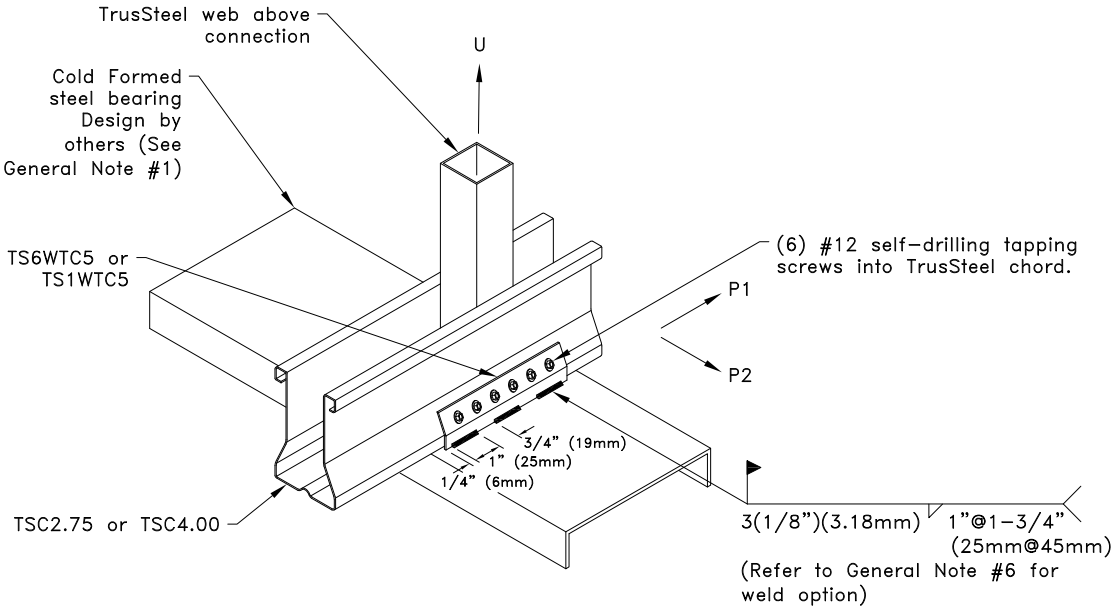
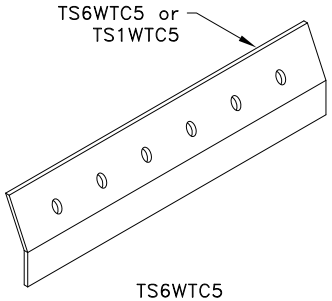
Allowable Loads lbs (kN)[A]					
Chord	Allowable Loads[A,D,E]	Clip on one face[B]		Clip on both faces	
		TS6WTC5	TS1WTC5	TS6WTC5	TS1WTC5
28TSC2.75	U	550 (2.45)		2630 (11.70)	
	P1	1310 (5.83)		2630 (11.70)	
33TSC2.75	U	550 (2.45)		3260 (14.50)	
	P1	1630 (7.25)		3260 (14.50)	
43TSC2.75	U	550 (2.45)		4860 (21.62)	
	P1	2430 (10.81)		4860 (21.62)	
28TSC4.00	U	1310 (5.83)[C]		2630 (11.70)	
	P1	1310 (5.83)		2630 (11.70)	
33TSC4.00	U	1370 (6.09)[C]		3260 (14.50)	
	P1	1630 (7.25)		3260 (14.50)	
43TSC4.00	U	1370 (6.09)[C]		4860 (21.62)	
	P1	2430 (10.81)		4860 (21.62)	
54, 68, and 97TSC4.00	U	1370 (6.09)[C]		5510 (24.51)	6500 (28.91)
	P1	2470 (10.99)		4930 (21.93)	

A. Allowable loads shown are not in combination.
B. Connections with clip on one face require a web above connection.
C. If web above connection is 33W1.5x.75, U = 910 lbs (4.05 kN). If web above connection is 33C1.5x1.5, U = 1000 lbs (4.45 kN).
D. P2 = 570 lbs (2.54 kN) for clip on one face.
E. For clip on both faces, P2 = 1430 lbs (6.36 kN) for 28TSC, or 1470 lbs (6.54 kN) for all other chord thicknesses.





TS6WTC5
bare metal thickness (t) = 0.0538 in. (1.37mm)
TS1WTC5
bare metal thickness (t) = 0.128 in. (3.25mm)

General Notes:

1. Bearing shall be manufactured from Cold-Formed Steel (CFS) with minimum tensile strength of 45 KSI (310 MPa), minimum bare metal thickness, t = 0.0538" (1.37 mm) and maximum width of 3-5/8" (92 mm).
2. Attachment of second clip on opposite face of chord is identical to what is detailed.
3. Design of bearing shall be by others.
4. Refer to TrusSteel Technical Bulletin 98.10.05 titled "Repair of Galvanized Surfaces" to restore corrosion resistant properties of the connection after welding.
5. Weld values are based on a filler material with a minimum tensile strength of 70 ksi (483 (MPa).
6. In lieu of welds specified above, the full length of the TS6WTC5 / TS1WTC5 may be welded to the bearing.
7. Cold-formed steel calculations are per the AISI 2007 North American Specification for the Design of Cold-Formed Steel Structural Members (AISI S100-2007).

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TS6WTC5 or TS1WTC5 Welded Truss Clip to Cold-Formed Steel Bearing Using #12SDS

ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by ITW Building Components Group, Inc.

Custom Detail: TS-CD-TB-CF14-001
Date: 04/21/11
Custom Detail Category: Truss-To-Bearing Connection