

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
T1-T2	Plate - 0.0713"	0.00	4.27C	0.00	#12 Drivall	0.609	8
T2-T3	Plate - 0.0713"	0.00	4.50C	0.00	#12 Drivall	0.609	8
TC/BC(Knee L)	Plate - 0.0713"	0.00	5.54T	0.00	#12 Drivall	0.459	16
TC/BC(Knee R)	Plate - 0.0713"	0.00	6.11T	0.00	#12 Drivall	0.459	16
BC #1	362S162-54(50)	40.05	5.67C	0.65	#12 Drivall	0.000	0
TC #1	362S162-68(50)	16.39	4.79C	0.71	#12 Drivall	0.000	0
TC #2	362S162-68(50)	8.95	4.14C	0.62	#12 Drivall	0.000	0
TC #3	362S162-68(50)	16.39	5.97C	0.82	#12 Drivall	0.000	0
Web # 1	250S162-33(33)	2.60	0.21T	0.13	#12 Drivall	0.223	4
Web # 2	362S162-54(50)	7.84	1.68C	0.77	#12 Drivall	0.459	4
Web # 3	250S162-33(33)	5.18	0.85T	0.54	#12 Drivall	0.223	4
Web # 4	250S162-33(33)	6.59	0.83C	0.91	#12 Drivall	0.223	4
Web # 5	250S162-33(33)	6.59	0.48C	0.52	#12 Drivall	0.223	4
Web # 6	250S162-33(33)	5.18	0.74T	0.47	#12 Drivall	0.223	4
Web # 7	362S162-54(50)	7.84	1.62C	0.74	#12 Drivall	0.459	4
Web # 8	250S162-33(33)	2.60	0.19T	0.12	#12 Drivall	0.223	4
Web Stiffener (ws)	250T125-33(33)	0.29	2.53C	0.75	#12 Drivall	0.223	11
BC Lateral Brace	250S162-33(33)	2.00	0.19C	0.06	#12 Drivall	0.223	1
BC Diagonal Brace	250S162-33(33)	4.47	0.43C	0.32	#12 Drivall	0.223	2

Connection	Simpson	each	Load	Uplift/She	Fastener	Pa	Req.
Chord-Wall			0.43		#12 Drivall	0.459	2
Truss Chord	MTS12	1	0.63		#12 Drivall	0.609	4
Steel Stud				0.63	#12 Drivall	0.609	4
Truss Chord	MTS12	1	0.63		#12 Drivall	0.609	4
Steel Stud				0.63	#12 Drivall	0.609	4

### 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	0.556 in (L / 863)
Horizontal	0.192 in
Top Overhang	0.155 in (L / 232)
Vertical	0.257 in (L / 1867) [Dead Load Only]
Vertical	0.305 in (L / 1573) [Live Load Only]

### Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	2.32 {2.23}	-0.63 [-1.19]	0.43	3.63
Right	2.53 {2.23}	-0.63 [-1.19]	0.00	3.63

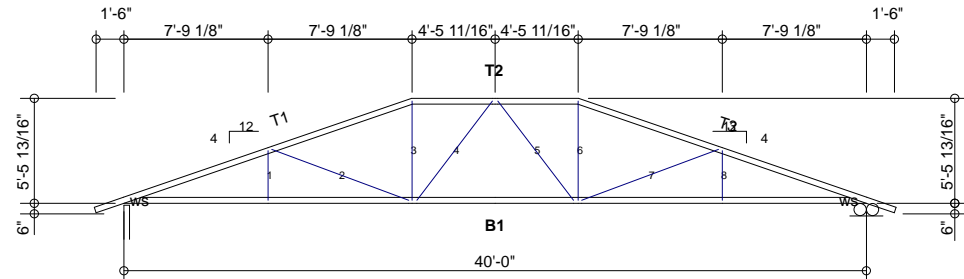
\* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } Denotes 'Dead+Live Only'

[ ] Denotes 'Wind Only' Uplift Reaction

### DESIGN DATA

Number of Trusses = 10 each  
 Plate Style : Out-Of-Plane  
 Eave Height : 10.00 ft (top of wall)  
 Bearing : 3.625 in  
 Spacing : 2.00 ft  
 Dead Load : 10.00 psf (top chord)  
 Dead Load : 10.00 psf (bottom chord)  
 Live Load : 20.00 psf (top chord)  
 Live Load : 0.00 psf (bottom chord)  
 Snow Load : 43.00 psf (ground)  
 Snow Load : 30.10 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	1-362S162-54(50)	5.67T	0.01	2.83	12.63	3.37	14.01	0.65
Top Chord	1-362S162-68(50)	5.97C	0.01	6.16	12.79	4.40	17.49	0.82
Web	1-362S162-54(50)	0.19T	0.00	0.83	4.41	0.96	3.23	0.77

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



### Rusk Component and Design

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### Roof Trusses

Lafayette, Co

Truss D&E, V25.011  
 Date: 04-26-2015  
 Time: 10:29  
 Designer: BJR  
 File: H-4-40  
 Job Number: RoofTruss

H-4-40