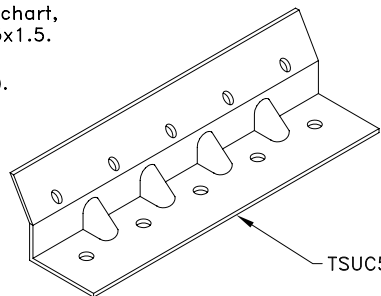
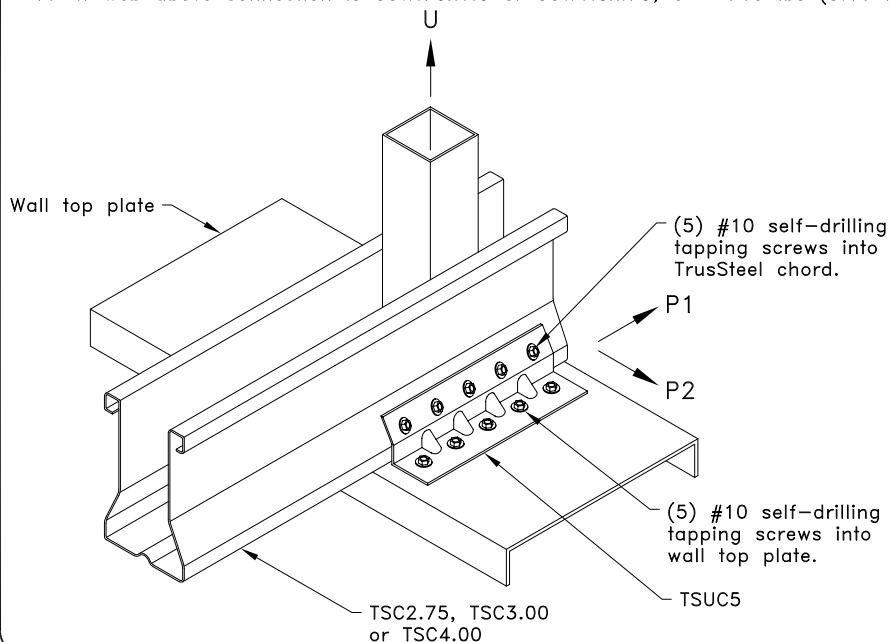


Wall Top Plate / Min Thickness	Allowable U lbs (kN) ^A		Allowable P1 lbs (kN) ^A							
			28TSC		33TSC		43TSC		54, 68, 97TSC	
	Clip on One Face ^B	Clip on Both Faces	Clip on One Face	Clip on Both Faces	Clip on One Face	Clip on Both Faces	Clip on One Face	Clip on Both Faces	Clip on One Face	Clip on Both Faces
20g Grade 33 / 0.0328" (0.83 mm)	350 (1.56)	840 (3.74)	880 (3.91)	1770 (7.87)	880 (3.91)	1770 (7.87)	880 (3.91)	1770 (7.87)	880 (3.91)	1770 (7.87)
20g Grade 50 / 0.0328" (0.83 mm)	510 (2.27) ^F	1210 (5.38)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1280 (5.69)	2550 (11.34)	1280 (5.69)	2550 (11.34)
18g Grade 33 / 0.0428" (1.09 mm)	460 (2.05) ^F	1090 (4.85)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1320 (5.87)	2630 (11.70)	1320 (5.87)	2630 (11.70)
18g Grade 50 / 0.0428" (1.09 mm)	660 (2.94) ^F	1580 (7.03)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	1900 (8.45)	3800 (16.90)
16g Grade 33 / 0.0538" (1.37 mm)	580 (2.58) ^F	1370 (6.09)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1850 (8.23)	3700 (16.46)	1850 (8.23)	3700 (16.46)
16g Grade 50 / 0.0538" (1.37 mm)	830 (3.69) ^{E,F}	1980 (8.81)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	2180 (9.70)	4360 (19.39)
14g Grade 33 / 0.0677" (1.72 mm)	725 (3.22) ^{E,F}	1730 (7.70)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	2180 (9.70)	4360 (19.39)
14g Grade 50 / 0.0677" (1.72 mm)	1010 (4.49) ^{E,F}	2050 (9.12)	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	2180 (9.70)	4360 (19.39)
12g Grade 33 / 0.0966" (2.45 mm)	1010 (4.49) ^{E,F}	2050 (9.12) ^C	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	2180 (9.70)	4360 (19.39)
12g Grade 50 / 0.0966" (2.45 mm)	1010 (4.49) ^{E,F}	2050 (9.12) ^D	1030 (4.58)	2050 (9.12)	1280 (5.69)	2550 (11.34)	1900 (8.45)	3800 (16.90)	2180 (9.70)	4360 (19.39)

- A. Allowable loads shown on this detail are not in combination.
 B. Uplift connections with clip on one face require a web above connection. For values in chart, TSC2.75 minimum web is 33W.75x2.25 and TSC3.00 or TSC4.00 minimum web is 33C1.5x1.5.
 C. For 33TSC and greater, U = 2460 lbs (10.94 kN).
 D. For 33TSC, U = 2550 lbs (11.34 kN). For 43TSC and greater, U = 3260 lbs (14.50 kN).
 E. If web above connection is 33W.75x.75, U = 400 lbs (1.78 kN).
 F. If web above connection is 33W.75x1.5 or 33W1.5x.75, U = 710 lbs (3.16 kN).



Allowable P2 lbs (kN) ^A		
Chord	Clip on One Face	Clip on Both Faces
28TSC	520 (2.31)	1050 (4.67)
33TSC	570 (2.54)	1210 (5.38)
≥ 43TSC	570 (2.54)	1470 (6.54)



General Notes:

1. Wall top plate shall be manufactured from cold-formed steel (CFS) with minimum tensile strength of 45 KSI (310 MPa) for grade 33 or 65 ksi (448 MPa) for grade 50 and maximum width of 6" (152mm).
2. If a clip is required on both faces, attach the second clip to the opposite face of the chord as detailed.
3. Multi-ply trusses require a clip on each face. Refer to TrusSteel detail drawing TS023A for ply-to-ply connections for 3-Ply trusses with a clip on each face.
4. Connection of top plate to wall stud must be capable of transferring truss uplift load from wall top plate to wall stud.
5. The wall top plate is to be designed by the job engineer. The wall top plate must be designed to support the loads applied to it (downward, upward and lateral).
6. Cold-Formed Steel Calculations are per the AISI 2016 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-16).



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TSUC5 Uplift Attachment To Cold-Formed Steel

Alpine, a division of 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 Alpine, a division of ITW Building Components Group, Inc.

Standard Detail:

TS029

Date:

10/11/18

TrusSteel Detail Category:

Truss-To-Bearing: Cold-Formed Steel