

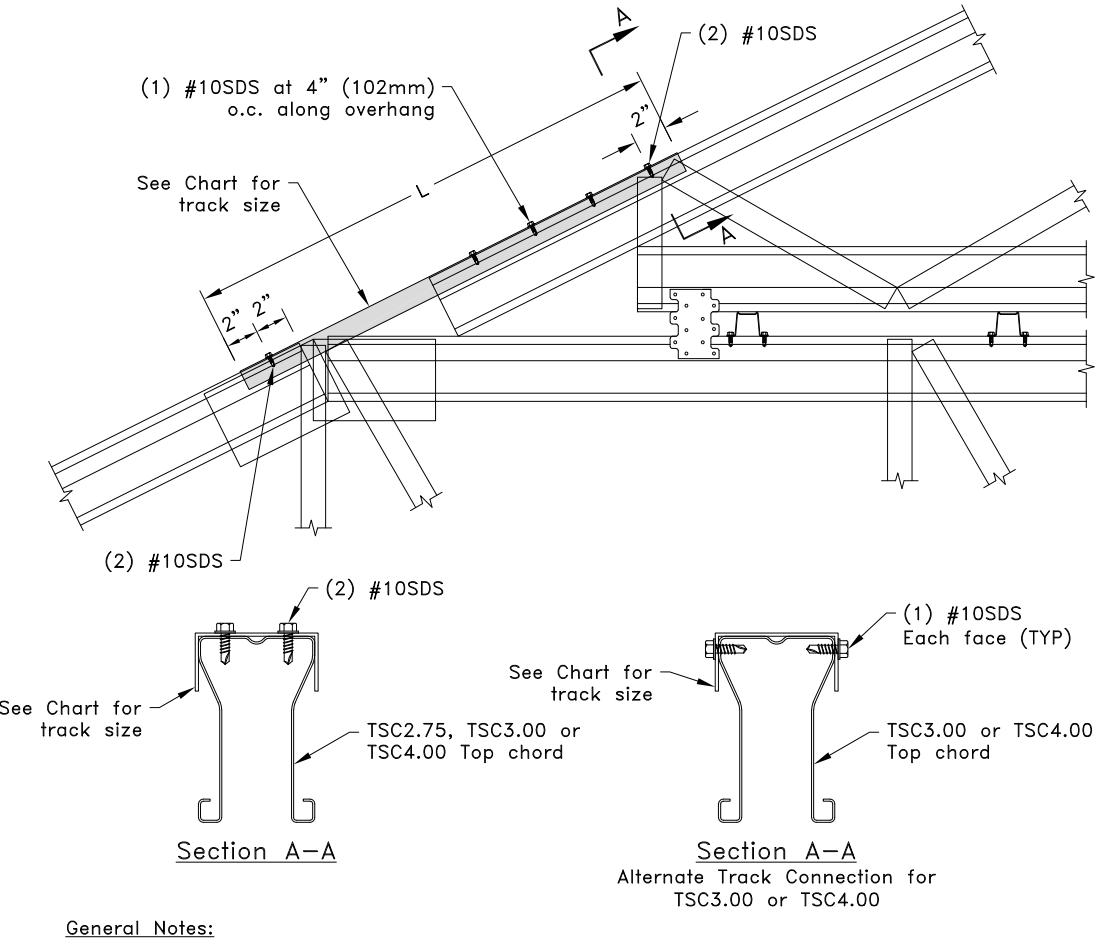
Track Dimensions				
Pitch	TSC2.75 Piggyback		TSC3.00 or TSC4.00 Piggyback	
	Length in. (mm)	Track Size ^A	Length in. (mm)	Track Size ^A
3/12 (14.04°)	36 (914)	250T125-54	48 (1219)	
4/12 (18.43°)	30 (762)		36 (914)	
5/12 (22.62°)	24 (610)		30 (762)	
6/12 (26.56°)	24 (610)		30 (762)	
7/12 (30.26°)	24 (610)		24 (610)	
8/12 (33.69°)	24 (610)		24 (610)	
9/12 (36.87°)	18 (457)		24 (610)	
10/12 (39.81°)	18 (457)		24 (610)	
11/12 (42.51°)	18 (457)		24 (610)	
12/12 (45.00°)	18 (457)		24 (610)	

A. 20g (33mils) and 18g (43mils) track is Grade 33 steel and 16g (54mils) track is Grade 50 steel.

Allowable Loads PLF (kN/m)					
TSC2.75 Cap Truss					
Minimum Pitch	Gravity	Net Uplift	Equivalent Wind Speed MPH (m/s) ^B		
			24" (610mm) Spacing	48" (1219mm) Spacing	
3/12 (14.04°)	300 (4.38)	210 (3.06)	143 (64)	98 (44)	
4/12 (18.43°)	470 (6.86)	330 (4.82)	181 (81)	126 (56)	
5/12 (22.62°)	360 (5.25)	260 (3.79)	160 (72)	110 (49)	
9/12 (36.87°)	500 (7.30)	275 (4.01)	189 (84)	130 (58)	

TSC3.00 or TSC4.00 Cap Truss					
Minimum Pitch	Gravity	Net Uplift	Equivalent Wind Speed MPH (m/s) ^B		
			24" (610mm) Spacing	48" (1219mm) Spacing	
3/12 (14.04°)	160 (2.34)	110 (1.61)	101 (45)	NA	
4/12 (18.43°)	270 (3.94)	190 (2.77)	136 (61)	93 (42)	
5/12 (22.62°)	390 (5.69)	270 (3.94)	163 (73)	113 (51)	
7/12 (30.26°)	500 (7.30)	450 (6.57)	244 (109)	170 (76)	

B. Windspeeds shown are based on the criteria listed in General Note 3.



General Notes:

1. See detail drawing number TS003 or TS003B and truss design drawing for additional connector requirements.
2. SDS = Self-Drilling Tapping Screw. screw end distance and edge distance is 9/32" (7mm) minimum. Screw spacing is 9/16" (14mm) minimum.
3. Wind criteria:
ASCE 7-10, ASCE 7-16 or ASCE 7-22 30' (9144mm) mean height, closed building, Exp C, $K_{zt} = 1.0$ and minimum 6 psf (0.24 kN/m^2) top chord dead load to resist wind.
4. For ASCE 7-22 only – This detail is valid for a Tornado speed, V_t , of less than 0.6 times the listed ASCE 7-22 windspeed. For Exposure B, Tornado speed must be less than 0.5 times the listed ASCE 7-22 windspeed.
5. Piggyback and/or base truss may be either TSC2.75, TSC3.00 or TSC4.00 chord material. See truss design drawings for details.
6. 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).



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Roof Deck Support On Piggyback Overhangs

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:
TS003C

Date:
01/19/26

TrusSteel Detail Category:
Piggybacks