





Aluminum Panels / Diamond Tread Plates

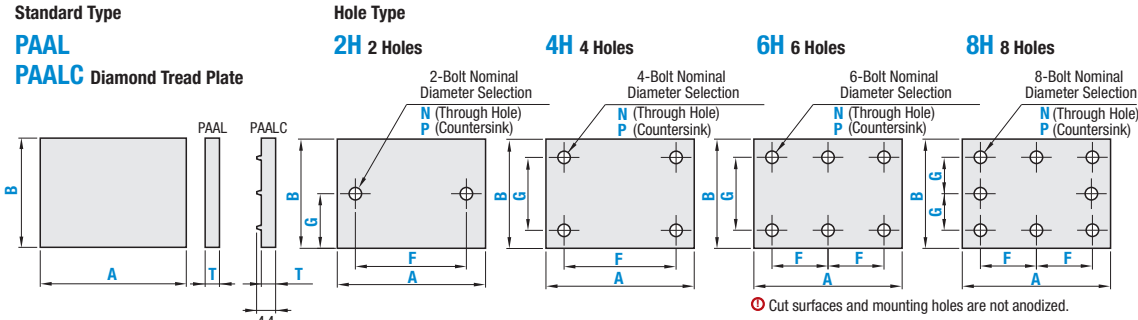
Aluminum Panels / Diamond Tread Plates

Type	Material	Surface Treatment
PAAL	5052 Aluminum Alloy	Clear Anodize
PAALC		—

Standard Type
PAAL
PAALC Diamond Tread Plate

Hole Type
2H 2 Holes
4H 4 Holes
6H 6 Holes
8H 8 Holes



2-Bolt Nominal Diameter Selection
N (Through Hole)
P (Countersink)

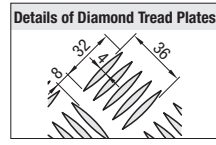
4-Bolt Nominal Diameter Selection
N (Through Hole)
P (Countersink)

6-Bolt Nominal Diameter Selection
N (Through Hole)
P (Countersink)

8-Bolt Nominal Diameter Selection
N (Through Hole)
P (Countersink)

⊙ Cut surfaces and mounting holes are not anodized.

Details of Diamond Tread Plates



Details of Hole Machining

Screw Nom. Dia.	N Through Hole		P Countersink	
	d	d ₁	d	d ₁
3	3.5	7.5	2	—
4	4.5	—	—	3
5	5.5	11.5	—	—
6	6.5	—	—	5
8	8.5	18.5	—	—

Precision Standards

T Dimension Tolerance	1.0	1.5	2.0	3.0	5.0	3.2
	±0.06	±0.09	±0.09	±0.10	±0.12	±0.2

Tolerance of A and B ±1.0
Tolerance of d and d₁ ±0.3

Standard Type

Part Number	1 mm Increment		Selection T
	A	B	
PAAL	50-1200	50-1000	1.0
PAALC Diamond Tread Plate			1.5
			2.0
			3.0
			5.0
			3.2

Hole Type

Part Number	Nominal	1 mm Increment		Selection T	1 mm Increment		Bolt Nominal Diameter	
		A	B		F	G	N (Through Hole)	P (Countersink)
PAAL	2H 4H 6H 8H	50-1200	50-1000	1.0	9-1191 2H / 4H Type	5-995 2H Type	3	—
				1.5				—
				2.0				3
				3.0				5
PAALC Diamond Tread Plate				5.0	9-595 6H / 8H Type	9-991 4H / 6H Type	6	8
				3.2		9-495 8H Type	8	5

⊙ F Specification Range: For 2H and 4H, $d(d_1)+5 \leq F \leq A-d(d_1)-5$; for 6H and 8H, $d(d_1)+5 \leq F \leq A/2-d(d_1)/2-2.5$

⊙ 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)

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continued

Allowable Load Standard of Diamond Tread Plate PAALC

Supported on two edges of length B.

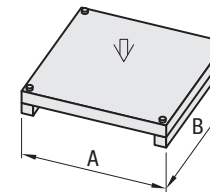


Plate Size		Load Standard	
A	B	N	kgf
600	300	215	22
600	450	321	33
600	600	428	44
450	300	508	52
450	450	761	78
300	300	1713	175

⊙ Cut surfaces and mounting holes are not anodized.



Part Number Example

Standard Type

Part Number - A - B - T
PAAL - 600 - 400 - 2.0

Hole Type

Part Number - A - B - T - F - G - Screw Nominal Dia.
PAAL4H - 800 - 600 - 3.0 - F700 - G500 - N6



Part Number Alterations

Part Number - A - B - T - F - G - Bolt Nominal - (XC / YC...etc.)
PAAL4H - 100 - 80 - 3.0 - F50 - G60 - N4 - XC10

Alterations	Hole Position from Left	Hole Position from Bottom	Relief at Four Corners	One Side Bending	Left and Right Side Bending	Four Side Bending																								
	Code	XC	YC	CN	ZM	XM	XYM																							
Spec.	XC = 1 mm Increment ⊙ 5 ≤ XC ≤ 1186 ⊙ 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 = 1 mm Increment ⊙ 5 ≤ YC ≤ 986 ⊙ 4H, 6H Type $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$ ⊙ 8H Type $d(d_1)/2+2.5 \leq YC \leq B-2G-d(d_1)/2-2.5$ ⊙ Not applicable to 2H Type	CN = 1 mm Increment Machines relief at four corners. ⊙ 5 ≤ CN ≤ 50 Ordering Code: CN = 25 → C CN25 ⊙ Combination use with ZM / XM / XYM is not possible.	Fabrication Conditions ZM = 1 mm Increment <table border="1"> <thead> <tr> <th>T</th> <th>ZM</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td>15 ≤ ZM ≤ 100</td> </tr> <tr> <td>3.0</td> <td>17 ≤ ZM ≤ 100</td> </tr> <tr> <td>3.2</td> <td>19 ≤ ZM ≤ 100</td> </tr> </tbody> </table> ⊙ PAALC has protrusions on external side. ⊙ Not applicable to T=5.0 ⊙ ZM+A ≤ 1200 ⊙ Not compatible with CN.	T	ZM	2.0	15 ≤ ZM ≤ 100	3.0	17 ≤ ZM ≤ 100	3.2	19 ≤ ZM ≤ 100	Fabrication Conditions XM = 1 mm Increment <table border="1"> <thead> <tr> <th>T</th> <th>XM</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td>15 ≤ XM ≤ 100</td> </tr> <tr> <td>3.0</td> <td>17 ≤ XM ≤ 100</td> </tr> <tr> <td>3.2</td> <td>19 ≤ XM ≤ 100</td> </tr> </tbody> </table> ⊙ PAALC has protrusions on external side. ⊙ Not applicable to T=5.0 ⊙ XMx2+A ≤ 1200 ⊙ Not compatible with CN.	T	XM	2.0	15 ≤ XM ≤ 100	3.0	17 ≤ XM ≤ 100	3.2	19 ≤ XM ≤ 100	Fabrication Conditions XYM = 1 mm Increment <table border="1"> <thead> <tr> <th>T</th> <th>XYM</th> </tr> </thead> <tbody> <tr> <td>2.0</td> <td>15 ≤ XYM ≤ 100</td> </tr> <tr> <td>3.0</td> <td>17 ≤ XYM ≤ 100</td> </tr> <tr> <td>3.2</td> <td>19 ≤ XYM ≤ 100</td> </tr> </tbody> </table> ⊙ PAALC has protrusions on external side. ⊙ Not applicable to T=5.0 ⊙ XYMx2+A ≤ 1200 ⊙ XYMx2+B ≤ 1000 ⊙ Not compatible with CN.	T	XYM	2.0	15 ≤ XYM ≤ 100	3.0	17 ≤ XYM ≤ 100	3.2	19 ≤ XYM ≤ 100
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