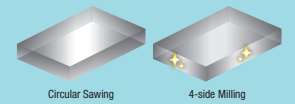


# Acrylic Plates

## Cast Plates



MISUMI Acrylic Plates have two types: cast plates and extruded plates. 4-side(4F) Milling is now available for cast plates.  
 Features of Cast Plates: Excels in heat resistance and mechanical strength. Extruded Plates: More inexpensive than cast plates. For details of extruded plates, see P967. For details of cast plates and extruded plates, see P949.

### Standard Type

A ≈ B

T Dimension Tolerance	
T	T Dimension Tolerance
3	±0.5
4, 5	±0.6
6	±0.8
8	±0.9
10	±1.1
15	±1.5
20	±2.0
25	±2.5

Dimension Tolerance of A and B ±1.0

Type	M Grade	Color	Light Transmittance	Operating Ambient Temperature
ACA	Standard	Transparent	93%	-30~80°C
ACBA	Standard	Smoke Brown	25%	
ACDA	Standard	Orange	43%	
ACTA	Antistatic	Transparent	79%	
ACBTA	Antistatic	Smoke Brown	32%	

Finish	4 Sides		Upper-lower Surface	
	Drilling Method	Finish Symbol	Drilling Method	Finish Symbol
Circular Sawing	Circular Sawing	✓	Material	~
	4-side Milling (4F)	Milling	6.3/✓	Material

### Standard Type

Part Number	A	B	T
<b>Material</b>			
<b>Standard Size</b>			
ACA (Standard, Transparent)	20~1200	20~1000	3, 4, 5, 6, 8, 10
ACBA (Standard, Smoke Brown)	20~800	20~600	15, 20, 25
ACDA (Standard, Orange)			3, 4, 5, 6, 8, 10
ACTA (Antistatic, Transparent)			3, 5
ACBTA (Antistatic, Smoke Brown)			
<b>Large Size</b>			
L-ACA (Standard, Transparent)			
L-ACBA (Standard, Smoke Brown)	1201~2000	20~1000	3, 5
L-ACDA (Antistatic, Transparent)			
L-ACBTA (Antistatic, Smoke Brown)			
<b>4-side Milling</b>	<b>4-side Milling</b>	<b>0.1mm Increment</b>	<b>Selectable</b>
ACA (Standard, Transparent)	4F	Q (0~+0.2) N (±0.1) M (-0.2~0)	5, 6, 8, 10, 15, 20, 25
ACBA (Standard, Smoke Brown)			5, 6, 8, 10
ACDA (Standard, Orange)			
ACTA (Antistatic, Transparent)			5
ACBTA (Antistatic, Smoke Brown)			

The above data are for reference, not guaranteed.

**Ordering Example**

**Standard Size**  
 Part Number - A - B - T  
 ACTA - 955 - 825 - 3

**Large Size**  
 Part Number - A - B - T  
 L-ACA - 1500 - 800 - 5

**4-side Milling**  
 Part Number - A - B - T  
 ACA4FQ - 300 - 200 - 15

For T0.5 ~ 2.0, see P973.

Alterations	Notching for Blind Joints of Aluminum Extrusions	Relief at Four Corners	Corner Radius	Corner Cut
<b>Code</b> F, E, J, K	<b>Code</b> CN	<b>Code</b> CRA, CRB, CRC, CRD	<b>Code</b> CCA, CCB, CCC, CCD	
<b>Spec.</b> 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 S 6 Extrusion Type Joint Type Notching Position (See the diagram above.) Applicable to standard sizes only.	CN=1mm Increment Machines relief at four corners. 5 ≤ CN ≤ 50 Applicable to standard sizes only. Ordering Code: CN=25 ... CN25 Applicable to standard sizes only.	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: Applicable to standard sizes only. (Ex.) When the corners of A and D are cut by C5 → CCA5-CCD5	

For details of notching alterations for blind joint of aluminum frames, refer to P950.  
 Alterations are not available for Side Milling Plates.

### Pre-drilled Type

Type	M Grade	Color	Light Transmittance	Operating Ambient Temperature
ACA	Standard	Transparent	93%	-30~80°C
ACBA	Standard	Smoke Brown	25%	
ACDA	Standard	Orange	43%	
ACTA	Antistatic	Transparent	79%	
ACBTA	Antistatic	Smoke Brown	32%	

T Dimension Tolerance	
T	T Dimension Tolerance
3	±0.5
4, 5	±0.6
6	±0.8
8	±0.9
10	±1.1
15	±1.5
20	±2.0
25	±2.5

Dimension Tolerance of A and B ±1.0

Hole Machining Details					
N (Through Hole)	P (Countersink)	M (Threaded Insert)	Hole Machining Conditions (N, P, M)	Q (Keyhole)	Hole Machining Conditions (Q)
			Ordering Code (Ex.) M4-L6 LsT-1 For details of threaded insert HLTS, see P271		Keyhole Machining Conditions 2H, 4H, 6H, 8H a ≥ 5, b ≥ 5, c ≥ 5 2HL

### Pre-drilled Type

Material Code	Number of Holes	A	B	T Selection		F	G	Screw Nominal Dia. Selection						
				ACA	ACBA			ACDA	ACTA	ACBTA	Through Hole	Countersink	Keyhole	Threaded Insert
ACA (Standard, Transparent)	2H (Horizontal) 2HL (Vertical) 4H 6H 8H	20~1200	20~1000	3	3	3	6~1191.5 (2H, 4H) 4.5~1195.5 (2HL, 4H, 6H) 6~595.5 (6H, 8H)	4.5~995.5 (2H) 6~991.5 (2HL, 4H, 6H) 6~495.5 (8H)	3					
				4	4				3					
				5	5	5			3	4	5	6		
				6	6				4	5	6	8		
				8	8				4	5	6	8		
				10	10				4	5	6	8		
ACA (Standard, Transparent)		20~800	20~600	15	-	-	6~791.5 (2H, 4H) 4.5~795.5 (2HL) 6~395.5 (6H, 8H)	4.5~595.5 (2H) 6~591.5 (2HL, 4H, 6H) 6~295.5 (8H)	5	6	8	10		
				20										
				25										

Dimension F Specification Range for 2H and 4H:  $d(d_1)+2.5 \leq F \leq A-d(d_1)-5$ ; for 2HL:  $d(d_1)/2+2.5 \leq F \leq A-d(d_1)/2-2.5$ ;  
 for 6H and 8H:  $d(d_1)+2.5 \leq F \leq (A-d(d_1)-5)/2$ .  
 Dimension G Specification Range for 2H:  $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$ ; for 2HL, 4H and 6H:  $d(d_1)+2.5 \leq G \leq B-d(d_1)-5$ ;  
 for 8H:  $d(d_1)+2.5 \leq G \leq (B-d(d_1)-5)/2$ . (d for through hole, d1 for countersink.)

**Ordering Example** Part Number - A - B - T - F - G - Screw Nominal Dia. - L  
 ACA6H - 800 - 400 - 3 - F250 - G355 - N3 - L6

**Alterations** Part Number - A - B - T - F - G - Screw Nominal Dia. - (XC, YC)  
 ACA4H - 200 - 100 - 4 - F160 - G50 - N6 - XC15-YC35

Alterations	Hole Position from Left	Hole Position from Bottom
<b>Code</b>	XC	YC
<b>Spec.</b>	XC = 0.5mm Increment (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ (6H, 8H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	YC = 0.5mm Increment $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ Not available for 2H.

