

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	250S162-54(50)	9.79	8.04C	0.58	#10 Drivall	0.000	0
TC #1	250S162-54(50)	9.79	3.79C	0.72	#10 Drivall	0.000	0
Web # 1 6	250S162-68(50)+T	1.41	5.07T	0.62	#10 Drivall	0.354	15
Web # 2 5	250S162-68(50)+T	1.64	4.22T	0.79	#10 Drivall	0.360	12
Web # 3 4	250S162-68(50)+T	1.64	4.60C	0.53	#10 Drivall	0.357	13
Web Stiffener (ws)	250T125-33(33)	0.19	2.25C	0.67	#10 Drivall	0.182	12
BC Lateral Brace	250S162-68(50)	8.00	1.13C	0.59	#10 Drivall	0.410	3
BC Diagonal Brace	250S162-68(50)	9.43	1.33C	0.85	#10 Drivall	0.410	4

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.51		#10 Drivall	0.461	2
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.51	0.51	EDNI 19P8	0.455	2
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.51		#10 Drivall	0.461	2
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.51	0.51	EDNI 19P8	0.455	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	0.220 in (L / 545)
Horizontal	0.030 in
Vertical	0.072 in (L / 1665) [Dead Load Only]
Vertical	0.146 in (L / 821) [Live Load Only]

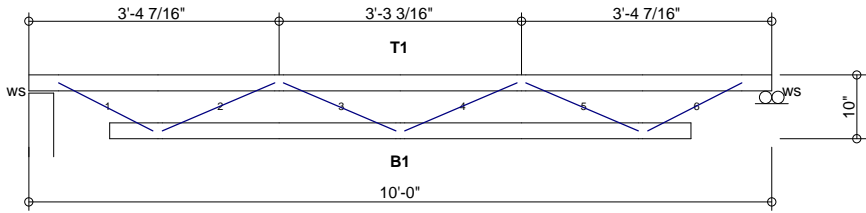
Support Reactions

Support Reactions	Down	Uplift*	Horizontal	Bearing
Left	2.25 {2.25}	-0.51 [-0.92]	0.00	4.00
Right	2.25 {2.25}	-0.51 [-0.92]	0.00	4.00

* 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 : 4 in
 Spacing : 8.00 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 : 43.00 psf (ground)
 Snow Load : 30.10 psf (design) [Is =1.00, Ce = 1.00]
 Wind Load : 14.96 psf (design) [Iw = 1.00]
 Wind Speed : 90 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	2-250S162-54(50)	8.04T	0.00	3.53	21.44	4.67	17.25	0.58
Top Chord	2-250S162-54(50)	3.79C	0.00	8.82	18.58	4.67	17.25	0.72
Web	1-250S162-68(50)	4.22T	0.00	3.58	29.56	5.80	5.57	0.79

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



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

Bar Joist Equivalent

Lafayette, CO

Truss D&E, V23.05
 Date: 10-11-2013
 Time: 08:57
 Designer: BJR
 File: BJK10-96-10
 Job Number: BarJoist

BJK10-96-10