

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-97(50)	35.70	34.28C	0.94	#10 Drivall	0.000	0
TC #1	550S162-97(50)	35.70	33.43C	0.62	#10 Drivall	0.000	0
Web # 1 16	362S162-97(50)	2.14	9.96T	0.93	#10 Drivall	0.465	22
Web # 2 15	362S162-97(50)	2.18	8.43T	0.95	#10 Drivall	0.465	19
Web # 3 14	362S162-97(50)	2.18	8.91C	0.68	#10 Drivall	0.465	20
Web # 4 13	362S162-97(50)	2.18	6.74T	0.76	#10 Drivall	0.465	15
Web # 5 12	250S162-68(50)	2.11	6.01C	0.87	#10 Drivall	0.465	13
Web # 6 11	250S162-68(50)	2.11	3.93T	0.82	#10 Drivall	0.465	9
Web # 7 10	250S162-68(50)	2.11	3.54C	0.51	#10 Drivall	0.465	8
Web # 8 9	250S162-68(50)	2.11	1.57T	0.33	#10 Drivall	0.465	4
BC Lateral Brace	250S162-33(33)	4.00	0.24C	0.12	#10 Drivall	0.234	2
BC Diagonal Brace	250S162-33(33)	7.21	0.43C	0.55	#10 Drivall	0.234	2

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord Steel Beam	L-2x3x3x0.104	1	0.36		#10 Drivall	0.465	2
Truss Chord Steel Beam	L-2x3x3x0.104	1	0.36	0.36	EDNI 19P8	0.455	2
				0.36	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 RCD-BarJoist Library.

**Maximum Deflections**

Vertical	1.843 in (L / 234)
Horizontal	0.162 in
Vertical	0.695 in (L / 621 ) [Dead Load Only]
Vertical	1.141 in (L / 378 ) [Live Load Only]

**Support Reactions**

Support Reactions	Down	Uplift*	Horizontal	Bearing
Left	4.51 {4.51}	-0.36 [-1.36]	0.00	4.00
Right	4.51 {4.51}	-0.36 [-1.36]	0.00	4.00

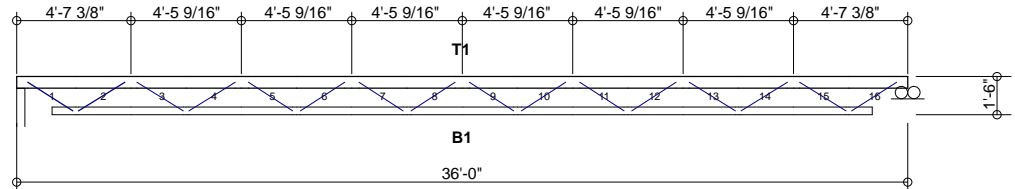
\* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } 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 : 4.00 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	2-362S162-97(50)	34.28T	0.00	8.67	43.65	12.06	56.74	0.94
Top Chord	2-550S162-97(50)	33.43C	0.02	29.24	81.04	37.83	141.82	0.62
Web	1-362S162-97(50)	0.72T	0.00	4.48	21.83	6.03	7.93	0.95

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

= denotes Added Track



**Rusk Component and Design**  
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**Bar Joist Equivalent**

Lafayette, CO

Truss D&E, V23.05  
 Date: 10-11-2013  
 Time: 14:09  
 Designer: BJR  
 File: BJL18-48-36  
 Job Number: BarJoist

**BJL18-48-36**