

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
T1-T2	Plate - 0.0566"	0.00	1.78C	0.00	#12 Drivall	0.362	8
TC/BC(Knee L)	Plate - 0.0566"	0.00	2.42T	0.00	#12 Drivall	0.223	12
TC/BC(Knee R)	Plate - 0.0566"	0.00	2.42T	0.00	#12 Drivall	0.223	12
BC #1	362S162-33(33)	20.05	1.62T	0.89	#12 Drivall	0.000	0
TC #1	362S162-43(33)	10.57	2.31C	0.80	#12 Drivall	0.000	0
TC #2	362S162-43(33)	10.57	2.31C	0.80	#12 Drivall	0.000	0
Web # 1 3	250S162-33(33)	4.77	0.88C	0.55	#12 Drivall	0.223	4
Web # 2	250S162-33(33)	3.34	0.75T	0.48	#12 Drivall	0.223	4
Web Stiffener (ws)	250T125-33(33)	0.29	1.25C	0.41	#12 Drivall	0.223	6
BC Lateral Brace	250S162-33(33)	2.00	0.10C	0.03	#12 Drivall	0.223	1
BC Diagonal Brace	250S162-33(33)	3.89	0.19C	0.11	#12 Drivall	0.223	1

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Chord-Wall				0.30	#12 Drivall	0.223	2
Truss Chord	S/H2.5	1	0.37		#12 Drivall	0.381	4
Steel Stud				0.37	#12 Drivall	0.381	4
Truss Chord	S/H2.5	1	0.37		#12 Drivall	0.381	4
Steel Stud				0.37	#12 Drivall	0.381	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	0.254 in (L / 945)
Horizontal	0.070 in
Top Overhang	0.078 in (L / 462)
Vertical	0.174 in (L / 1379) [Dead Load Only]
Vertical	0.114 in (L / 2106) [Live Load Only]

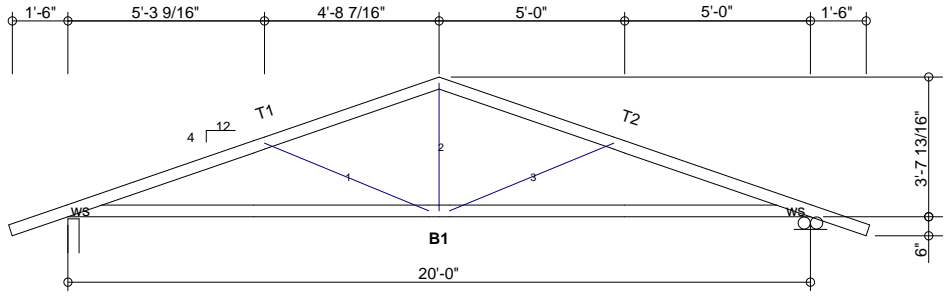
Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	1.25 {1.16}	-0.37 [-0.65]	0.30	3.63
Right	1.25 {1.16}	-0.37 [-0.65]	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	1-362S162-33(33)	1.62T	0.37	3.30	5.18	1.02	5.77	0.89
Top Chord	1-362S162-43(33)	2.31C	0.00	2.73	5.15	1.74	7.69	0.80
Web	1-250S162-33(33)	0.88C	0.00	0.52	1.61	0.96	1.43	0.55

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



Rusk Component and Design
 11357 Billings Ave
 Lafayette, CO 80026
 (303) 828-5747

Roof Trusses

Lafayette, Co

Truss D&E, V25.011
 Date: 04-24-2015
 Time: 08:06
 Designer: BJR
 File: C-3-20
 Job Number: RoofTruss

C-3-20