

Code/Design: IBC-2015/TPI-2014
 PSF Live Dead Dur Factors
 TC 20.0* 5.0 Live Wind Snow
 BC 0.0 5.0 Lum 1.25 1.60 N/A
 Total 30.0 Plt 1.25 1.60 N/A
 Spacing: 5-00-00 o.c. Plies: 1
 Repetitive Member Increase: No
 Green Lumber: No Wet Service: No
 Fab Tolerance: 20% Creep (Kcr) = 2.0
 OH Soffit Load: 2.0 psf

-----Snow Load Specs-----
 ASCE7-10 Ground Snow (Pg) = N/A
 Risk Cat: I Terrain Cat: B
 Roof Exposure: Partially Exposed
 Thermal Condition: Unheated(1.2)
 Unobstructed Slippery Roof: Yes
 Low-Slope Minimums (P_{fmin}): No
 Unbalanced Snow Loads: No
 Rain Surcharge: No Ice Dam Chk: Yes

-----Wind Load Specs-----
 ASCE7-10 Wind Speed (V) = 120 mph
 Risk Cat: I Exposure Cat: B
 Bldg Dims: L = 0.0 ft B = 0.0 ft
 M.R.H(h) = 15.0 ft Kzt = 1.0
 Bldg Enclosure: Enclosed
 Wind DL (psf): TC = 4.0 BC = 1.0
 End Vertical Exposed: L = Yes R = Yes
 Wind Uplift Reporting: ASCE7 MWFRS
 C&C End Zone: 4-00-00

-----Additional Design Checks-----
 10 psf Non-Concurrent BCLL: No
 20 psf BC Limited Storage: Yes
 200 lb BC Accessible Ceiling: No
 300 lb TC Maintenance Load: No
 2000 lb TC Safe Load: No
 Unbalanced TCLL: Yes

Material Summary

TC	2x6	SP	2400/2.0		
4-5	2x6	SP	(ALSC6-2013)	#1	3-4
BC	2x6	SP	2400/2.0		
Webs	2x4	SP	(ALSC6-2013)	#3/Stud	
	2x4	SP	(ALSC6-2013)	#1	9-4

Reaction Summary

-----Reaction Summary (Lbs)-----						
Jnt	--X-Loc	React	-Up-	--Width-	-Reqd	-Mat PSI
1	0	3113	539	05-08	04-09	SPF 453
7	40-00-00	3114	539	05-08	04-09	SPF 453
Max Horiz = -188 / +188 at Joint 1						

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [20-00-00] using a 1.00 Full and 0.00 Reduced load factor.
 *20 psf Live Load has been reduced for pitch and/or area reductions allowed by the selected code to 19.8 psf.
 See Loadcase Report for loading combinations and additional details.
 Dead Loads may be slope adjusted: > 12.0/12

Notes

Plates designed for C_q at 0.80 and Rotational Tolerance of 10.0 degrees
 Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
 Continuous Lateral Restraint (CLR) rows require diagonal bracing per D-WEBCLRBRACE. Alternatively, see D-WEBREINFORCE.

Deflection Summary

TrussSpan	Limit	Actual (in)	Location
Vert LL	L/240	L/472 (-0.99)	8- 9
Vert DL	L/120	L/864 (-0.54)	8- 9
Vert CR	L/180	L/305 (-1.53)	8- 9
Horz LL	0.75in	(0.44)	@Jt 7
Horz CR	1.25in	(0.67)	@Jt 7
Ohng CR	2L/180	L/999 (-0.00)	1- 1
			7- 7

Vert CR and Horz CR are the vertical and horizontal deflections due to live load plus the creep component of deflection due to dead load, computed as Defl_{LL} + (K_{cr} - 1) x Defl_{DL} in accordance with ANSI/TPI 1.

Bracing Data Summary

-----Bracing Data-----
 Chords; Sheathing required or bracing indicated:
 -----Purlins-----
 ---oc--- --From--- --To--- #Bays
 TC 2-00-00 -1-00-00 41-00-00 23
 BC 4-00-00 0 40-00-00 10
 ----- Web Bracing --- CLR -----
 Single: 3- 9 9- 5
 Continuous Restraint Bracing Req'd
 See BC3-B3 3.0

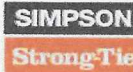
Plate offsets (X, Y):

(None unless indicated below)
 Jnt1(-00-02,00-15), Jnt3(-00-10,01-14),
 Jnt5(00-10,01-14), Jnt7(00-02,00-15),
 Jnt8(00-04,-02-00), Jnt9(0,-00-13),
 Jnt10(-00-04,-02-00)



Dansco Engineering, PA
 License number C-3462
 Date: 05/01/2020
 DE Job# 72953-W2

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "Important Information & General Notes" page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate.



Component Solutions
 Truss Studio V
 2019.10.1.11
 Helpdesk: 1-866-252-8606
 CSHelp@strongtie.com