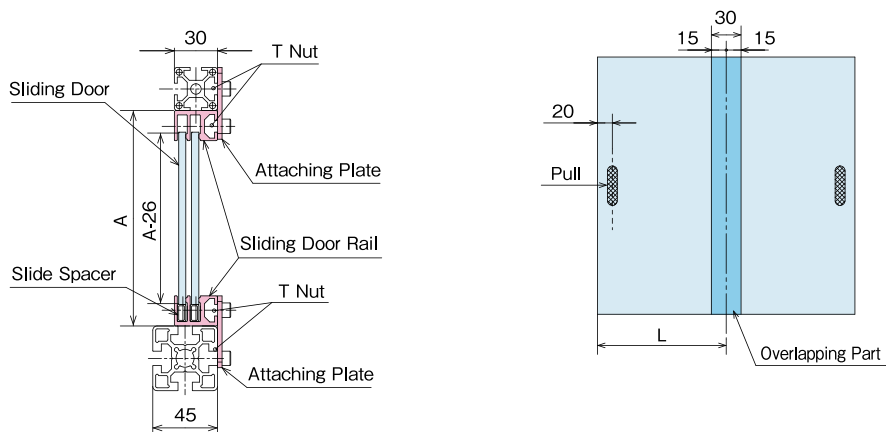
●2 Directions Type



●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

SF20

SS Size

SF30

S Size

SF40-45

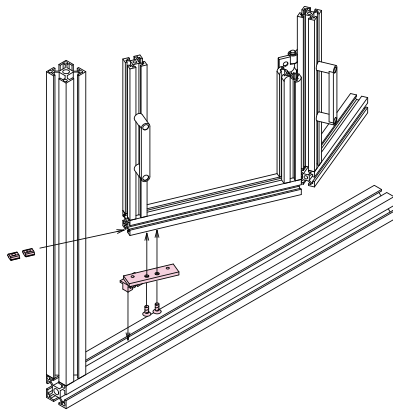
L Size

Complex Parts

Door・Panel
Clean Equipment

Technical Data

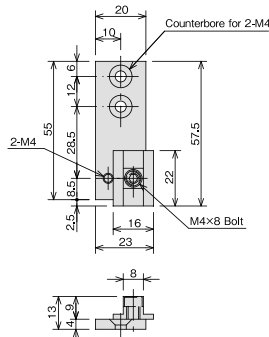
Folding Door Slider



Material/Technical Data

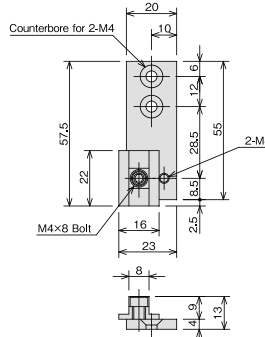
Material	Polyacetal(Slide) Stainless(Attaching Plate)
Weight	45g(S-SSA/B) 65g(S) 63g(L-S)
Environment	RoHS Compliant Green Procurement

Folding Door Slider S-SSA



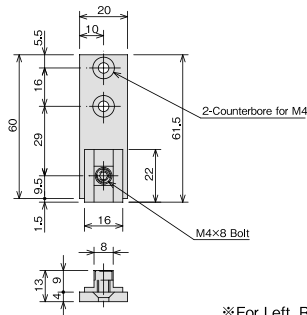
Down when Door opens to right
Up when Door opens to left

Folding Door Slider S-SSB



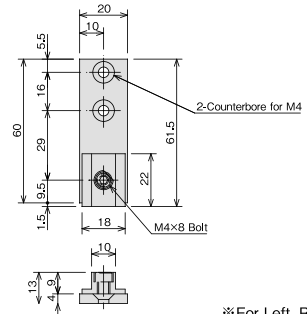
Down when Door opens to right
Up when Door opens to left

Folding Door Slider S



※For Left, Right, Up and Down

Folding Door Slider L-S



※For Left, Right, Up and Down

Kit Contents

- Folding Door Slider Block Sx1
- Folding Door Slider Plate SSx1
- ST Nut SS(M4)×2
- Hexagon Socket Bolt (M4×8) Stainlessx1
- Flat Screw(M4×8) Stainlessx2
- Spacerx1

Usable Frame

<Structural>
SF-30 Series
<Door>
SF-20-20

Kit Contents

- Folding Door Slider Block Sx1
- Folding Door Slider Plate Sx1
- ST Nut S(M4)×2
- Hexagon Socket Bolt (M4×8) Stainlessx1
- Flat Screw(M4×12) Stainlessx2
- Spacerx1

Usable Frame

<Structural>
SF-30 Series
<Door>
SF-30-30

Kit Contents

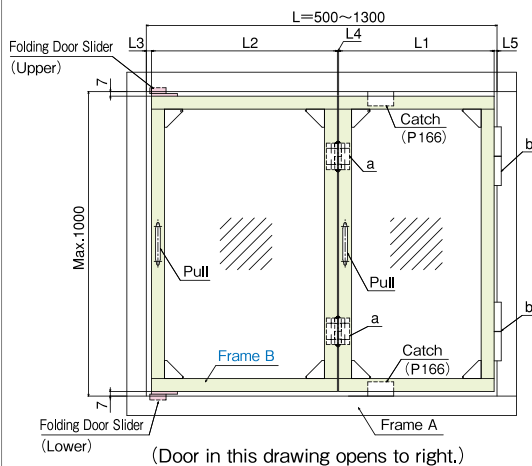
- Folding Door Slider Block Lx1
- Folding Door Slider Plate Sx1
- ST Nut S(M4)×2
- Hexagon Socket Bolt (M4×8) Stainlessx1
- Flat Screw(M4×12) Stainlessx2
- Spacerx1

Usable Frame

<Structural>
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



Indication of Parts Choice

Frame A	Frame B	Folding Slider Up	Folding Slider Down	Hinge a	Hinge b
SF30 Series	SF20 Series	Folding Slider S-SSB Note) (SFK-802A)	Folding Slider S-SSA Note) (SFK-801A)	Flat Hinge SS (SFA-2A1)	Free Hinge 3020R (SFA-25R)
SF30 Series	SF30 Series	Folding Slider S (SFK-803A)	Folding Slider S (SFK-803A)	Flat Hinge S (SFA-2A2)	Free Hinge S-R (SFA-22R)
SF40 Series	SF30 Series	Folding Slider L-S (SFK-804A)	Folding Slider L-S (SFK-804A)	Flat Hinge S (SFA-2A2)	Free Hinge L40R (SFA-23R)

Note:

- 1) When the folding door opens to the left, the folding door slider S-SS will become upside down.
- 2) For SF45 series, it's not compatible for this structure.

Dimension Indication

Frame A	Frame B	L1	L2	L3	L4	L5
SF30 Series	SF20 Series	(L-L3-L4-L5-31.8)/2	L1+31.8	L=Less than 500-700...9.5 L=Less than 700-1000...7.5 L=1000-1300...5.5	1	4.8
SF30 Series	SF30 Series	(L-L3-L4-L5-33)/2	L1+33	L=Less than 500-700...9.5 L=Less than 700-1000...7.5 L=1000-1300...5.5	2	5
SF40 Series	SF30 Series	(L-L3-L4-L5-38)/2	L1+38	L=Less than 500-700...9.5 L=Less than 700-1000...7.5 L=1000-1300...5.5	2	5

When the folding door opens to the left, the folding slide S-SS will become upside down.

SF20

SS Size

SF30

S Size

SF40-45

L Size

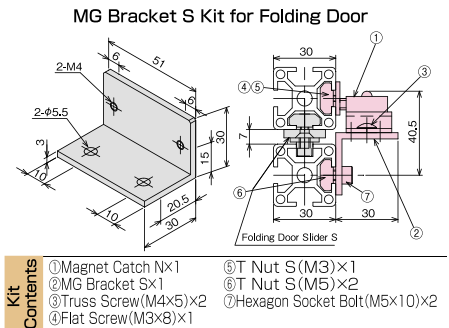
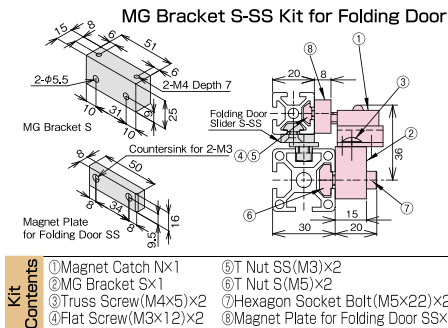
Complex Parts

Door・Panel
Clean Equipment

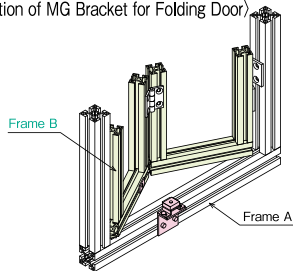
Technical Data

Door•Panel Parts Magnet Catch [for Folding Door]

Magnet Catch Kit for Folding Door

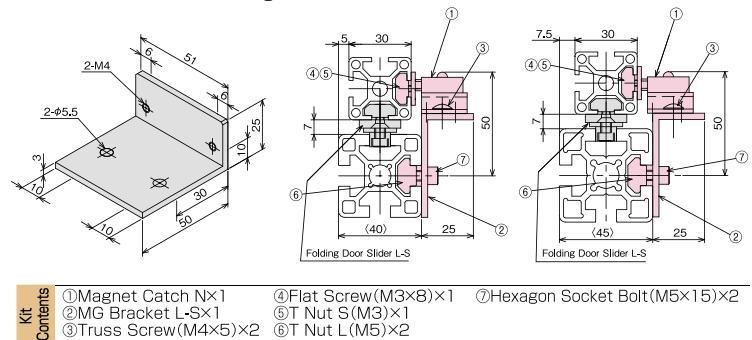


※Refer from P146 for details of Magnet Catch as Single Item.
(Choice Indiction of MG Bracket for Folding Door)



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 L-S Kit for Folding Door



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



Parts

How to order

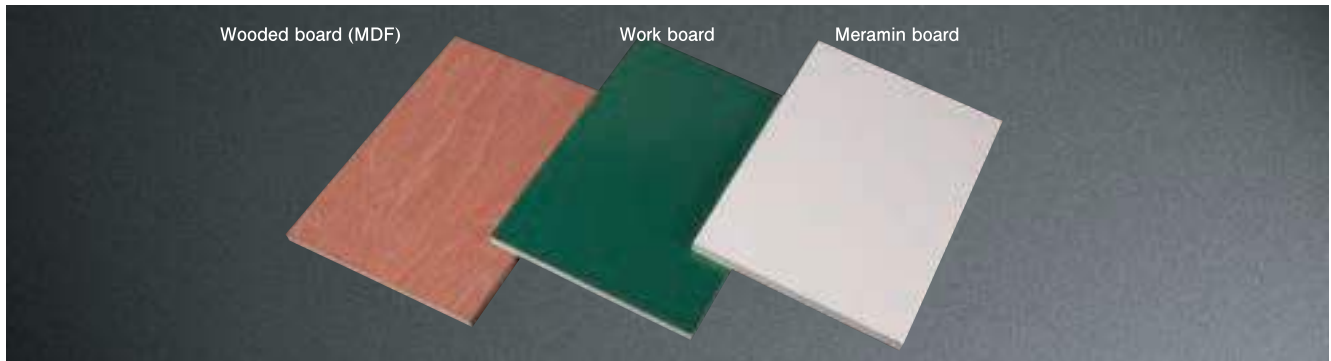
Item No. Quantity (pcs)

SFK-4AJ



Panel•Sheet

Wooden Board



Products/Options

Material	Board Thickness(mm) Include All	Surface	Color	Maximum size (mm)
Wooden Board (MDF)	9, 12, 16	White 1 Face, Wooden 1 Face	(White End Face)	1200×2400
Work Board	11, 14, 18 (Included Mat)	White 1 Face, ESD Rubber Mat (2mm)	Green (White End Face)	
Work Board (Ground Cable)	11, 14, 18 (Included Mat)	White 1 Face, ESD Rubber Mat (2mm)	Green (White End Face)	
Meramin Board	9, 12, 16	White 2 Face	White (White End Face)	

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 °C	1200×2400
Acrylic (PMMA)	Transparent	3 or 5	1.19	Up to 80 °C	
Polycarbonate (PC)	Transparent	3 or 5	1.20	Up to 130 °C	
Alumi Composit Panel (ACP)	Silver	3	0.81	Up to 70 °C	

* If you require antistatic processing for panels, please notify when requesting for quotation.



STANDARD FRAME

Technical Data

**EASY To Check,
EASY To Order,
EASY To Assemble.**

SF20
SS Size

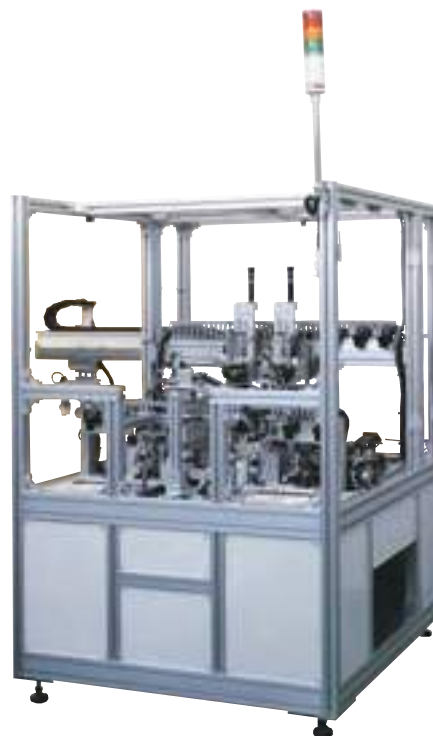
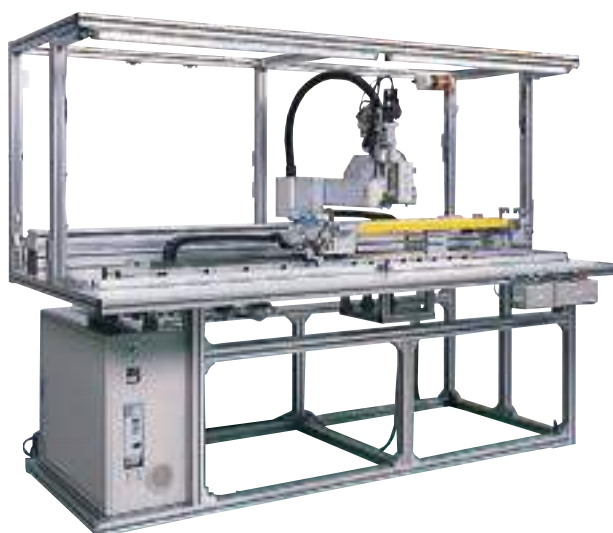
SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data



Please contact to SUS
in order to make your own image.

Reference Example of Free Unit

SF20

SS Size

SF30

S Size

SF40

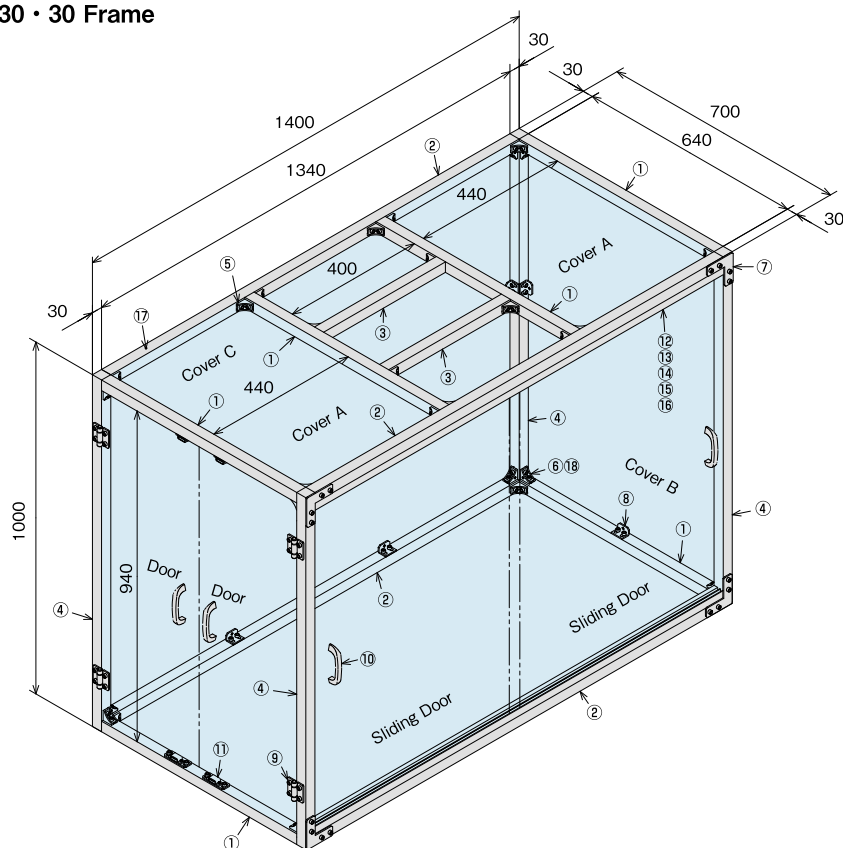
45
L Size

Complex Parts

Door・Panel
Clean Equipment

Technical Data

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 Acrylic t = 5 Clear	2
20	Door Acrylic t = 5 Clear	2
21	Cover A Acrylic t = 5 Clear	2
22	Cover B Acrylic t = 5 Clear	1
23	Cover C Acrylic t = 5 Clear	1

No.	Item No.	Name	Quantity	Note
1	SFF-324-T	SF-30・30 L = 640	6	
2	SFF-324-T	SF-30・30 L = 1340	4	
3	SFF-324-T	SF-30・30 L = 400	2	
4	SFF-324-T	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 Bracket 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-45B	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	SFY	Sliding Door 914×685 (Drilling included)	2	Acrylic t = 5 Clear
20	SFY	Door 938×317 (Drilling included)	2	Acrylic t = 5 Clear
21	SFY	Cover A 694×494 (Drilling included)	2	Acrylic t = 5 Clear
22	SFY	Cover B 998×638 (Drilling included)	1	Acrylic t = 5 Clear
23	SFY	Cover C 1338×998 (Drilling included)	1	Acrylic t = 5 Clear

Technical Data Free Unit

Reference Example of Free Unit

SF20

SS Size

SF30

S Size

SF40

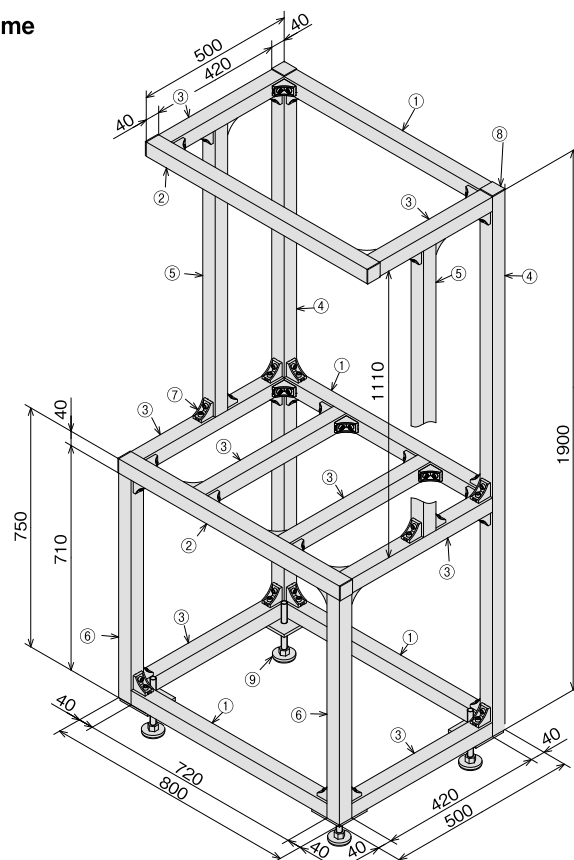
45 L Size

Complex Parts

Door Panel
Clean Equipment

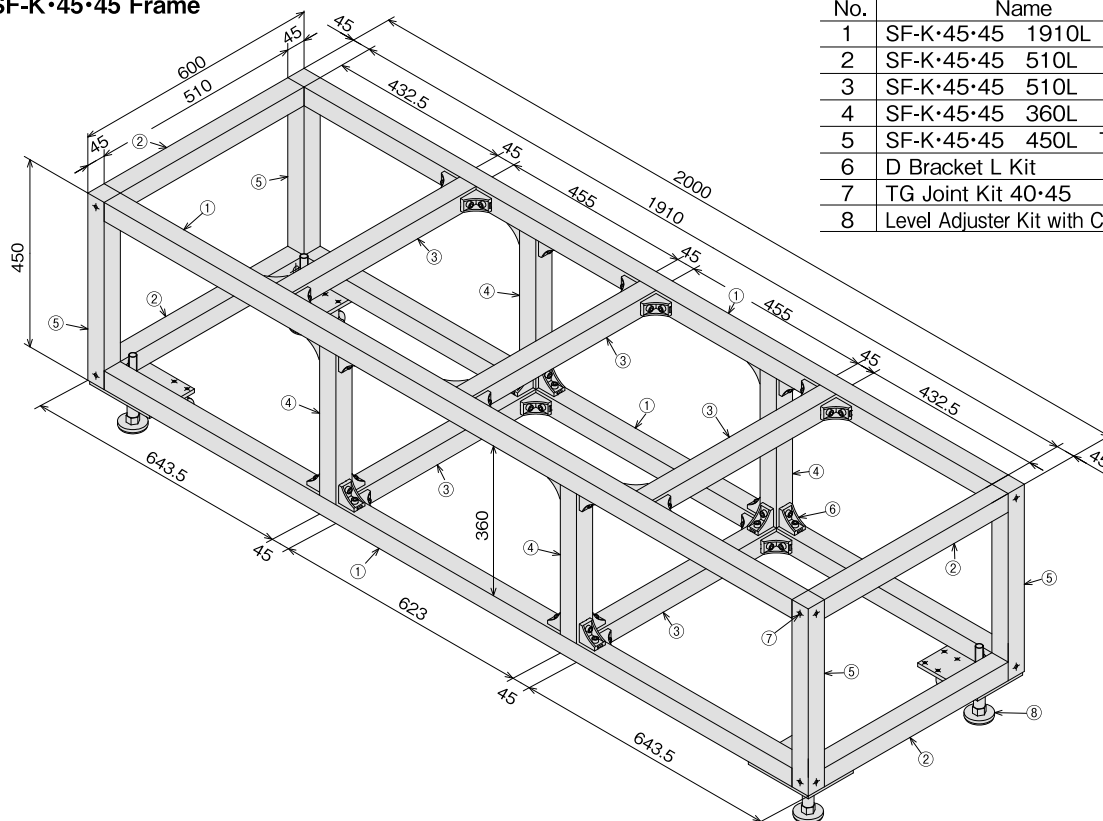
Technical Data

SF2-40•40 Frame



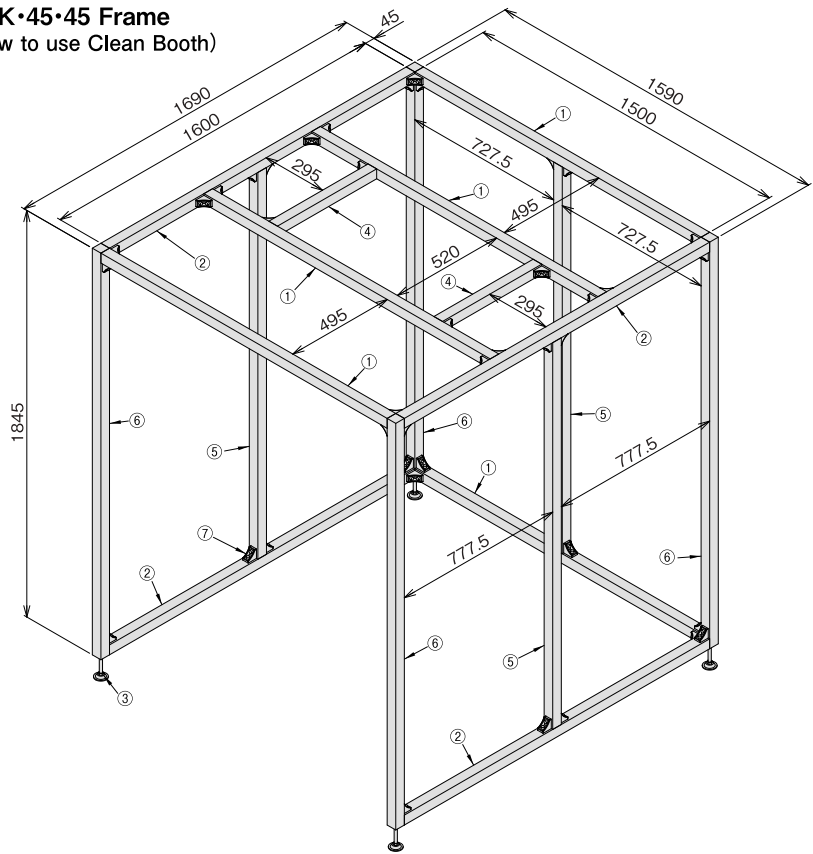
No.	Name	Quantity
1	SF2-40•40 720L	4
2	SF2-40•40 800L	2
3	SF2-40•40 420L	8
4	SF2-40•40 1900L	2
5	SF2-40•40 1110L	2
6	SF2-40•40 710L	2
7	D Bracket L Kit	48
8	Frame Cap 4040	6
9	Level Adjuster Kit L	4

SF-K•45•45 Frame



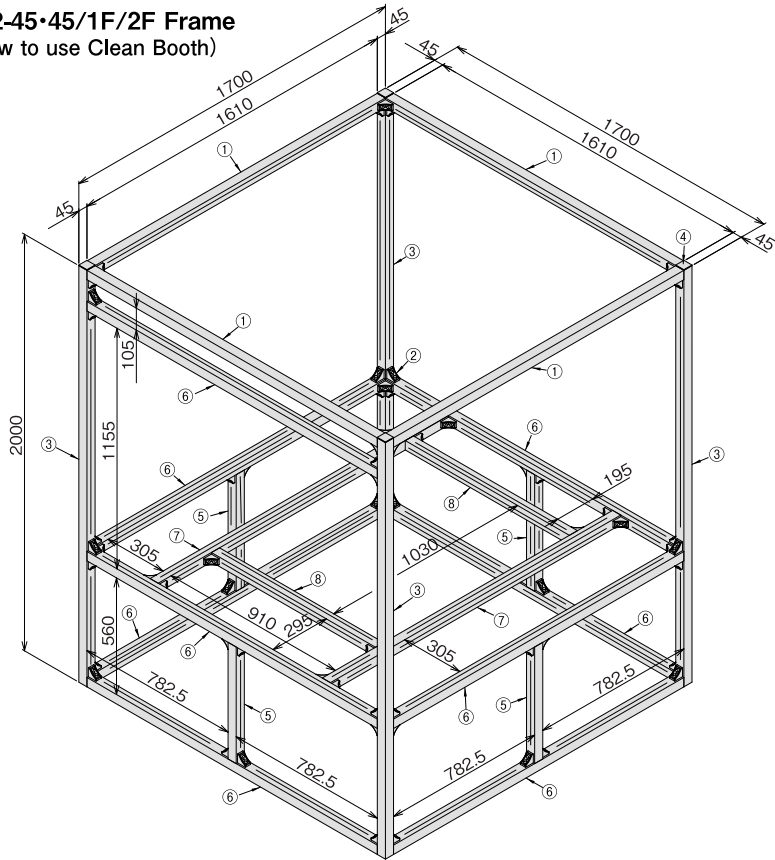
No.	Name	Quantity
1	SF-K•45•45 1910L TW	4
2	SF-K•45•45 510L TW	4
3	SF-K•45•45 510L	5
4	SF-K•45•45 360L	4
5	SF-K•45•45 450L TGM	4
6	D Bracket L Kit	40
7	TG Joint Kit 40•45	16
8	Level Adjuster Kit with Caster L	4

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

SF20

SS Size

SF30

S Size

SF40

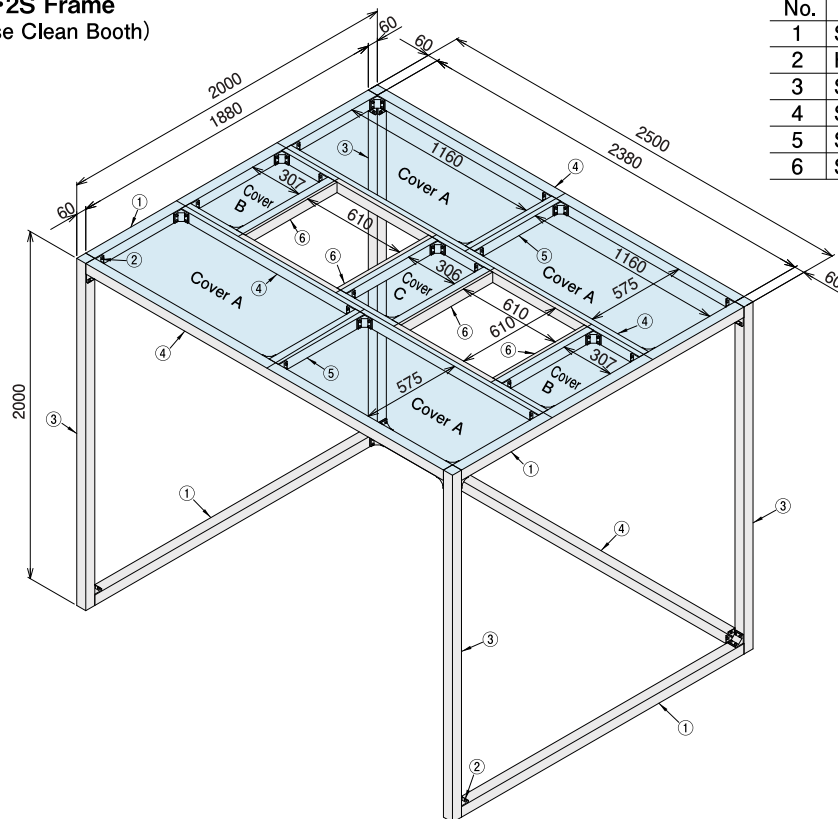
45
L Size

Complex Parts

Door · Panel
Clean Equipment

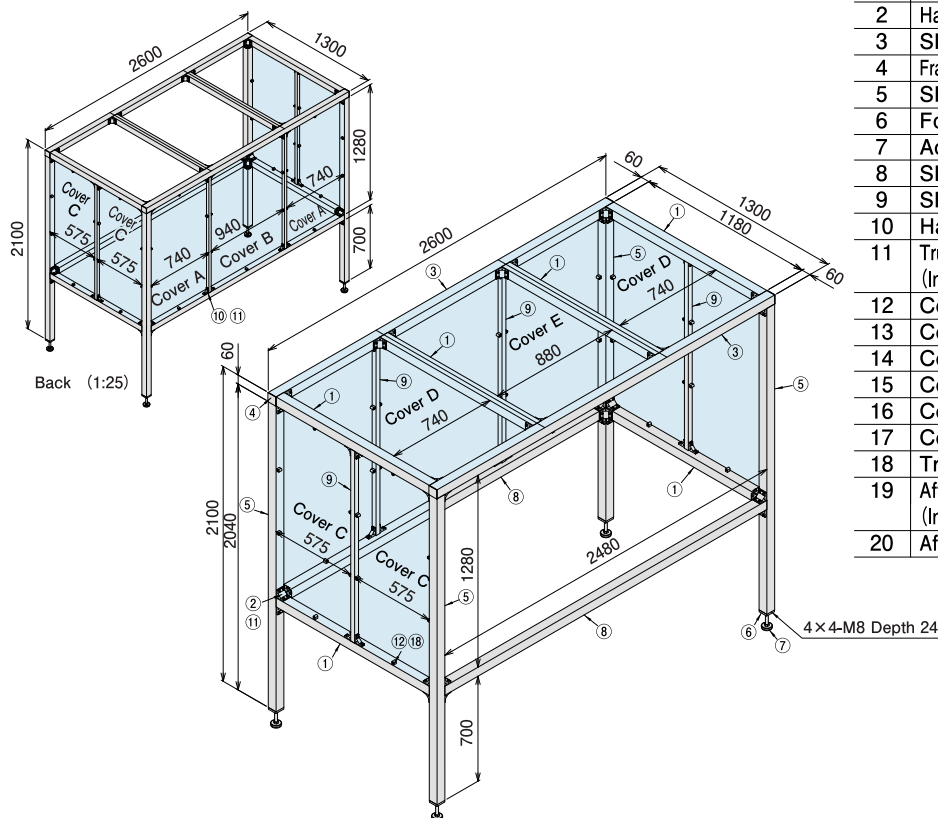
Technical Data

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

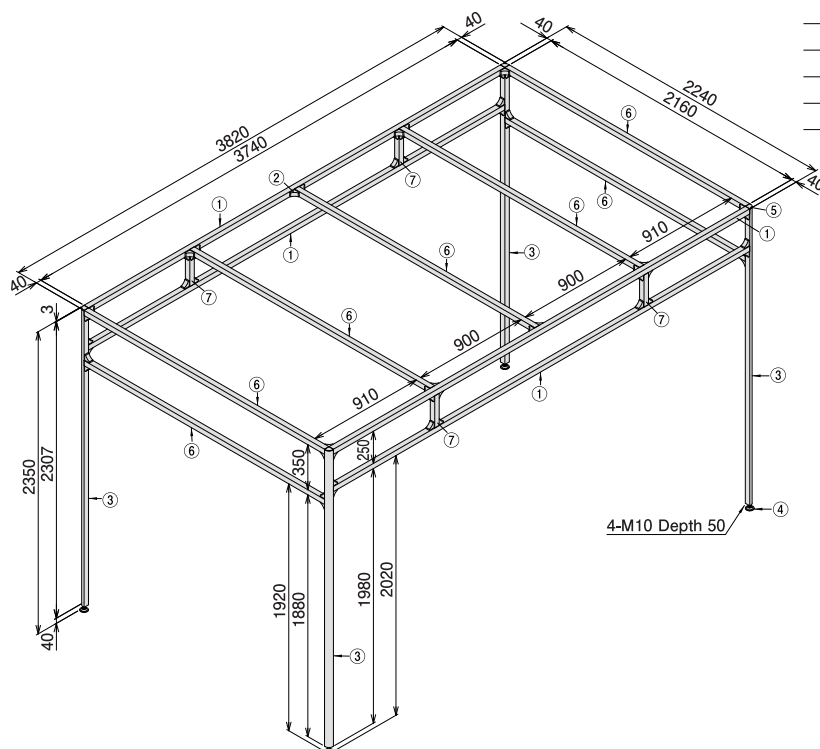
SF-60·60·2S Frame
(How to use Clean Booth)



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

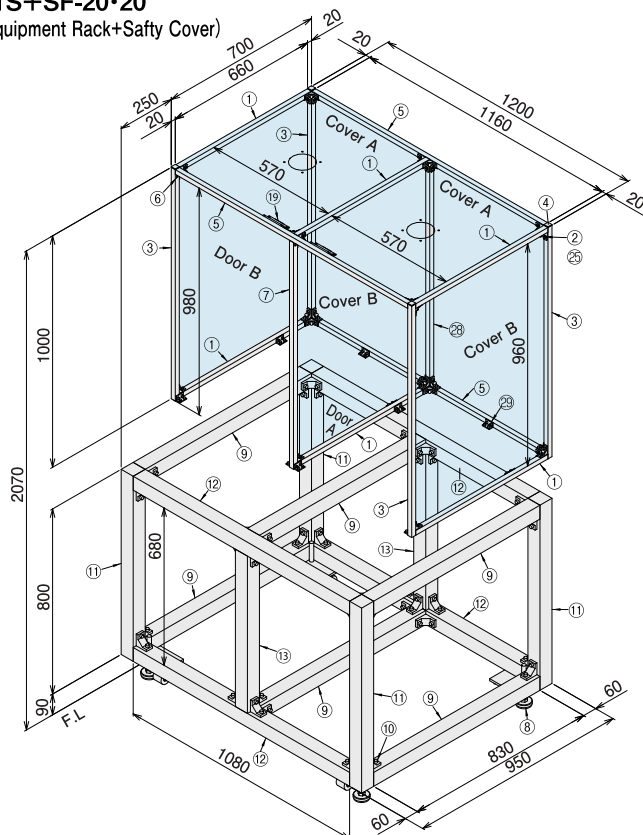
(How to use Clean Booth)



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	SF20 SS Size	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.
	SF30 S Size	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.
	SF40-45 L Size	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 9 μm	

Frame Material Data

●Technical Data Table

Aluminum Frame	Geometrical Moment of Inertia ×10 ⁴ mm ⁴		Section Modulus×10 ³ mm ³		I _x × E ×10 ⁹ N·mm ²	I _y × E ×10 ⁹ N·mm ²	Cross Section mm ²	Unit Mass kg/m	Frame Slot Width mm
	I _x	I _y	Z _x	Z _y					
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 $\times 10^4 \text{mm}^4$		Section Modulus $\times 10^3 \text{mm}^3$		$I_x \times E$ $\times 10^9 \text{N} \cdot \text{mm}^2$	$I_y \times E$ $\times 10^9 \text{N} \cdot \text{mm}^2$	Cross Section mm^2	Unit Mass kg/m	Frame Slot Width mm
	I_x	I_y	Z_x	Z_y					
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		$I \times E$ $\times 10^9 \text{N} \cdot \text{mm}^2$	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

 $I \times E = \text{Geometrical Moment of Inertia } \text{mm}^4 \times \text{Longitudinal Elastic Modulus } \text{N/mm}^2$

●Indication of Frame Selection

 $I_x \times E \text{ (Aluminum Frame)} \geq I_x \times E \text{ (Steel Frame)}$
 $I_y \times E \text{ (Aluminum Frame)} \geq I_y \times E \text{ (Steel Frame)}$

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	
	L=1000 Centralized Flexure 1mm	L=500 Centralized Flexure 0.5mm
	Allowable Load (N)	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

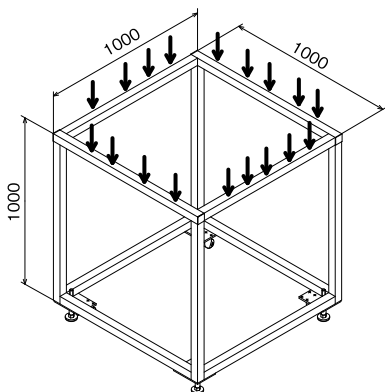
Name	Both Ends Supported	
	L=1000 Centralized Flexure 1mm	L=500 Centralized Flexure 0.5mm
	Allowable Load (N)	Allowable Load (N)
SF-3535	172	688
SF-3570 (Width)	304	1214
SF-3570 (Height)	1179	4714
SF2-4040	349	1397
SF2-4080 (Width)	665	2660
SF2-4080 (Height)	2415	9659
SF-40160 (Width)	1296	5183
SF-40160 (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

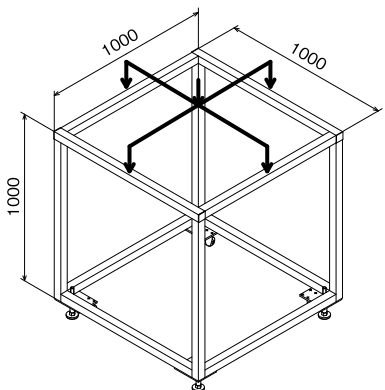
Loaded evenly to the frame

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.



Concentrated Load

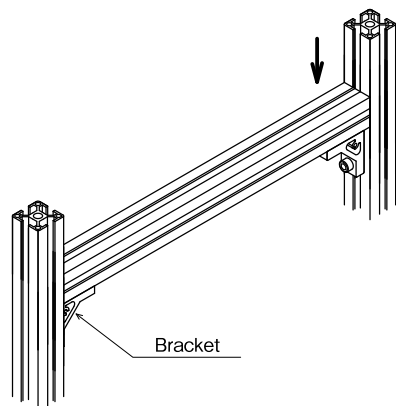
Loaded to the center of the frame



Name	Unit's Allwable Load L=1000	
	Uniformly-Distributed Load	Concentrated Load
	Allowable Load (N)	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	Concentrated Load
	Allowable Load (N)	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	S Blind Bracket SS	196
	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
SF40-45	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
Complex Parts	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
Door · Panel Clean Equipment	S Double Joint 60	1200
	S Double Joint 80	1200

SF20

SS Size

SF30

S Size

SF40-45

L Size

Complex Parts

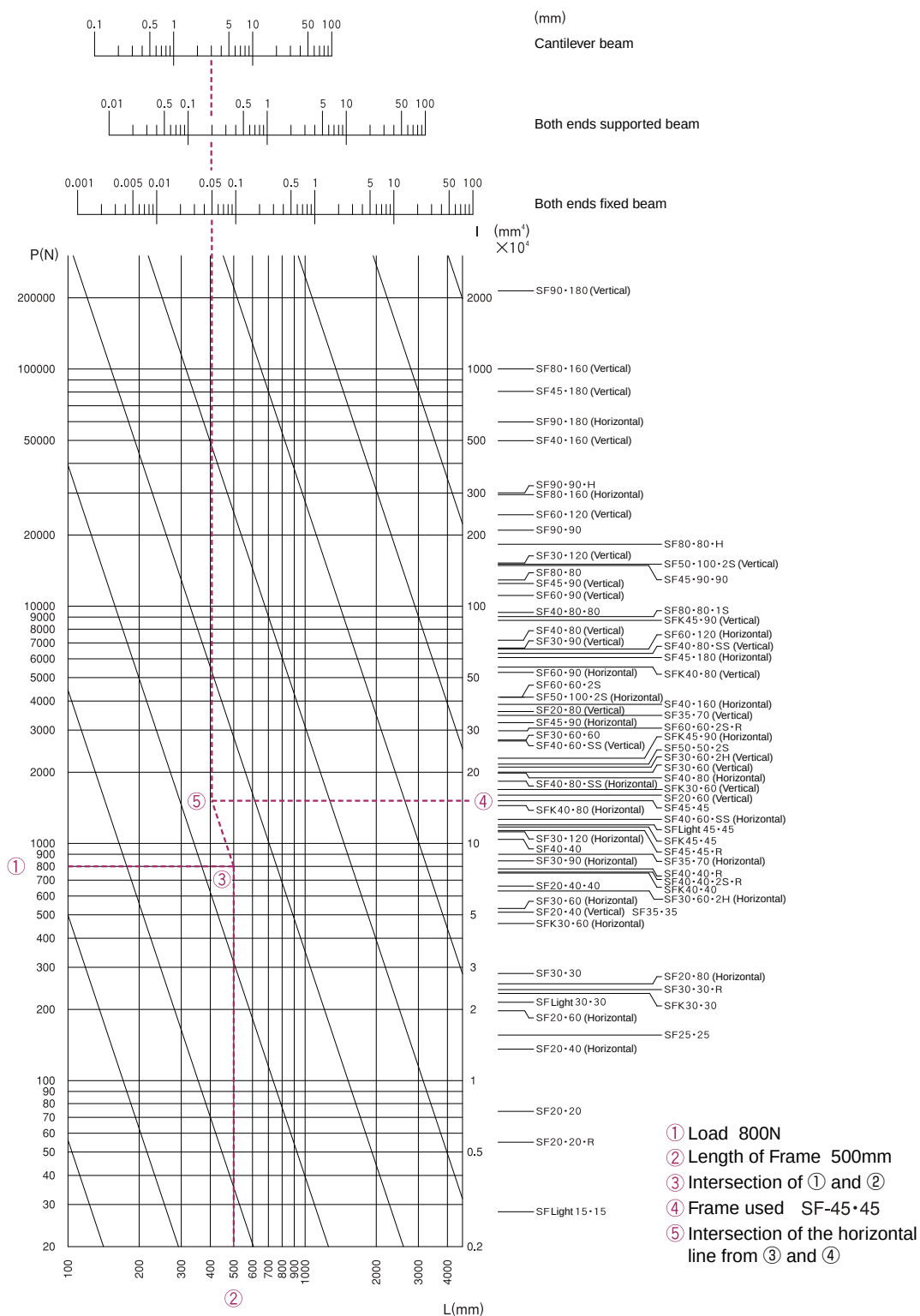
Door · Panel
Clean Equipment

Technical Data

Technical Data

Deflection Calculating Abridged List

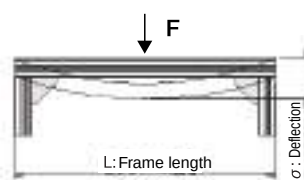
- Determine the load on the frame.
- Determine the length of the frame used.
- Draw a horizontal line from ① to the right.
Draw a vertical line from ② upward.
Find ③, which is the intersection of ① and ②.
- Determine the moment of inertia of the frame area to use and draw a horizontal line to the left.
- Draw a diagonal line from ③, parallel to the diagonal line on the graph, and find ⑤, which is the intersection with ④.
Draw a vertical line from ⑤ upward, and the deflection quantity is found at the intersection with the scale of each fixing method.



Frame Recommended Load

Requirements: Fix both ends of frame, use the recommended load when the load F is concentrated in the direction of the arrow.

Recommended load: Sliding load of the load bracket where deflection δ becomes 1/1000 of the length of frame, L disregarded.



Calculation formula

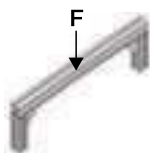
◆ Recommended load

$$\delta = \frac{FL^3}{48EI}$$

◆ Limit load

$$\sigma = \frac{FL}{4Z}$$

■ SF-20・20 SFF-204



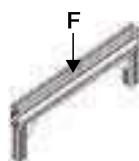
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	90	1200
1000	1	24	600
1500	1.5	10	400
2000	2	6	300

■ SF2-20・40 SFF-244



〈Horizontal〉

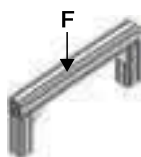
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	180	2200
1000	1	45	1100
1500	1.5	20	740
2000	2	10	550



〈Vertical〉

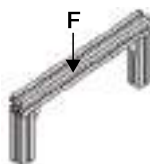
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	680	4100
1000	1	170	2000
1500	1.5	75	1300
2000	2	40	1000

■ SF-40・40・2S SFF-404W



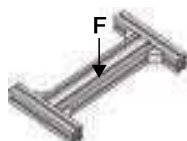
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	1100	7200
1000	1	290	3600
1500	1.5	130	2400
2000	2	70	1800

■ SF2-30・30 SFF-324



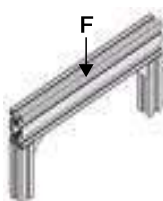
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	380	3100
1000	1	95	1500
1500	1.5	40	1000
2000	2	20	770

■ SF2-30・60 SFF-334



〈Horizontal〉

Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	710	5800
1000	1	170	2900
1500	1.5	75	1950
2000	2	40	1450



〈Vertical〉

Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	2790	11300
1000	1	690	5600
1500	1.5	310	3700
2000	2	170	2800

SF20

SS Size

SF30

S Size

SF40・45

L Size

Complex Parts

Door・Panel
Clean Equipment

Technical Data

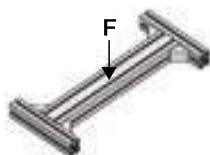
Technical Data

■ SF2-40・40 SFF-424



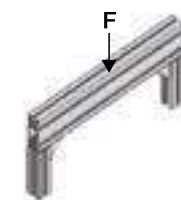
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	1400	8600
1000	1	350	4300
1500	1.5	150	2800
2000	2	80	2100

■ SF2-40・80 SFF-434



〈Horizontal〉

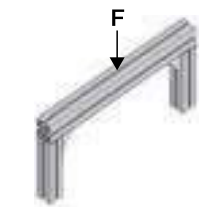
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	2650	16300
1000	1	660	8100
1500	1.5	290	5440
2000	2	160	4050



〈Vertical〉

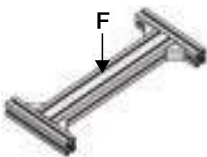
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	9700	29600
1000	1	2400	14800
1500	1.5	1080	9800
2000	2	600	7400

■ SF2-45・45
 SFF-444



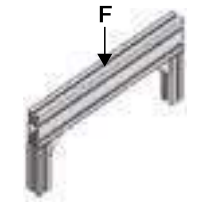
Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	2000	11000
1000	1	500	5500
1500	1.5	200	3700
2000	2	120	2700

■ SF2-45・90
 SFF-474



〈Horizontal〉

Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	4400	24000
1000	1	1100	12000
1500	1.5	450	8000
2000	2	250	6000

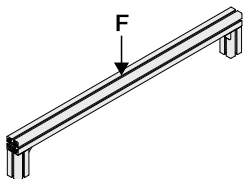


〈Vertical〉

Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	17300	47100
1000	1	4300	23500
1500	1.5	1900	15700
2000	2	1000	11700

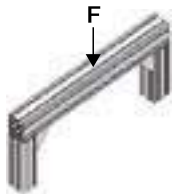
Technical Data

■ SF2-50·50·1S SFF-544



Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	3570	19440
1000	1	890	9720
1500	1.5	390	6480
2000	2	220	4860

■ SF2-60·60·2S SFF-6A4



Frame length (mm)	Deflection tolerance (mm) 1/1000	Recommended load (N)	Limit load (N)
500	0.5	5500	22600
1000	1	1350	11300
1500	1.5	600	7500
2000	2	340	5650

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

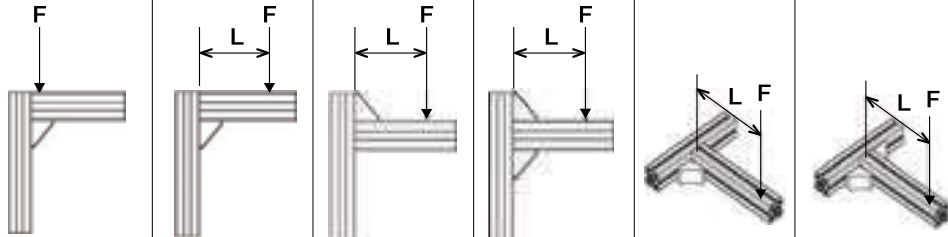
Door · Panel
Clean Equipment

Technical Data

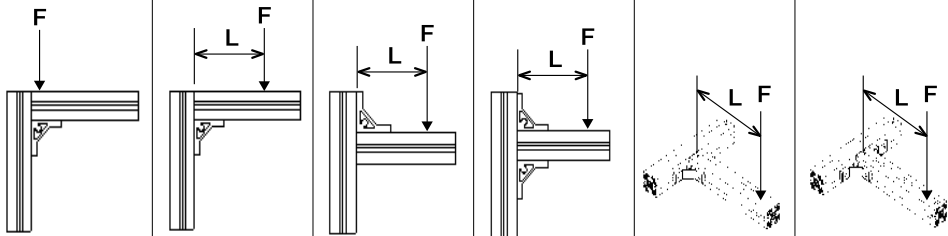
SF Bracket/Joint Load Tolerance Guideline

Frame junction point (cantilever fixed tolerance) [Half value calculated from experimental values.]

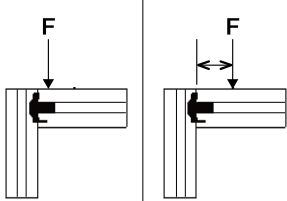
(Sliding: N, Moment: N·m)

D Bracket							
		Sliding	Moment ①	Moment ②	Moment ③	Moment ④	Moment ⑤
Frame size	Proper tightening torque						
20	7.4 N·m	382	3.6	12.8	26.0	2.0	6.9
30	10.8 N·m	798	12.6	29.6	62.4	10.5	32.0
40	24.9 N·m	100	36.0	70.0	98.0	22.5	36.7
45	24.9 N·m	1000	40.0	73.0	130.0	23.5	38.9
60·2S	10.8 N·m	1490	46.1	107.4	161.5	30.4	47.5
80·2S	24.9 N·m	2030	53.2	233.7	294.5	49.9	117.8
90·2S	24.9 N·m	2230	57.0	236.6	335.4	89.3	159.6

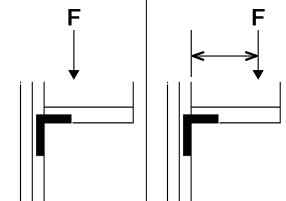
(Sliding: N, Moment: N·m)

Hard Bracket							
		Sliding	Moment ①	Moment ②	Moment ③	Moment ④	Moment ⑤
Frame size	Proper tightening torque						
20	7.4 N·m	375	6.7	27.4	36.6	1.9	7.1
30	10.8 N·m	555	25.3	72.7	90.9	2.8	38.9
40	24.9 N·m	860	39.4	77.8	122.2	14.7	35.9
45	24.9 N·m	1140	36.4	98.0	167.7	11.1	41.4
60·2S	10.8 N·m	1260	64.1	123.2	195.9	23.6	57.6
80·2S	24.9 N·m	2130	114.1	186.9	303.0	42.4	144.4
90·2S	24.9 N·m	1910	104.0	205.0	338.4	72.7	184.8

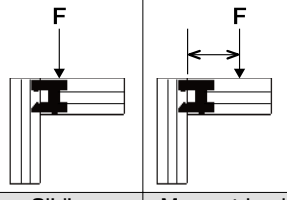
(Sliding: N, Moment: N·m)

TG Joint			
		Sliding	Moment load
Frame size	Proper tightening torque		
30	10.8 N·m	500	40.0
40	24.9 N·m	500	50.0
45	24.9 N·m	500	50.0
60·1S	10.8 N·m	2210	57.0
80·2S	24.9 N·m	2440	240.0

(Sliding: N, Moment: N·m)

Blind Bracket			
		Sliding	Moment load
Frame size	Proper tightening torque		
20	7.4 N·m	105	1.3
30	10.8 N·m	500	6.0
40	24.9 N·m	500	14.0
45	24.9 N·m	500	13.8

(Sliding: N, Moment: N·m)

QC Joint			
		Sliding	Moment load
Frame size	Proper tightening torque		
30	10.8 N·m	126	12.0
40	24.9 N·m	361	39.5
45	24.9 N·m	510	48.8
60·2S	10.8 N·m	290	162.6
80·2S	24.9 N·m	560	281.1
90·2S	24.9 N·m	620	273.9

SF20

SS Size

SF30

S Size

SF40·45

L Size

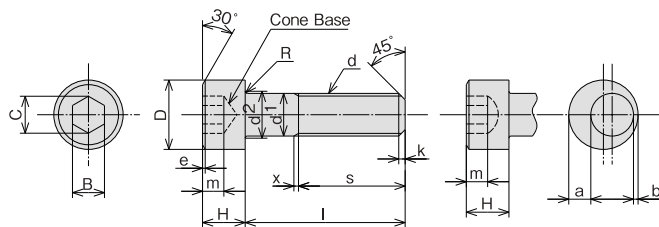
Complex Parts

Door · Panel
Clean Equipment

Technical Data

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 is 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).

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	1.5	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.

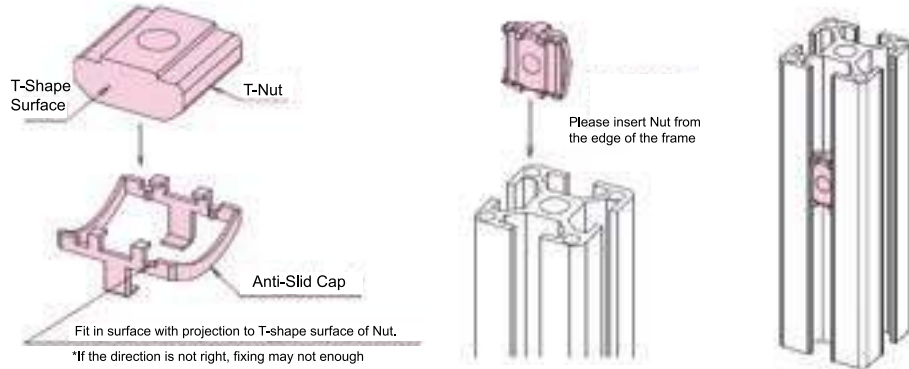
List of SI Unit for Main Amount

Name of Amount	Existing Unit	SI Unit	Equivalent	Name of Amount	Existing Unit	SI Unit	Equivalent
Length	μ	μm	1 μ=1 μm	Weight	t	kg (t can be used together)	1 t=10 ³ kg
	Å		1 Å=10 ⁻¹⁰ m		car	mg	1 car=200 mg
	ft	m	1 ft=3.048×10 ⁻¹ m	Density · Concentration	kgf·s ² /m ⁴	kg/m ³	1 kgf·s ² /m ⁴ =9.80665 kg/m ³
	in	(Å can be used together)	1 in=2.54×10 ⁻² m	Momentum	kgf·s	kg·m/s	1 kgf·s=9.80665 kg·m/s
	mile		1 mile=1.60934×10 ³ m	Moment of Inertia	kgf·m·s ²	kg·m ²	1 kgf·m·s ² =9.80665 kg·m ²
Area	a		1 a=10 ² m ²	Power	kgf	N	1 kgf=9.80665 N
	yd ²		1 yd ² =2.01168×10 m ²		dyn		1 dyn=10 ⁻⁵ N
	ft ²	m ²	1 ft ² =9.29030×10 ⁻² m ²	Moment of Power	kgf·m	N·m	1 kgf·m=9.80665 N·m
	in ²	(a can be used together)	1 in ² =6.4516×10 ⁻⁴ m ²		kgf/cm ²	Pa	1 kgf/cm ² =9.80665×10 ⁴ Pa
	acre		1 acre=4.04686×10 ³ m ²		bar		1 kgf/cm ² =9.80665×10 ⁻¹ bar
	mile ²		1 mile ² =2.58999×10 ⁶ m ²		at (Technical Atmosphere)		1 bar=10 ⁵ Pa
Volume	cc	cm ³	1 cc=1 cm ³		atm (Presure)		1 atm=9.80665×10 ⁴ Pa
	L, l	dm ³ (L, l can be used together)	1 L=1 dm ³		mH ₂ O, mAg		1 mH ₂ O=9.80665×10 ³ Pa
	gal	m ³	1 gal=4.54609×10 ⁻³		mmHg		1 mmHg=133.322 Pa
	gal		1 gal=3.78541×10 ⁻³		Torr		1 Torr=133.322 Pa
	barrel		1 barrel=1.590×10 ⁻¹				

Technical Data How to use Nut

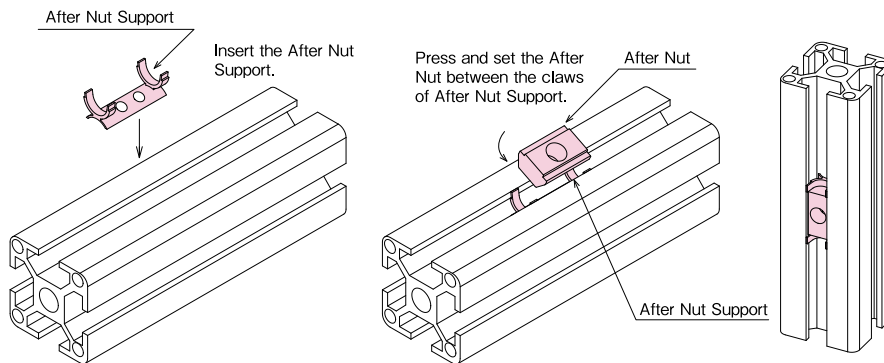
How to use Nut

T Nut + Anti-Skid Cap



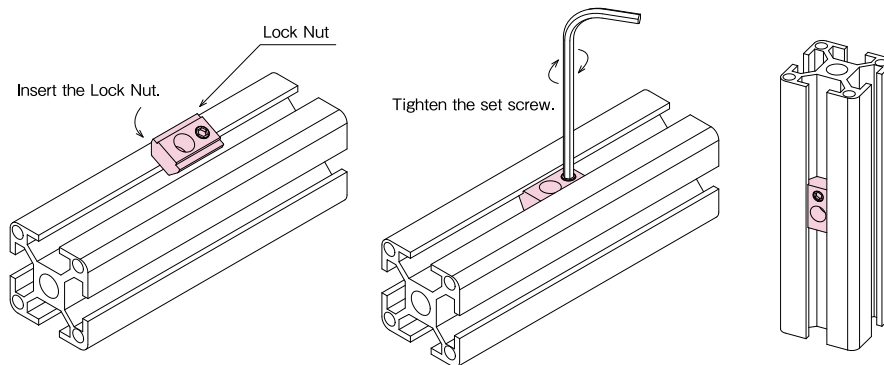
for SF-20 Series	T Nut SS	P26
	Anti-Skid Cap SS	
for SF-30 Series	T Nut S	P56
	Anti-Skid Cap S	
for SF-40 Series	T Nut L	P95
	Anti-Skid Cap L40	
for SF-45 Series	T Nut L	P95
	Anti-Skid Cap L45	

After Nut + After Nut Support



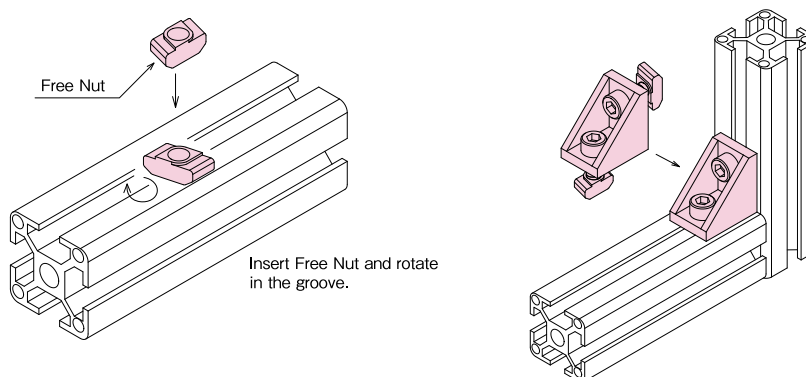
for SF-20 Series	After Nut SS	P27
	After Nut Support SS	
for SF-30 Series	After Nut S	P57
	After Nut Support S	
for SF-40-45 Series	After Nut L	P96
	After Nut Support L	

Lock Nut



for SF-20 Series	Lock Nut SS	P27
for SF-30 Series	Lock Nut S	P57
for SF-40-45 Series	Lock Nut L	P96

Free Nut



for SF-20 Series	Free Nut SS	P27
for SF-30 Series	Free Nut S	P57
for SF-40-45 Series	Free Nut L	P96

SF20
SS Size

SF30
S Size

SF40-45
L Size

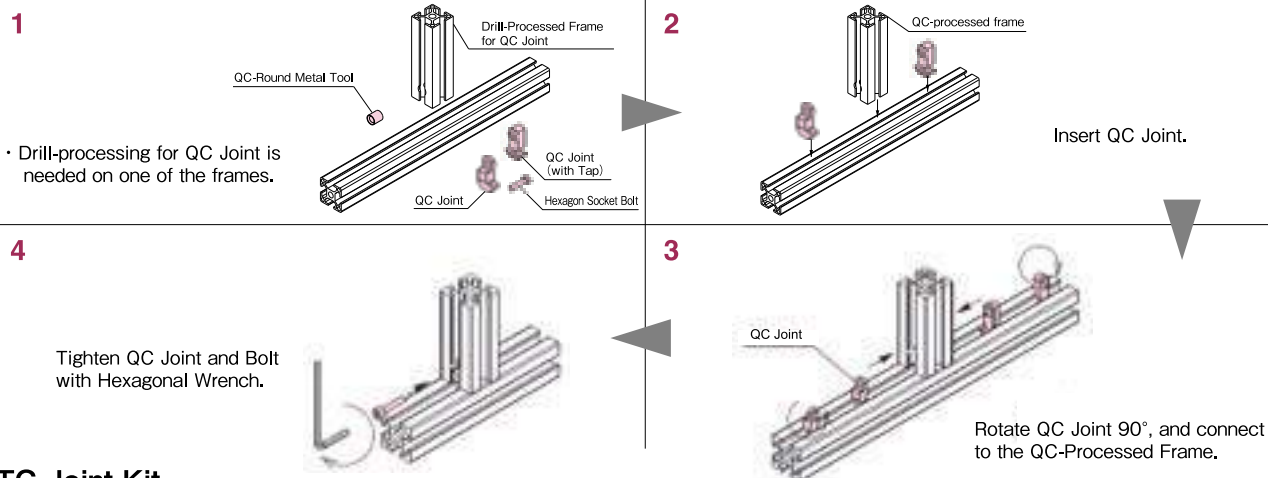
Complex Parts

Door · Panel
Clean Equipment

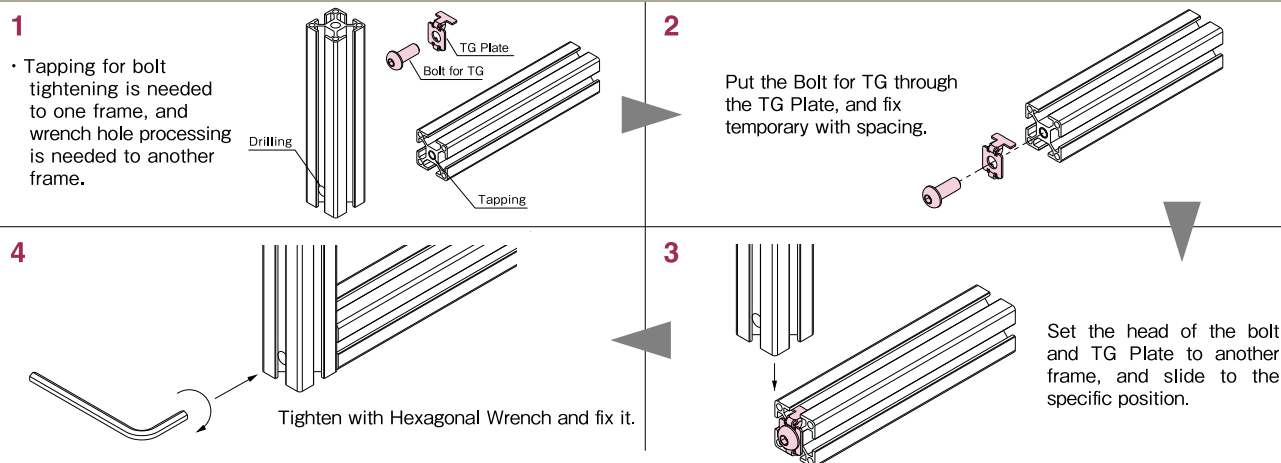
Technical Data

Technical Data How to joint Bracket

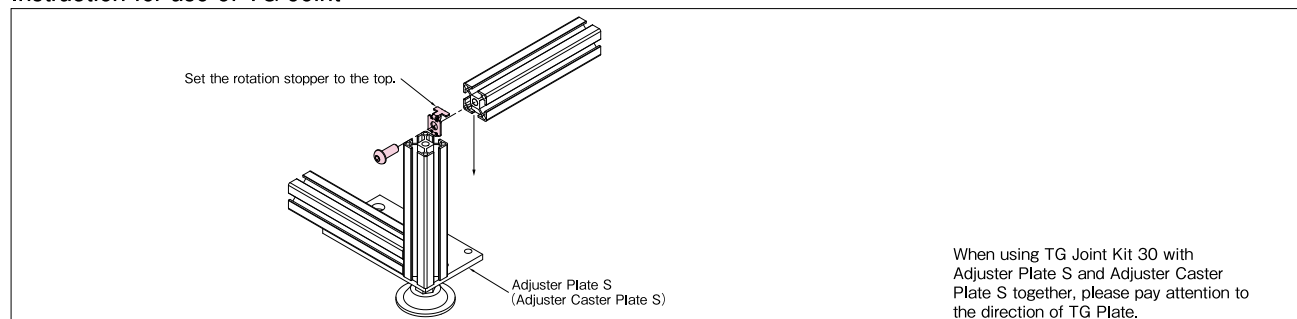
QC Joint Kit



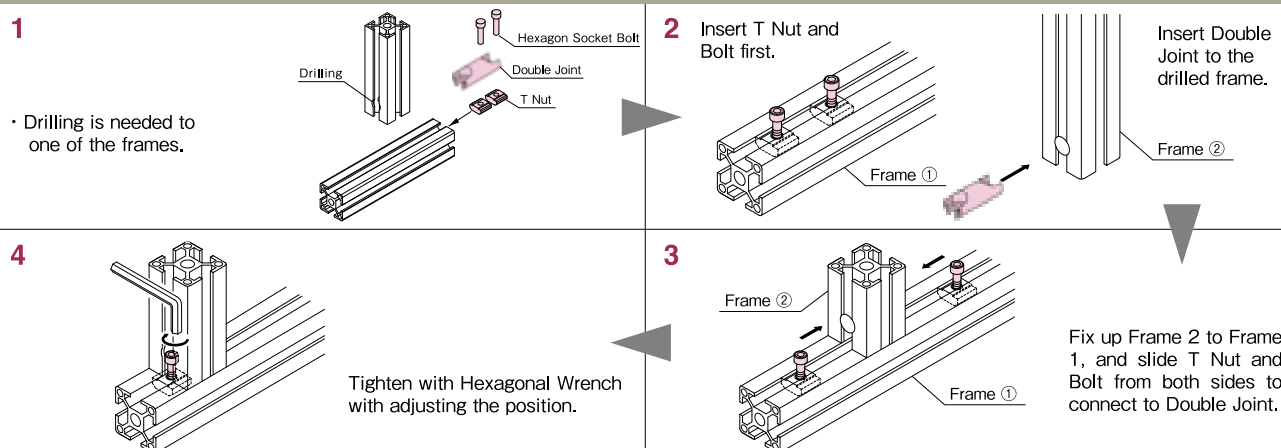
TG Joint Kit



Instruction for use of TG Joint

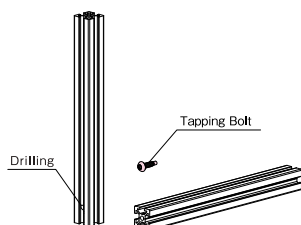


Double Joint Kit

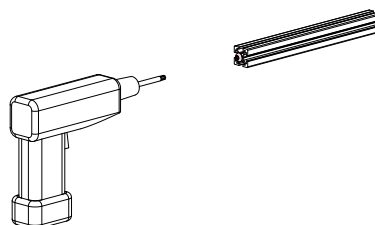


Tapping Bolt

1 Drilling is needed to the frame which fixes with Tapping Bolt.

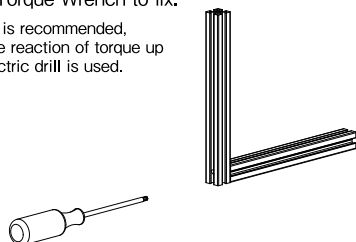


2 Fix Tapping Bolt temporary by Electric Driver.

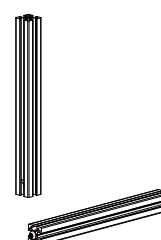


4 Tighten by Torque Wrench to fix.

* Manual tool is recommended, because the reaction of torque up is big if electric drill is used.

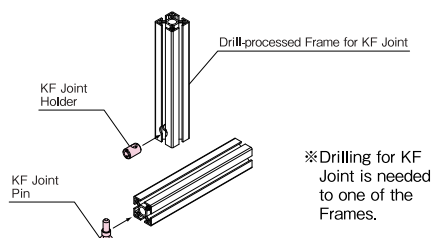


3 Insert the head of the bolt to another frame's groove, and slide to the specified position.

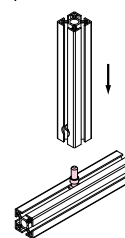


How to assemble KF Joint

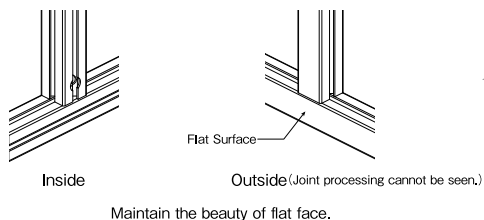
1 Drilling for KF Joint is needed to one of the frames.



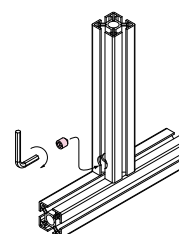
2 Put the frame to KF Joint pin.



4 Appearance from the opposite side is clear because the drilling for KF Joint is not penetrated.



3 Tighten set screw (sharp edge) by Hexagonal Wrench.



SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

Technical Data Free Unit

Each L-Shape Bracket

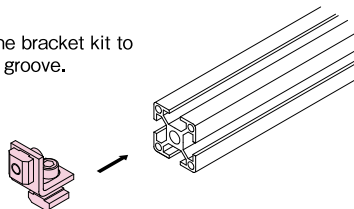
1



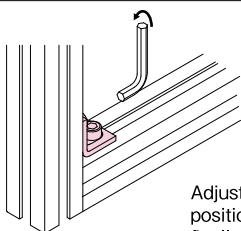
Fix bolt and Nut temporary to bracket.

2

Insert the bracket kit to frame's groove.

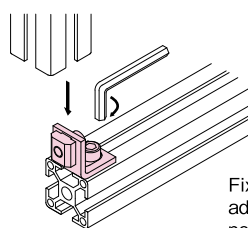


4



Adjust the frame's position, and tighten finally.

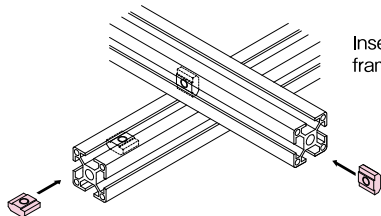
3



Fix temporarily, adjusting the bracket's position.

Angle Bracket

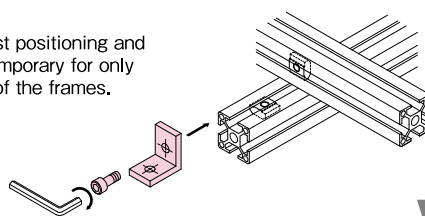
1



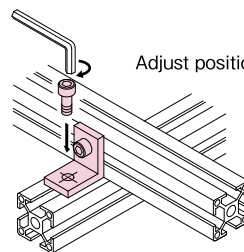
Insert T Nuts to both frames at first.

2

Adjust positioning and fix temporary for only one of the frames.



3



Adjust position and tighten finally.

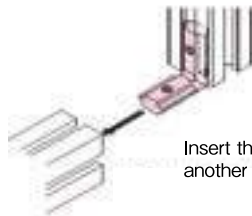
Blind Bracket

1



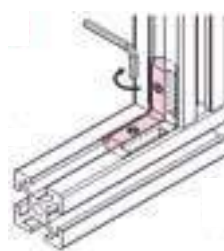
Fix Blind Bracket temporary to frame.

2



Insert the Blind Bracket fixed in 1 to another frame's groove.

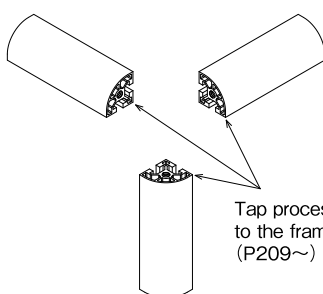
3



Position well and tighten the set screw by wrench.

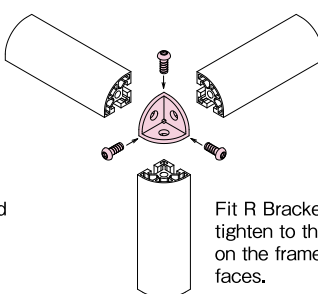
R Bracket (Block Bracket)

1



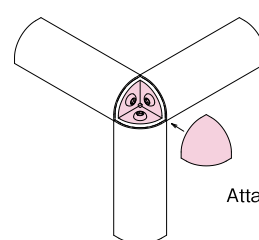
Tap processing is needed to the frame's end faces. (P209~)

2



Fit R Bracket and tighten to the tap on the frame's end faces.

3



Attach R Cap.



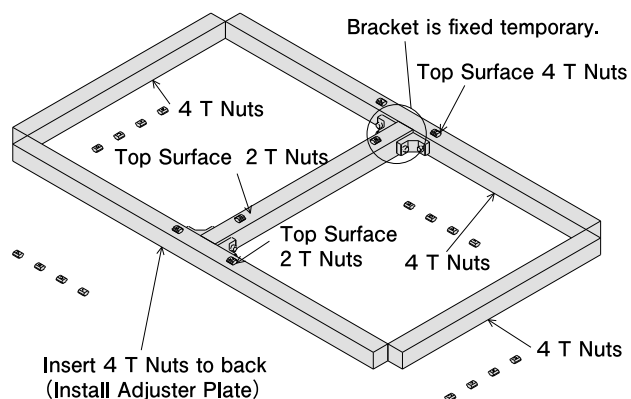
Technical Data *How to Assemble SF Unit*

How to Assemble SF Unit

Before Assembly | 1. Please assemble in wide space on flat floor. 2. Classify the Frames by dimensions and parts.

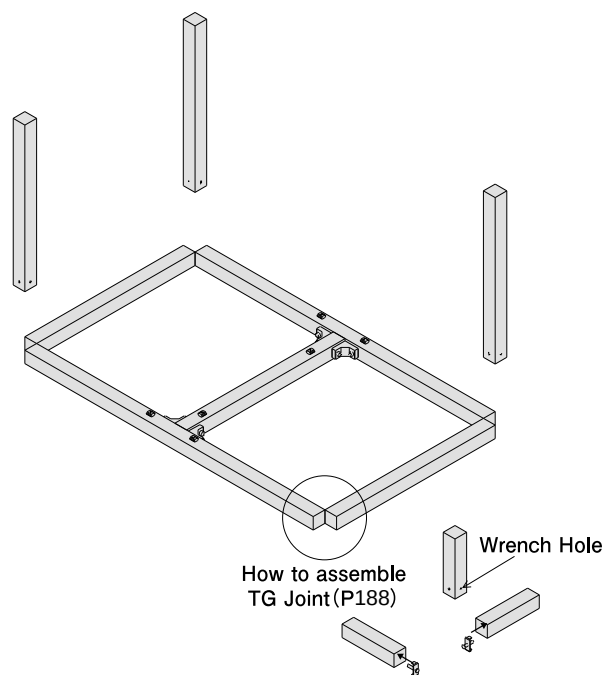
* Example of using TG Joint Kit and Hard Bracket

1 Base Assembly



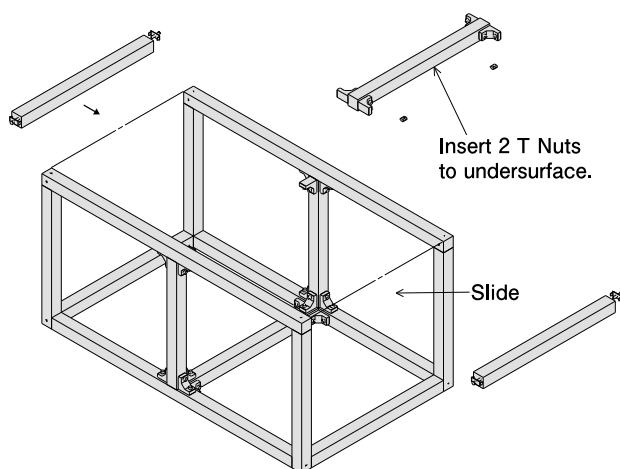
* Please don't forget to insert Nuts.

2 Put up poles

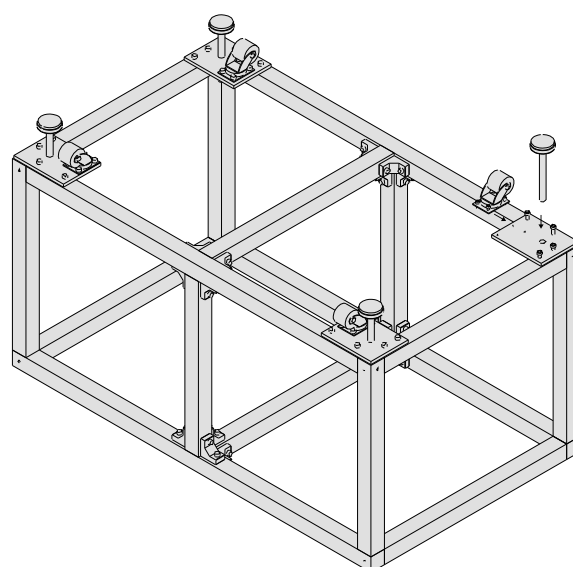


* Please confirm the directions.

5 Assemble top surface (2)



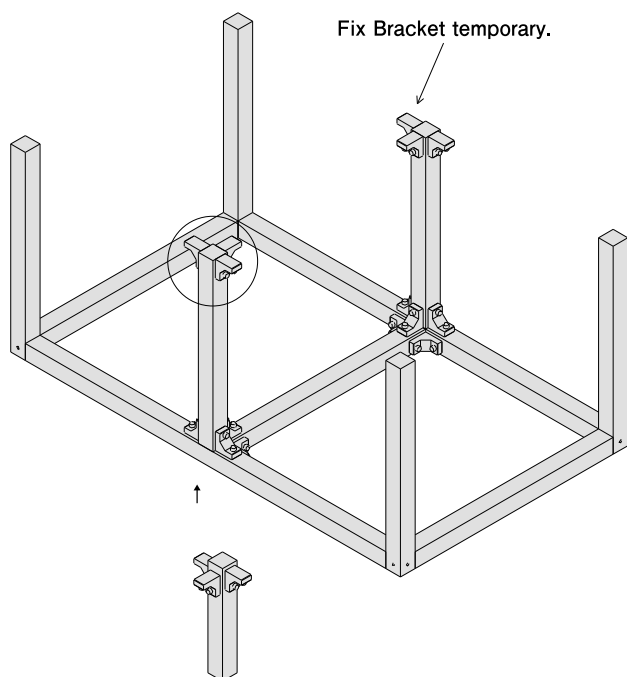
6 Turn unit upside-down, and install Adjuster and Caster



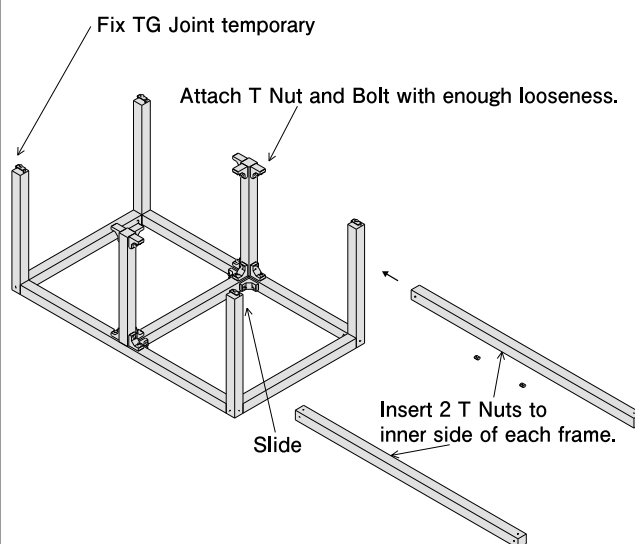
* Don't forget to prepare T Nut and Free Nut to install Top Plate and Cover.

3. Scratch marking-off on Frame 4. Confirm the quantity of Nuts to insert before assembly.

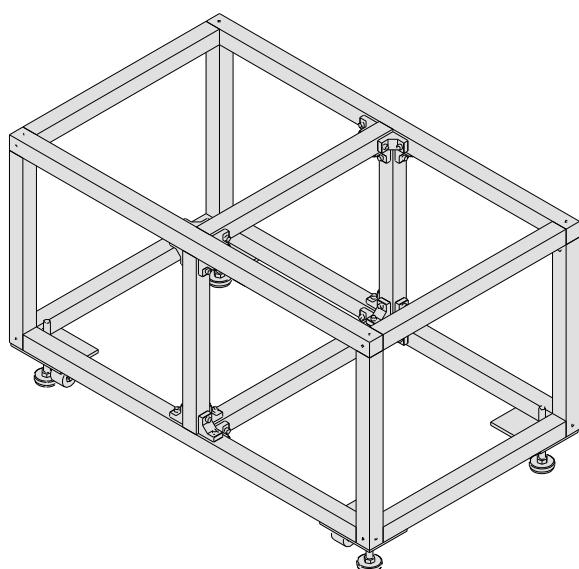
3 Put up intermediate poles



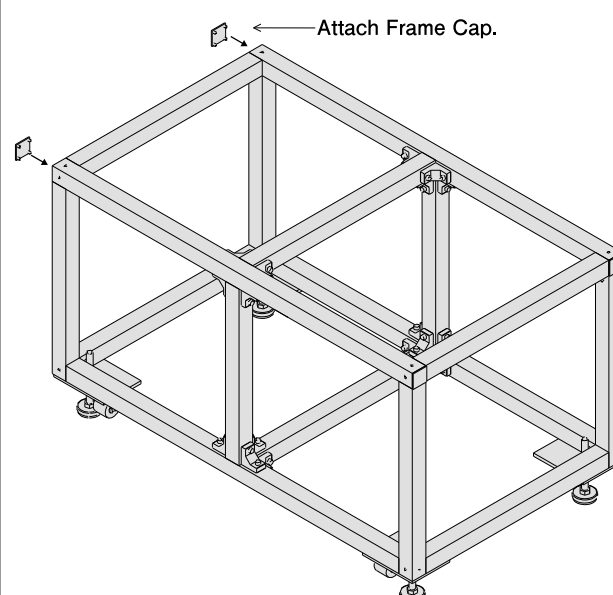
4 Assemble top surface (1)



7 Tighten finally with adjusting the Frame's position.



8 Completion



* Please clean the surface with alcohol, etc after assembly.

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

Technical Data *How to install*

How to install Panel

SF20

SS Size

SF30

S Size

SF40・45

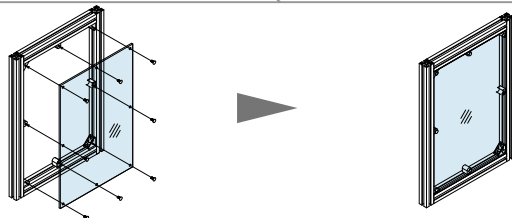
L Size

Complex Parts

Door・Panel
Clean Equipment

Technical Data

How to fix by Bracket's Tap



(How to install)

- Fasten Resin Panel to the tap of D Bracket or Hard Bracket by bis.

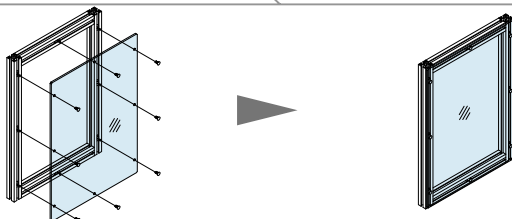
(Selection Indication)

- 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	P28~
SF-30 series	P60~
SF-40・45 series	P99~

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	P27~
After Nut S	P57~
After Nut L	P96~

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.

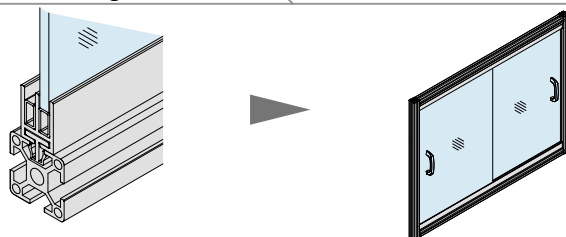
(Selection Indication)

- 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	P156
-------------	------

Resin Panel Sliding Door



(How to install)

- Resin Panels become a Sliding Door, using Slide Rail and Slide Spacer.

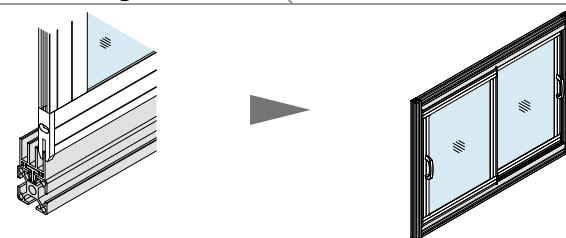
(Selection Indication)

- Sliding Door Structure at low cost.

(For details)

Slide Rail	P162
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.

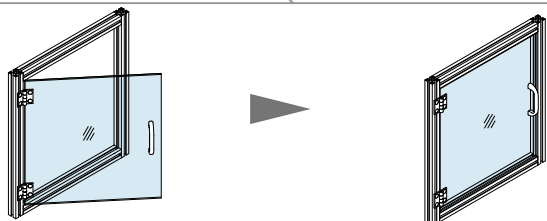
(Selection Indication)

- Suitable for medium size.

(For details)

Slide Rail	P162
Slot Connector	
Frame for Sliding Door's Rim	P164
Panel Joint Kit	
Rail Guide	
Sliding Door Wheel	P160
Panel Guard	

Resin Door



(How to install)

- Attach hinges to Resin Panel and use as a door.

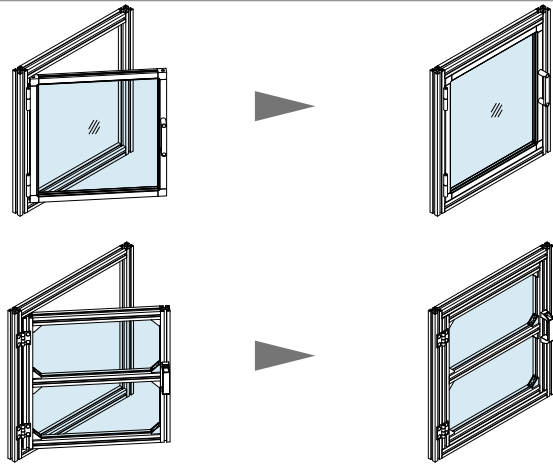
(Selection Indication)

- Door structure at low cost.

(For details)

Installation size	P159
Fixed Hinges	P140~

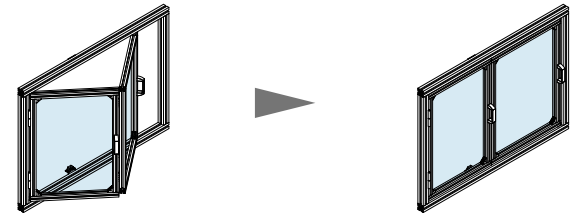
Panel Frame Door, Frame Door



- (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	P159
Panel Frame	P158
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	P165

Technical Data Q & A

Q What is the indication of selecting aluminum frame?

A

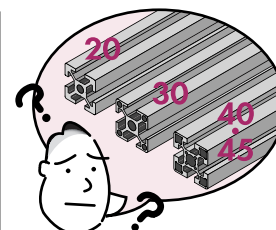
SF series is composed of 3 series as follows.

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 (P178).



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 (P179).

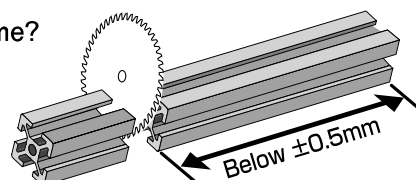
- In case that L-shaped bracket interferes product or panel, please select QC Joint, TG Joint, KF Joint, S Double Joint, Tapping Bolt, S Blind Bracket or Plate Bracket.

- 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

$\pm 0.5\text{mm}$ less than specified size.



Q How is aluminum frame finished?

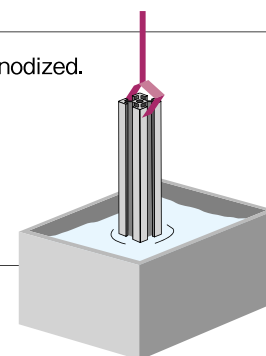
A

A. In SF series, frame's surface is anodized to finish (more than $9\mu\text{m}$). 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

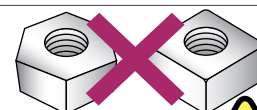
It's cut by tip saw for mild steel. Please cover the cut surface by Frame Cap after assembling frame.

Q Can JIS standard hexagon 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.



Coution

Q Does Nut fall down when frame is stood vertically?

A

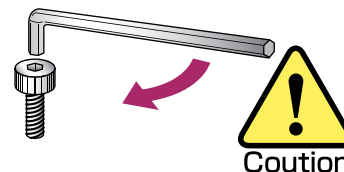
Please attach "Anti-Skid Cap" to T Nut and insert to the frame's groove. Or in case of inserting later, please use "Easy Nut", "After Nut Support" and "Lock Nut". "Anti-Skid Cap" and "After Nut Support" is provided as 50pieces/pack.

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)

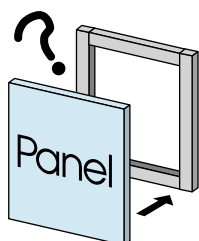
Aluminum may buckle or Nut may break if you tighten harder than the appropriate tightening force. We recommend using T Nut to the tightening part which intensity applies.



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 P45, 81 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 P156 and 157. 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 (P168) and Hinge·Pull, etc (P140 ~).

Frame Rim Door ... Please select Panel Frame (P158) or SF20 series (P20 ~) and create the door.

* Please construct frame rim with SF30 series for large size door.

Q How can we fix Adjuster or Caster?

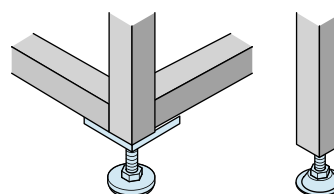
A

Usable adjuster and caster are provided by each frame size.

SF20 series (P41, 42)

SF30 series (P76, 77)

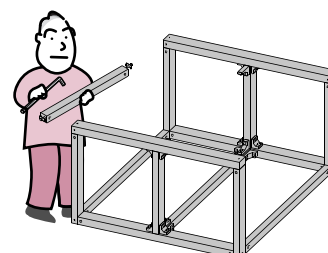
SF40·45 series (P119, 120)



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.



SF20

SS Size

SF30

S Size

SF40·45

L Size

Complex Parts

Door·Panel
Clean Equipment

Technical Data

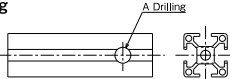
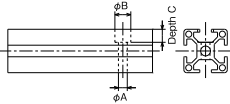
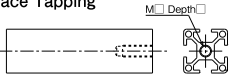
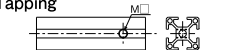
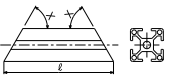
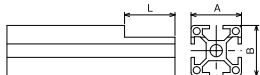
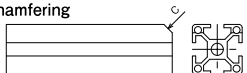
Technical Data Frame Processing

Frame Processing List

Please specify by processing No. (P198~209) or in the drawing when you want the frame processing below.

Item No. Length(mm) Processing No.
 **SF2-30·30** **ℓ=800** **TGS**

Specify by drawing in case of no Processing No.

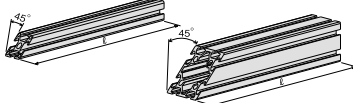
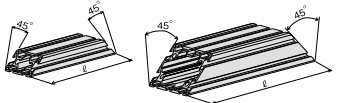
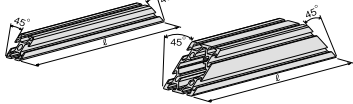
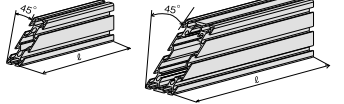
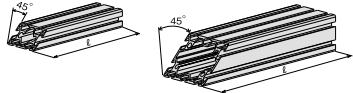
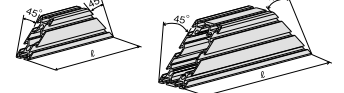
Processing Name	Processing Contents	Note	Category																				
Drilling 	In case A=8/11.1/13.1/15.1	Please refer the processing number list in P204~209 for drilling TG Joint, S Double Joint, Tapping Bolt and KF Joint. Specify by drawing.	SFZ-002																				
	In case A<20 and other than above		SFZ-003																				
	In case A≥20		SFZ-009																				
Counterbore 	<table><tr><td></td><td>A</td><td>B</td><td>C</td></tr><tr><td>SF30 series (for M6 Hexagon Socket Bolt)</td><td>6.6</td><td>11</td><td>9</td></tr><tr><td>SF40 (45) series (for M8 Hexagon Socket Bolt)</td><td>9</td><td>14</td><td>12.5 (13)</td></tr><tr><td>SF20 series (for M5 Hexagon Socket Bolt)</td><td>5.5</td><td>9.5</td><td>6</td></tr><tr><td>(for M12 Hexagon Socket Bolt)</td><td>14</td><td>20</td><td>specify</td></tr></table>		A	B	C	SF30 series (for M6 Hexagon Socket Bolt)	6.6	11	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 P186)	SFZ-004
		A	B	C																			
	SF30 series (for M6 Hexagon Socket Bolt)	6.6	11	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																				
Spot Facing other than above	SFZ-009																						
End Face Tapping 	M5 Depth15	Refer P199~201 Drilled to the depth of 50 Specify by drawing.	SFZ-005																				
	• M8 Depth 24※ • M12 Depth 36※		SFZ-008																				
	M12 Helisert 1.5D		SFZ-006																				
	M14 Depth 42		SFZ-007																				
Side Tapping 	Taping on Frame Side	Specify by drawing.	SFZ-009																				
QC Joint Processing 	Drilling for QC Joint	Refer P202~203	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)		SFZ-013																				
	X<45°	Specify by drawing.	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≤900mm ^ℓ	L≤100mm	Specify by drawing.	SFZ-009																			
	900mm ^ℓ <A×B ≤2700mm ^ℓ	100mm<L≤200mm																					
		L≤100mm																					
	2700mm ^ℓ <A×B	100mm<L≤200mm																					
		L≤100mm																					
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 P39·73·110

Item No. Length(mm) Processing No.
 **SF2-30·60** **ℓ=800** **DHS**

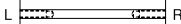
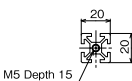
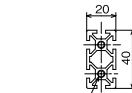
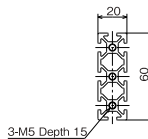
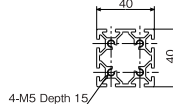
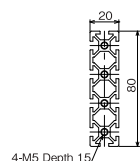
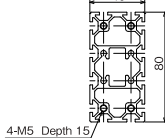
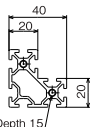
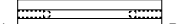
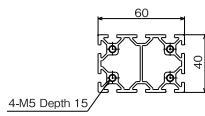
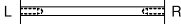
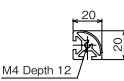
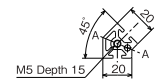
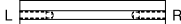
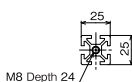
※ Specify by drawing in case of no Processing No.
 ※ Specify in drawing other than intended Frames.

Processing No.	45°Slant Cut Shape	Intended Frame	Processing No.	45°Slant Cut Shape	Intended Frame
DSS		SF-20·20 SF-25·25 SF-40·40·2S SF-30·30 SF-K·30·30 SF-35·35 SF-50·50·2S SF-60·60·2S SF-40·40 SF-80·80 (H) SF-K·40·40 SF-K·45·45 SF-90·90 SF-60·60·1S SF-80·80·1S	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 SF-40·160 SF-45·90 SF-K·40·80 SF-K·45·90 SF-80·160 SF-90·180 SF-45·180
DSW		SF-20·40 SF-20·60 SF-20·80 SF-40·60 SF-40·80·SS SF-30·60	DVS		Panel Guard T3 (SFF-K34) ※ Panel Guard T5 (SFF-K54) ※ SF-35·70 ※ ※ Only DVS·DVW
DHS			DVW		

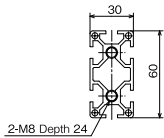
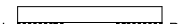
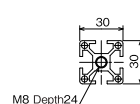
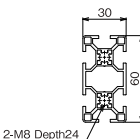
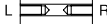
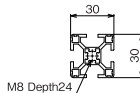
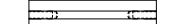
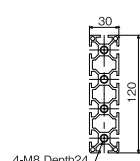
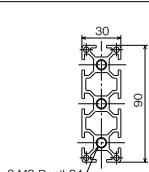
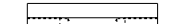
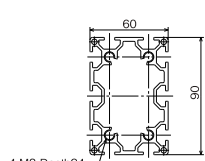
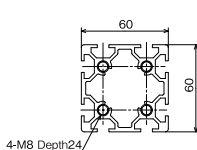
Tapping on Frame's Cut Surface

- * 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)		SF-20•40 (1F•Black Included)	
 		 	
Item No SF-20•20 Length(mm) ℓ=800 Tapping TL or TR (In case of both sides TW)		Item No. SF-20•40 Length(mm) ℓ=800 Tapping TL or TR (In case of both sides TW)	
SF-20•60		SF-40•40•2S (1F•2F•Black Included)	
 		 	
SF-20•80		SF-40•80•SS	
 		 	
SF-20•40•40		SF-40•60•SS	
 		 	
SF-20•20•R		SF-20•DE45 (DE30•DE60 Included)	
 		 	
SF-25•25 (Black Included)			
 			

SF30 Series

SF2-30•60 (1F•2H Included)		SF2-30•30 (1F•2F•3F•2H Included)	
 		 	
SF-K•30•60		SF-K•30•30	
 		 	
SF-30•120		SF-30•90	
 		 	
SF-60•90		SF-60•60•2S (1F•2F•Black Included)	
 		 	

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door • Panel
Clean Equipment

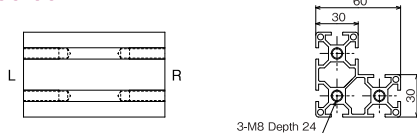
Technical Data

Technical Data Frame Processing

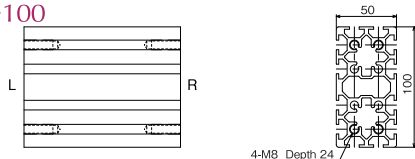
Tapping on Frame's Cut Surface

SF30 Series

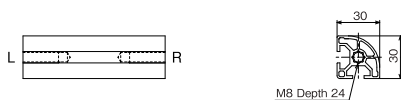
SF-30•60•60



SF-50•100



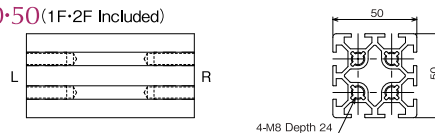
SF-30•30•R



SF-60•120



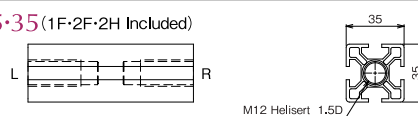
SF-50•50(1F•2F Included)



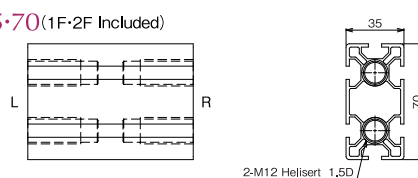
SF-30•DE45(DE30•DE60 Included)



SF-35•35(1F•2F•2H Included)

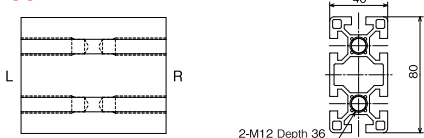


SF-35•70(1F•2F Included)

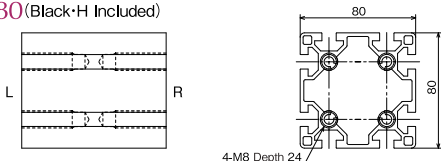


SF40 Series

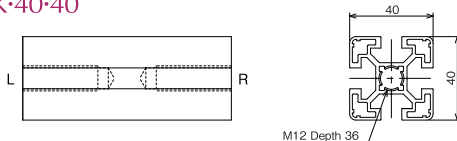
SF2-40•80(1F)



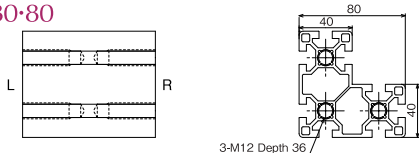
SF-80•80(Black•H Included)



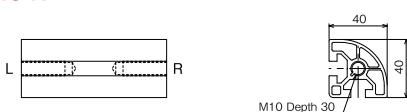
SF-K•40•40



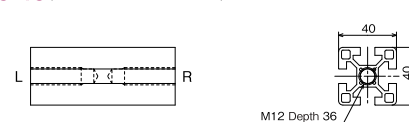
SF-40•80•80



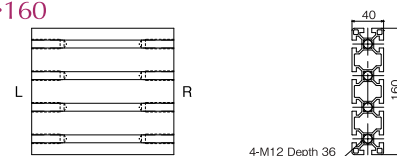
SF-40•40•R



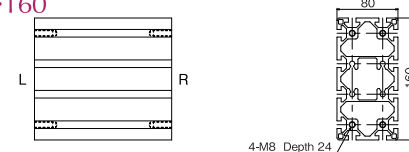
SF2-40•40(1F•2F•3F•2H Included)



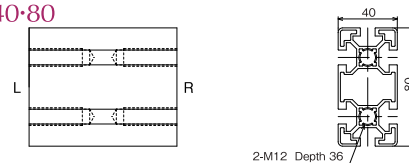
SF-40•160



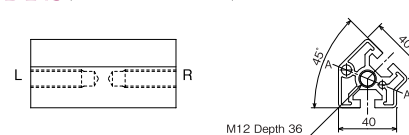
SF-80•160



SF-K•40•80



SF-40•DE45(DE30•DE60 Included)



SF45 Series

SF20

SS Size

SF30

S Size

SF40-45

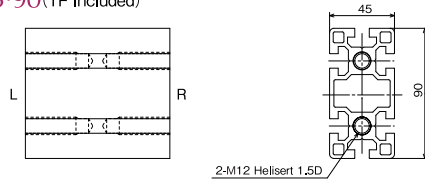
L Size

Complex Parts

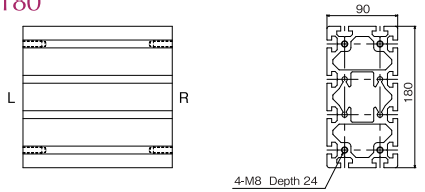
Door · Panel
Clean Equipment

Technical Data

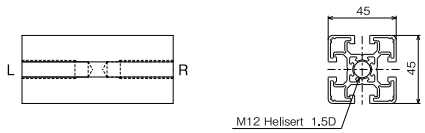
SF2-45·90 (1F Included)



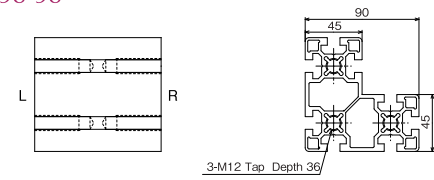
SF-90·180



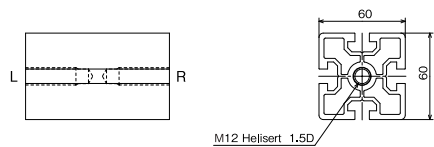
SF-K·45·45 (1F·2F Included)



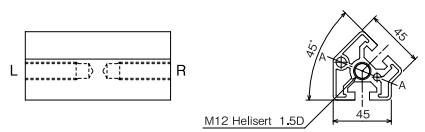
SF-45·90·90



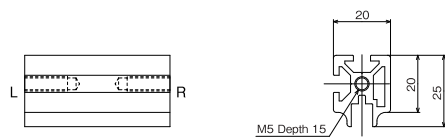
SF-60·60·1S



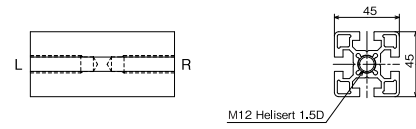
SF-45·DE45 (DE30·DE60 Included)



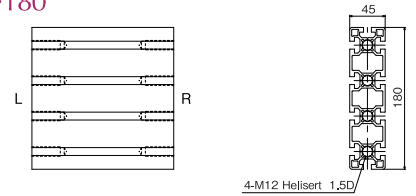
Panel Frame



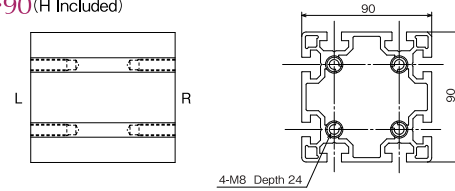
SF2-45·45 (1F·2F·3F·2H Included)



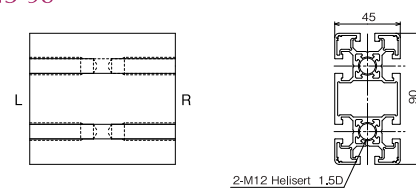
SF-45·180



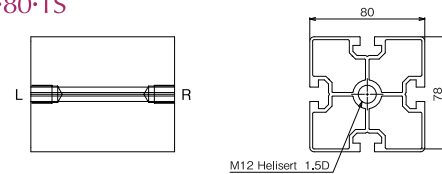
SF-90·90 (H Included)



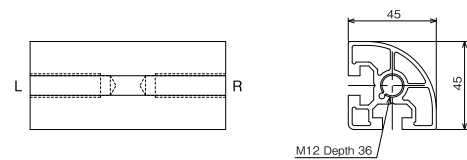
SF-K·45·90



SF-80·80·1S



SF-45·45·R

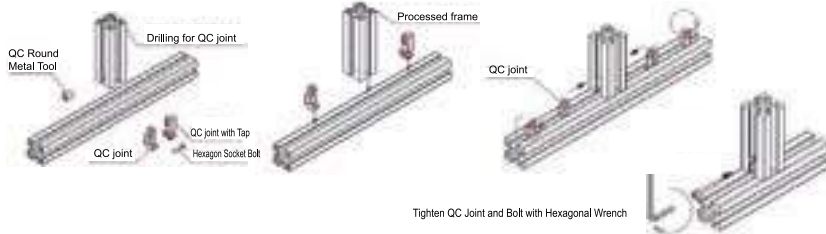


Technical Data Drilling Symbol for QC Joint

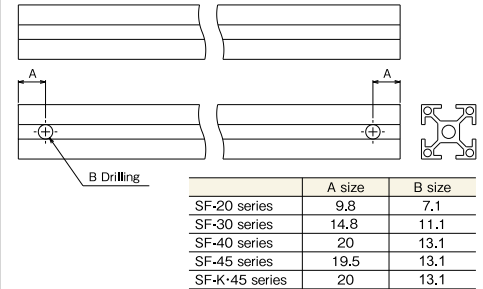
Drilling for QC joint

Drilling Symbol for QC Joint

< QC Joint Assembly Contents >



<Position and size of the hole to insert round metal for QC Joint>

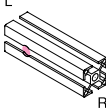
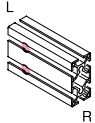
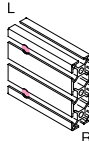
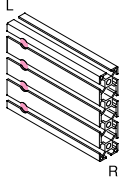
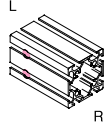
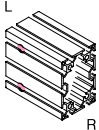
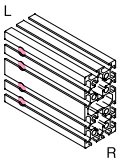
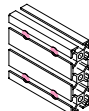
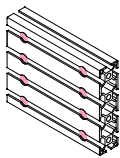
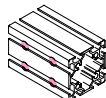
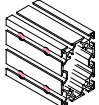
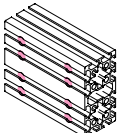
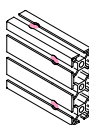
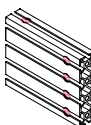
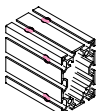
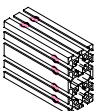
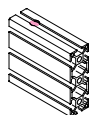
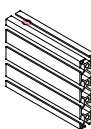
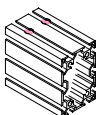
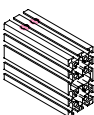
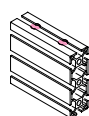
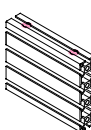
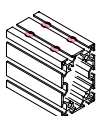
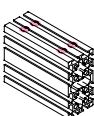


◆QC Joint:..... Insert QC Joint to frame's groove (last-in is possible), and fit another frame with QC round metal installed to combine by tightening bolt. It's easily squared and hardly makes gap because 2 frames pull each other. Appearance is clear without outer joint part's overhang. Also, assembly process is shortened because there's no need to set Nuts to frame before.

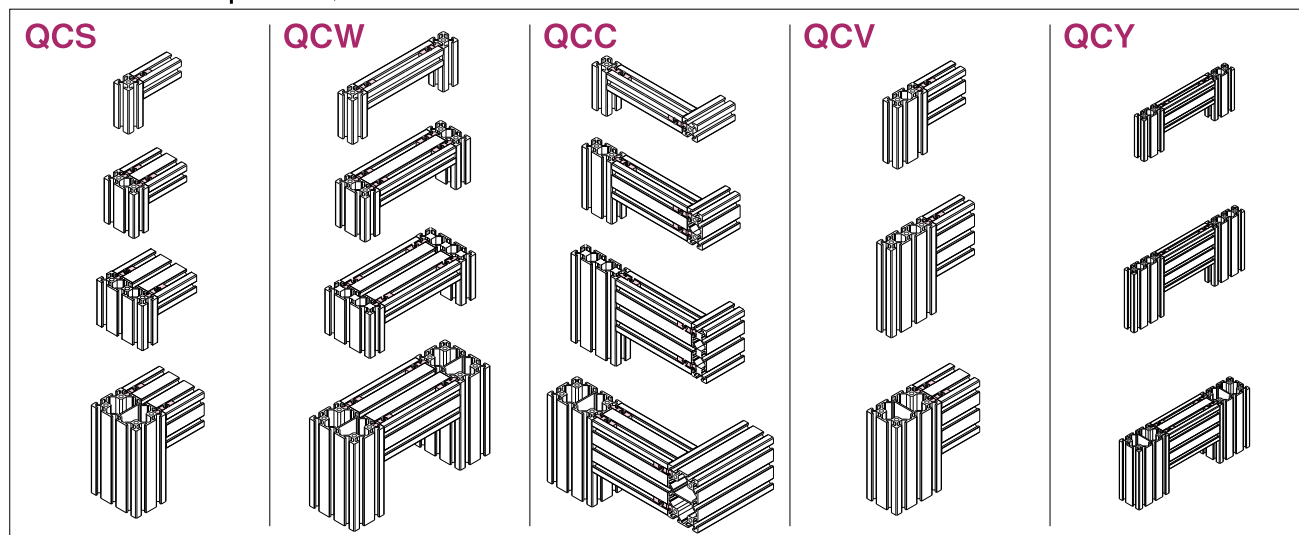
- Please specify by QC Joint processing number when you use each QC Joint in P 35,67,114
- Please mind the direction because QC Joint cannot be inserted to the surface without groove.

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	
Processing No.	Frame Name	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-45-90	SF-20-40 SF2-30-60 SF-K-30-60 SF2-40-80 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			
															
															
															
															
															

Reference Example of QC Joint

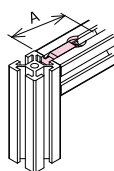


QC Joint Kit Table

Groove Type	Frame Name	QCS	QCW	QCC	QCV	QCY
1 Row × 1 Row	SF-20-20	SS Kit×1	SS Kit×2	SS Kit×2		
	SF-20-20-1F					
	SF-20-20-2H					
	SF2-30-30	S Kit×1	S Kit×2	S Kit×2		
	SF-K-30-30					
	SF2-30-30-1F					
	SF2-30-30-2H	L40 Kit×1	L40 Kit×2	L40 Kit×2		
	SF2-40-40					
	SF-K-40-40					
	SF2-40-40-1F	L45 Kit×1	L45 Kit×2	L45 Kit×2		
	SF2-40-40-2H					
	SF2-45-45					
1 Row × 2 Rows	SF-K-45-45	L60 Kit×1	L60 Kit×2	L60 Kit×2	SS40 Kit×1	SS40 Kit×2
	SF2-45-45-1F					
	SF2-45-45-2H					
	SF-K-45-45-1F	L80 Kit×1	L80 Kit×2	L80 Kit×2		
	SF-60-60-1S					
	SF-80-80-1S					
	SF-20-40	SS Kit×2	SS Kit×4	SS Kit×2 / SS40 Kit×1		
	SF-20-40-1F					
	SF2-30-60	S Kit×2	S Kit×4	S Kit×2 / S60 Kit×1		
	SF-K-30-60					
	SF2-30-60-1F					
	SF-30-60-2H					
1 Row × 3 Rows	SF2-40-80	L40 Kit×2	L40 Kit×4	L40 Kit×2 / L80 Kit×1	L80 Kit×1	L80 Kit×2
	SF-K-40-80					
	SF2-40-80-1F					
	SF2-45-90	L45 Kit×2	L45 Kit×4	L45 Kit×2 / L90 Kit×1		
	SF-K-45-90					
	SF2-45-90-1F					
	SF-20-60	SS Kit×2	SS Kit×4	SS Kit×2 / SS60 Kit×1		
	SF-30-90	S Kit×2	S Kit×4	S Kit×2 / S90 Kit×1		
	SF-20-80	SS Kit×4	SS Kit×8			
	SF-30-120	S Kit×4	S Kit×8	S Kit×4 / S120 Kit×1		
	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	SS40 Kit×2	SS40 Kit×4	SS40 Kit×4		
	SF-40-40-2S-1F					
	SF-50-50-2S					
	SF-50-50-2S-1F	S50 Kit×2	S50 Kit×4	S50 Kit×4		
	SF-60-60-2S	S60 Kit×2	S60 Kit×4	S60 Kit×4		
	SF-60-60-2S-1F					
	SF-80-80					
	SF-80-80(H)	L80 Kit×2	L80 Kit×4	L80 Kit×4		
	SF-90-90(H)	L90 Kit×2	L90 Kit×4	L90 Kit×4		
	SF-40-60-SS	SS40 Kit×2	SS40 Kit×4	SS40 Kit×2 / SS60 Kit×2		
	SF-60-90	S60 Kit×2	S60 Kit×4	S60 Kit×2 / S90 Kit×2		
	SF-40-80-2S	SS40 Kit×4	SS40 Kit×8			
2 Rows × 4 Rows	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		
	SF-80-160	L80 Kit×4	L80 Kit×8			
	SF-90-180	L90 Kit×4	L90 Kit×8			

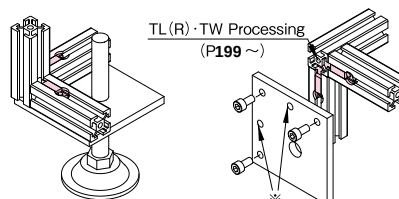
Precautions for using QC Joint

* There is a part which cannot use on frame's groove after QC Joint processing.



Series	A Size (mm)
SF20 Series	13.35
SF30 Series	20.35
SF40-45 Series	26.55

* In case of using plate like Level Adjuster Kit, etc together

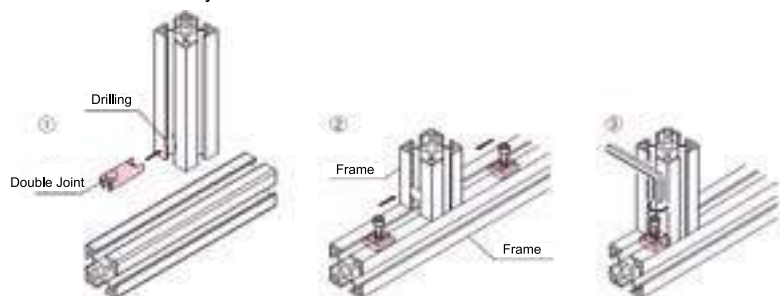


Please do the Tapping on vertical frame, and fix the plate at 3 points, because QC Joint and the holes with * mark overlap.

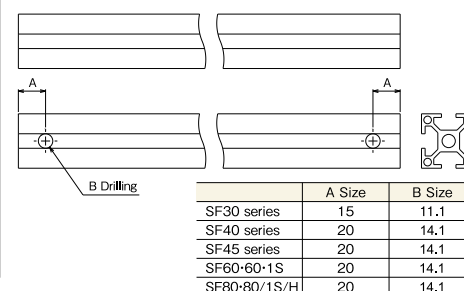
Technical Data Drilling Symbol for Double Joint

Drilling Symbol for Double Joint

<Double Joint Assembly Contents>



<Position and Size of the Hole to insert Round Metal for Double Joint>



- ◆ Double Joint Drill a hole to insert 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 Double Joint Drilling No, below to the Frame when using Double Joints in P69-115.



Item No. Length(mm) Processing No.
SFF-324 **ℓ=800** **WJAS**

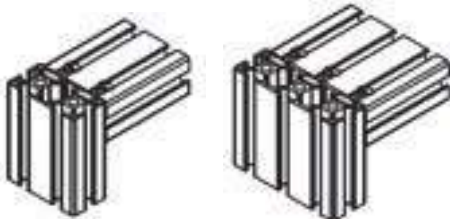
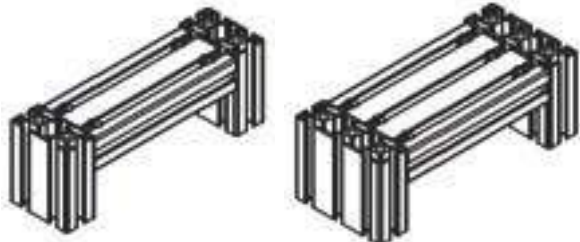
Double Joint Processing List

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	Double Joint Kit 30	SF2-30-30	SF2-30-60 SF-K-30-60	SF-30-90	SF-30-120	
		SF2-30-30-1F				
		SF2-30-30-2H				
		SF-K-30-30				
SF40 Series	Double Joint Kit 40	SF2-40-40	SF2-40-80 SF-K-40-80		SF-40-160	
		SF-K-40-40				
		SF2-40-40-1F				
		SF2-40-40-2H				
SF45 Series	Double Joint Kit 45	SF2-45-45	SF2-45-90 SF-K-45-90		SF-45-180	
		SF-K-45-45				
		SF2-45-45-1F				
		SF-K-45-45-1F				
	Double Joint Kit 60	SF-60-60-1S				
	Double Joint Kit 80	SF-80-80-1S				SF-80-80(H)

WJAS					

Double Joint Processing List					
WJAV					
WJAY					

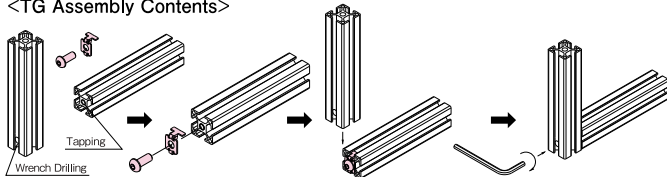
Reference Example of Double Joint

WJAS 	WJAW 
WJAC 	WJAV 
WJAY 	

Technical Data Drilling Symbol for TG Joint and Tapping Bolt

Drilling Symbol for TG Joint and Tapping Bolt

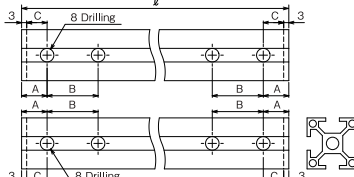
<TG Assembly Contents>



<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	—	—

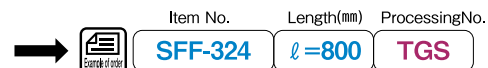
*1 Only Tapping Bolt *2 Only TG Joint
Drilling for SF20 : 6 Drilling



- ◆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.



◆<Optional Specification for Frame Cap> Within Outer Size

If you want to make Frame Cap within outer size, please use options.



TG Joint · Tapping Bolt Processing List *1 Only Tapping Bolt *2 Only TG Joint

Groove Type 1Row×1Row ◆Object Frame... *1 SF-20-20 SF-20-30 SF-K-30-30 SF-20-40 SF-K-40-40 SF-245-45 SF-60-60-1S *2

Groove Type 1Row×1Row (1 Flat Surface) ◆Object Frame... *1 SF-20-20-1F SF-20-30-1F SF-20-40-1F SF-K-40-40-1F SF-245-45-1F *2

Groove Type 1Row×1Row (2 Flat Surfaces) ◆Object Frame... *1 SF-20-20-2F SF-20-30-2F SF-20-40-2F SF-K-40-40-2F SF-245-45-2F *2

Groove Type 1Row×1Row (3 Flat Surfaces) ◆Object Frame... *1 SF-20-20-3F SF-20-30-3F SF-20-40-3F SF-245-45-3F *2

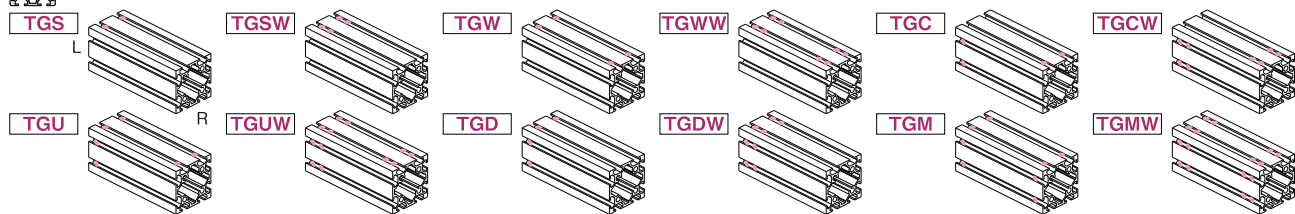
Groove Type 1Row×1Row (2H) ◆Object Frame... *1 SF-20-20-2H SF-20-30-2H SF-20-40-2H SF-245-45-2H *2

The diagrams show various frame profiles (L, R, TGS, TGSW, TGW, TGWW, TGC, TGCW, TGU, TGUW, TGD, TGDW, TGM, TGMW, TGA, TGAW, TGB, TGBW, TGE, TGEW, TGF, TGFW) with drilling symbols and dimensions for each configuration.



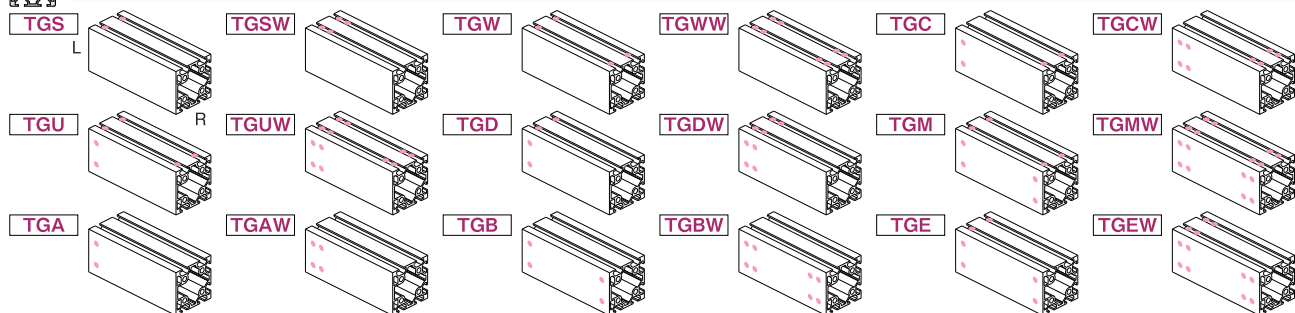
Groove Type 2Rowsx2Rows

◆Object Frame... SF-40-40-2S^{※1} SF-60-60-2S



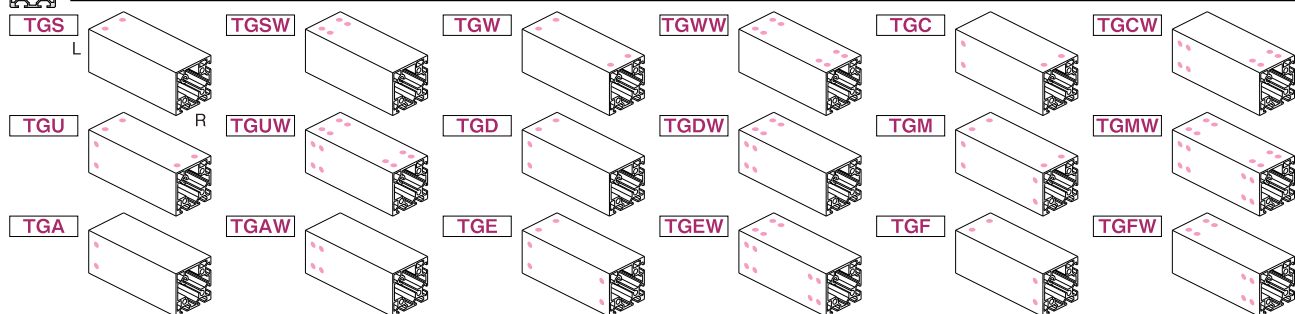
Groove Type 2Rowsx2Rows(1 Flat Surface)

◆Object Frame... SF-40-40-2S-1F^{※1} SF-60-60-2S-1F



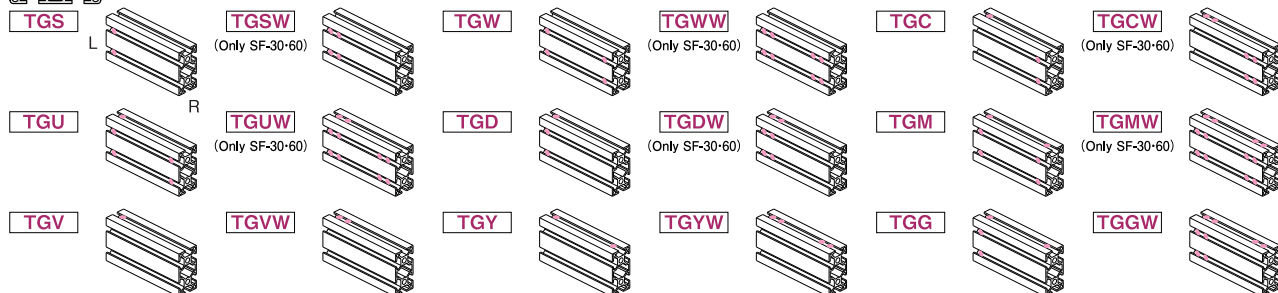
Groove Type 2Rowsx2Rows(2 Flat Surfaces)

◆Object Frame... SF-40-40-2F^{※1} SF-60-60-2S-2F



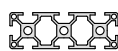
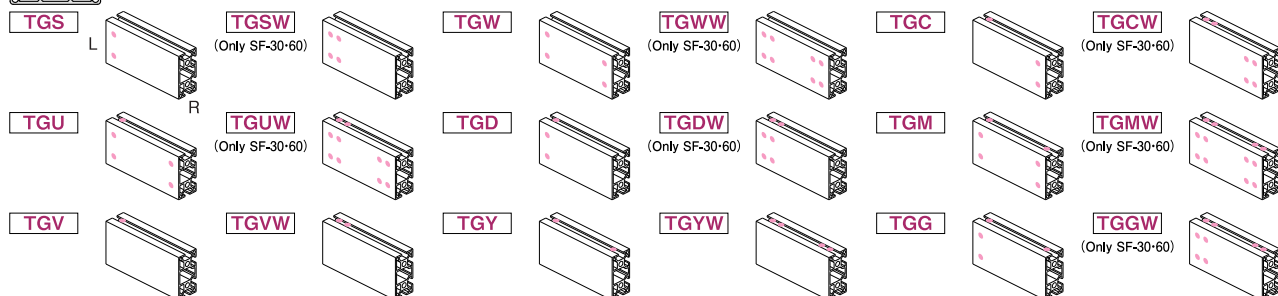
Groove Type 1Rowx2Rows

◆Object Frame... SF-20-40^{※1} SF2-30-60 / SF-K-30-60 SF2-40-80 / SF-K-40-80 SF2-45-90



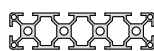
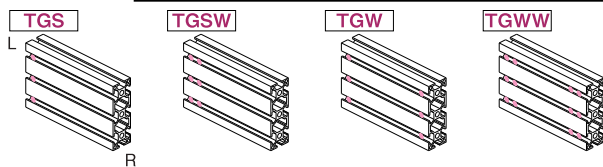
Groove Type 1Rowx2Rows(1 Flat Surface)

◆Object Frame... SF-20-40-1F^{※1} SF2-30-60-1F SF2-40-80-1F SF2-45-90-1F



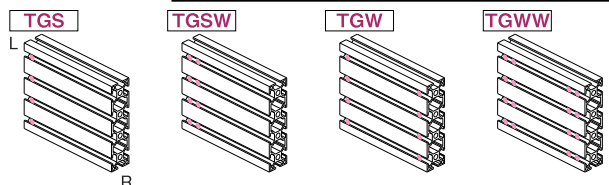
Groove Type 1Rowx3Rows

◆Object Frame... SF-20-60^{※1} SF-30-90



Groove Type 1Rowx4Rows

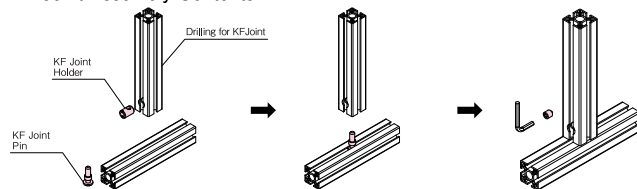
◆Object Frame... SF-20-80^{※1} SF-30-120 SF-40-160 SF-45-180



Technical Data Drilling Symbol for KF Joint

Drilling Symbol for KF Joint

<KF Joint Assembly Contents>

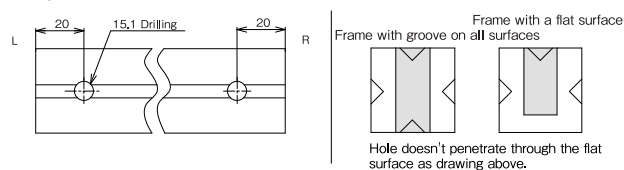


◆KF Joint…… After KF Joint processing on one of the frame, insert KF Joint Holder. Insert KF Joint Pin to another frame and inset to KF Joint Holder, and tighten by set screw to combine. Tightening is easier from one side as drawing above. Frame with a flat surface doesn't disturb the appearance to joint.

Please specify KF Processing No. below to the Frame to drill a hole for KF Joint in case using KF Joint in P69.

<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



Item No. Length(mm) Processing No.
 **SFF-3A4** **ℓ=800** **KFS**

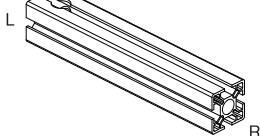
Joint Processing List



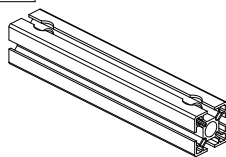
Groove Type 1Row×1Row

◆Object Frame… **SF-35-35**

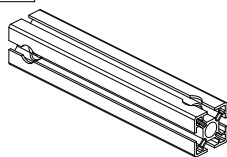
KFS



KFW



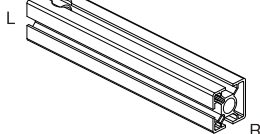
KFC



Groove Type 1Row×1Row<1 Flat Surface>

◆Object Frame… **SF-35-35-1F**

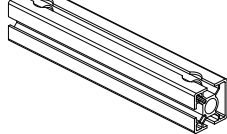
KFS



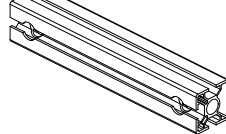
KFA



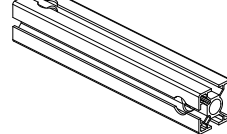
KFW



KFD



KFE



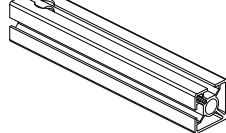
Groove Type 1Row×1Row<2 Flat Surfaces>

◆Object Frame… **SF-35-35-2F**

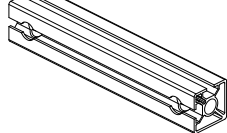
KFA



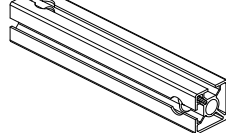
KFB



KFD



KFF



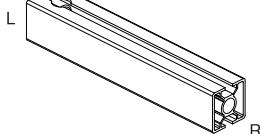
KFG



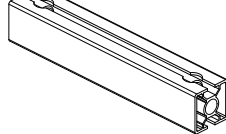
Groove Type 1Row×1Row<Opposite Faces Flat>

◆Object Frame… **SF-35-35-2H**

KFS



KFW

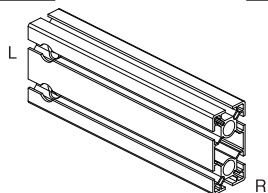




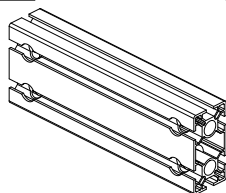
Groove Type 1Row×2Rows

◆Object Frame... SF-35·70

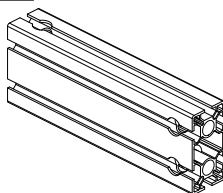
KFS



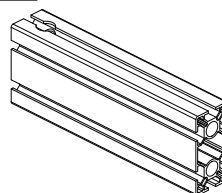
KFW



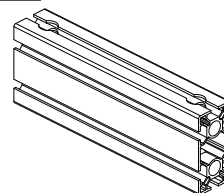
KFC



KFV



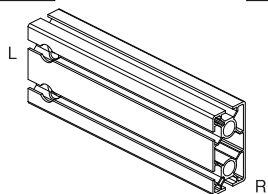
KFY



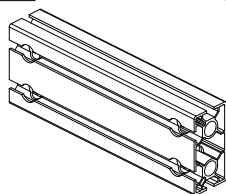
Groove Type 1Row×2Rows (1 Flat Surface)

◆Object Frame... SF-35·70·1F

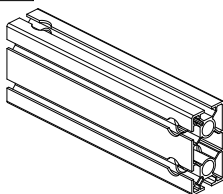
KFA



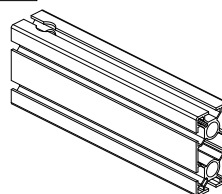
KFD



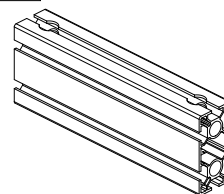
KFE



KFV



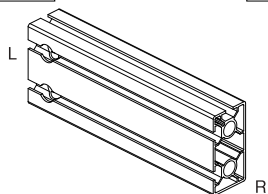
KFY



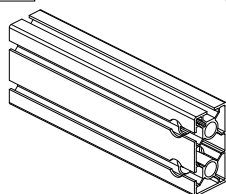
Groove Type 1Row×2Rows (2 Flat Surfaces)

◆Object Frame... SF-35·70·2F

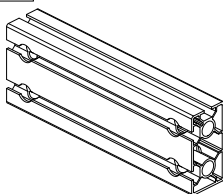
KFA



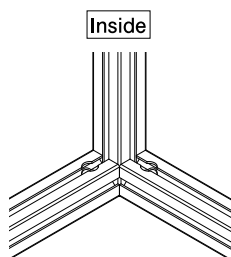
KFB



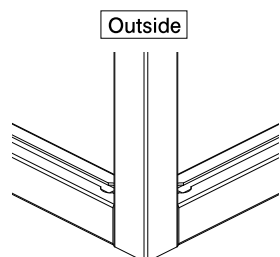
KFD



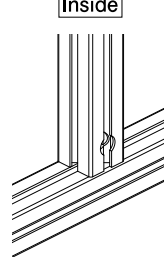
■Simple looking by using KF Joint because drilled hole cannot be seen externally.



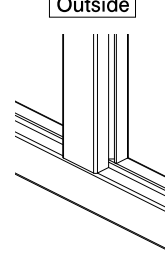
Inside



Outside



Inside



Outside

SF20
SS Size

SF30
S Size

SF40-45
L Size

Complex Parts

Door · Panel
Clean Equipment

Technical Data

SUS

AZ Safety Fence Series Catalogue

30 Series



AZ30 Safety Fence **p.218**



AZ30 Open Door **p.218**



Anchor Bracket **p.219**



AZ Bracket Spacer **p.219**



Coupling Metal Kit **p.220**



AZ Frame Cap Lock Type **p.220**



Part Mounting Nut **p.221**



Cable Clamp S Slot Hook S **p.221**



Slot Cap S **p.221**



Door Stopper Kit **p.222**



Magnet Catch Kit for Open Door **p.222**



Cable Holder **p.222**

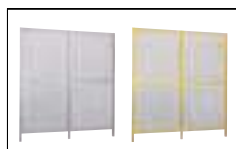


Cable Ring **p.221**

40 Series High-Rigidity



AZ40 Safety Fence **p.224**



AZ40 Safety Fence Connect type **p.225**



AZ40 Open Door **p.225**



Anchor Bracket **p.226**



AZ Bracket Spacer **p.226**



Coupling Metal Kit **p.227**



AZ Frame Cap Lock Type **p.227**



Part Mounting Nut **p.228**



Cable Clamp L Slot Hook L **p.228**



Slot Cap L **p.228**



Door Stopper Kit **p.229**



Magnet Catch Kit for Open Door **p.229**

Common Parts



AZ Pillar **P.232, 233**



AZ Pillar Connect type **P.233**



AZ Beam
(For panel thickness of 3mm) **P.232, 233**



Flat Hinge Kit **P.234**



Door Caster Kit **P.234**



Door Stopper Kit **P.234**



Pull G Type **P.235**



Door Lock Kit **P.235**



Magnet Catch Kit for Open Door **P.235**



AZ Frame Cap Lock Type **P.236**



Cable Clamp Slot Hook **P.236**



Slot Cap **P.236**



Panel Fix Piece **P.236**

Technical Data



Technical Data **P.241~**

30 Series

40 Series

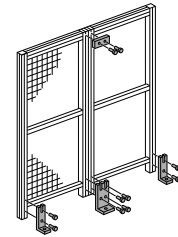
Common Parts

Technical Data

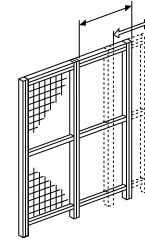


Feature

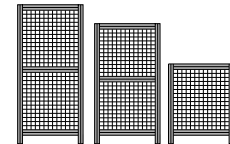
1. The safety fence can be easily installed, simply by joining the fences.



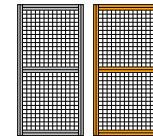
2. The W dimension can be freely designed.



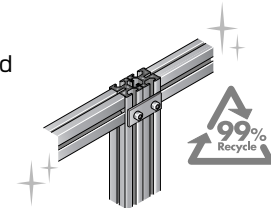
3. The H dimension can also be freely designed.



4. The frame color is selectable from silver or yellow. The surface members are also standardized, ranging from wire mesh to a resin panel.



5. An aluminum frame is exclusively adopted for the safety fence, allowing a cost-effective and exceptionally durable end product. The aluminum safety fence is also visually appealing and environmentally friendly.



6. The design-support service (free of charge) can assist with height/form/surface members for non-standard products. You can consider a design for the space that meets your needs. For details, please contact your nearest sales office. (P264)



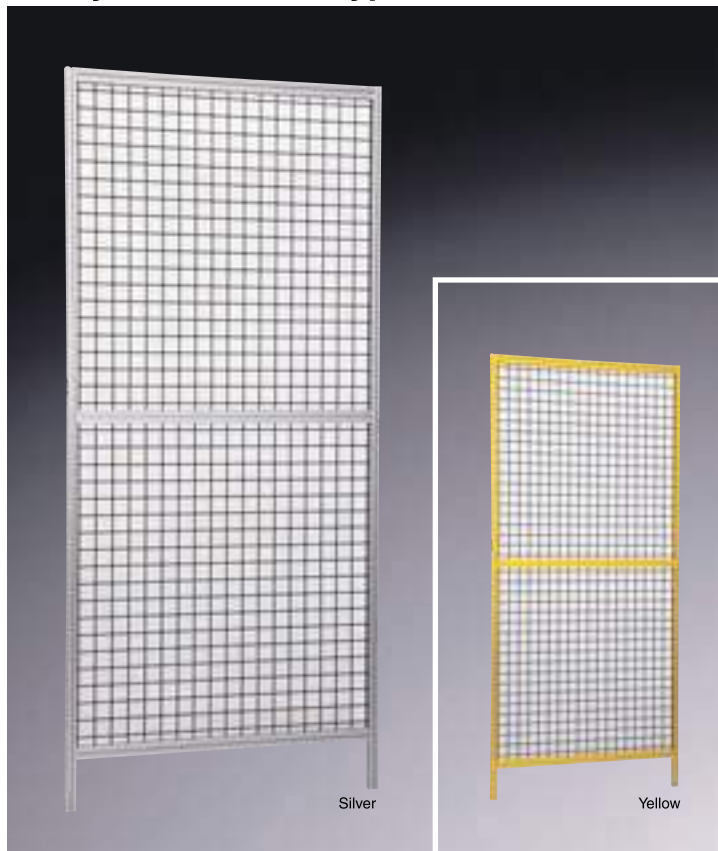


SAFETY FENCE

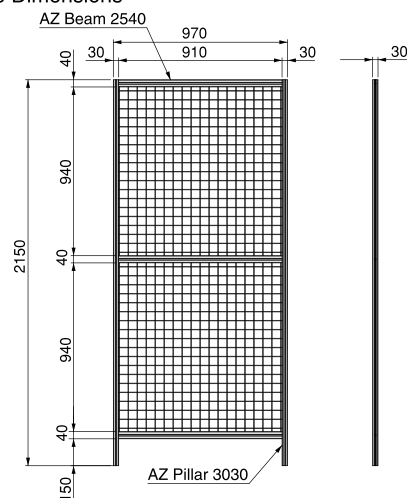
AZ30

SERIES

Safety Fence AZ30 Type



Sample Dimensions



Material/Technical Data

Frame material : A6063

Environment : **RoHS** Compliant

Frame color : Silver Alumite Treatment
Yellow Baking finish

	AZ Beam 2540	AZ Pillar 3030
Geometrical	$I_x = 3.74 \times 10^4 \text{ mm}^4$	$I_x = 2.16 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y = 1.57 \times 10^4 \text{ mm}^4$	$I_y = 2.21 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x = 1.87 \times 10^3 \text{ mm}^3$ $Z_y = 1.26 \times 10^3 \text{ mm}^3$	$Z_x = 1.40 \times 10^3 \text{ mm}^3$ $Z_y = 1.47 \times 10^3 \text{ mm}^3$
Unit Mass	0.69kg/m	0.66kg/m

Panel variation

Environment : **RoHS** Compliant

A	B	C	D
Wire Mesh (steel) pitch 50 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Wire Mesh (steel) pitch 30 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Acrylic Transparent t3 	Aluminum Composite Panel (ACP) Silver t3 

For details of the panels, please see P168, 238.

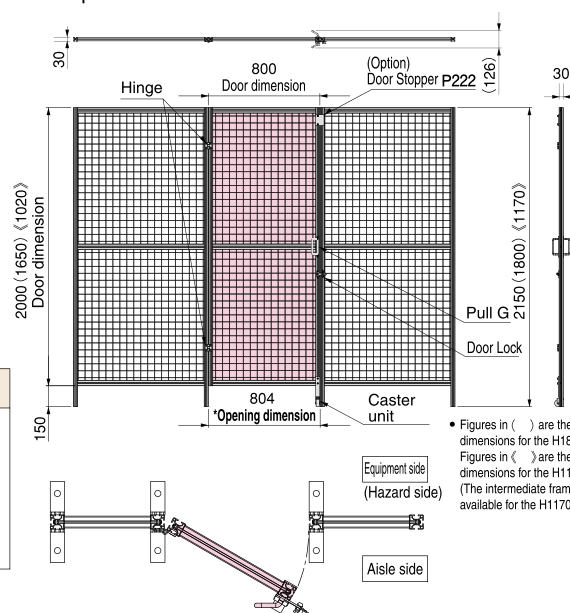
Open Door (Left-opening)



Structure of the Open Door

- Open Door Body
- Fixed Hinge
- Pull G
- Caster Unit
- Door Lock

Sample Dimensions



• Figures in () are the dimensions for the H1800 type.
Figures in < > are the dimensions for the H1170 type.
(The intermediate frame is not available for the H1170 type.)

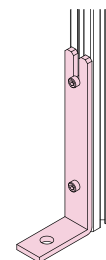
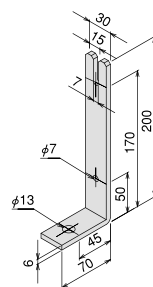
Accessory

Anchor Bracket L Type-1 30 Kit



Name	Anchor Bracket L Type-1 30Kit
Item No.	AZK-300

- Material/Technical Data
Material : SS400
Galvanizing trivalent
chromate treatment※
Environment : **RoHS** Compliant
Weight : 357g
- Usable Frame
AZ Pillar 3030 (including yellow)
- Kit Contents
- Anchor Bracket L-Type 1-piece (Type 30)
 - Hexagon Socket Bolt
 - ST Nut S
 - Anti-Skid Cap

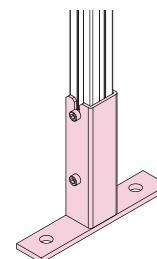
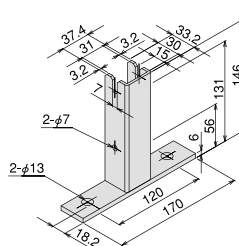


Anchor Bracket C Type-1 30 Kit



Name	Anchor Bracket C Type-1 30 Kit
Item No.	AZK-302

- Material/Technical Data
Material : SS400/SPCC
Galvanizing trivalent
chromate treatment※
Environment : **RoHS** Compliant
Weight : 621g
- Usable Frame
AZ Pillar 3030 (including yellow)
- Kit Contents
- Anchor Bracket C-Type 1-piece (Type 30)
 - Hexagon Socket Bolt
 - ST Nut S
 - Anti-Skid Cap

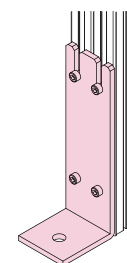
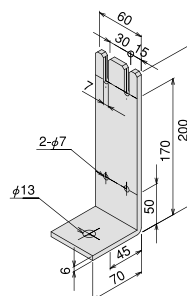


Anchor Bracket L Type-2 30 Kit



Name	Anchor Bracket L Type-2 30 Kit
Item No.	AZK-301

- Material/Technical Data
Material : SS400
Galvanizing trivalent
chromate treatment※
Environment : **RoHS** Compliant
Weight : 744g
- Usable Frame
AZ Pillar 3030 (including yellow)
- Kit Contents
- Anchor Bracket L-Type 2-piece (Type 30)
 - Hexagon Socket Bolt
 - ST Nut S
 - Anti-Skid Cap

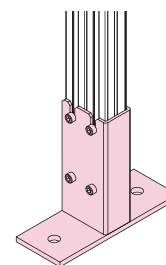
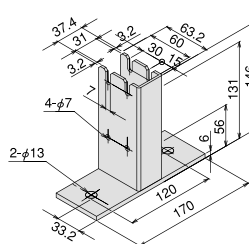


Anchor Bracket C Type-2 30 Kit



Name	Anchor Bracket C Type-2 30 Kit
Item No.	AZK-303

- Material/Technical Data
Material : SS400/SPCC
Galvanizing trivalent
chromate treatment※
Environment : **RoHS** Compliant
Weight : 1122g
- Usable Frame
AZ Pillar 3030 (including yellow)
- Kit Contents
- Anchor Bracket C-Type 2-piece (Type 30)
 - Hexagon Socket Bolt
 - ST Nut S
 - Anti-Skid Cap

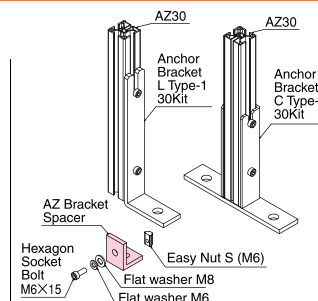
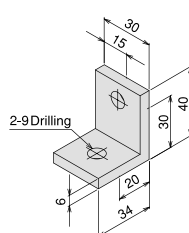


AZ Bracket Spacer 30 Kit



Name	AZ Bracket Spacer 30 Kit
Item No.	AZK-306

- Material/Technical Data
Material : Aluminum Extrusion
Environment : **RoHS** Compliant
Weight : 34g
- Kit Contents
- AZ Bracket Spacer
 - Hexagon Socket Bolt
 - ST Nut S



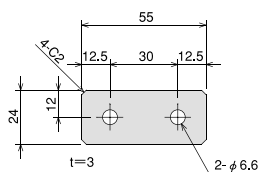
When using a combination of C- and L-Type anchor brackets, the product is used to adjust the height of the frame at the side of the L-Type anchor bracket.

Accessory

Coupling Metal Kit

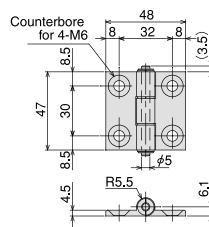


Plate Bracket S-H2



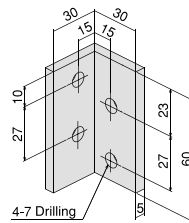
■Material/Technical Data
Material : SUS304
Environment : **RoHS** Compliant
Weight : 28g

Flat Hinge S (For 30)



■Material/Technical Data
Material : A6N01SS-T5 Alumite Treatment
Environment : **RoHS** Compliant
Weight : 30g

Offset Bracket S3060



■Material/Technical Data
Material : A6063 Alumite Treatment
Environment : **RoHS** Compliant
Weight : 42g

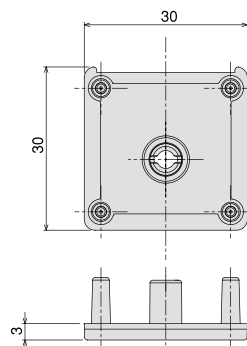
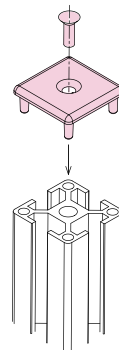
Name	Plate Bracket S-H2 Kit	Flat Hinge S Kit (For 30)	Offset Bracket S3060 Kit
Item No.	SFK-125S	SFK-2A2	SFK-A21
Kit Contents	• Plate Bracket S-H2 • Hexagon Socket Bolt • ST Nut S	• Flat Hinge S • Hexagon Socket Flat Head Bolt • T Nut S	• Offset Bracket S3060 • Hexagon Socket Bolt • T Nut S

■Usable Frame
• AZ Pillar 3030

AZ Frame Cap Lock Type

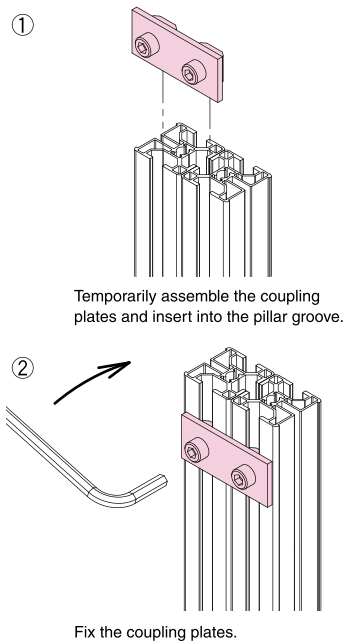


■Material/Technical Data
Material : Polyamide (Cap)
Stainless (Screw)
Environment : **RoHS** Compliant
Weight : 3.7g
■Usable Frame
AZ Pillar 3030 (including yellow)
■Kit Contents
• Frame Cap
• Cross-Recessed Small Flat Screw (Stainless)

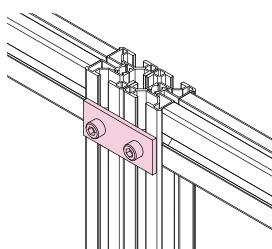


Name	AZ Frame Cap Lock Type 3030 (Light Gray)
Item No.	AZK-304G

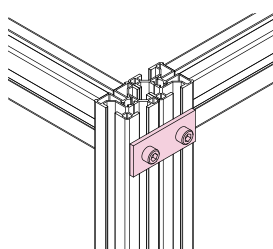
Coupling procedure



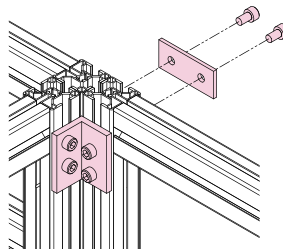
Straight coupling



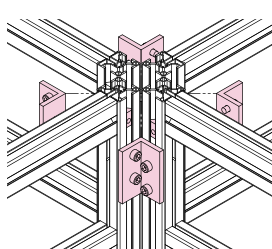
90° coupling



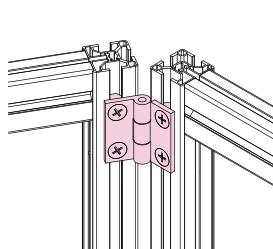
T coupling



Cross coupling



Angle-free coupling

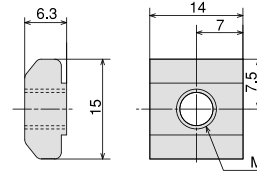


How to order standard products
Item No. **SFK-125S** Quantity (pcs)

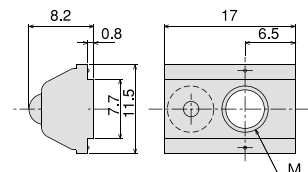
Part Mounting Nut



ST Nut S



S Easy Nut S



Pre-assembly nut	ST Nut S (M6)	ST Nut S (M5)	ST Nut S (M4)	ST Nut S (M3)
Item No.	SFN-TS6	SFN-TS5	SFN-TS4	SFN-TS3
Post-assembly nut	S Easy Nut S (M6)	S Easy Nut S (M5)	S Easy Nut S (M4)	S Easy Nut S (M3)
Item No.	SFN-ES6	SFN-ES5	SFN-ES4	SFN-ES3

■Material/Technical Data
Material : Stainless
With Conductive Function
Environment : **RoHS** Compliant
Weight : 8g

■Material/Technical Data
Material : Stainless
With Conductive Function
Environment : **RoHS** Compliant
Weight : 6g

■Usable Frame
• AZ Pillar 3030 • AZ Beam 2540

Support bolt

Hexagon Socket Bolt (Uni-Chrome)

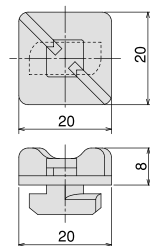
Galvanizing trivalent chromate treatment **RoHS** Compliant

Screw size	6	8	10	12	14	15	18	20	22	25
M3	SFB-531	SFB-532	SFB-533	SFB-534	—	—	SFB-535	—	—	—
M4	SFB-540	SFB-541	SFB-542	—	—	—	SFB-546	SFB-543	SFB-54D	SFB-544
M5	SFB-55E	SFB-550	SFB-551	SFB-55C	SFB-55A	SFB-554	SFB-55B	SFB-555	SFB-552	SFB-553
M6	—	SFB-56E	SFB-561	SFB-560	SFB-56B	SFB-562	SFB-56C	SFB-563	SFB-56A	SFB-566

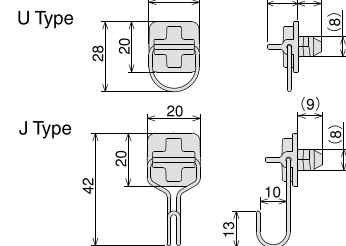
Cable Clamp S/Slot Hook S



Cable Clamp S



Slot Hook S

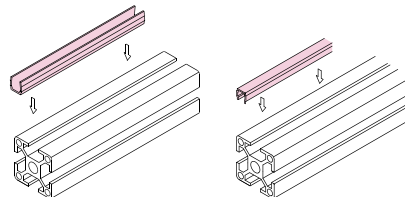
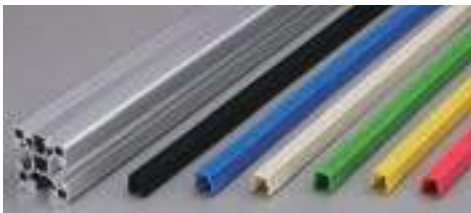


Name	Cable Clamp S (50 pcs.)		Slot Hook S	
	(Light Gray)	(Black)	(U Type)	(J Type)
Item No.	C1P-004C	C1P-B04C	SFK-K32U	SFK-K32J

■Usable Frame
• AZ Pillar 3030 • AZ Beam 2540

■Material/Technical Data
Material : Polyamide
Environment : **RoHS** Compliant
Weight : Cable Clamp S 2g/pcs
Slot Hook S U Type 3g/pcs
Slot Hook S J Type 4g/pcs
Load capacity : Slot Hook S 1.5kg

Slot Cap S



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

■Material/Technical Data
Material : Polyethylene
Environment : **RoHS** Compliant
Unit Mass : Slot Cap S 25g/m

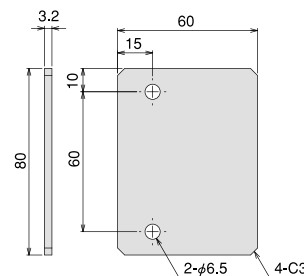
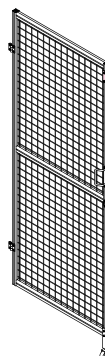
■Usable Frame
• AZ Pillar 3030 • AZ Beam 2540

Accessory

Door Stopper Kit (For 30)

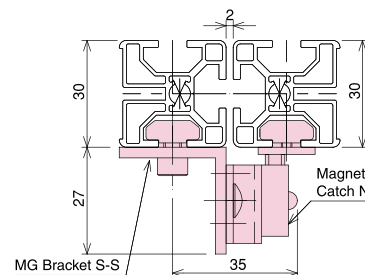
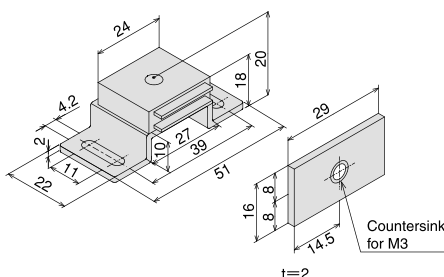


- Material/Technical Data
Material : SPCC
Environment : **RoHS** Compliant
Weight : 142g
- Usable Frame
AZ Pillar 3030
- Kit Contents
 - Stopper Plate
 - Hexagon Socket Bolt
 - ST Nut S
 - Anti-Skid Cap



Name	Door Stopper Kit (For 30)
Item No.	AZK-30D

Magnet Catch Kit for Open Door (MG Bracket S-S Kit)



- Material/Technical Data
Material : Magnet Catch Housing: Stainless Dark Brown Painting
Magnet: Ferrite
MG Bracket: Aluminum
T Nut: Equivalent to S10C Uni-Chrome plating
Environment : **RoHS** Compliant
Weight : 93g
- Usable Frame
AZ Pillar 3030
- Kit Contents
 - Magnet Catch N
 - MG Bracket S-S
 - Truss Screw
 - Flat-Head Screw
 - T Nut S (M3)
 - T Nut S (M5)
 - Hexagon Socket Bolt

Cable Holder/ Cable Ring (Middle) (Small) (Minimum)



Cable Holder



Cable Ring

Cable holder/ring capable of simply getting the cable in and out. Detachable in a single operation and eliminates the need for a bolt or screw. Connectable via a special hook, so also when coupling, can be arranged evenly and in a straight line.

→ P.135



How to order standard products
Item No. Quantity (pcs)
AZK-30D



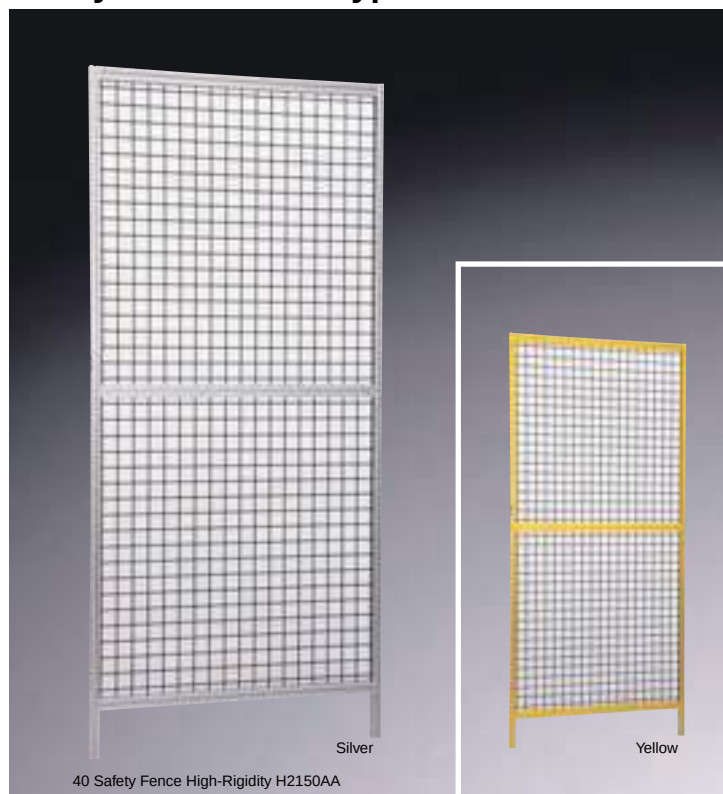
SAFETY FENCE

AZ40

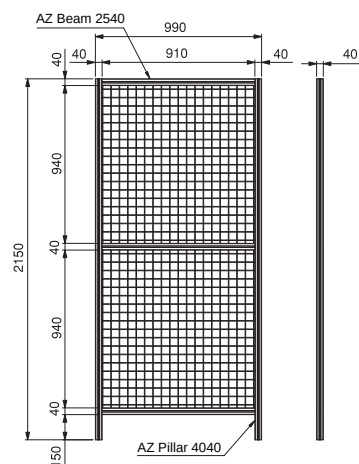
SERIES High-Rigidity

AZ40 SERIES

Safety Fence AZ40 Type



Sample Dimensions



■Material/Technical Data

Frame material : A6063

Environment : **RoHS** Compliant

Frame color : Silver Alumite Treatment

Yellow Baking finish

AZ Beam 2540 AZ Pillar 4040

	AE Beam 2010	AE Final 1010
Geometrical	$I_x = 3.74 \times 10^4 \text{ mm}^4$	$I_x = 5.98 \times 10^4 \text{ mm}^4$

Moment of Inertia $I_y = 1.57 \times 10^4 \text{ mm}^4$ $I_y = 6.17 \times 10^4 \text{ mm}^4$

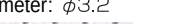
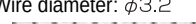
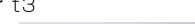
Section Modulus : $Z_x=1.87 \times 10^3 \text{mm}^3$ $Z_x=2.87 \times 10^3 \text{mm}^3$

$$Z_y = 1.26 \times 10^3 \text{ mm}^3 \quad Z_y = 3.09 \times 10^3 \text{ mm}^3$$

Unit Mass	: 0.69kg/m	1.06kg/m
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Panel variation

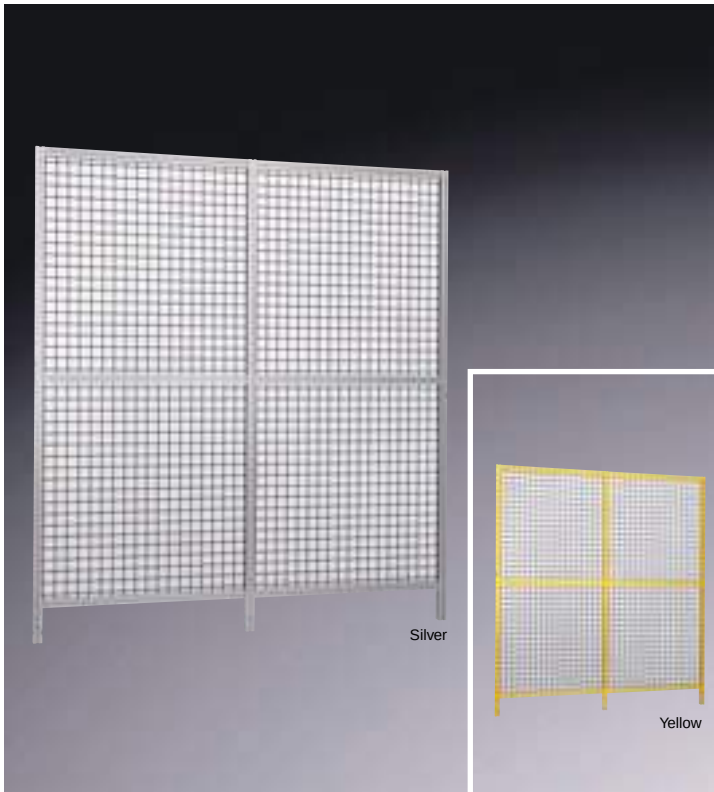
Environment : **RoHS** Compliant

A	B	C	D
Wire Mesh (steel) pitch 50 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Wire Mesh (steel) pitch 30 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Acrylic Transparent t3 	Aluminum Composite Panel (ACP) Silver t3 

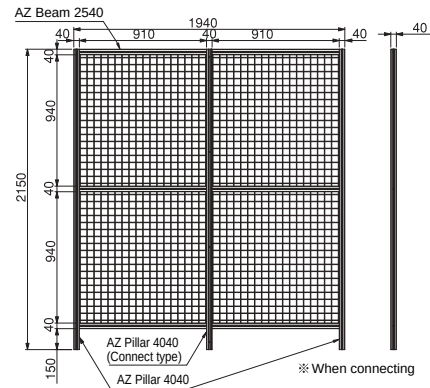
For details of the panels, please see P168, 238.

High-Rigidity Connect Type

AZ40 Connect Type



Sample Dimensions



Material/Technical Data

Frame material : A6063

Environment : **RoHS** Compliant

Frame color : Silver Alumite Treatment
Yellow Baking finish

	AZ Beam 2540	AZ Pillar 4040	AZ Pillar 4040 (Connect type)
Geometrical	$I_x=3.74 \times 10^4 \text{ mm}^4$	$I_x=5.98 \times 10^4 \text{ mm}^4$	$I_x=3.13 \times 10^4 \text{ mm}^4$
Moment of Inertia	$I_y=1.57 \times 10^4 \text{ mm}^4$	$I_y=6.17 \times 10^4 \text{ mm}^4$	$I_y=2.26 \times 10^4 \text{ mm}^4$
Section Modulus	$Z_x=1.87 \times 10^3 \text{ mm}^3$ $Z_y=1.26 \times 10^3 \text{ mm}^3$	$Z_x=2.87 \times 10^3 \text{ mm}^3$ $Z_y=3.09 \times 10^3 \text{ mm}^3$	$Z_x=1.26 \times 10^3 \text{ mm}^3$ $Z_y=1.06 \times 10^3 \text{ mm}^3$
Unit Mass	0.69kg/m	1.06kg/m	0.65kg/m

Panel variation

Environment : **RoHS** Compliant

A	B	C	D
Wire Mesh (steel) pitch 50 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Wire Mesh (steel) pitch 30 Wire diameter: $\phi 3.2$  Black baking finish /welded wire netting	Acrylic Transparent t3 	Aluminum Composite Panel (ACP) Silver t3 

For details of the panels, please see P168, 238.

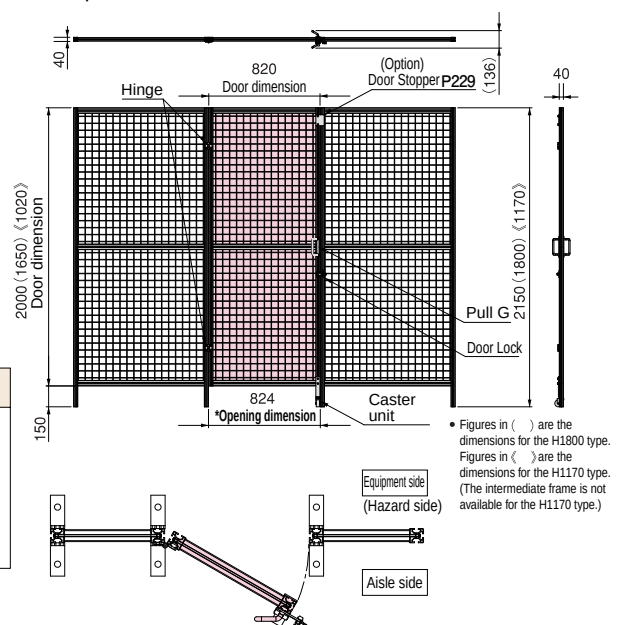
High-Rigidity Open Door for Panel thickness of 3mm (left-opening)



Structure of the Open Door

- Open Door Body
- Fixed Hinge
- Pull G
- Caster Unit
- Door Lock

Sample Dimensions



The panel variation is the same as the P224.

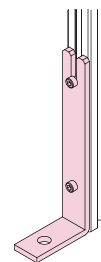
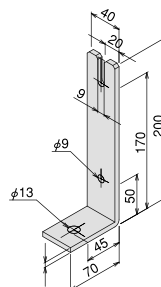
Accessory

Anchor Bracket L Type-1 40 Kit



Name	Anchor Bracket L Type-1 40 Kit
Item No.	AZK-400

- Material/Technical Data
Material : SS400
Galvanizing trivalent chromate treatment※
Environment : **RoHS** Compliant
Weight : 496g
- Usable Frame
AZ Pillar 4040
AZ Pillar 4040t5 (including yellow)
- Kit Contents
• Anchor Bracket L-Type 1-piece (Type 40)
• Hexagon Socket Bolt
• ST Nut L
• Anti-Skid Cap L

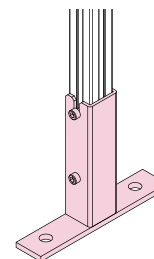
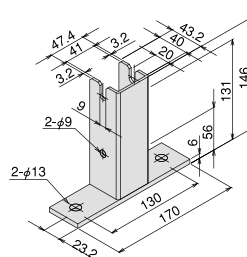


Anchor Bracket C Type-1 40 Kit



Name	Anchor Bracket C Type-1 40 Kit
Item No.	AZK-402

- Material/Technical Data
Material : SS400/SPCC
Galvanizing trivalent chromate treatment※
Environment : **RoHS** Compliant
Weight : 838g
- Usable Frame
AZ Pillar 4040
AZ Pillar 4040t5 (including yellow)
- Kit Contents
• Anchor Bracket C-Type 1-piece (Type 40)
• Hexagon Socket Bolt
• ST Nut L
• Anti-Skid Cap L

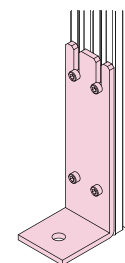
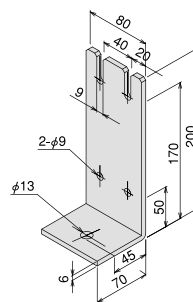


Anchor Bracket L Type-2 40 Kit



Name	Anchor Bracket L Type-2 40 Kit
Item No.	AZK-401

- Material/Technical Data
Material : SS400
Galvanizing trivalent chromate treatment※
Environment : **RoHS** Compliant
Weight : 1001g
- Usable Frame
AZ Pillar 4040
AZ Pillar 4040t5 (including yellow)
- Kit Contents
• Anchor Bracket L-Type 2-piece (Type 40)
• Hexagon Socket Bolt
• ST Nut L
• Anti-Skid Cap L

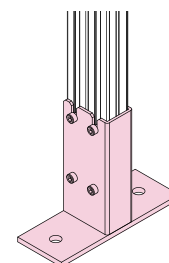
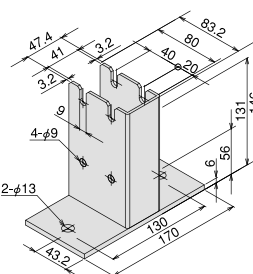


Anchor Bracket C Type-2 40 Kit



Name	Anchor Bracket C Type-2 40 Kit
Item No.	AZK-403

- Material/Technical Data
Material : SS400/SPCC
Galvanizing trivalent chromate treatment※
Environment : **RoHS** Compliant
Weight : 1196g
- Usable Frame
AZ Pillar 4040
AZ Pillar 4040t5 (including yellow)
- Kit Contents
• Anchor Bracket C-Type 2-piece (Type 40)
• Hexagon Socket Bolt
• ST Nut L
• Anti-Skid Cap L

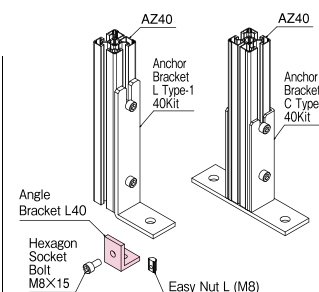
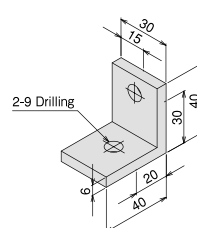


AZ Bracket Spacer 40 Kit



Name	AZ Bracket Spacer 40 Kit
Item No.	AZK-40F

- Material/Technical Data
Material : Aluminum Extrusion
Environment : **RoHS** Compliant
Weight : 34g
- Kit Contents
• AZ Bracket Spacer
• Hexagon Socket Bolt
• ST Nut L



When using a combination of C- and L-Type anchor brackets, the product is used to adjust the height of the frame at the side of the L-Type anchor bracket.

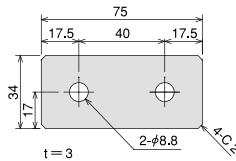


How to order standard products
Item No. **AZK-400** Quantity (pcs)

Coupling Metal Kit

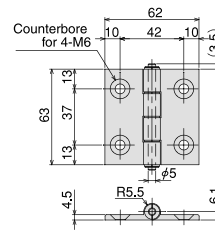


Plate Bracket L40-H2



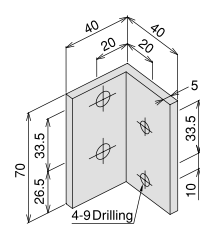
■Material/Technical Data
Material : SUS304
Environment : **RoHS** Compliant
Weight : 54g

Flat Hinge L40 (M6)



■Material/Technical Data
Material : A6N01SS-T5 Alumite Treatment
Environment : **RoHS** Compliant
Weight : 58.7g

Offset Bracket L4080



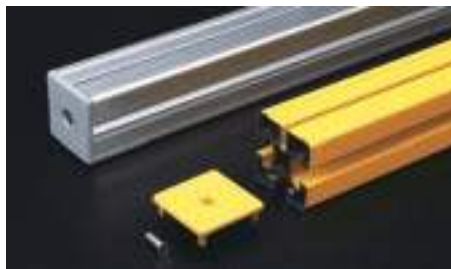
■Material/Technical Data
Material : A6063 Alumite Treatment
Environment : **RoHS** Compliant
Weight : 67g

Name	Plate Bracket L40-H2 Kit	Flat Hinge L40 (M6) Kit	Offset Bracket L4080 Kit
Item No.	SFK-126S	SFK-2A3	SFK-A22
Kit Contents	• Plate Bracket L40-H2 • Hexagon Socket Bolt • ST Nut L	• Flat Hinge L40 (M6) • Cross-Recessed Small Flat Screw • T Nut L	• Offset Bracket L4080 • Hexagon Socket Bolt • T Nut L

■Usable Frame

- AZ Pillar 4040
- AZ Pillar 4040t5 (including yellow)

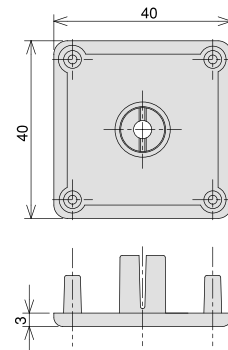
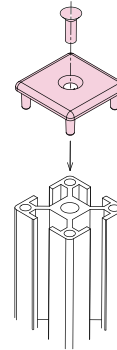
AZ Frame Cap Lock Type



■Material/Technical Data
Material : Polyamide (Cap)
Stainless (Screw)
Environment : **RoHS** Compliant
Weight : 7.3g

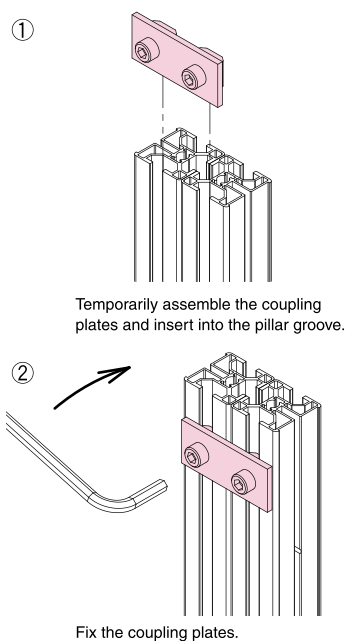
■Usable Frame
AZ Pillar 4040
AZ Pillar 4040t5 (including yellow)

■Kit Contents
• Frame Cap
• Cross-Recessed Small Flat Screw (Stainless)

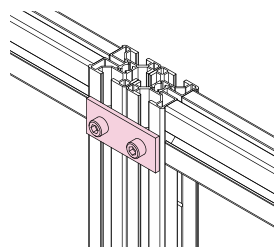


Name	AZ Frame Cap Lock Type 4040 (Light Gray)
Item No.	SFK-02LG

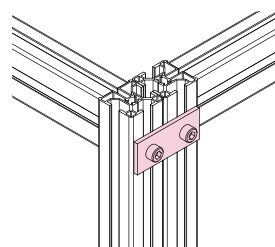
Coupling procedure



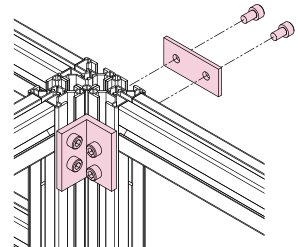
Straight coupling



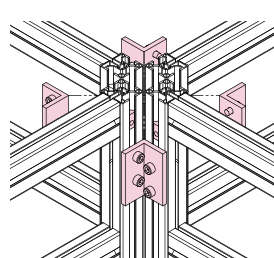
90° coupling



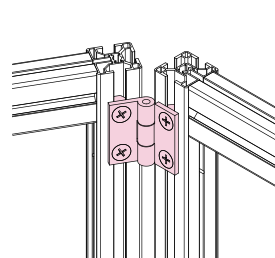
T coupling



Cross coupling



Angle-free coupling



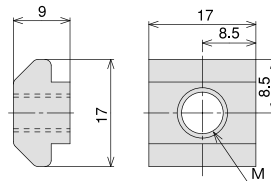
Accessory

Part Mounting Nut

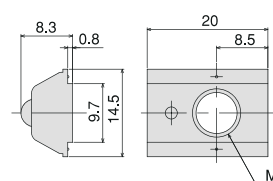


Pre-assembly nut	ST Nut L (M8)	ST Nut L (M6)	ST Nut L (M5)	ST Nut S (M4)
Item No.	SFN-TL8	SFN-TL6	SFN-TL5	SFN-TL4
Post-assembly nut	S Easy Nut L (M8)	S Easy Nut L (M6)	S Easy Nut L (M5)	S Easy Nut L (M4)
Item No.	SFN-EL8	SFN-EL6	SFN-EL5	SFN-EL4

ST Nut L



S Easy Nut L



■Material/Technical Data

Material : Stainless
With Conductive Function
Environment : **RoHS** Compliant
Weight : 14g

■Material/Technical Data

Material : Stainless
With Conductive Function
Environment : **RoHS** Compliant
Weight : 10g

■Usable Frame

- AZ Pillar 4040 • AZ Pillar 4040t5
- AZ Pillar 4040 Coupling (including yellow)

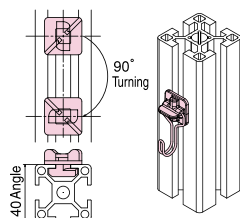
Support bolt

Hexagon Socket Bolt (Uni-Chrome)

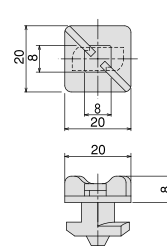
Galvanizing trivalent chromate treatment **RoHS** Compliant

Screw size	6	8	10	12	14	15	18	20	22	25
M4	SFB-540	SFB-541	SFB-542	—	—	—	SFB-546	SFB-543	SFB-54D	SFB-544
M5	SFB-55E	SFB-550	SFB-551	SFB-55C	SFB-55A	SFB-554	SFB-55B	SFB-555	SFB-552	SFB-553
M6	—	SFB-56E	SFB-561	SFB-560	SFB-56B	SFB-562	SFB-56C	SFB-563	SFB-56A	SFB-566
M8	—	—	—	SFB-580	—	SFB-581	SFB-589	SFB-582	—	SFB-583

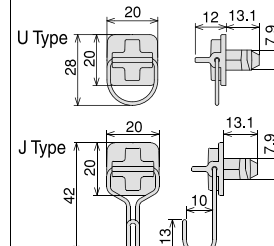
Cable Clamp L/Slot Hook L



Cable Clamp L



Slot Hook L



Name	Cable Clamp L (50 pcs.) (Light Gray)	Cable Clamp L (50 pcs.) (Black)	Slot Hook L (U Type)	Slot Hook L (J Type)
Item No.	C1P-012C	C1P-B12C	SFK-K33U	SFK-K33J

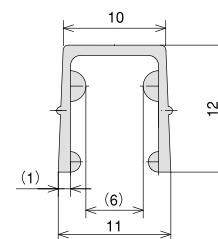
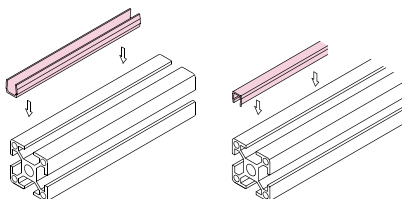
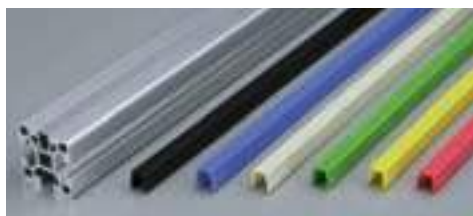
■Usable Frame

- AZ Pillar 4040 • AZ Pillar 4040t5
- AZ Pillar 4040 Coupling (including yellow)

■Material/Technical Data

Material : Polyamide
Environment : **RoHS** Compliant
Weight : Cable Clamp L 2.5g/pcs
Slot Hook L U Type 3.7g/pcs
Slot Hook L J Type 4.5g/pcs
Load capacity : Slot Hook L 2kg

Slot Cap L



Name	(Light Gray)	(Black)	Slot cap L (l=2000 mm/piece) (Blue)	Slot cap L (l=2000 mm/piece) (Green)	(Yellow)	(Red)
Item No.	SFA-102G	SFA-102	SFA-102L	SFA-102M	SFA-102Y	SFA-102R

■Material/Technical Data

Material : Polyethylene
Environment : **RoHS** Compliant
Unit Mass : Slot Cap L 46g/m

■Usable Frame

- AZ Pillar 4040 • AZ Pillar 4040t5
- AZ Pillar 4040 Coupling (including yellow)



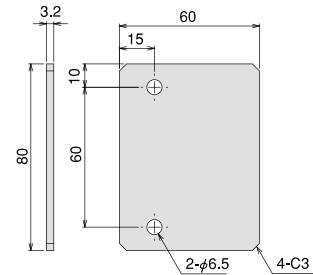
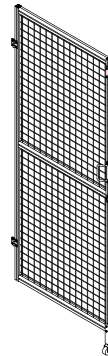
How to order standard products

Item No. Quantity (pcs)
SFN-TL8 □□

Door Stopper Kit (For 40)

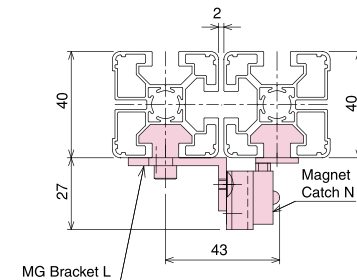
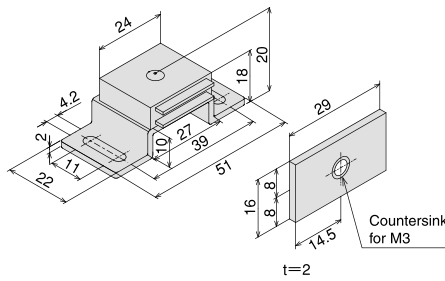


- **Material/Technical Data**
Material : SPCC
Environment : RoHS Compliant
Weight : 155g
- **Usable Frame**
 AZ Pillar 4040
 AZ Pillar 4040t5
 AZ Pillar 4040 Coupling
 (including yellow)
- **Kit Contents**
- Stopper Plate
 - Hexagon Socket Bolt
 - ST Nut L
 - Anti-Skid Cap L



Name	Door Stopper Kit (For 40)
Item No.	AZK-40C

Magnet Catch Kit for Open Door (MG Bracket L-L40 Kit)



- **Material/Technical Data**
Material : Magnet Catch Housing: Stainless Dark Brown Painting
Magnet: Ferrite
MG Bracket: Aluminum
T Nut: Equivalent to S10C Uni-Chrome plating
Environment : RoHS Compliant
Weight : 97g

- **Usable Frame**
 AZ Pillar 4040
 AZ Pillar 4040t5
 AZ Pillar 4040 Coupling
 (including yellow)
- **Kit Contents**
- Magnet Catch N
 - MG Bracket L
 - Truss Screw
 - Flat-Head Screw
 - Accessory Nut (M3)
 - ST Nut L (M5)
 - Hexagon Socket Bolt

Name	MG Bracket L-L40 Kit
Item No.	SFK-4AM

Cable Holder (Large) (Middle) (Small)/ Cable Ring (Large) (Middle) (Small)



Cable Holder



Cable Ring

Cable holder/ring capable of simply getting the cable in and out. Detachable in a single operation and eliminates the need for a bolt or screw. Connectable via a special hook, so also when coupling, can be arranged evenly and in a straight line.

→ P.135



SAFETY FENCE

Common Parts

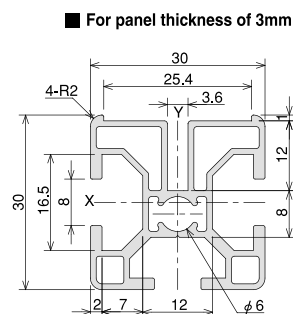
Common Parts

AZ Pillar 3030



Name	AZ Pillar 3030 ℓ=50~4000
Item No.	AZF-304

Material/Technical Data
Material : A6063SS-T6
Silver Alumite Treatment
Environment : RoHS Compliant
Geometrical Moment of Inertia :
$I_x=2.16 \times 10^4 \text{mm}^4$
$I_y=2.21 \times 10^4 \text{mm}^4$
Section Modulus :
$Z_x=1.40 \times 10^3 \text{mm}^3$
$Z_y=1.47 \times 10^3 \text{mm}^3$
Unit Mass : 0.66kg/m



*Separate processing required. (see P243~)

*For the coupling with the AZ beam 2540, a tapping bolt for assembly is required. (See bottom of this page)

AZ Beam 2540

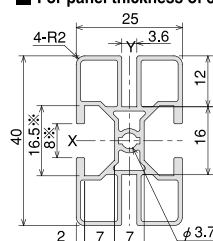


Name	AZ Beam 2540 ℓ=50~4000
Item No.	AZF-014

Material/Technical Data
Material : A6063SS-T6
Silver Alumite Treatment
Environment : RoHS Compliant
Geometrical Moment of Inertia :
$I_x=3.74 \times 10^4 \text{mm}^4$
$I_y=1.57 \times 10^4 \text{mm}^4$
Section Modulus :
$Z_x=1.87 \times 10^3 \text{mm}^3$
$Z_y=1.26 \times 10^3 \text{mm}^3$
Unit Mass : 0.69kg/m

Common for the 30/40 series

■ For panel thickness of 3mm

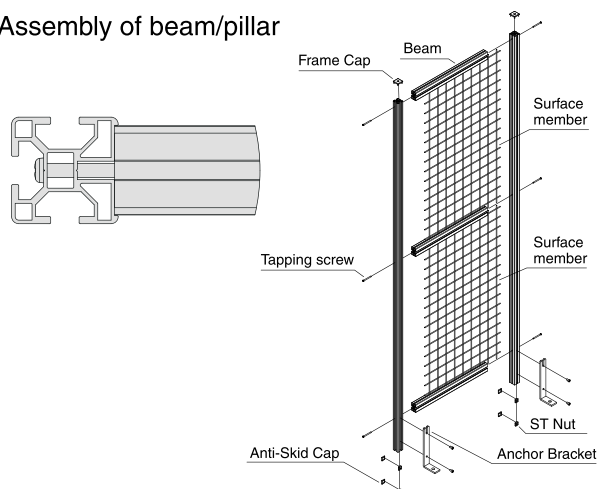


⚠ Please note the dimension with the mark ※ has a different groove shape from the AZ pillar 4040.

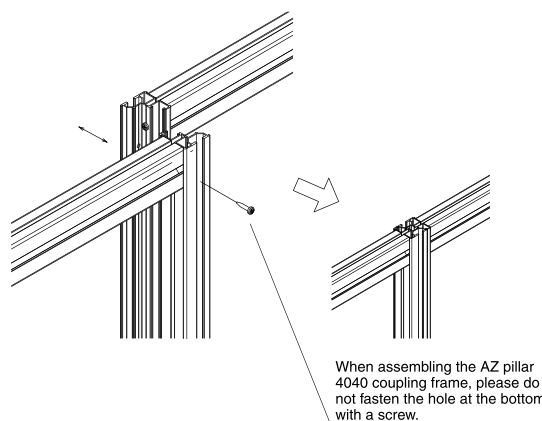
*Separate processing required. (see P243~)

*For the coupling with the AZ pillar 3030, a tapping bolt for assembly is required. (See bottom of this page)

Assembly of beam/pillar



Coupling frame assembly



Tapping Bolt for AZ Frame Assembly

Name	Round Head Tapping Screw M4x45(Stainless)
Item No.	SFB-9D1S

Application Location

Assembly of AZ pillar 3030 and AZ beam 2540
Assembly of AZ pillar 4040 and AZ beam 2540
Assembly of AZ pillar 4040 coupling frame and AZ beam 2540

Environment

RoHS Compliant

Tapping bolt for the AZ pillar 4040 coupling frame assembly

Name	Sun Lock Screw M4x20 (Screw length 15)
Item No.	SFB-57C

Application Location

Assembly of the AZ pillar 4040 coupling frames

Environment

RoHS Compliant



How to order
Item No.
AZF-304

Length
ℓ=1500

Quantity (pcs)

Common Parts

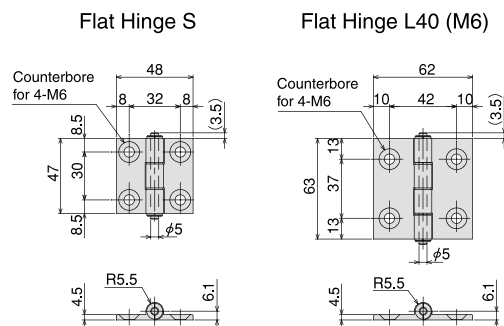
Open Door Parts

Flat Hinge Kit



- **Material/Technical Data**
Material : A6N01SS-T5 Alumite Treatment
Environment : **RoHS** Compliant
Weight : 34g (For 30)/58.7g (For 40)
- **Usable Frame**
 AZ Pillar 3030 (For 30)
 AZ Pillar 4040 (For 40)
 (including yellow)
- **Kit Contents**
 • Flat Hinge
 • T Nut
 • Cross-Recessed Small Flat Screw

Name	Flat Hinge S Kit (For 30)	Flat Hinge L40 (M6) Kit (For 40)
Item No.	SFK-2A2	SFK-2A3

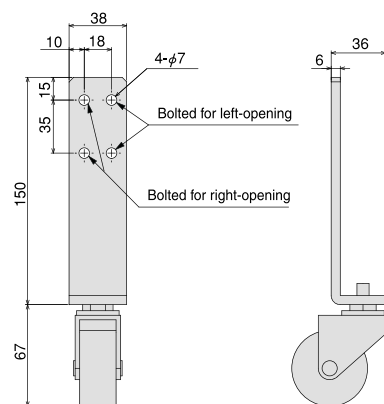


Door Caster Kit



- **Material/Technical Data**
Material : Rubber (Caster)
 SS400 (Bracket)
Weight : 333g (For 30)/343g (For 40)
- **Usable Frame**
 AZ Pillar 3030 (For 30)
 AZ Pillar 4040 (For 40)
 (including yellow)
- **Kit Contents**
 • Caster M8
 • Bracket
 • T Nut
 • Hexagon Socket Bolt

Name	Door Caster Kit (For30)	Door Caster Kit (For40)
Item No.	AZK-30E	AZK-40D

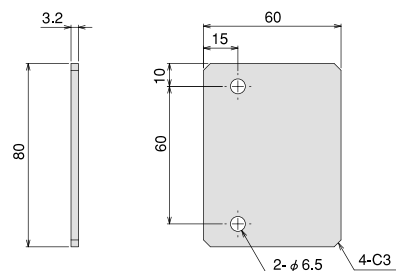


Door Stopper Kit

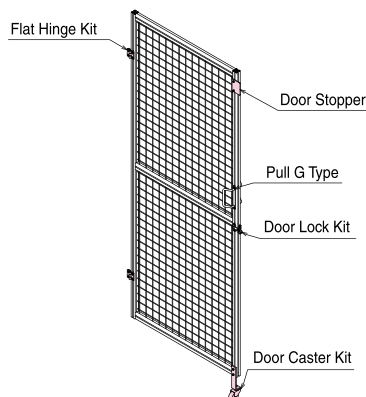


- **Material/Technical Data**
Material : SPCC
Environment : **RoHS** Compliant
Weight : 139g (For 30)/151g (For 40)
- **Usable Frame**
 AZ Pillar 3030 (For 30)
 AZ Pillar 4040 (For 40)
 (including yellow)
- **Kit Contents**
 • Stopper Plate
 • T Nut
 • Hexagon Socket Bolt
 • Anti-Skid Cap

Name	Door Stopper Kit (For30)	Door Stopper Kit (For40)
Item No.	AZK-30D	AZK-40C



Open Door Configuration Diagram



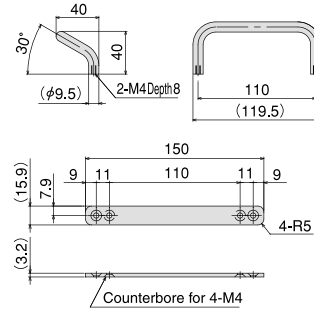
How to order
 Item No.
SFK-2A2

Quantity (pcs)

Pull G Type



- **Material/Technical Data**
Material : A6063 (Pull/Plate)
Environment : **RoHS** Compliant
Weight : 83g (For 30)/93g (For 40)
- **Usable Frame**
 AZ Pillar 3030 (For 30)
 AZ Pillar 4040 (For 40)
 (including yellow)
- **Kit Contents**
 • Pull G Type • Setting Plate for Pull G
 • T Nut • Cross-Recessed Small Flat Screw
 • Anti-Skid Cap

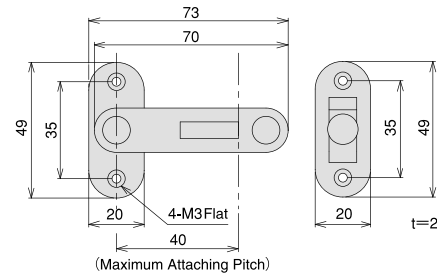


Name	Pull G Type Kit (For30)	Pull G Type Kit (For40)
Item No.	AZK-30B	AZK-40A

Door Lock Kit



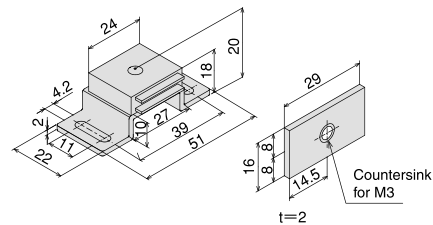
- **Material/Technical Data**
Material : SUS304 (Door Lock)
Environment : **RoHS** Compliant
Weight : 97g (For 30)/101g (For 40)
- **Usable Frame**
 AZ Pillar 3030 (For 30)
 AZ Pillar 4040 (For 40)
 (including yellow)
- **Kit Contents**
 • Door Lock
 • Easy Nut
 • Cross-Recessed Small Flat Screw



Name	Door Lock Kit (For30)	Door Lock Kit (For40)
Item No.	AZK-30C	AZK-40B

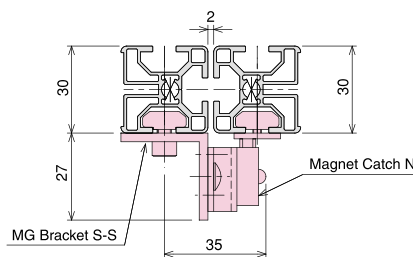
Magnet Catch Kit for Open Door

MG Bracket S-S Kit/MG Bracket L-L40 Kit

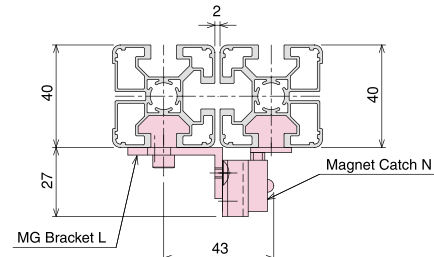


- **Material/Technical Data**
Material : **Magnet Catch :** Stainless Dark Brown Painting
Housing
Magnet: Ferrite
MG Bracket: Aluminum
Environment : **T Nut:** Equivalent to S10C Uni-Chrome plating
Weight : **RoHS** Compliant
 35g (Magnet Catch)
- **Usable Frame**
 • AZ Pillar 3030 (S-S Kit)
 • AZ Pillar 4040 (L-L40 Kit)
 (including yellow)
- **Kit Contents**
 • Magnet Catch N
 • MG Bracket S-S/L
 • Truss Screw
 • Flat-Head Screw
 • Accessory Nut L (M3)
 • T Nut
 • Hexagon Socket Bolt

Name	MG Bracket S-S Kit	MG Bracket L-L40 Kit
Item No.	SFK-4AH	SFK-4AM



- **Kit Contents**
 • Magnet Catch N • MG Bracket S-S • Truss Screw • Flat-Head Screw
 • Hexagon Socket Bolt • T Nut



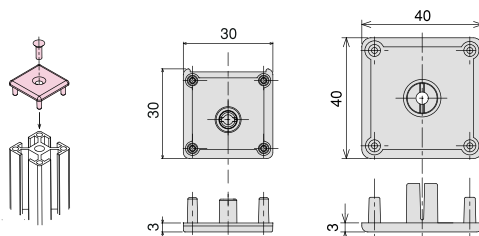
- **Kit Contents**
 • Magnet Catch N • MG Bracket L • Truss Screw • Flat-Head Screw
 • Accessory Nut • T Nut • Hexagon Socket Bolt

Common Parts

AZ Frame Cap Lock Type



■Material/Technical Data
Material : Polyamide (Cap) Stainless (Screw)
Environment : **RoHS** Compliant
Weight : 3.7g (For 30) 7.3g (For 40)
■Usable Frame
AZ Pillar 3030/AZ Pillar 4040
■Kit Contents
• Frame Cap
• Cross-Recessed Small Flat Screw (Stainless)

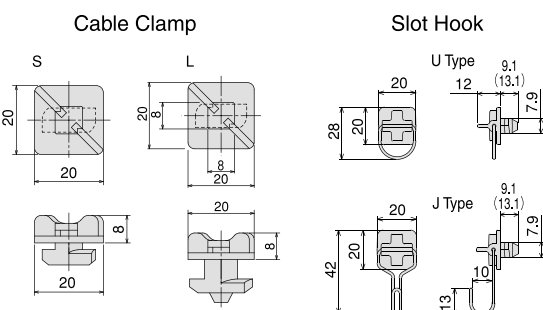


Name	AZ Frame Cap Lock Type 3030 (Light Gray)	AZ Frame Cap Lock Type 4040 (Light Gray)
Item No.	AZK-304G	SFK-02LG

Cable Clamp/Slot Hook



■Material/Technical Data
Material : Polyamide
Environment : **RoHS** Compliant
Weight : Cable Clamp 2g/pcs (S)
2.5g/pcs (L)
Slot Hook U Type 3g/pcs (S)
3.7g/pcs (L)
Slot Hook J Type 4.0g/pcs (S)
4.5g/pcs (L)
Load capacity : Slot Hook 1.5kg (S)
2kg (L)



■ For 30

Name	Cable Clamp S (50 pcs.) (Light Gray) (Black)	Slot Hook S (U Type) (J Type)
Item No.	C1P-004C C1P-B04C	SFK-K32U SFK-K32J

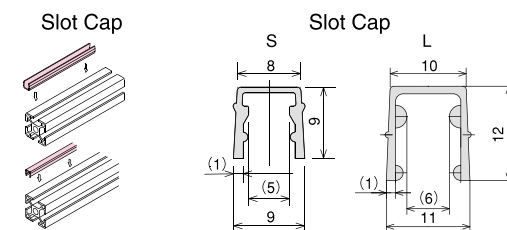
■ For 40

Name	Cable Clamp L (50 pcs.) (Light Gray) (Black)	Slot Hook L (U Type) (J Type)
Item No.	C1P-012C C1P-B12C	SFK-K33U SFK-K33J

Slot Cap S



■Material/Technical Data
Material : Polyethylene
Environment : **RoHS** Compliant
Weight : Slot Cap S 25g/m
Slot Cap L 46g/m



■ For 30

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

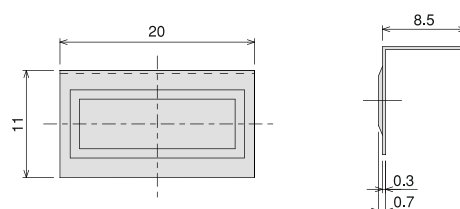
■ For 40

Name	(Light Gray)	(Black)	Slot Cap L (ℓ=2000mm/pcs) (Blue) (Green) (Yellow) (Red)
Item No.	SFA-102G	SFA-102	SFA-102L SFA-102M SFA-102Y SFA-102R

Panel Fix Piece (For Resin Panel)



■Material/Technical Data
Material : SECC (Electrogalvanized Steel Sheet)
Weight : 0.9g



Name	Panel Fix Piece (For Resin Panel)
Item No.	AZP-001

*Please mount panel-fix pieces to the sides and upper and lower parts of the panel. (4 pieces for each panel)
*Wire mesh not required



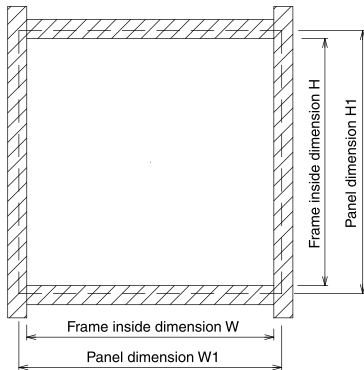
How to order
Item No.
AZK-304G

Quantity (pcs)



Guidelines for steel/aluminum panel dimensions

Method of calculating panel dimensions



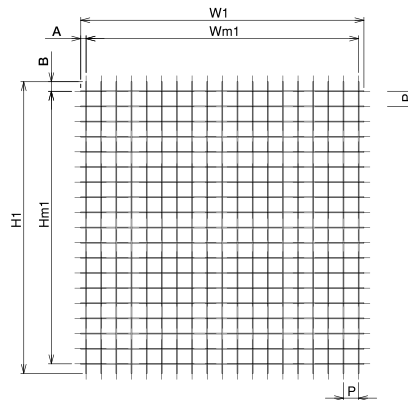
Method of calculating panel dimensions

Panel type	Wire mesh	Resin panel
Height H1	H+23	H+21
Width W1	W+25	W+23

※Common to the 30/40 Series.



Detailed dimensions of wire mesh



How to determine the A/B dimension
The minimum required dimension for A shall be 12mm.

$$W1 - (12 \times 2) = Wm1$$

$Wm1/P = n \rightarrow n$ is a integer

$$A = (W1 - P \times n) / 2$$

The minimum required dimension for B shall be 12mm.

$$H1 - (12 \times 2) = Hm1$$

$Hm1/P = n \rightarrow n$ is a integer

$$B = (H1 - P \times n) / 2$$

Design procedure/material

• AZ coupling method **P.242**

• AZ strength data **P.246**

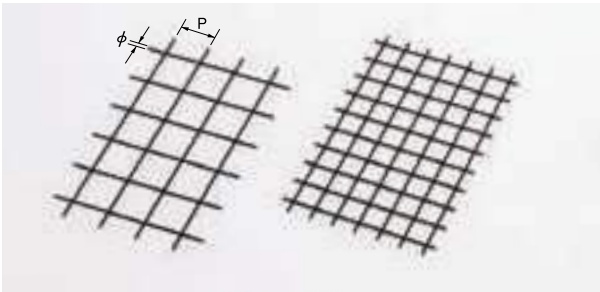
• AZ safety-distance material **P.248**

• Resin panel **P.168**

• Wire mesh **P.238**

Wire Mesh

Wire Mesh

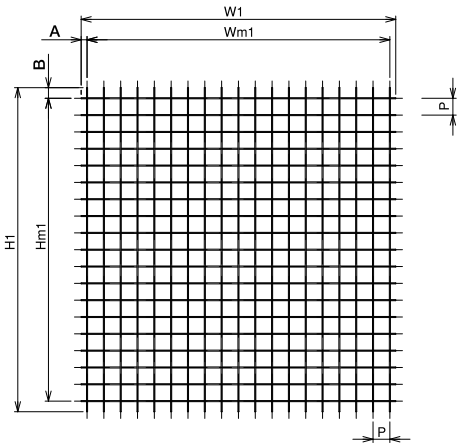


Item No.	Material	P (Pitch)	Wire diameter	Surface treatment	Guidelines for mass (kg/m ²)	Size MAX (mm)
AZY-002	Steel	30	φ 3.2	Black baking finish	4.2	963×935
AZY-001		50			2.5	

■Material/Technical Data
Environment : RoHS Compliant

Method of calculating wire mesh dimension (using AZ series)

Detailed dimension of wire mesh



How to determine the A/B dimension
The minimum required dimension for A shall be 12mm.
 $W1 - (12 \times 2) = Wm1$
 $Wm1 / P = n \rightarrow n$ is a integer
 $A = (W1 - P \times n) / 2$
The minimum required dimension for B shall be 12mm.
 $H1 - (12 \times 2) = Hm1$
 $Hm1 / P = n \rightarrow n$ is a integer
 $B = (H1 - P \times n) / 2$







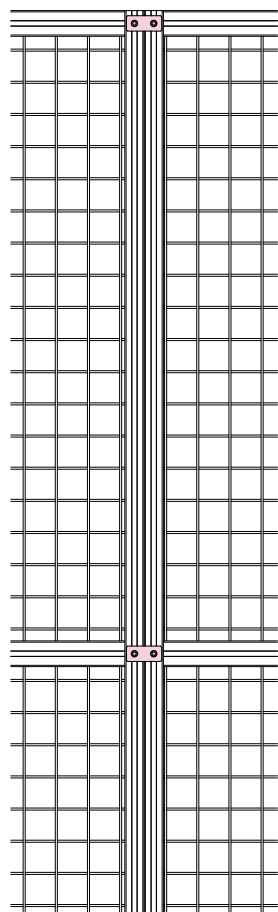
SAFETY FENCE

Technical Data

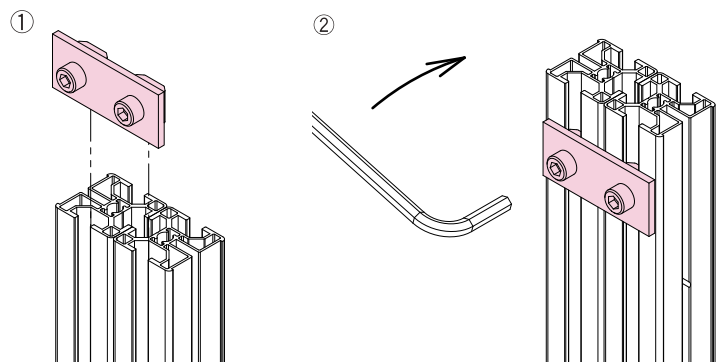
AZ Coupling Method

① Couple safety fences to form the corner of the safety fence (standard).

* Coupling plates shall be installed in at least two locations (the upper/center parts of the frame), and the lower part shall be coupled with anchor bracket 2.



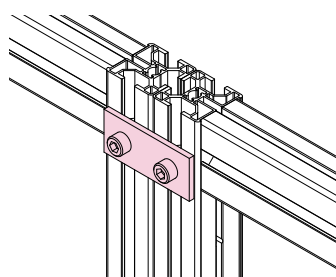
Coupling procedure



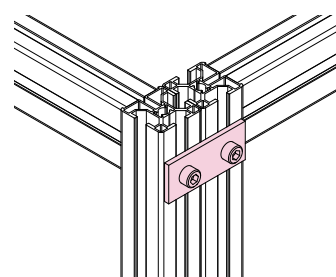
Temporarily assemble the coupling plates and insert into the pillar groove.

Fix the coupling plates.

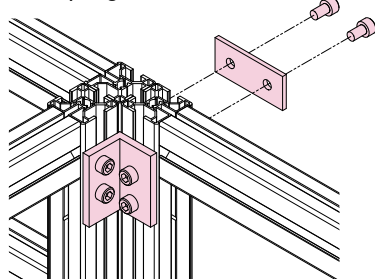
Straight coupling



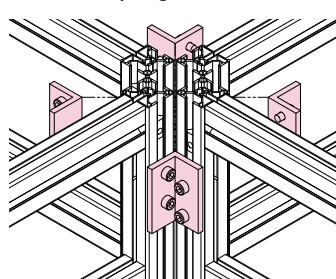
90° coupling



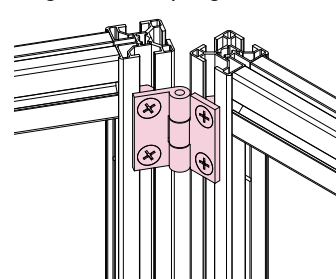
T coupling



Cross coupling



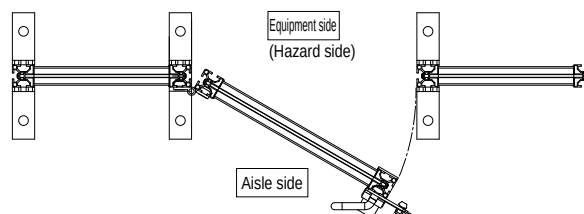
Angle-free coupling



② Mounting of the door part

■ In the case of a open door

* Mount with a flat-type hinge.
Fix the metal to the side of the inside lock.



③ Anchor fixing with anchor bracket

* Please set at least one anchor per pillar, in principle.

* Fix with an M10 or M12 anchor bolt.

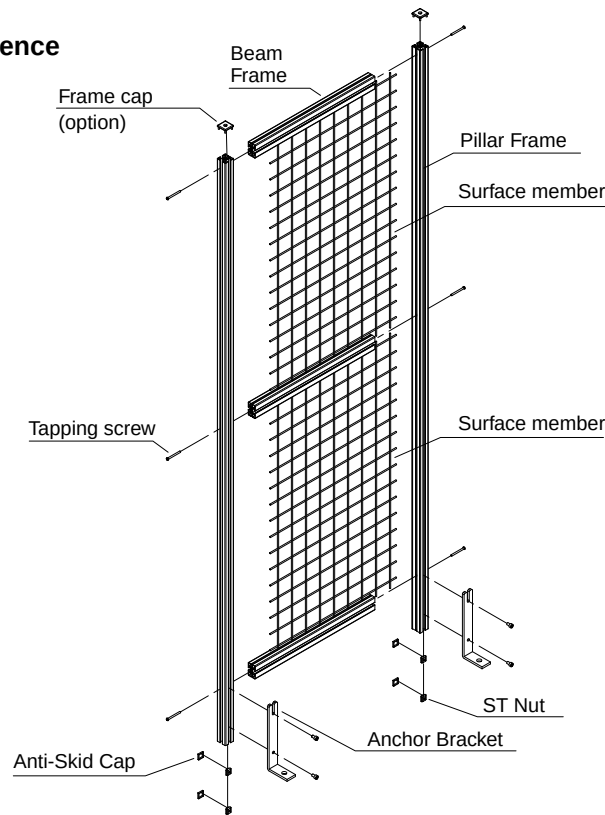
* If the anchor is incorrectly set, the strength of safety fence may be affected. Please note.

Technical Data

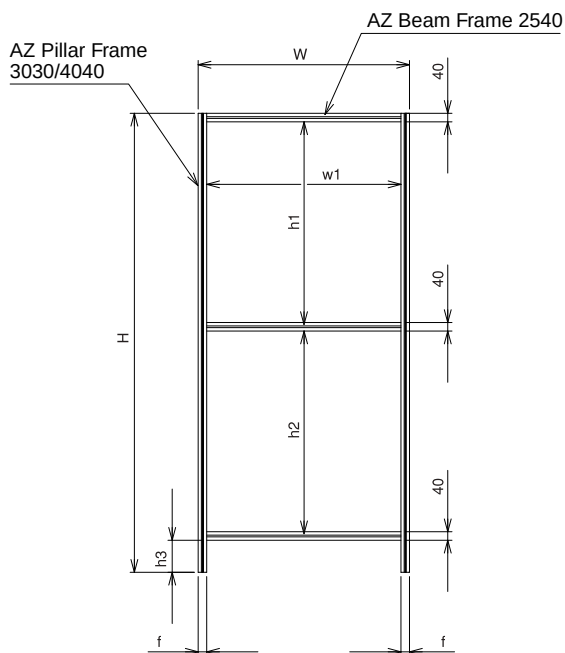
Dimension material

Dimension material

Structural drawing of a fence



AZ frame process drawing



● Dimension of AZ beam frame 2540

$$L_b = W - f - f + 2$$

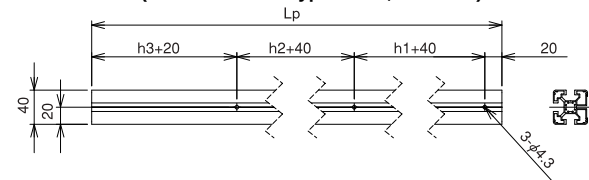
* f indicates AZ pillar frame 303030
AZ pillar frame 404040

● Dimension of AZ pillar frame 3030/4040

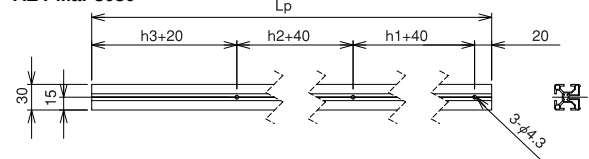
$$L_p = H$$

* Hole processing is as per the following drawing

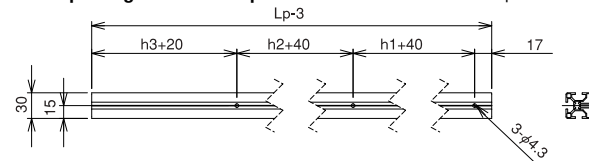
AZ Pillar 4040 (For the connect type frame, see P233)



AZ Pillar 3030



When placing the frame cap flush with the surface ※AZ pillar 3030 only



Method of calculating panel dimensions

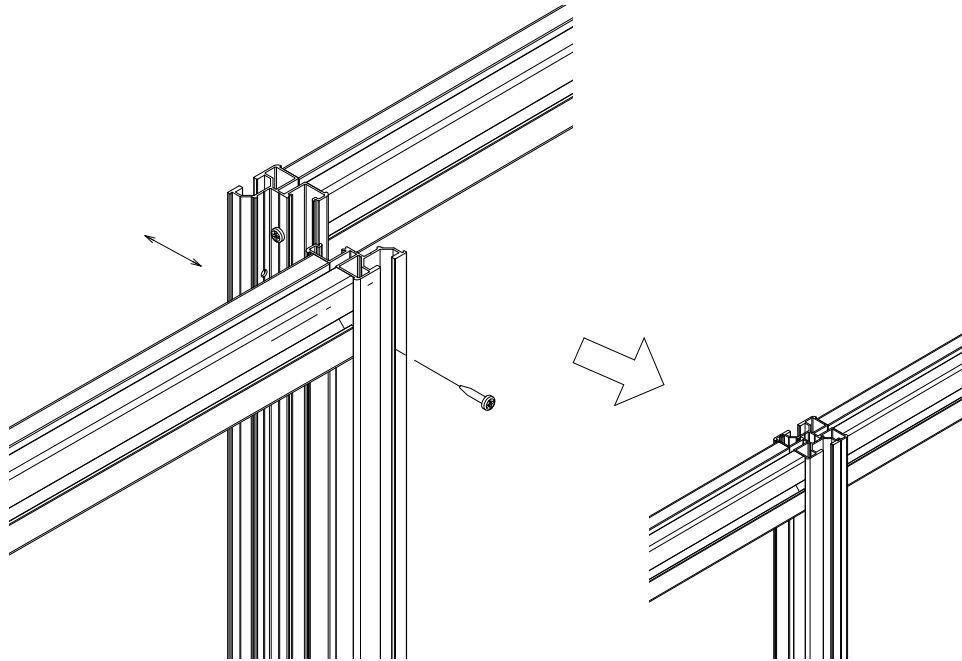
Panel type	Wire mesh	Resin panel
Height h/h2	h1 (h2)+23	h1 (h2)+21
Width w1	w1+25	w1+23

⚠ Caution

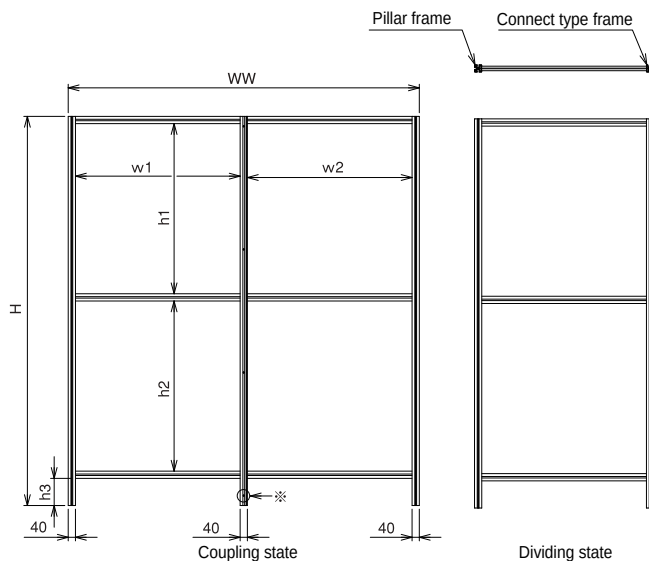
The guideline for the W dimension is 300~2000 <1500> mm or so.
Figures in < > are for the pillar frame 3030. The guideline for H dimension is h1 (h2) dimension of 940 or less and maximum 2500mm.
(However, for cases of 2150mm or more, please contact us.)
When there is one surface member, please calculate assuming no h2.

Dimension material

Connect type frame diagram



AZ frame process drawing (articulating)



* If there is interference with the nut at the time of anchor mounting, screwing is not necessary. Please process as necessary.
* To fix the 40 square consolidated type, a C-Type anchor bracket is recommended.

AZ Pillar 4040 coupling frame machining dimension

Lp	a	b	c
2150~1700	50	5	6
1699~1301	50	4	5
1300~1170	60	3	4

● Dimension of AZ beam frame 2540

$$Lb = (WW - 120) / 2 + 2$$

However, when w1 and w2 are not equal,

$$Lb1 = w1 + 2$$

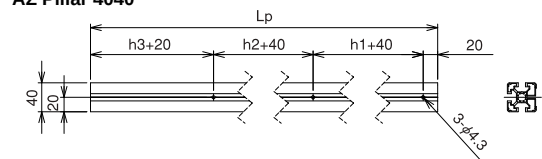
$$Lb1 = w2 + 2$$

● Dimension of AZ pillar frame 4040 (integrated and articulating)

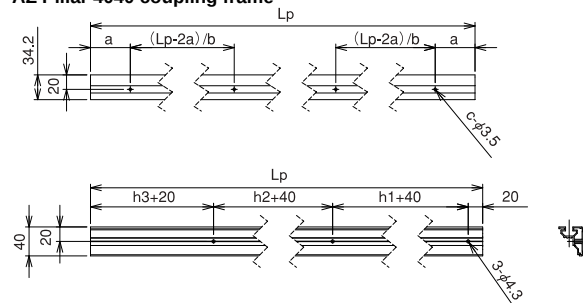
$$Lp = H$$

* Hole processing is as per the following drawing

AZ Pillar 4040



AZ Pillar 4040 coupling frame

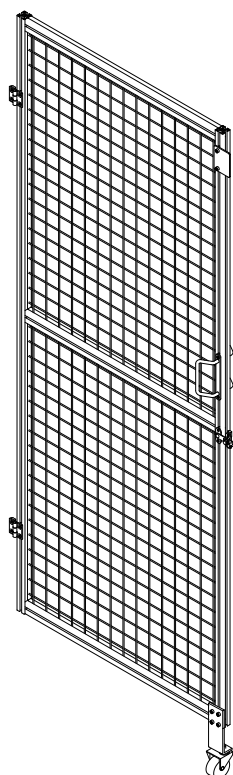


⚠ Caution

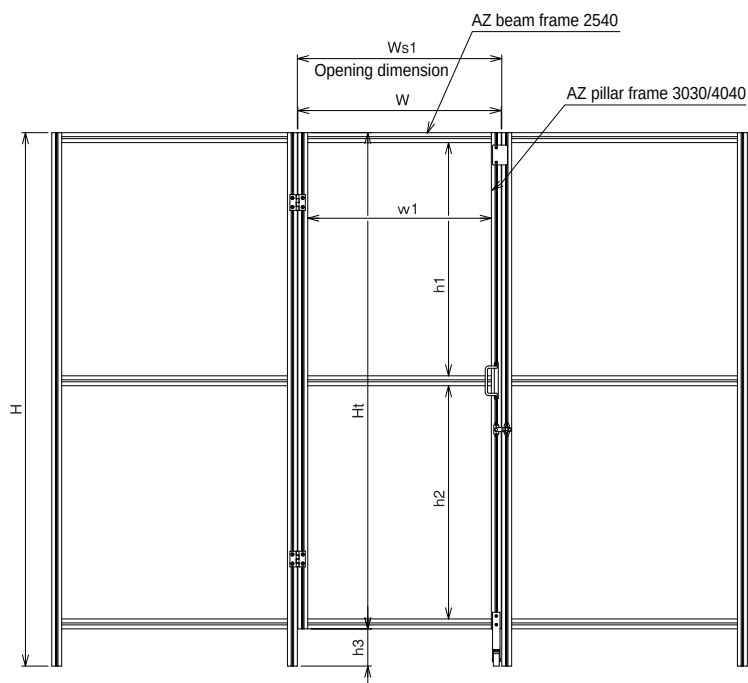
The guideline for the WW dimension is 600~1940mm or so.
The guideline for the H dimension is that h1(h2) dimension of 940 or less and a maximum of 2500mm.
(However, for cases of 2150mm or more, please contact us.)
When there is one surface member, please calculate assuming no h2.

* For wire mesh/panel dimension, please see P237.

Open door diagram



AZ frame process drawing (open door)



- Dimension of AZ beam frame 2540

$$L_b = W - f - f + 2$$

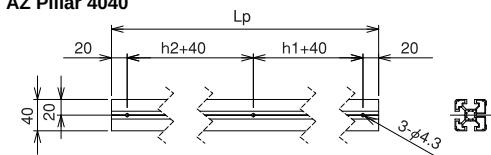
* f indicates AZ pillar frame 303030
AZ pillar frame 404040

- Dimension of AZ pillar frame 3030/4040

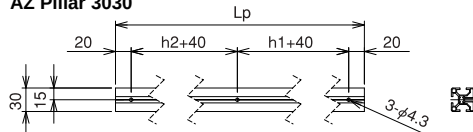
$$L_p = H - h_3$$

* Hole processing is as per the following drawing

AZ Pillar 4040

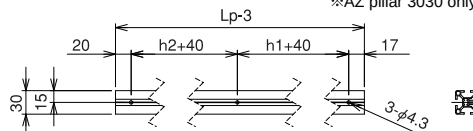


AZ Pillar 3030



When placing the frame cap flush with the surface

※AZ pillar 3030 only



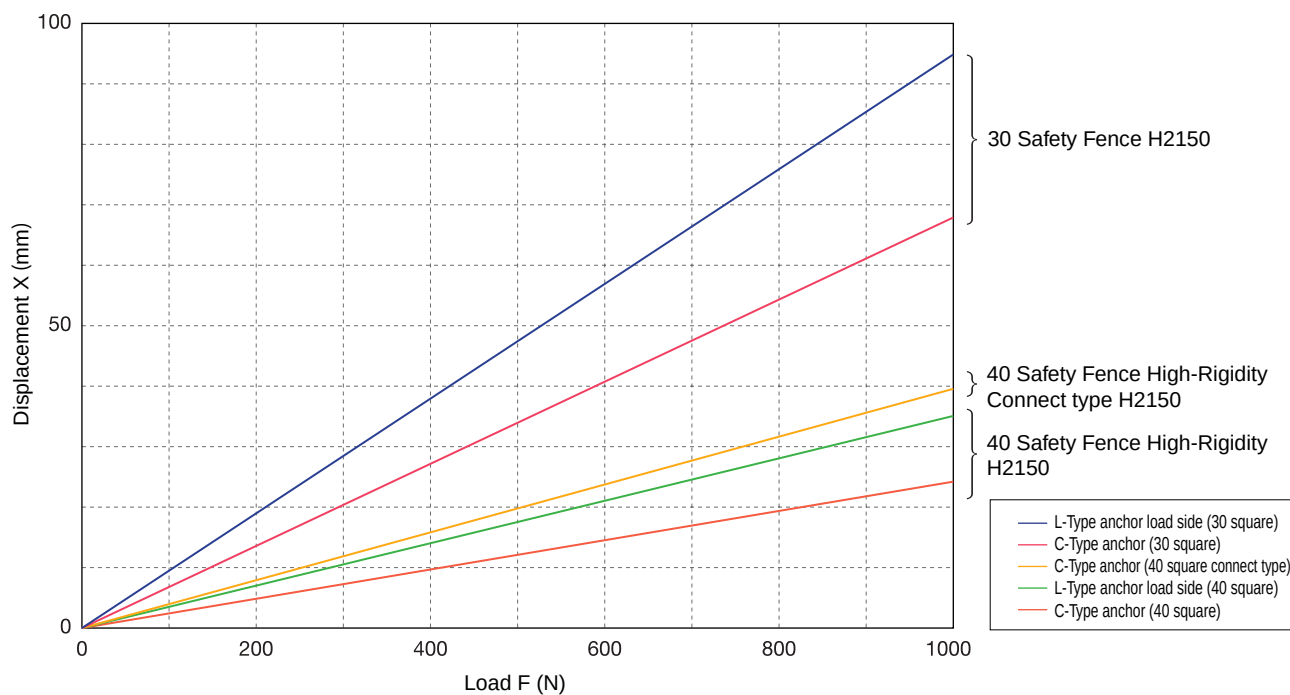
⚠ Caution

For the door dimension W for the opening dimension Ws1, please refer to the guideline for frame door mounting in the catalogue. The guideline for the door dimension is the same as for the fence. The machining dimension of the surface member is the same as the fence.

* For wire mesh/panel dimension, please see P237.

AZ strength data

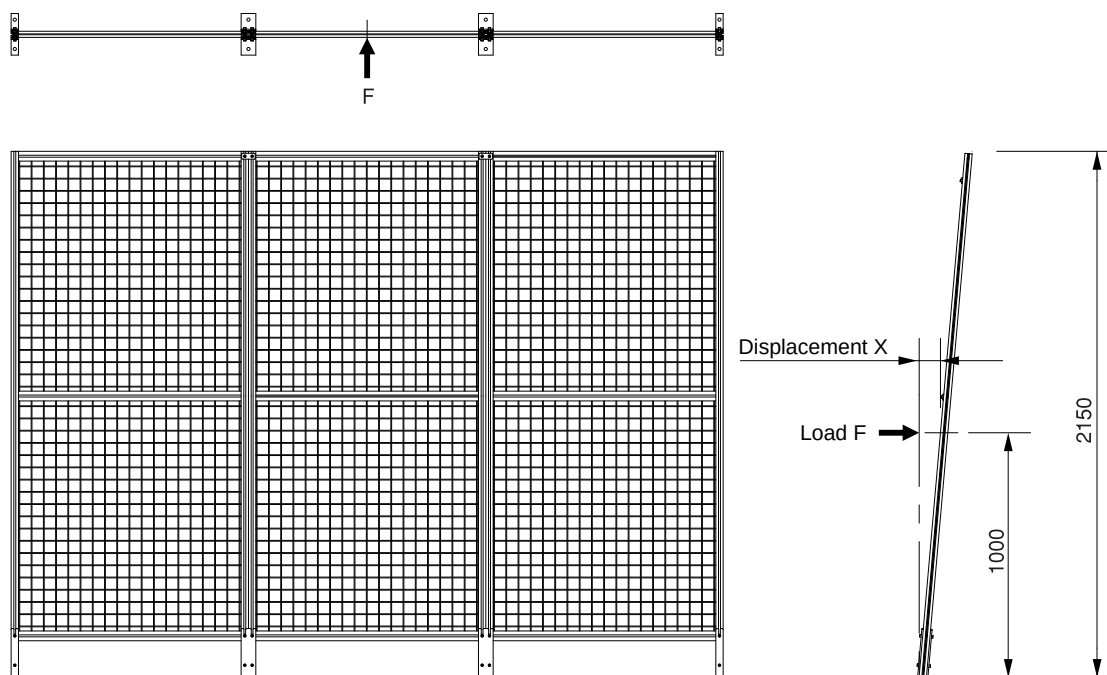
Guideline to deflect the safety fence frame



Frame	30 Safety Fence		40 Safety Fence High-Rigidity		40 Safety Fence High-Rigidity Connect
Anchor	L-Type anchor (Load side only)	C-Type anchor	L-Type anchor (Load side only)	C-Type anchor	C-Type anchor
Load F (N)	Displacement X (mm)				
0	0	0	0	0	0
200	19	12	8	5	8
400	38	26	15	10	16
600	57	40	22	15	24
800	76	54	28	19	31
1000	95	68	35	24	39

AZ strength data

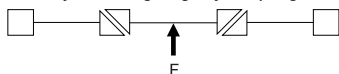
Test procedures/conditions



Test conditions

1. 30 safety fence/40 safety fence high-rigidity/40 safety fence high-rigidity coupling each of the H2150 type (upper/lower wire mesh Pitch 50) inspected by connecting the three sides.
2. For the connection, attach the anchor bracket L-type 2-piece or the anchor bracket C-type 2-piece to the coupling plate at the top.
3. For the anchor brackets, use anchors with an M10 screw thread 15mm deep and fix with bolts.

*1 40 safety fence high-rigidity coupling shall be coupled as in the following drawing.



Test procedures

1. Horizontally add static load to the position of center of width direction/height 1000mm.
2. Measure displacement X when adding Load F.



Technical Data

Safety distance material

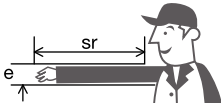
Safety distance of arms (at high risk) (JIS B9709 ISO 13852)

Unit/mm

	Height of protective structure									
	1000	1200	1400	1600	1800	2000	2200	2400	2500	2700
Height of danger zone	Horizontal distance to danger zone									
2700	—	—	—	—	—	—	—	—	—	—
2600	900	800	700	600	600	500	400	300	100	—
2400	1100	1000	900	800	700	600	400	300	100	—
2200	1300	1200	1000	900	800	600	400	300	—	—
2000	1400	1300	1100	900	800	600	400	—	—	—
1800	1500	1400	1100	900	800	600	—	—	—	—
1600	1500	1400	1100	900	800	500	—	—	—	—
1400	1500	1400	1100	900	800	—	—	—	—	—
1200	1500	1400	1100	900	700	—	—	—	—	—
1000	1500	1400	1000	800	—	—	—	—	—	—
800	1500	1300	900	600	—	—	—	—	—	—
600	1400	1300	800	—	—	—	—	—	—	—
400	1400	1200	400	—	—	—	—	—	—	—
200	1200	900	—	—	—	—	—	—	—	—
0	1100	500	—	—	—	—	—	—	—	—

Safety distance extending through opening part of protective structure (part of arm)

Unit/mm

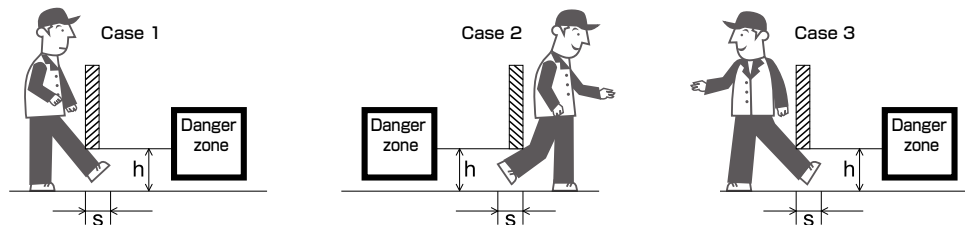
Body part	Illustration	Opening	Safety distance sr		
			Rectangle	Square	Circle
Arm from base of shoulder		$30 < e \leq 40$ ($20 < e \leq 30$)	≥ 850 (≥ 900)	≥ 200 (≥ 550)	≥ 120 (≥ 120)
		$40 < e \leq 120$ ($30 < e \leq 100$)	≥ 850 (≥ 900)	≥ 850 (≥ 900)	≥ 850 (≥ 900)

* For values in (), the assumption is a person aged between 3 and 14.

Safe distance of the legs (JIS B9708 ISO 13853)

Unit/mm

Height up to the structure to protect	Safety distance for inhibition S		
	Case 1	Case 2	Case 3
$h \leq 200$	≤ 340	≤ 665	≤ 290
$200 < h \leq 400$	≤ 550	≤ 765	≤ 615
$400 < h \leq 600$	≤ 850	≤ 950	≤ 800
$600 < h \leq 800$	≤ 950	≤ 950	≤ 900
$800 < h \leq 1000$	≤ 1120	≤ 1195	≤ 1050



Minimum clearance to prevent crushing (JIS B9711 ISO 13854)

Unit/mm

Body part	Body	Head	Legs	Feet	Toes	Arms	Wrists	Fingers
Minimum clearance	500	300	180	120	50	120	100	25

AZ Safety Fence			
30 Series	40 Series	Common Parts	Technical Data

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SUS BKK Delivery Policy

Remark

Delivery lead time is counted from the next day of PO receipt date.

Received PO before midnight is counted as an order on the day.

Delivery leadtime does not include company holidays.

Delivery to customers in some rural areas require longer lead time than below.

Item			Quantity	Leadtime
SF, AZ	Frame	L=4000 or Cutting Size	less than 20pcs	1 Working Day
			less than 50pcs	2 Working Days
		with Standard Process	less than 20pcs	2 Working Days
			less than 50pcs	3 Working Days
	Parts	No Process	less than 200pcs	1 Working Day
			less than 500pcs	2 Working Days
	Assembly Order			Need to be confirmed individually

Item			Quantity	Leadtime
Panel	Resin Panel	with Standard Process	less than 20pcs	3 Working Days
	Wooden Board	with Standard Process	less than 20pcs	3 Working Days
	Metal Panel			Need to be confirmed individually

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