



QUICK JOINT RACKING SYSTEM

ISO 9001/ ISO 14001/ ISO 45001 Certified

G.S.ACE INDUSTRY

is the only pipe rack manufacturer in Korea
equipped with comprehensive production systems
ranging from parts production to assembly



QUICK JOINT RACKING SYSTEM

Characteristic of Aluminum Quick Joint Racking System



25% assembly time reduction

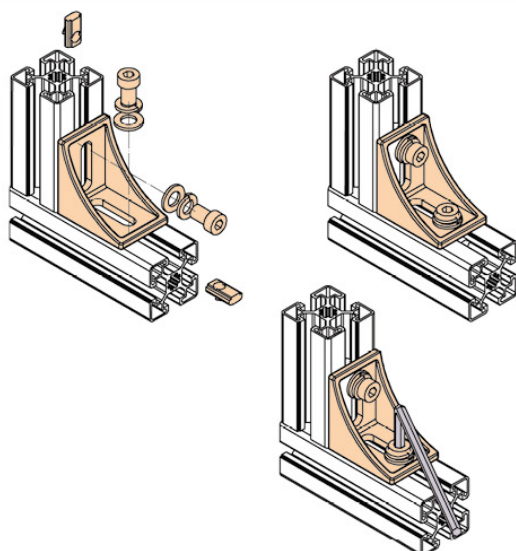
Easy assembly than other Profile Bracket
(Improve Work efficiency for simple & quick
connection without additional parts & process)



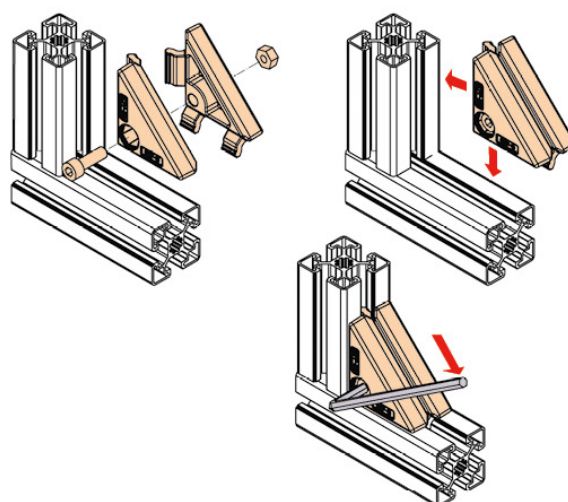
Common assembly for 8mm, 10mm Slot

Common assembly for even different T hole

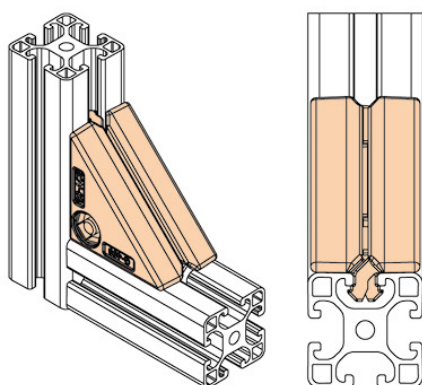
EXISTING BRACKET ASSEMBLY



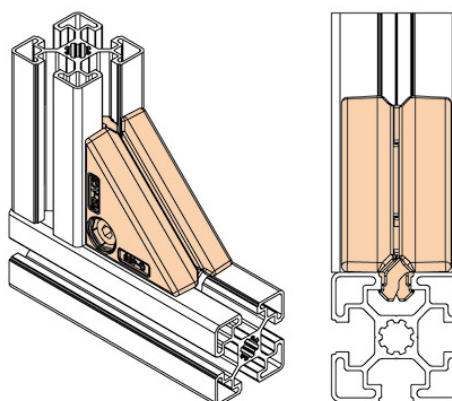
NEW QUICK JOINT ASSEMBLY



8mm T hole assembly



10mm T hole assembly



40X40 & 45X45

→ ALL

Possible to use whole Profile for 8mm/10mm Slot

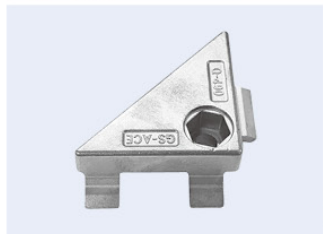
QUICK JOINT RACKING SYSTEM



Q-490

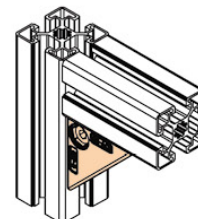
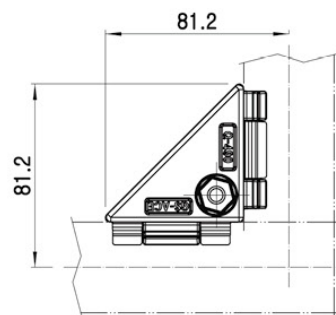
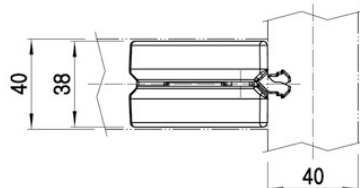
90° Quick Joint

ALL Possible to use all kinds of Profile

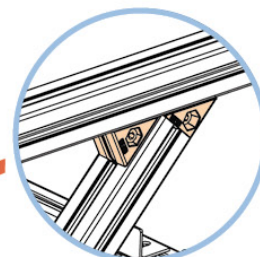
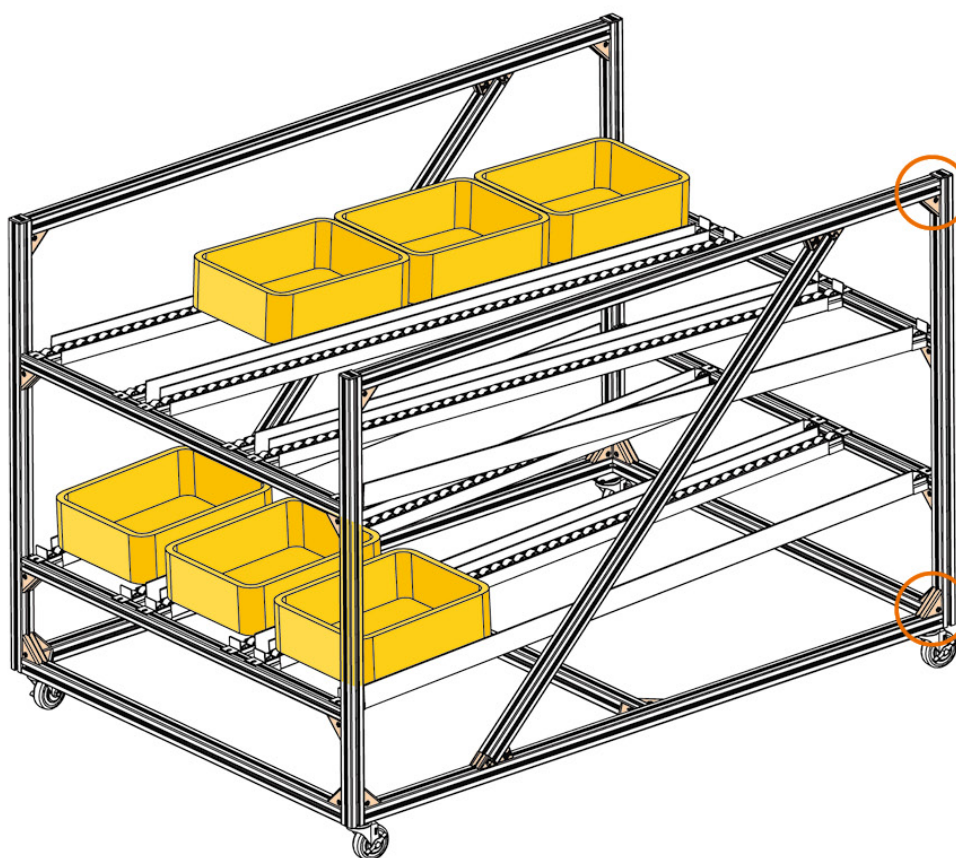


- Weight: 0.076kg
- Q'ty/Box : 60pcs

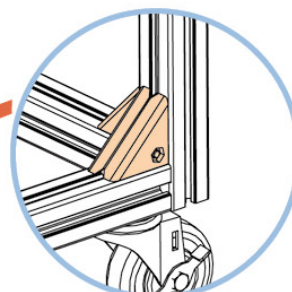
- Q-490 : 2pcs
- M0825/N08 : 1set
- Weight: 0.170kg
- Q'ty/Box : 30set



EXAMPLE OF USING QUICK JOINT



| 45° Quick Joint assembly



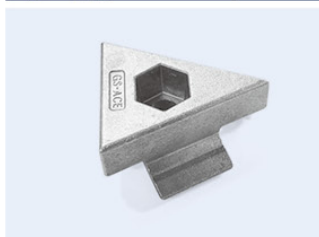
| 90° Quick Joint assembly

QUICK JOINT RACKING SYSTEM

NEW

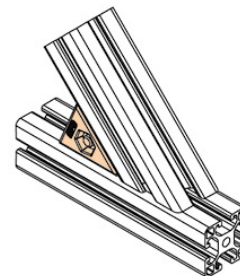
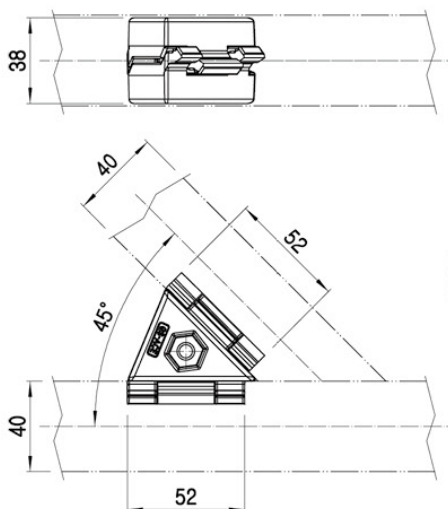
Q-445

45° Quick Joint **ALL** Possible to use all kinds of Profile



- Weight : 0.076kg
- Q'ty/Box : 80pcs

- Q-445 : 2pcs
- M0825/N08 : 1set
- Weight : 0.121kg
- Q'ty/Box : 40set



NEW

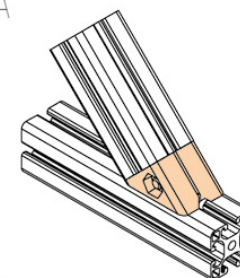
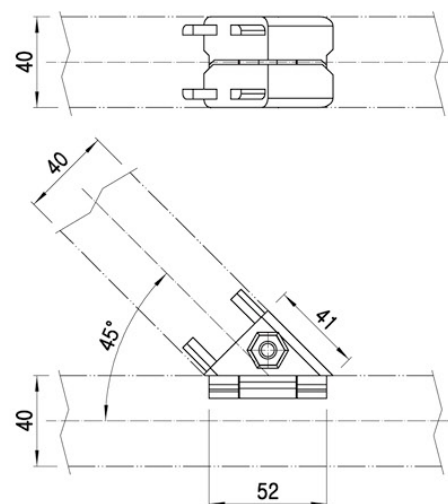
Q-413L / R

45° Quick Joint (Only 40X40)



- Weight : 0.037kg
- Q'ty/Box : 120pcs

- Q-413L/R : 1set
- M0825/N08 : 1set
- Weight : 0.095kg
- Q'ty/Box : 60set



NEW

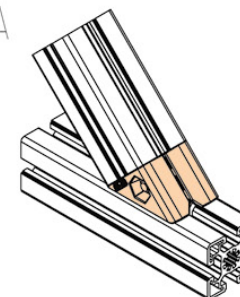
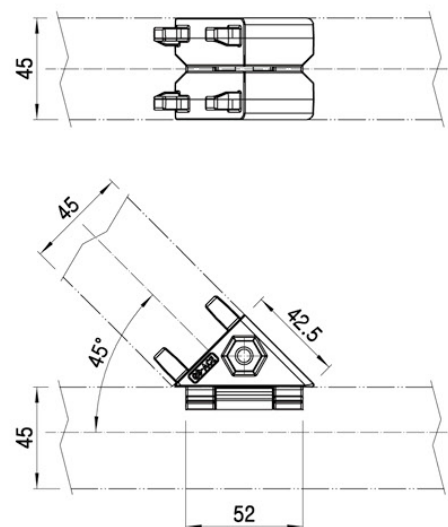
Q-513L/R

45° Quick Joint (Only 45X45)



- Weight : 0.076kg
- Q'ty/Box : 80pcs

- Q-513L/R : 1set
- M0825/N08 : 1set
- Weight : 0.125kg
- Q'ty/Box : 40set

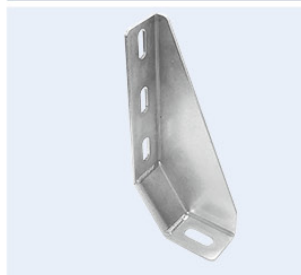


QUICK JOINT RACKING SYSTEM

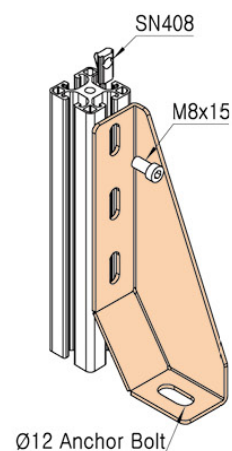
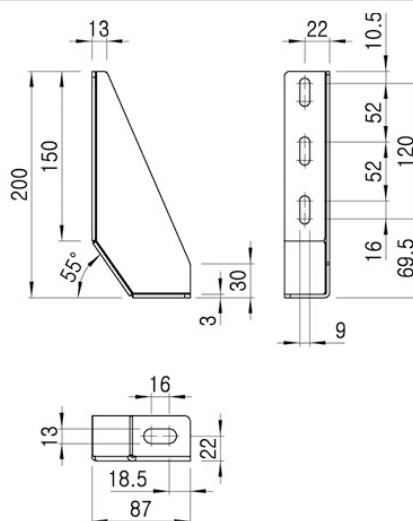


A40-306A

Foundation Bracket

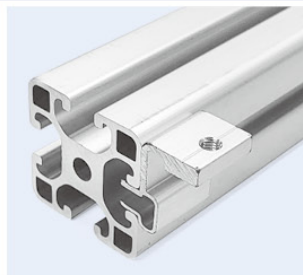


- Weight : 0.432kg
- Q'ty/Box : 40pcs

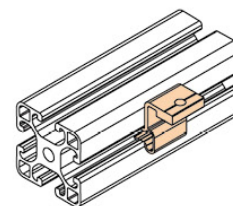
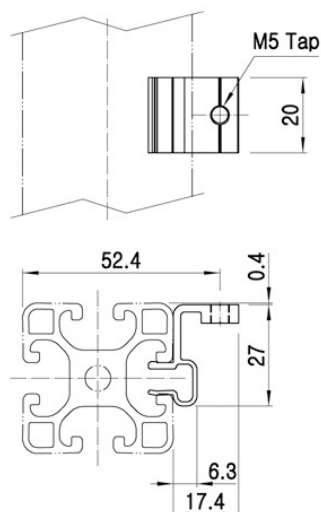


A40-309A

Aluminum Panel Bracket (Only 40X40)



- Weight : 0.007kg
- Q'ty/Box : 400pcs

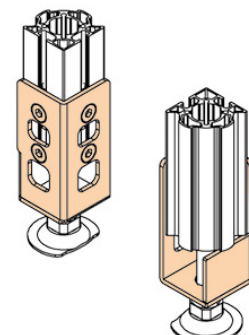
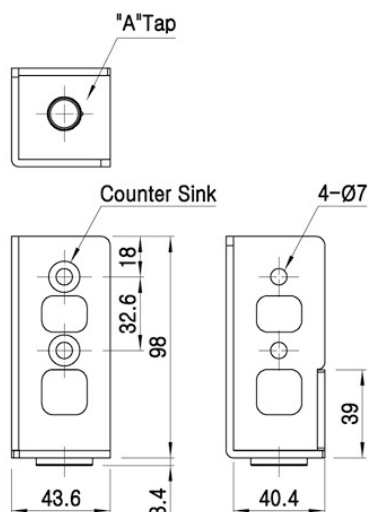


A40-310A/B

Threaded Insert Bracket (Only 40X40)



- Weight : 0.236kg/m
- Q'ty/Bundle : 48pcs



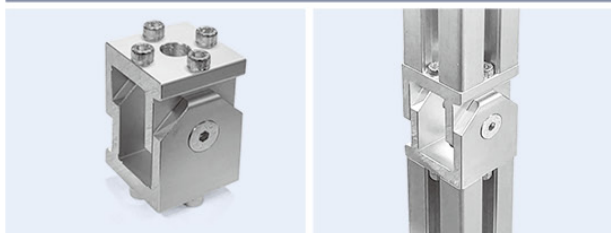
Part No.	*A*Tap	Remark
A40-310A	1/2"-12N	
A40-310B	M12-P1.75	

QUICK JOINT RACKING SYSTEM

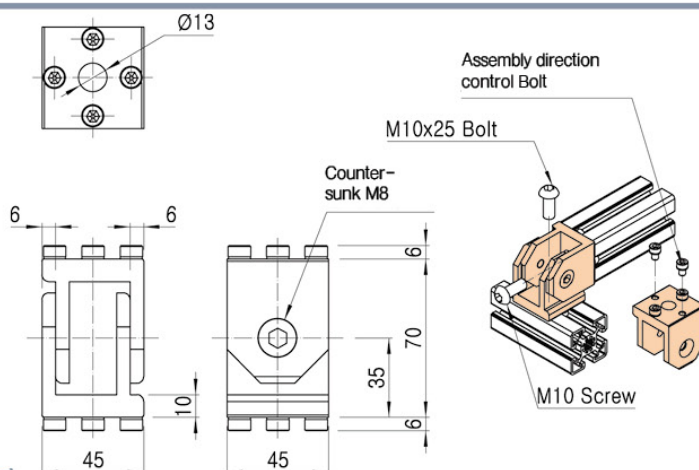
NEW

A45-A301

Aluminum Pivot Joint (Only 45X45)



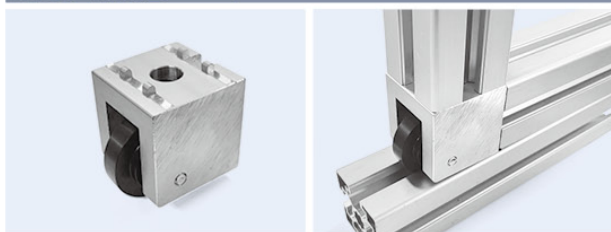
- Weight : 0.252kg
- Q'ty/Box : 30pcs



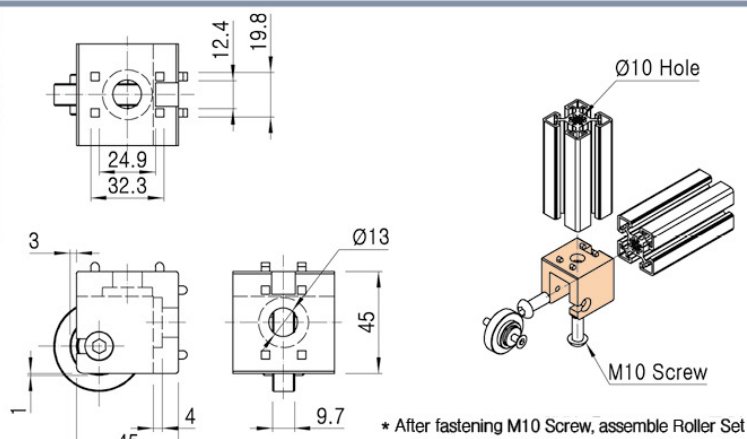
NEW

A45-A302

Sliding Door Guide Ass'y (Only 45X45)



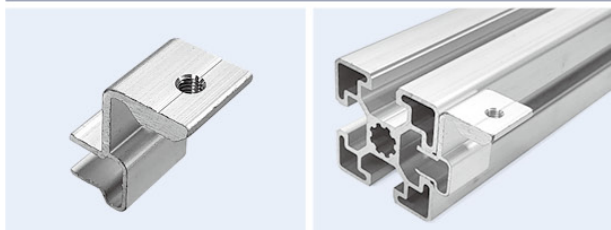
- Weight : 0.190kg
- Q'ty/Box : 50pcs



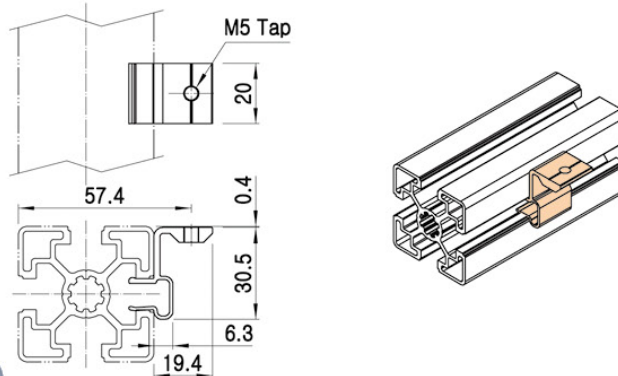
NEW

A45-309A

Aluminum Panel Bracket (Only 45X45)



- Weight : 0.008kg
- Q'ty/Box : 400pcs



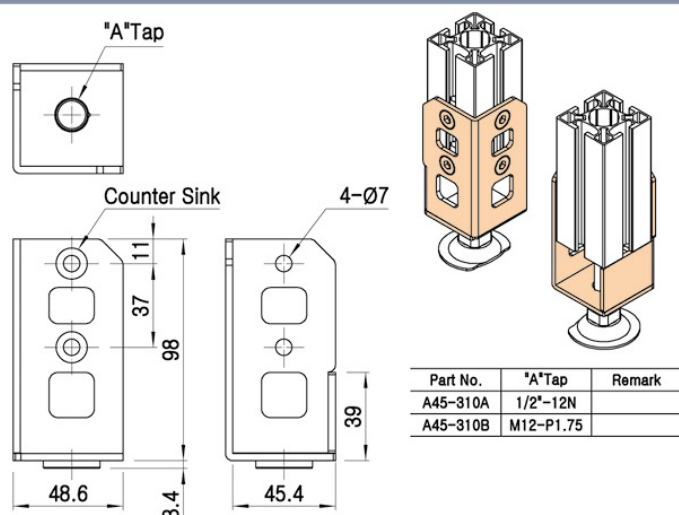
NEW

A45-310A/B

Threaded Insert Bracket (Only 45X45)



- Weight : 0.236kg
- Q'ty/Box : 48pcs

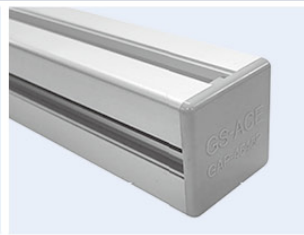


Part No.	'A' Tap	Remark
A45-310A	1/2"-12N	
A45-310B	M12-P1.75	

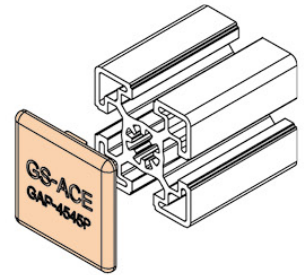
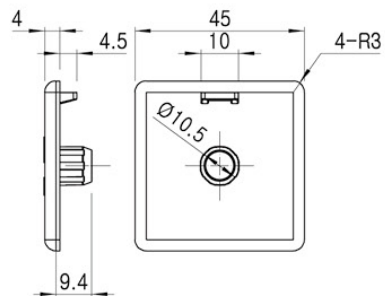
QUICK JOINT RACKING SYSTEM



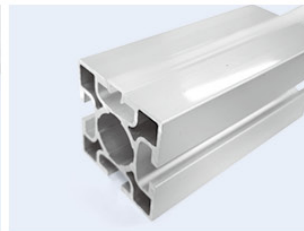
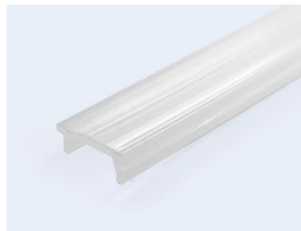
GAP-4545P Inner Cap (Only 45X45)



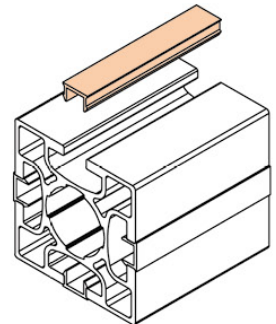
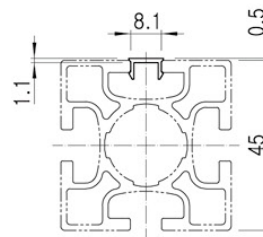
- Weight : 0.37kg
- Q'ty/Box : 120pcs



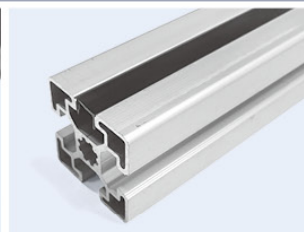
APC-45A Slot Cover for 45x45



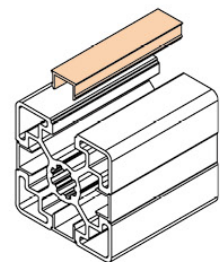
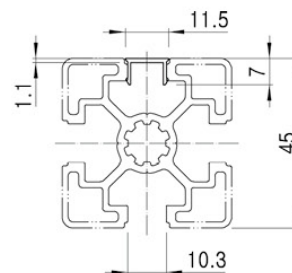
- Weight : 0.045kg/m
- Q'ty/Bundle : 100pcs
- Standard supply length



APC-50A Groove Cover (Only 10mm T-Slot)

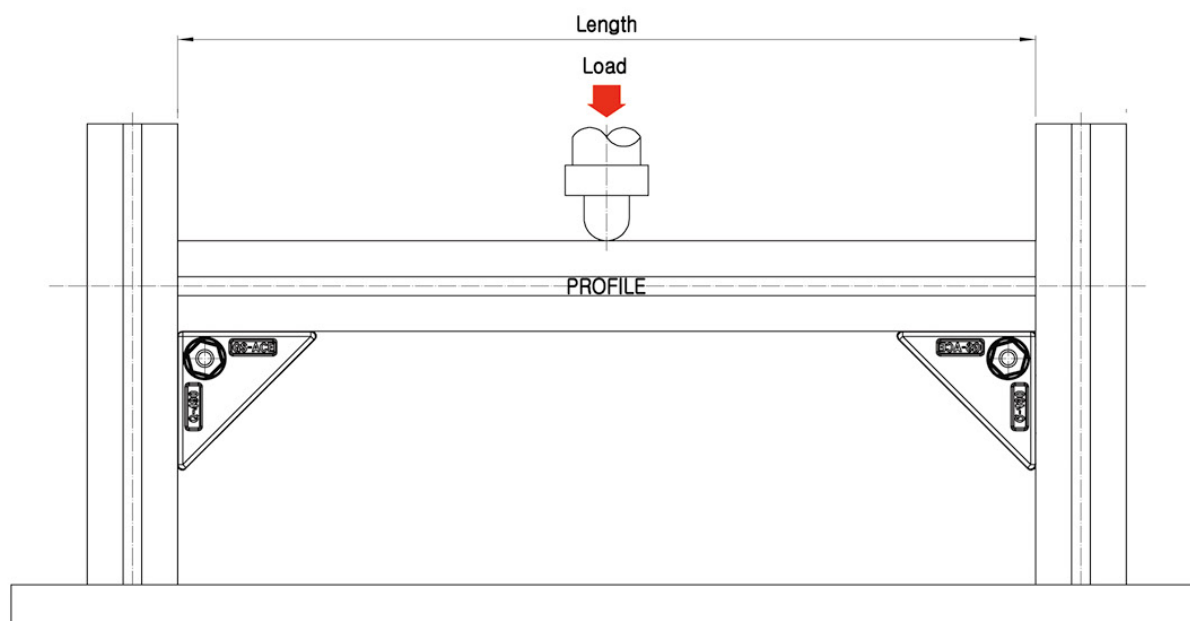


- Weight : 0.024kg/m
- Q'ty/Bundle : 50pcs
- Standard supply length

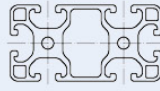
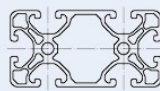


QUICK JOINT RACKING SYSTEM

PIPE BENDING STRENGTH



※ 모든 PROFILE은 Quick Joint (Q-490)을 체결하여 측정한 결과임.

External Size	Part No.	TYPE		L = 500mm		L = 1,000mm		Weight (g/m)	Second Section Moment (x10 ⁴ mm ⁴)	Applied Joint
				Recommended Load (2.5mm Deflection)	Elastic Limit (Yield Load)	Recommended Load (5mm Deflection)	Elastic Limit (Yield Load)			
40X40	P4040A			360	1,650	160	560	1,670	lx: 8.37 ly: 8.37	Q-490
40X80	P4080A		X→	540	2,250	330	1,510	3,076	lx: 16.74 ly: 69.62	Q-490
			Y↓	580	2,480	245	1,250			
	P4080B		X→	330	2,160	350	1,260	2,443	lx: 15.67 ly: 58.34	Q-490
			Y↓	540	2,180	230	900			
45X45	P4040A			370	1,580	160	600	1,554	lx: 11.18 ly: 11.18	Q-490
	P4040B			360	1,630	160	700	1,497	lx: 10.54 ly: 10.54	Q-490
	P4040C			340	1,760	170	840	2,010	lx: 14.01 ly: 14.01	Q-490

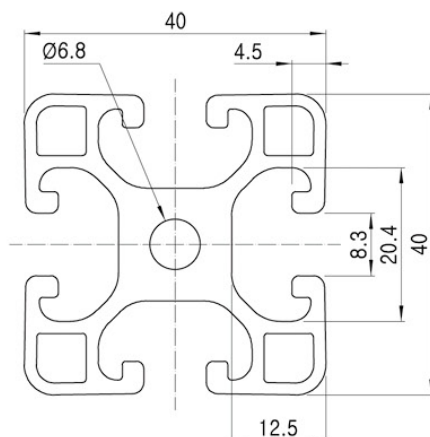
QUICK JOINT RACKING SYSTEM

P4040A

40X40 Aluminum Profile



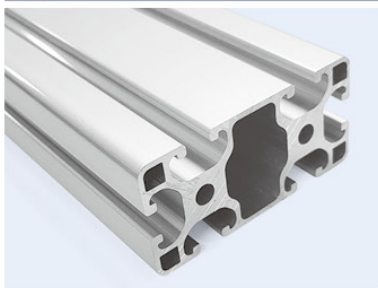
- Weight : 1.607kg/m
- Supply length : 4MT/6MT



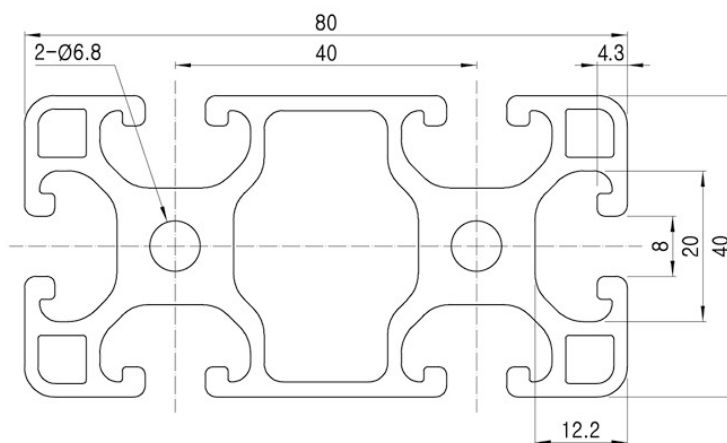
NEW

P4080A

40X80 Aluminum Profile



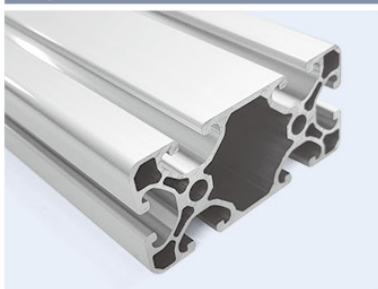
- Weight : 3.076kg/m
- Supply length : 4MT/6MT



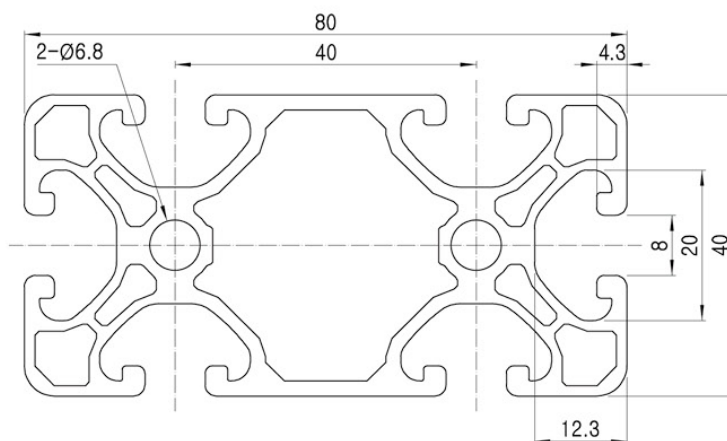
NEW

P4080B

40X80 Aluminum Profile



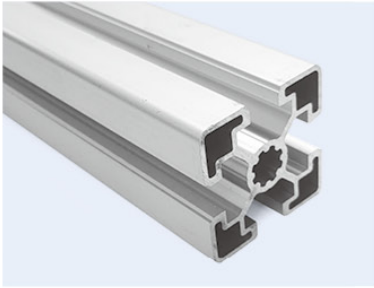
- Weight : 2.443kg/m
- Supply length : 4MT/6MT



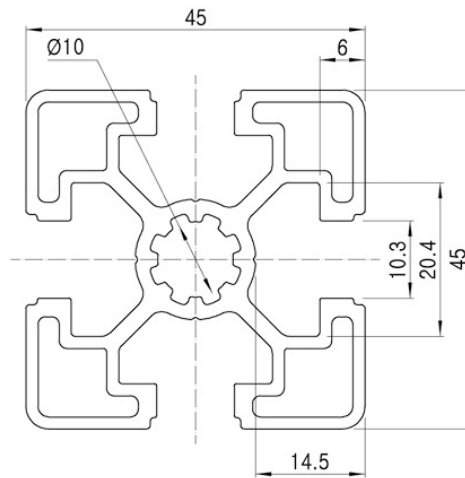
QUICK JOINT RACKING SYSTEM

P4545A

45X45 Aluminum Profile

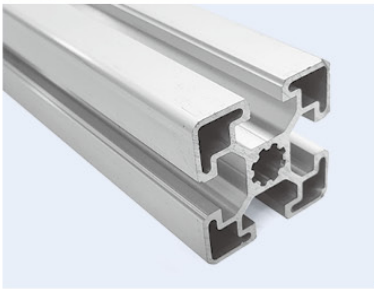


- Weight : 1.554kg/m
- Supply length : 4MT/6MT

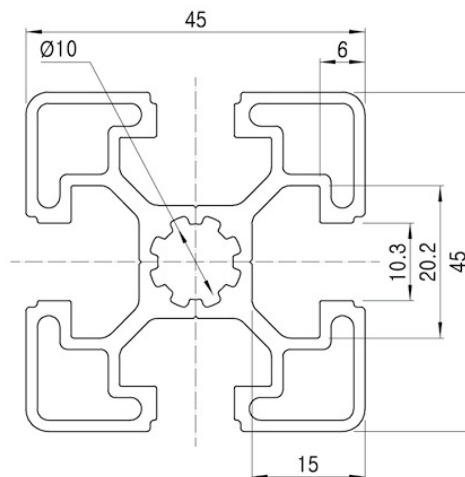


P4545B

45X45 Aluminum Profile

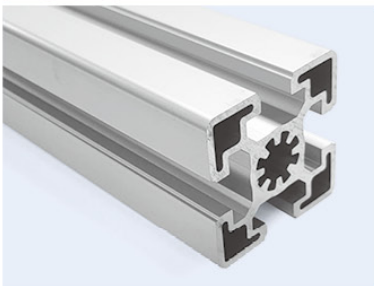


- Weight : 1.497kg/m
- Supply length : 4MT/6MT

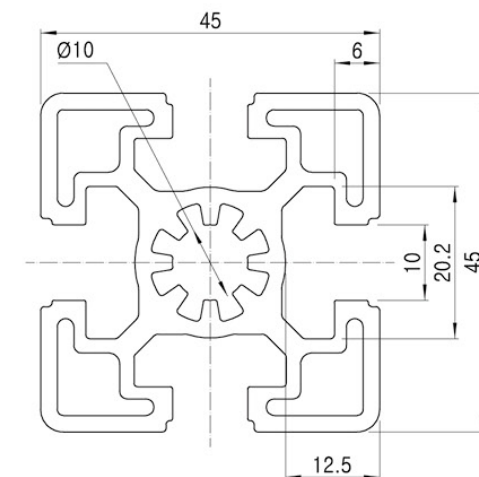


P4545C

45X45 Aluminum Profile



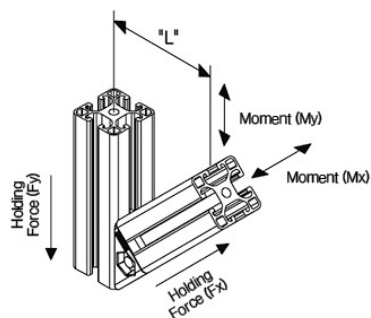
- Weight : 2.010kg/m
- Supply length : 4MT/6MT



QUICK JOINT RACKING SYSTEM

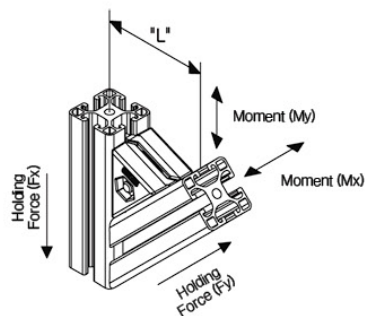
JOINT HOLDING FORCE & MOMENT

QA-413



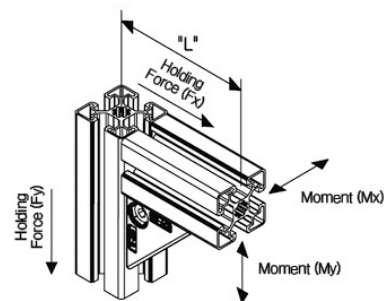
Holding Force (kgf)	F_x	80
	F_y	200
Moment (kgf) (L=110mm)	M_x	50
	M_y	200

QA-445



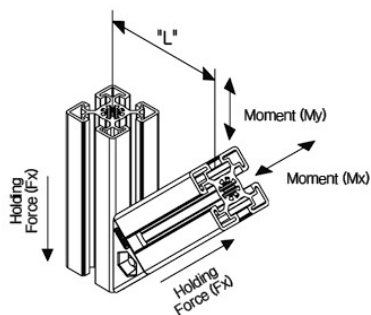
Holding Force (kgf)	F_x	200
	F_y	400
Moment (kgf) (L=110mm)	M_x	100
	M_y	300

QA-490



Holding Force (kgf)	F_x	400
	F_y	400
Moment (kgf) (L=110mm)	M_x	100
	M_y	300

QA-513



Holding Force (kgf)	F_x	150
	F_y	200
Moment (kgf) (L=110mm)	M_x	60
	M_y	180



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