

# Midwest Manufacturing

5311 Kane Road  
Eau Claire, WI 54703

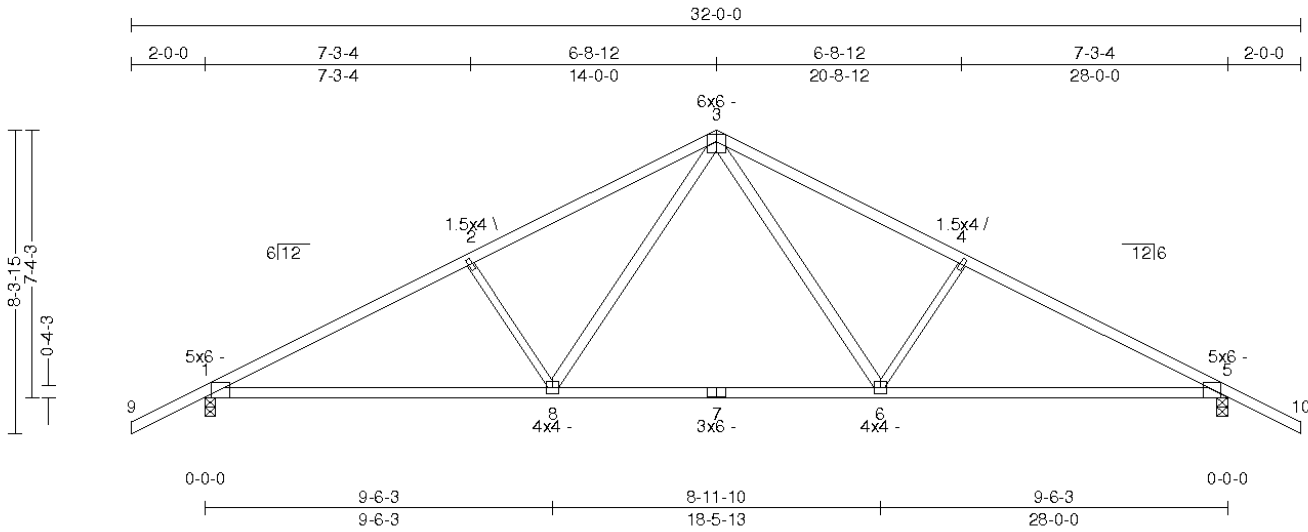
Truss: C61228

JobName: RES STOCK

Date: 03/30/17 14:57:18

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SPAN 28-0-0	PITCH 6/12	QTY 1	OHL 2-0-0	OHR 2-0-0	CANT L 0-0-0	CANT R 0-0-0	PLYS 1	SPACING 24 in	WGT/PLY 95 lbs
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All plates shown to be Eagle 20 unless otherwise noted.

Loading (psf)	General	CSI	Deflection	L/	(loc)	Allowed
TCLL: 42	Bldg Code: IRC 2015/	TC: 0.90 (3-4)	Vert TL: 0.42 in	L/786	(5-6)	L/180
Snow(PsPg): 42/60	TPI 1-2014	BC: 0.94 (5-6)	Vert LL: 0.19 in	L/999	(5-6)	L/240
TCDL: 10	Rep Mbr Increase: Yes	Web: 0.50 (2-8)	Horz TL: 0.1 in		5	
BCLL: 0	Lumber D.O.L.: 115 %					
BCLD: 10						

### Reaction

JT	Brg Combo	Brg Width	Rqd Brg Width	Max React	Max Grav Uplift	Max MWFRS Uplift	Max C&C Uplift	Max Uplift	Max Horiz
1	1	3.5 in	3.05 in	1,944 lbs	.	.	-305 lbs	-305 lbs	-40 lbs
5	1	3.5 in	3.05 in	1,944 lbs	.	.	-305 lbs	-305 lbs	.

### Material

TC: SPF 1650/1.5 2 x 4  
BC: SPF #2 2 x 4  
Web: SPF #2 2 x 4 except  
SPF Stud 2 x 3: 2-8, 4-6

### Bracing

TC: Sheathed or Purlins at 3-1-0, Purlin design by Others.  
BC: Sheathed or Purlins at 10-0-0, Purlin design by Others.

### Loads

1) This truss has been designed for the effects of balanced (41.6 psf) and unbalanced sloped roof snow loads in accordance with ASCE7 - 10 with the following user defined input: 60 psf GSL, Terrain B, Exposure (Ce = 0.9), Risk Category II (I = 1.00), Thermal (Ct = 1.10), DOL = 1.15. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

2) This truss has been designed for the effects of wind loads in accordance with ASCE7 - 10 with the following user defined input: 115 mph (Factored), Exposure B, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 50 ft x 50 ft, h = 15 ft, End Zone Truss, Both end webs considered. DOL = 1.60

3) Minimum storage attic loading has been applied in accordance with IRC 301.5

### Member Forces

Table indicates: Member ID, max CSI, max axial force, (max compr. force if different from max axial force). Only forces greater than 300lbs are shown in this table.

TC	1-2	0.856	-3,051 lbs	3-4	0.896	-2,664 lbs								
	2-3	0.896	-2,664 lbs	4-5	0.856	-3,051 lbs								
BC	5-6	0.939	2,606 lbs	6-8	0.748	1,746 lbs	(-5 lbs)	8-1	0.939	2,606 lbs	(-158 lbs)			
Web	2-8	0.502	-838 lbs	3-8	0.263	1,071 lbs	(-76 lbs)	3-6	0.263	1,071 lbs	(-76 lbs)	4-6	0.502	-838 lbs

### JSI

1 = 0.99, 2 = 0.57, 3 = 0.89, 4 = 0.57, 5 = 0.99, 6 = 0.84, 7 = 0.91, and 8 = 0.84

### Notes

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- 2) When this truss has been chosen for quality assurance inspection, the Double Polygon Method per TPI 1-2007/Chapter 3 shall be used.
- 3) The fabrication tolerance for this roof truss is 5 % (Cq = 0.95).
- 4) Brace bottom chord with approved sheathing or purlins per Bracing Summary.
- 5) Creep has been considered in the analysis of this truss.
- 6) Listed wind uplift reactions based on MWFRS & C&C loading.