

WOOD STRUCTURE CONNECTORS

U PLATE - FIXED

CF2.5-5, CF3-4 OR 5

Application

Used for connecting wood post and beams.

Mechanical Capacity

Single bearing plate

Ultimate Compression / Tension 30 kips / 4 kips

Allowable Compression / Tension 15 kips / 2 kips

Technical Specifications

Material (standard) :

Cap CSA G40.21 / 300W

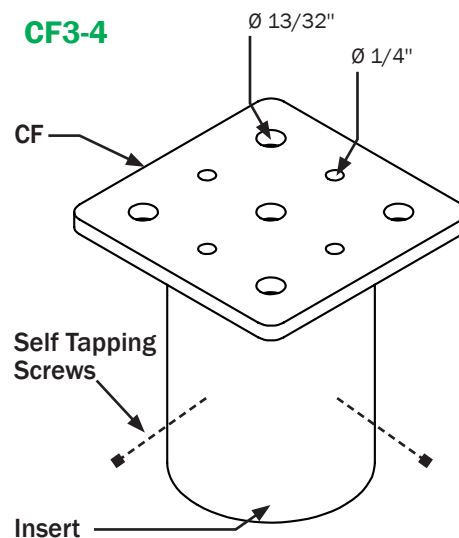
Insert ASTM A500 Grade C

Black Steel Design Life 50 years per AC308

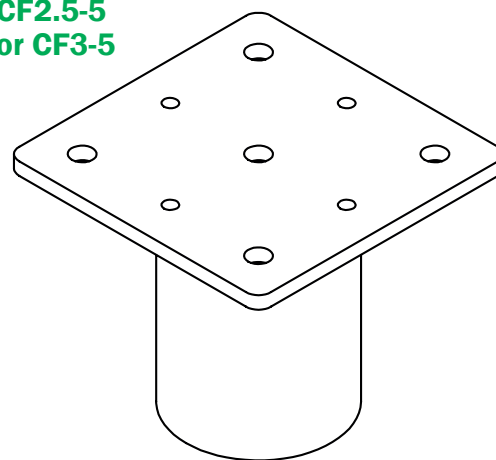
Coating Galvanized

Galvanization compliance ASTM A123

CF3-4



CF2.5-5 or CF3-5



Geometry :

Pile Model	Model No.	Dimensions			
		Length	Width	Height	Thickness
P2.5 or P3	CF3-4	4" (101.6 mm)	4" (101.6 mm)	N/A	0.25" (6.4 mm)
	CF2.5-5 or CF3-5	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	1/4" lag screws	#8 screws
P2.5 or P3	CF3-4	2 ply 2 x ___ SPF Beam	4,000 lb (17.8 kN)	N/A	450 lb (2.0 kN)	N/A	700 lb (3.1 kN)
		3 ply 2 x ___ SPF Beam	6,700 lb (29.8 kN)	N/A	450 lb (2.0 kN)	850 lb (3.8 kN)	
		2 ply - LVL beam	9,000 lb (40 kN)	N/A	600 lb (2.7 kN)	1,300 lb (5.8 kN)	
		4 x 4 SPF Post	11,200 lb (49.8 kN)	N/A	N/A	1,200 lb (5.3 kN)	
	CF2.5-5 or CF3-5	3 ply 2 x ___ SPF Beam	5,000 lb (22.2 kN)	N/A	450 lb (2.0 kN)	850 lb (3.8 kN)	700 lb (3.1 kN)
		3 ply - LVL beam	15,000 lb (66.7 kN)	N/A	600 lb (2.7 kN)	1,300 lb (5.8 kN)	
		6 x 6 SPF Post	15,000 lb (66.7 kN)	N/A	N/A	1,200 lb (5.3 kN)	

Pile Caps

Installation instructions and special notes

- Allowable tension and lateral capacity are based on NDS code and load duration $C_d=1.6$
- Allowable compression capacity are based on NDS code and internal testing. Cap must directly bear on shaft.
- For wet use multiply table values by 0.7
- Use all specified fasteners (or approved equivalent) lag screws 3/8" $\varnothing$ x 2" long or wood screws #8 x 2" long
- 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)
- 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.
- Structural Designer is responsible for wood design and verifying capacity of connection to wood members
- Loads shall be reduced where limited by capacity of the wood and/or capacity of the installed pile
- For any questions regarding uplift, lateral and compression capacities please contact TMP Engineers at eng.usa@technometalpost.com