

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
B1-B2	Plate - 0.0566"	0.00	2.25T	0.00	#12 Drivall	0.223	12
T1-T2	Plate - 0.0566"	0.00	2.46C	0.00	#12 Drivall	0.459	8
TC/BC(Knee L)	Plate - 0.0566"	0.00	2.46T	0.00	#12 Drivall	0.223	12
TC/BC(Knee R)	Plate - 0.0566"	0.00	2.46T	0.00	#12 Drivall	0.223	12
BC #1	250S162-33(33)	5.61	2.24C	0.81	#12 Drivall	0.000	0
BC #2	250S162-33(33)	5.64	2.25C	0.81	#12 Drivall	0.000	0
TC #1	362S162-54(50)	5.93	2.35C	0.61	#12 Drivall	0.000	0
TC #2	362S162-54(50)	5.99	2.36C	0.61	#12 Drivall	0.000	0
Web # 1	362S162-54(50)	0.89	1.49T	0.32	#12 Drivall	0.223	7
Web Stiffener (ws)	250T125-33(33)	0.20	0.84C	0.27	#12 Drivall	0.223	4
BC Lateral Brace	250S162-33(33)	2.00	0.07C	0.02	#12 Drivall	0.223	1
BC Diagonal Brace	250S162-33(33)	3.20	0.11C	0.05	#12 Drivall	0.223	1

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	VPA2	1	0.33		#12 Drivall	0.381	2
Steel Stud				0.33	#12 Drivall	0.381	2
Truss Chord	VPA2	1	0.33		#12 Drivall	0.381	2
Steel Stud				0.33	#12 Drivall	0.381	2

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	0.191 in (L / 628)
Horizontal	0.161 in
Top Overhang	0.076 in (L / 474)
Vertical	0.089 in (L / 1348) [Dead Load Only]
Vertical	0.101 in (L / 1188) [Live Load Only]

Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	0.84 (0.66)	-0.33 [-0.49]	0.09	3.63
Right	0.73 (0.66)	-0.32 [-0.49]	0.00	3.63

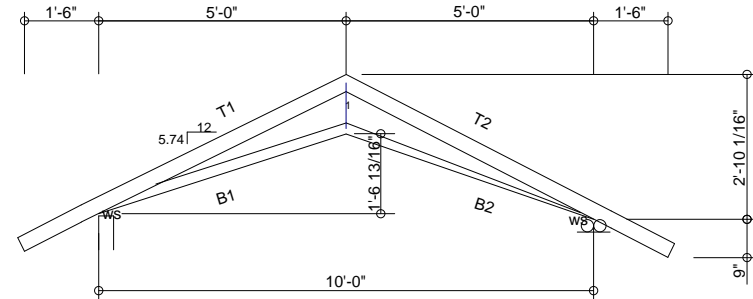
* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } 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	1-250S162-33(33)	2.24T	0.00	1.06	4.41	0.96	3.56	0.81
Top Chord	1-362S162-54(50)	2.35C	0.01	4.45	9.66	3.37	14.01	0.61
Web	1-362S162-54(50)	1.49T	0.00	0.74	12.63	3.37	3.72	0.32

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: 08:16
 Designer: BJR
 File: S-63-10
 Job Number: RoofTruss

S-63-10