

Acrylic Plates (Economy)

Extruded Plates

MISUMI Acrylic Plates have two types: cast plates and extrusion plates.
 Features: Extruded plates: More inexpensive than cast plates. Cast Plates on **P.3078**: Excels in heat resistance and mechanical strength. For details of cast plates and extruded plates, refer to **P.3072**

Acrylic Plates Economy

RoHS 10

Type	Grade	Color	Light transmittance	Operating Ambient Temperature
ACAE ACBAE	Standard	Transparent	93%	-30~70°C
		Smoke Brown	34%	
ACTAE ACBTAE	Antistatic	Transparent	87%	-30~60°C
		Smoke Brown	25%	

Precision Standards
T Dimension Tolerance ±0.5
Dimension Tolerance of A & B ±1.0

Standard Type

Pre-Drilled Type 2H

2 - Bolt Nominal Diameter Selection

N (Through Hole)
P (Countersink)
Q (Keyhole)

4H

4 - Bolt Nominal Diameter Selection

N (Through Hole)
P (Countersink)
Q (Keyhole)

6H

6 - Bolt Nominal Diameter Selection

N (Through Hole)
P (Countersink)
Q (Keyhole)

8H

8 - Bolt Nominal Diameter Selection

N (Through Hole)
P (Countersink)
Q (Keyhole)

*** Keyhole Reference Position**

Keyhole Position

- When 2H, the center of diameter d₁ is consistent with G.
- When 4H and 6H, the center of G dimension is consistent with the center of B dimension.
- When 8H, the diameter d₁ center of the middle Keyhole is consistent with the center of B dimension.

Keyhole Machining Conditions

a ≥ 5
b ≥ 5

Details of Keyhole			Drilling Details	
Keyhole Nominal Dia.	d ₁	d ₂	N (Through Hole)	P (Countersink)
5	6	7	3	3
6	7	8	4	3 4 5 6
7	8	9	5	4 5 6 8
8	9	10	6	3
	11	12	8	3 4 5 6
	13	14		
	15	16		
	17	18		
	19	20		
	21	22		

Use with flat washers (P.2434) to prevent damage to resin.

Standard Type				Pre-drilled Type			
Part Number	1mm Increment	Selection		Part Number	1mm Increment	Selection	1mm Increment
Type	A	B	T	Type	Nominal	A	B
ACAE	300-1100	300-900	3	ACAE	2H	300-1100	300-900
ACBAE			5	ACBAE	4H		
			8		6H		
ACTAE			3	ACTAE	3		
ACBTAE			5	ACBTAE	8H		

① For plate thicknesses other than above, refer to P.3078-3079
 ② Dimension F Specification Range: For 2H and 4H, $d(d_1)+5 \leq F \leq A-d(d_1)-5$. For 6H and 8H, $d(d_1)+5 \leq F \leq A/2-d(d_1)/2-2.5$.
 ③ Dimension G Specification Range: For 2H, $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$. For 4H and 6H, $d(d_1)+5 \leq G \leq B-d(d_1)-5$. For 8H, $d(d_1)+5 \leq G \leq B/2-d(d_1)/2-2.5$. (d for through hole, d₁ for countersink.)

Part Number Example

Standard Type: Part Number - A - B - T
 ACAE - 955 - 825 - 3

Part Number Example

Pre-drilled Type: Part Number - A - B - T - F - G - Bolt Nominal Diameter
 ACAE6H - 800 - 400 - 3 - F250 - G355 - N3

Part Number Alterations

Part Number - A - B - T - F - G - Bolt Nominal Diameter - (XC, YC, CN...etc.)
 ACAE4H - 500 - 400 - 3 - F300 - G300 - N6 - XC15 / YC35

Alterations	Notching for Blind Joints of Aluminum Frame	Relief at Four Corners	Corner Radius	Corner Cut	Hole Position from Left	Hole Position from Bottom
	F, E, J, K	CN	CRA / CRB / CRC / CRD	CCA / CCB / CCC / CCD	XC	YC
Code	F_ / E_ / J_ / K_	CN	CRA / CRB / CRC / CRD	CCA / CCB / CCC / CCD	XC	YC
Spec.	Machines relief for blind joints of aluminum frame extrusions. ① Thermal expansion of the plate is not taken into account. ② Longitudinal direction of notching is all on A dimension side. ③ Available for only T=3, 5. Ordering Code: F S 6 Frame Type Joint Type Notching Position (See the diagram above) ④ Not available for Pre-Drilled Type.	CN=1 mm Increment Machines relief at four corners. ① 5 ≤ CN ≤ 50 Ordering Code: CN=25 → CN25 ⑤ Not available for Pre-Drilled Type.	Adds radius to any corner. R=5 mm Increment ① 10 ≤ A(B)-R(2R) ② 5 ≤ CRA, CRB, CRC, CRD ≤ 100 Ordering Code: (Ex.) Adds R10 at the corner of A and C. CRA10-CRC10 ⑥ Not available for Pre-Drilled Type.	Cuts any corners. 5 ≤ Corner Cuts ≤ 50 5 mm Increment Ordering Code: (Ex.) When the corners of A and D are cut by CSC CCAS-CCD5 ⑦ Not available for Pre-Drilled Type.	XC=1 mm Increment ① 5 ≤ XC ≤ 1086 ② (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ ③ (6H, 8H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	Specify in YC=1 mm Increment ① 5 ≤ YC ≤ 886 ② (4H, 6H Type) $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ ③ (8H Type) $d(d_1)/2+2.5 \leq YC \leq B-2G-d(d_1)/2-2.5$ ④ Not available for 2H

④ For Notching for Blind Joints of Aluminum Frame, refer to P.3073

Curved Panels / SS400 Free Plates

Curved Panels

RoHS 10

ACALMG
(Acrylic / Transparent)

ACBLMG
(Acrylic / Smoke Brown)

① Properties P.3072
 Operating Ambient Temperature: -30~80°C

Part Number	A	B	L	R*	S
Type	1mm Increment	1mm Increment	1mm Increment		
ACALMG	200-700	200-700	200-1000	140	137.5
ACBLMG					

*Curved panels for R300 and R500 are not available.

Part Number Example

Part Number - A - B - L - R
 ACALMG5 - A435 - B685 - L770 - R140

Fits in the slots of Curved Aluminum Extrusion HF5MG. P.2691, 2734, 2775
 ① Curved panel dimensions A and B are E/2 shorter than A and B dimension of HF5MG. E/2 (E: One side length of frame cross section)

Application Example

The panel is fixed by mounting panel clamps (P.2901) into the grooves.
 (Please note not to insert the panel clamp to the spot where the frame is bent.)