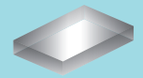
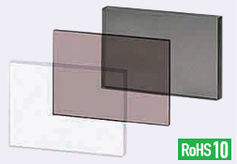
Polycarbonate Plates



■Has the highest level of impact strength among the transparent plastic materials (30 times stronger than Acrylic) and also excels in heat-resistance and cold-resistance.

■Standard Type

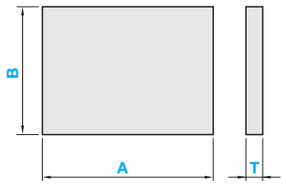


Type	Ⓜ Grade	Color	Light Transmittance	Operating Ambient Temperature
PCTA	Standard	Transparent	90%	-30~100°C
PCTBA	Standard	Smoke Brown	35%	
PCTGA	Standard	Smoke Gray	33%	
PCTTA	Antistatic	Transparent	86%	
PCTBTA	Antistatic	Smoke Brown	35%	
PCTSP	Abrasion-resistant	Transparent	91%	

T Dimension Tolerance	
T	T Dimension Tolerance
3~6	±0.5
8・10	±1.0

・Dimension Tolerance of A and B ±1.0

Finish	4 Sides		Upper-lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	√	Material	~



Ⓨ A≥B

Part Number	A	B	T
Standard Size	1mm Increment		Selectable
PCTA (Standard, Transparent)	20~1200	20~1000	3, 4, 5, 6, 8, 10
PCTBA (Standard, Smoke Brown) PCTGA (Standard, Smoke Gray) PCTTA (Antistatic, Transparent) PCTBTA (Antistatic, Smoke Brown) PCTSP (Abrasion Resistance, Transparent)			3, 5
Large Size			
L-PCTA (Standard, Transparent))	1201~2000	20~1000	3, 5
L-PCTBA (Standard, Smoke Brown) L-PCTGA (Standard, Smoke Gray) L-PCTTA (Antistatic, Transparent) L-PCTBTA (Antistatic, Smoke Brown) L-PCTSP (Abrasion Resistance, Transparent)			

Ⓨ For T0.5 ~ 2.0, see **P.973**.

Ordering Example

■Standard Size

Part Number - A - B - T

PCTA - 1200 - 800 - 8

■Large Size

Part Number - A - B - T

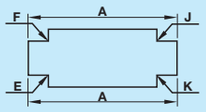
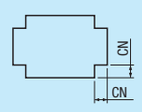
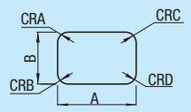
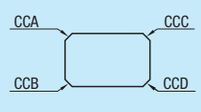
L-PCTSP - 1300 - 800 - 3

■Large Size

Alterations

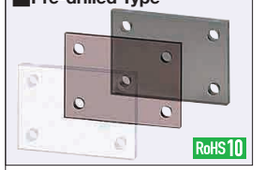
Part Number - A - B - T - (CRA, CRB ··· etc)

PCTA - 200 - 200 - 5 - CRA5

Alterations	Notching for Blind Joints of Aluminum Extrusions	Relief at Four Corners	Corner Radius	Corner Cut
				
Code	F□□, E□□, J□□, K□□	CN	CRA, CRB, CRC, CRD	CCA, CCB, CCC, CCD
Spec.	Machines relief for blind joints of aluminum extrusions. Ⓨ Margin against thermal expansion of the plate is not taken into account. Ⓨ Longitudinal direction of notching is all on A dimension side. Ⓨ Applicable to standard sizes only. ⊗ Not applicable to T=8. Ordering Code F S 6 Extrusion Type Joint Type Notching Position (See the diagram above)	CN=1mm Increment Machines relief at four corners. Ⓨ 5≤CN≤50 Ⓨ Applicable to standard sizes only. Ordering Code CN=25 ··· CN25	Adds radius to any corner. R = 5mm Increment Ⓨ 10≤A(B)-R(2R) Ⓨ 5≤CRA, CRB, CRC, CRD≤100 Ordering Code (Ex.)Adds R10 at the corner of A and C. CRA10-CRC10 Ⓨ Applicable to standard sizes only.	Cuts any corners. 5 ≤ Corner Cut ≤ 50 5mm Increment Ordering Code (Ex.)When the corners of A and D are cut by C5···› CCA5-CCD5 Ⓨ Applicable to standard sizes only.

Ⓨ For details of notching alterations for blind joint of aluminum frames, refer to **P.950**.

■Pre-drilled Type



Type	Ⓜ Grade	Color	Light Transmittance	Operating Ambient Temperature
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PCTBTA	Antistatic	Smoke Brown	35%	
PCTSP	Abrasion-resistant	Transparent	91%	

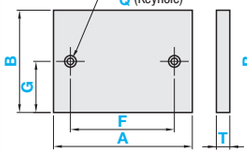
T Dimension Tolerance	
T	T Dimension Tolerance
3~6	±0.5
8, 10	±1.0

・Dimension Tolerance of A and B ±1.0

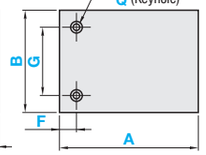
Finish	4 Sides		Upper-lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	√	Material	~

Ⓨ A≥B

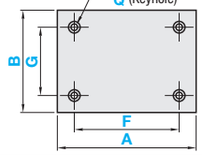
2H 2-Screw Nominal Dia. Selection
N (Through Hole)
P (Countersink)
M (Threaded Insert)
Q (Keyhole)



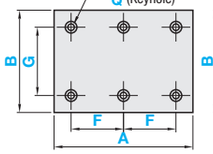
2HL 2-Screw Nominal Dia. Selection
N (Through Hole)
P (Countersink)
M (Threaded Insert)
Q (Keyhole)



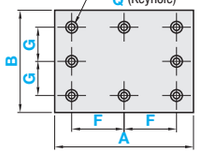
4H 4-Screw Nominal Dia. Selection
N (Through Hole)
P (Countersink)
M (Threaded Insert)
Q (Keyhole)



6H 6-Screw Nominal Dia. Selection
N (Through Hole)
P (Countersink)
M (Threaded Insert)
Q (Keyhole)

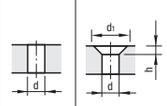


8H 8-Screw Nominal Dia. Selection
N (Through Hole)
P (Countersink)
M (Threaded Insert)
Q (Keyhole)



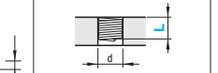
Hole Machining Details

N (Through Hole) P (Countersink)



Screw Nominal Dia.	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	11
d1	7.5	9.5	11.5	13.5	19	23
h	2	2.5	3	3.5	5	6

M (Threaded Insert)

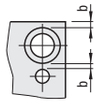


Ordering Code (Ex.) M4-L6
Ⓨ L ≤T-1
Ⓨ For details of threaded insert HLTS, see **P.271**

■Table 1

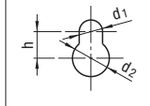
Screw Nominal Dia.	3	4	5	6	8
d	3.5	4.5	5.5	6.5	9
L	3	4	5	6	8
	4.5	6	7.5	9	
	6	8	10		

Hole Machining Conditions (N, P, M)



Nominal Dia.	b (Min. Value)
3~10	2.5

Q (Keyhole)

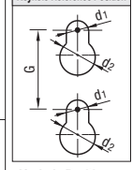


Keyhole Nominal Dia.	5	6	8
d1	6	7	9
d2	14	16	20
h	11	12	15

Ⓨ Use with flat washers (**P.237**) to prevent damage to the plastic.

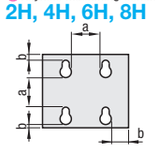
Hole Machining Conditions Q (Keyhole)

Keyhole Reference Position

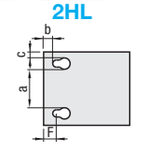


Ⓨ Keyhole Machining Conditions a≥5 b≥5 c≥5

2H, 4H, 6H, 8H



2HL



<Keyhole Position>
①: For 2H, the center of diameter d1 is consistent with G.
②: For 4H and 6H, the center of G dimension is consistent with the center of B dimension.
③: For 8H, the diameter d1 center of the middle Keyhole is consistent with the center of B dimension.
④: For 2HL, keyholes turn sideways and the center of diameter d1 is consistent with F.

■Pre-drilled Type

Part Number	Number of Holes	A	B	T Selection		F	G	Screw Nominal Dia. Selection				
								Through Hole	Countersink	Keyhole	Threaded Insert	
		1mm Increment		PCTA	Except PCTA	0.5mm Increment		N	P	Q	M	L
PCTA (Standard, Transparent)	2H (Horizontal) 2HL (Vertical) 4H 6H 8H	20 › 1200	20 › 1000	3	3	6~1191.5 (2H, 4H) 4.5~1195.5 (2HL) 6~595.5 (6H, 8H)	4.5~995.5 (2H) 6~991.5 (2HL, 4H, 6H) 6~495.5 (8H)	3 4 5 6 8 10	3	5 6 8	-	Select from Table 1
PCTBA (Standard, Smoke Brown)				4	-				3 4 5		3	
PCTGA (Standard, Smoke Gray)				5	5				3 4 5 6		3 4	
PCTTA (Antistatic, Transparent)				6	-				4 5 6		4 5	
PCTBTA (Antistatic, Smoke Brown)				8	-				4 5 6 8		4 5 6	
PCTSP (Abrasion Resistance, Transparent)				10	-				4 5 6 8 10		4 5 6 8	

Ⓨ Dimension F Specification Range: For 2H and 4H: d(d1)+2.5≤F≤A-d(d1)-5; for 2HL: d(d1)/2+2.5≤F≤A-d(d1)/2-2.5; For 6H and 8H: d(d1)+2.5≤F≤(A-d(d1)-5)/2.

Ⓨ Dimension G Specification Range: For 2H: d(d1)/2+2.5≤G≤B-d(d1)/2-2.5; for 2HL, 4H and 6H: d(d1)+2.5≤G≤B-d(d1)-5; For 8H: d(d1)+2.5≤G≤(B-d(d1)-5)/2. (d for through hole, d1 for countersink.)

■Pre-drilled

Ordering Example

Part Number - A - B - T - F - G - Screw Nominal Dia. - L

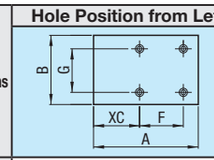
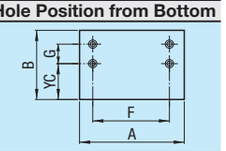
PCTA4H - 800 - 600 - 6 - F700 - G500 - P5

PCTA4H - 800 - 600 - 6 - F700 - G500 - M4 - L4

Alterations

Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC)

PCTA4H - 100 - 80 - 4 - F50 - G60 - N4 - XC10

Alterations	Hole Position from Left	Hole Position from Bottom
		
Code	XC	YC
Spec.	XC = 0.5mm Increment Ⓨ (2H, 4H Type) d(d1)/2+2.5≤XC≤A-F-d(d1)/2-2.5 Ⓨ (6H, 8H Type) d(d1)/2+2.5≤XC≤A-2F-d(d1)/2-2.5	YC = 0.5mm Increment Ⓨ d(d1)/2+2.5≤YC≤B-G-d(d1)/2-2.5 ⊗ Not available for 2H.