

WOOD STRUCTURE CONNECTORS

FLAT PLATE - FIXED

A1/2-FIX + PCE-4 OR PCE-5

Application

Used for connecting wood post and beams.

Mechanical Capacity

Single bearing plate

Ultimate Compression / Tension 22 kips / 4 kips

Allowable Compression / Tension 11 kips / 2 kips

Technical Specifications

Material (standard) :

Cap CSA G40.21 / 300W

Adapter Casted 1018 steel

Threaded rod 1" Ø SAE Grade 2

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

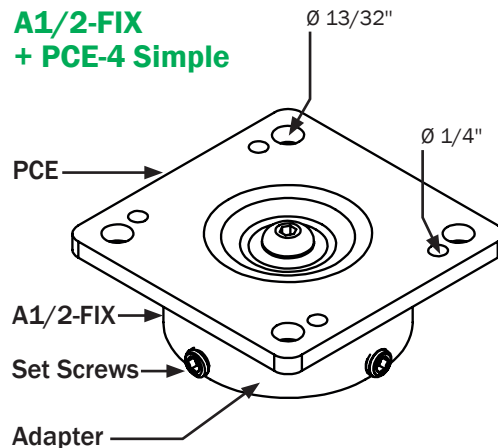
Socket head set screws 3/8" Ø - Grade 5

Black Steel Design Life 50 years per AC358

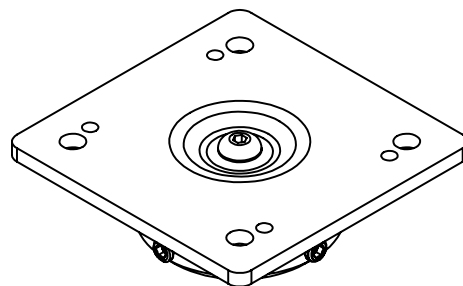
Coating Galvanized

Galvanization compliance ASTM A123

A1/2-FIX + PCE-4 Simple



A1/2-FIX + PCE-5 Simple



Geometry :

Pile Model	Model No.	Dimensions			
		Length	Width	Height	Thickness
P1, P2 or P2HD	A1/2-FIX + PCE-4	4" (101.6 mm)	4" (101.6 mm)	N/A	0.25" (6.4 mm)
	A1/2-FIX + PCE-5	5" (127 mm)		N/A	0.25" (6.4 mm)

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Allowable capacity for common applications :

Pile Model	Model No.	Supported member	Allowable Capacity			
			Compression (Down)	Tension (Uplift)		Lateral
			Single plate	3/8" lag screws	#8 screws	
P1, P2 or P2HD	A1/2-FIX + PCE-4	2 ply 2 x ___ SPF Beam	4,000 lb (17,8 kN)	N/A	450 lb (2.0 kN)	700 lb (3.1 kN)
		3 ply 2 x ___ SPF Beam	6,700 lb (29,8 kN)	1,200 lb (5.3 kN)	450 lb (2.0 kN)	
		2 ply - LVL beam	9,000 lb (40,0 kN)	N/A	600 lb (2.7 kN)	
		4 x 4 SPF Post	9,000 lb (40,0 kN)	N/A	N/A	
	A1/2-FIX + PCE-5	3 ply 2 x ___ SPF Beam	5,000 lb (22,2 kN)	1,200 lb (5.3 kN)	450 lb (2.0 kN)	700 lb (3.1 kN)
		3 ply - LVL beam	11,000 lb (48,9 kN)	1,500 lb (6.7 kN)	600 lb (2.7 kN)	
		6 x 6 SPF Post	11,000 lb (48,9 kN)	N/A	N/A	

Pile Caps

Installation instructions and special notes

1. Allowable tension and lateral capacity are based on NDS code and load duration Cd=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" Ø x 2" long or wood screws #8 x 2" long
5. Uplift connection from cap to shaft shall be to apply minimum of 15 ft-lb torque of set screws.
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 ± 1° 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