

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
T1-T2	Plate - 0.0566"	0.00	0.73C	0.00	#12 Drivall	0.459	4
TC/BC(Knee L)	Plate - 0.0566"	0.00	4.64T	0.00	#12 Drivall	0.459	12
TC/BC(Knee R)	Plate - 0.0566"	0.00	4.64T	0.00	#12 Drivall	0.459	12
BC #1	800S162-54(50)	39.78	0.21C	0.93	#12 Drivall	0.000	0
TC #1	600S162-54(50)	22.24	2.47C	0.65	#12 Drivall	0.000	0
TC #2	600S162-54(50)	22.24	2.47C	0.65	#12 Drivall	0.000	0
Web # 1	362S162-33(33)	3.28	0.49T	0.25	#12 Drivall	0.223	4
Web # 2	362S162-43(33)	6.68	1.53C	0.78	#12 Drivall	0.362	5
Web # 3	362S162-33(33)	6.61	1.18T	0.62	#12 Drivall	0.223	6
Web # 4	362S162-33(33)	6.61	1.18T	0.62	#12 Drivall	0.223	6
Web # 5	362S162-43(33)	6.68	1.54C	0.79	#12 Drivall	0.362	5
Web # 6	362S162-33(33)	3.28	0.50T	0.26	#12 Drivall	0.223	4
Web # 7	362S162-68(50)	12.48	3.13C	0.95	#12 Drivall	0.459	7
Web Stiffener (ws)	250T125-33(33)	0.65	2.61C	0.77	#12 Drivall	0.223	12
BC Lateral Brace	250S162-33(33)	2.00	0.07C	0.02	#12 Drivall	0.223	1
BC Diagonal Brace	250S162-33(33)	4.47	0.16C	0.12	#12 Drivall	0.223	1
Web Lateral Brace	250S162-33(33)	2.00	0.56C	0.18	#12 Drivall	0.223	3
Web Diagonal Brace	250S162-33(33)	3.81	1.07C	0.61	#12 Drivall	0.223	6

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Chord-Wall				0.78	#12 Drivall	0.381	3
Truss Chord	S/H2.5	1	0.40		#12 Drivall	0.381	4
Steel Stud				0.40	#12 Drivall	0.381	4
Truss Chord	S/H2.5	1	0.40		#12 Drivall	0.381	4
Steel Stud				0.40	#12 Drivall	0.381	4

GENERAL NOTES

1. Trusses require lateral bracing. See Truss Layout and Detail sheets.
2. Top Chord continuously sheathed.
3. Brace Webs (7) at mid-point of minor axis.
4. Web diagonal bracing required at maximum 18.0 ft on center. See Truss Details.
5. Number of fasteners noted in chart installed on each end of Web
6. Allowable fastener values based on LGSEA Research Note No. 1-00 and Grabber Chart.
7. (ws) denotes web stiffener required at support.
8. Member design based on sections in SSMA-RCD Library.

Maximum Deflections

Vertical	0.417 in (L / 1151)
Horizontal	0.091 in
Top Overhang	0.067 in (L / 537)
Vertical	0.228 in (L / 2105) [Dead Load Only]
Vertical	0.123 in (L / 3902) [Live Load Only]

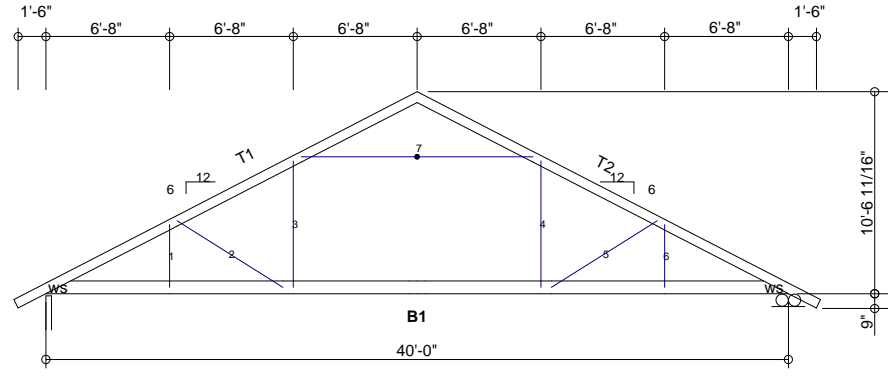
Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	2.61 (2.48)	-0.40 [-1.11]	0.78	3.63
Right	2.61 (2.48)	-0.40 [-1.11]	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)
 Live Load : 40.00 psf (Bottom Chord: 13.333 ft to 26.666 ft)
 Dead Load : 15.00 psf (Bottom Chord: 13.333 ft to 26.666 ft)
 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	1-800S162-54(50)	0.21C	0.36	19.95	2.41	2.10	23.49	0.93
Top Chord	1-600S162-54(50)	2.47C	0.03	11.08	9.91	2.83	27.75	0.65
Web	1-362S162-68(50)	0.15T	0.00	1.55	15.69	4.40	4.35	0.95

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



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Roof Trusses
 Lafayette, Co

Truss D&E, V25.011
 Date: 04-24-2015
 Time: 08:29
 Designer: BJR
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