

Allowable U lbs (kN) <sup>A</sup>								
Chord	Southern Pine		Douglas Fir-Larch		Spruce-Pine-Fir		Hem-Fir	
	Clip on one face <sup>B</sup>	Clip on both faces	Clip on one face <sup>B</sup>	Clip on both faces	Clip on one face <sup>B</sup>	Clip on both faces	Clip on one face <sup>B</sup>	Clip on both faces
28TSC2.75	400 (1.78) <sup>C</sup>	1230 (5.47)	400 (1.78) <sup>C</sup>	1230 (5.47)	380 (1.69)	910 (4.05)	400 (1.78)	960 (4.27)
33TSC2.75		1530 (6.81)		1300 (5.78)				
43TSC2.75		1560 (6.94)		1300 (5.78)				
28TSC3.00 or 28TSC4.00	620 (2.76)	1230 (5.47)	540 (2.40)	1230 (5.47)	380 (1.69)	910 (4.05)	400 (1.78)	960 (4.27)
33TSC3.00 or 33TSC4.00	660 (2.94)	1530 (6.81)		1300 (5.78)				
43 & 54TSC3.00, 43, 54, 63 & 97TSC4.00		1560 (6.94)		1300 (5.78)				

Allowable P1 lbs (kN) <sup>A</sup>							
Southern Pine		Douglas Fir-Larch		Spruce-Pine-Fir		Hem-Fir	
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
600 (2.67)	1200 (5.34)	560 (2.49)	1110 (4.94)	480 (2.14)	960 (4.27)	490 (2.18)	980 (4.36)

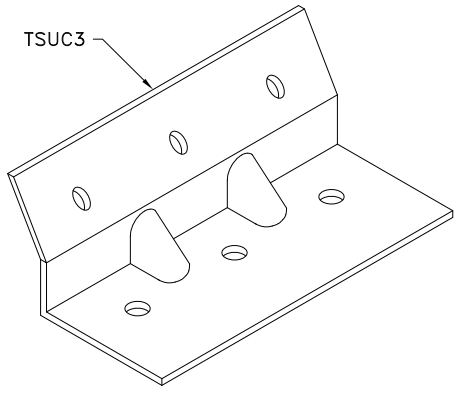
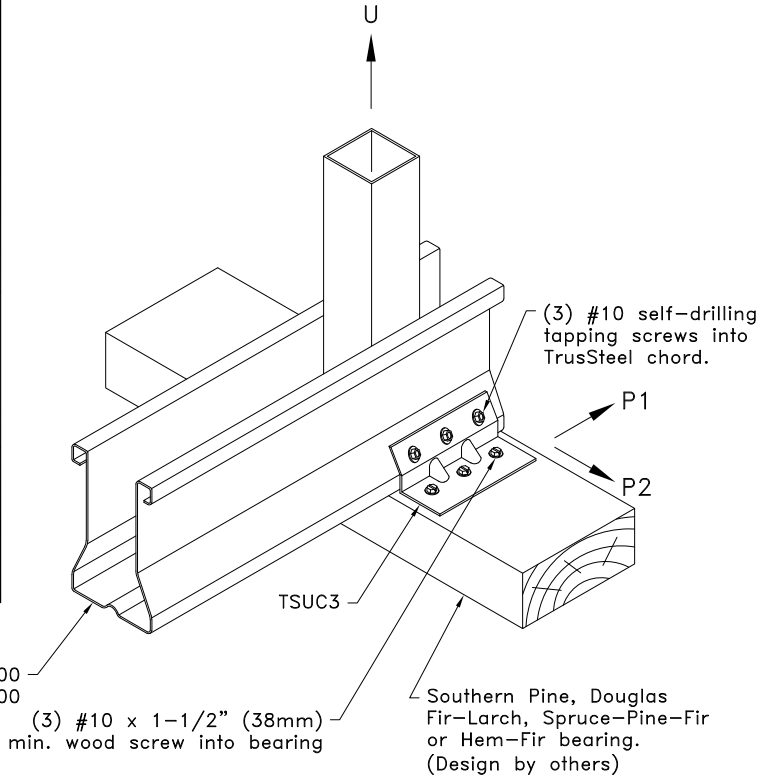
  

Allowable P2 lbs (kN) <sup>A</sup>					
28TSC		33TSC		43, 54, 68 & 97TSC	
Clip on one face	Clip on both faces	Clip on one face	Clip on both faces	Clip on one face	Clip on both faces
310 (1.38)	630 (2.80)	340 (1.51)	730 (3.25)	340 (1.51)	880 (3.91)

- A. Allowable loads shown are not in combination.  
 B. Uplift connections with a clip on one face require a web above the connection. For values in chart, TSC2.75 minimum web is 33W.75x.75 and any web size is acceptable for TSC3.00 or TSC4.00.  
 C. If web above connection is 33W.75x1.5, U = 540 lbs (2.40 kN)

General Notes:

- 2x4 or larger bearing may be used.
- If a clip is required on both faces, attach the second clip to the opposite face of the chord as detailed.
- 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.
- Wood screws require a lead hole to be drilled before insertion of screw. Diameter of lead hole to be 9/64" (3.57mm).
- Allowable wood screw uplift and lateral loads have been increased by 1.6 duration factor for wind and seismic loads.
- If bearing is pressure treated lumber, reference Steel Framing Alliance bulletin "Pressure Treated Wood and Steel Framing".
- Allowable fastener values into wood are per ANSI/AWC NDS-2018.
- Cold-Formed Steel calculations are per the 2020 supplement to AISI 2016 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16/S2-20).



## TSUC3 Uplift Attachment To Wood Bearing

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:**  
 TS032  
**Date:**  
 06/01/22

**TrusSteel Detail Category:**  
 Truss-To-Bearing: Wood