

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-97(50)	29.79	12.90T	0.75	#12 Drivall	0.000	0
TC #1	362S162-97(50)	29.79	12.90C	0.82	#12 Drivall	0.000	0
Web # 1	250S162-68(50)	1.03	0.02C	0.00	#12 Drivall	0.609	4
Web # 2	250S162-68(50)	2.14	4.14C	0.60	#12 Drivall	0.609	7
Web # 3	250S162-68(50)	2.14	3.64T	0.76	#12 Drivall	0.609	6
Web # 4	250S162-68(50)	1.03	0.29C	0.04	#12 Drivall	0.609	4
Web # 5	250S162-68(50)	2.14	2.68C	0.39	#12 Drivall	0.609	5
Web # 6	250S162-68(50)	2.14	2.22T	0.46	#12 Drivall	0.609	4
Web # 7	250S162-68(50)	1.03	0.29C	0.04	#12 Drivall	0.609	4
Web # 8	250S162-68(50)	2.14	1.25C	0.18	#12 Drivall	0.609	4
Web # 9	250S162-68(50)	2.14	0.80T	0.17	#12 Drivall	0.609	4
Web # 10	250S162-68(50)	1.03	0.27C	0.04	#12 Drivall	0.609	4
Web # 11	250S162-68(50)	1.03	0.27C	0.04	#12 Drivall	0.609	4
Web # 12	250S162-68(50)	2.14	0.80T	0.17	#12 Drivall	0.609	4
Web # 13	250S162-68(50)	2.14	1.25C	0.18	#12 Drivall	0.609	4
Web # 14	250S162-68(50)	1.03	0.29C	0.04	#12 Drivall	0.609	4
Web # 15	250S162-68(50)	2.14	2.22T	0.46	#12 Drivall	0.609	4
Web # 16	250S162-68(50)	2.14	2.68C	0.39	#12 Drivall	0.609	5
Web # 17	250S162-68(50)	1.03	0.29C	0.04	#12 Drivall	0.609	4
Web # 18	250S162-68(50)	2.14	3.64T	0.76	#12 Drivall	0.609	6
Web # 19	250S162-68(50)	2.14	4.14C	0.60	#12 Drivall	0.609	7
Web # 20	250S162-68(50)	1.03	0.02C	0.00	#12 Drivall	0.609	4
BC Lateral Brace	250S162-33(33)	2.00	0.07C	0.02	#12 Drivall	0.268	1
BC Diagonal Brace	250S162-33(33)	4.25	0.14C	0.09	#12 Drivall	0.268	1

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	S/H1	1	0.01		#12 Drivall	0.435	3
Steel Stud				0.01	#12 Drivall	0.435	3
Truss Chord	S/H1	1	0.01		#12 Drivall	0.435	3
Steel Stud				0.01	#12 Drivall	0.435	3

**GENERAL NOTES**

- Trusses require lateral bracing. See Truss Layout and Detail sheets.
- Top Chord continuously sheathed.
- Number of fasteners noted in chart installed on each end of Web
- Allowable fastener values based on LGSEA Research Note No. 1-00 and Grabber Chart.
- (ws) denotes web stiffener required at support.
- Member design based on sections in SSMA-RCD Library.

**Maximum Deflections**

Vertical	1.414 in (L / 255)
Horizontal	0.146 in
Vertical	0.520 in (L / 693) [Dead Load Only]
Vertical	0.894 in (L / 403) [Live Load Only]

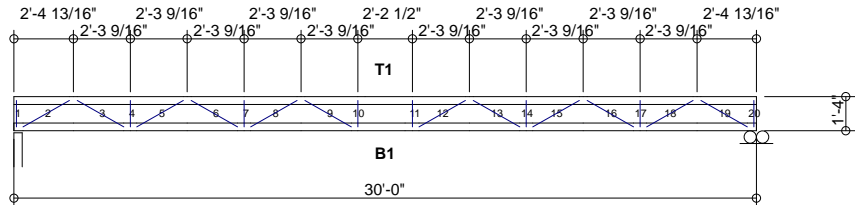
**Support Reactions**

	Down	Uplift*	Horizontal Bearing	
Left	1.89 {1.89}	-0.01	0.00	4.00
Right	1.89 {1.89}	-0.01	0.00	4.00

\* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind  
{ } Denotes 'Dead+Live Only'

**DESIGN DATA**

Number of Trusses = 10 each  
 Plate Style : Out-Of-Plane  
 Eave Height : 10.667 ft (top of wall)  
 Bearing : 4 in  
 Spacing : 2.00 ft  
 Dead Load : 10.00 psf (top chord)  
 Dead Load : 10.00 psf (bottom chord)  
 Live Load : 40.00 psf (top chord)  
 Live Load : 0.00 psf (bottom chord)  
 Snow Load : 12.00 psf (ground)  
 Snow Load : 12.00 psf (design) [Is =1.00, Ce = 1.00]  
 Wind Load : 22.35 psf (design) [Iw = 1.00]  
 Wind Speed : 110 mph (Exposure C)  
 Open Category: E  
 Topography (Kz):1  
 Building Category: (2) General  
 Seismic Coefficient: 0.044



Per AISI S100-2007		Actual			Allowable			Ratio
Member	Section	Po	Vo	Mo	Pa	Va	Ma	
Bottom Chord	1-362S162-97(50)	12.90T	0.00	4.39	21.83	6.03	28.37	0.75
Top Chord	1-362S162-97(50)	12.90C	0.00	5.03	19.95	6.03	28.37	0.82
Web	1-250S162-68(50)	3.64T	0.00	2.16	14.17	2.90	4.28	0.76

International Building Code 2009: PASSED  
 Design Method - (ASD)  
 Component Wind Pressure Design (Interior)



**Rusk Component and Design**  
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**Floor Truss**  
 Lafayette, CO

Truss D&E, V23.05  
 Date: 10-18-2013  
 Time: 18:11  
 Designer: BJR  
 File: FT16-24-30  
 Job Number: Floor-Truss

**FT16-24-30**