

WOOD STRUCTURE CONNECTORS

FLAT PLATE - ADJUSTABLE

AS1 OR AS2 + PCE-4 OR PCE-5

Application

Used for connecting wood post and beams.

Mechanical Capacity

Single bearing plate

Ultimate Compression / Tension 18 kips / 4 kips

Allowable Compression / Tension 9 kips / 2 kips

Double bearing plate (PCE-4 + PCE-4 or PCE-5)

Ultimate Compression / Tension 22 kips / 4 kips

Allowable Compression / Tension 11 kips / 2 kips

Technical Specifications

Material (standard) :

Cap CSA G40.21 / 300W

Insert ASTM A500 Grade C

Threaded rod 1" Ø SAE Grade 2

Button head cap screw 3/8" Ø - Grade 5

Socket head set screws 3/8" Ø - Grade 5

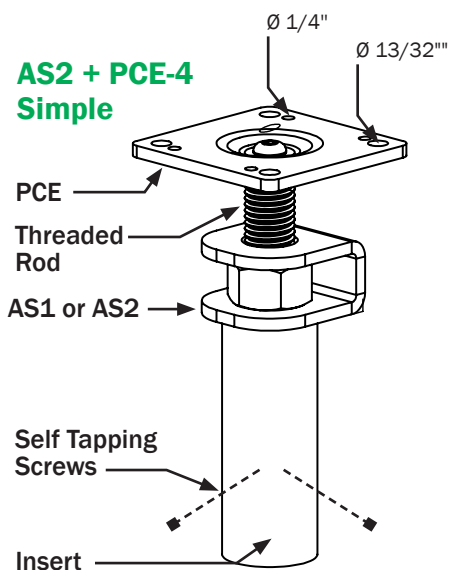
Black Steel Design Life 50 years per AC358

Coating Galvanized

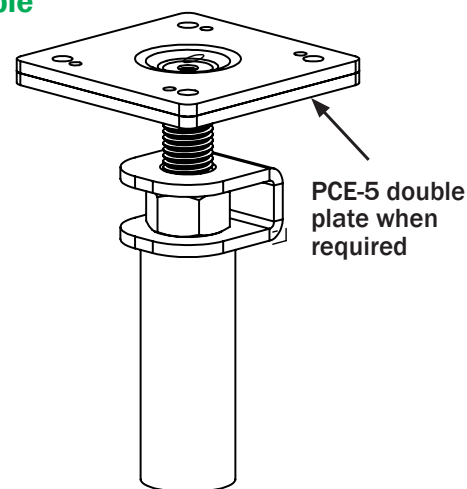
Galvanization compliance ASTM A123

Geometry :

Pile Model	Model No.	Dimensions			
		Length	Width	Height	Thickness
P1 or P2	AS1 or AS2 + PCE-4	4" (101.6 mm)	4" (101.6 mm)	N/A	0.25" (6.4 mm)
	AS1 or AS2 + PCE-5	5" (127 mm)		N/A	0.25" (6.4 mm)



AS2 + PCE-5 Double



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Allowable capacity for common applications :

Pile Model	Model No.	Supported member	Allowable Capacity				
			Compression (Down)		Tension (Uplift)		Lateral
			Single plate	Double plate	3/8" lag screws	#8 screws	lb. (kN)
P1 or P2	AS1 or AS2 + PCE-4	2 ply 2 x ___ SPF Beam	4,000 lb (17.8 kN)	4,000 lb (17.8 kN)	N/A	450 lb (2.0 kN)	Not rated
		3 ply 2 x ___ SPF Beam	4,300 lb (19.1 kN)	4,500 lb (20.0 kN)	1,200 lb (5.3 kN)	450 lb (2.0 kN)	
		2 ply - LVL beam	6,000 lb (26.7 kN)	7,900 lb (35.1 kN)	N/A	600 lb (2.7 kN)	
		4 x 4 SPF Post	6,500 lb (28.9 kN)	7,900 lb (35.1 kN)	N/A	N/A	
	AS1 or AS2 + PCE-5	3 ply 2 x ___ SPF Beam	4,300 lb (19.1 kN)	4,500 lb (20.0 kN)	1,200 lb (5.3 kN)	450 lb (2.0 kN)	Not rated
		3 ply - LVL beam	6,000 lb (26.7 kN)	10,400 lb (46.3 kN)	1,500 lb (6.7 kN)	600 lb (2.7 kN)	
		6 x 6 SPF Post	6,500 lb (28.9 kN)	11,000 lb (48.9 kN)	N/A	N/A	

Installation instructions and special notes

1. Allowable tension and lateral capacity are based on NDS code and load duration $C_d=1.6$
2. Allowable compression capacity are based on NDS code and internal testing. Cap must directly bear on shaft below.
3. For wet use multiply table values by 0.7
4. Use all specified fasteners (or approved equivalent) lag screws 3/8" $\varnothing$ x 2" long or wood screws #8 x 2" long
5. Uplift connection from cap to shaft shall be self-tapping screws (3 x UCAN self drilling screws, size 12-24, drill point #5 or equivalent) or 3/16" fillet weld all around (E70XX)
6. Capacity above 7,000 lb must be limited to 1/4" misalignment. For capacity below 7,000 lb, pile installation tolerances must be within 1/2" of misalignment and $\pm 1^\circ$ of inclination.
7. Structural Designer is responsible for wood design and verifying capacity of connection to wood members
8. Loads shall be reduced where limited by capacity of the wood and/or capacity of the installed pile
9. For any questions regarding uplift, lateral and compression capacities please contact TMP Engineers at eng.usa@technometalpost.com
10. Maximum exposed height of threaded rod shall be 4".