

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-97(50)	39.50	56.12C	0.82	#10 Drivall	0.000	0
TC #1	550S162-97(50)	39.50	54.73C	0.89	#10 Drivall	0.000	0
Web # 1 16	600S162-97(50)	2.38	16.68T	0.96	#10 Drivall	0.465	36
Web # 2 15	362S162-97(50)+TB	2.47	14.13T	0.91	#10 Drivall	0.465	31
Web # 3 14	362S162-97(50)+TB	2.47	15.01C	0.75	#10 Drivall	0.465	33
Web # 4 13	362S162-97(50)+TB	2.47	10.71T	0.69	#10 Drivall	0.465	24
Web # 5 12	362S162-97(50)	2.47	9.66C	0.75	#10 Drivall	0.465	21
Web # 6 11	362S162-97(50)	2.47	6.56T	0.74	#10 Drivall	0.465	15
Web # 7 10	362S162-97(50)	2.47	5.78C	0.45	#10 Drivall	0.465	13
Web # 8 9	362S162-97(50)	2.47	2.47T	0.28	#10 Drivall	0.465	6
BC Lateral Brace	250S162-54(50)	6.00	0.56C	0.28	#10 Drivall	0.461	2
BC Diagonal Brace	250S162-54(50)	8.97	0.84C	0.75	#10 Drivall	0.461	2

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.65		#10 Drivall	0.465	2
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.65	0.65	EDNI 19P8	0.455	2
Truss Chord Steel Beam				0.65	EDNI 19P8	0.455	2

**GENERAL NOTES**

- Trusses require lateral bracing. See Truss Layout and Detail sheets.
- Top Chord continuously sheathed.
- Brace Webs (2 3 4 13 14 15) with T-Brace entire length of minor axis.
- 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	2.151 in (L / 223)
Horizontal	0.197 in
Vertical	0.802 in (L / 598) [Dead Load Only]
Vertical	1.349 in (L / 356) [Live Load Only]

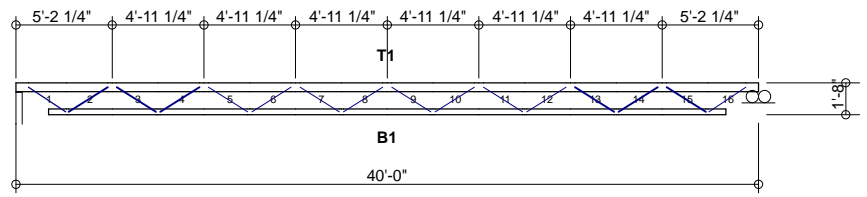
**Support Reactions**

Down	Uplift*	Horizontal	Bearing
Left	7.41 {7.41}	-0.65 [-2.25]	0.00 4.00
Right	7.41 {7.41}	-0.65 [-2.25]	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 : 6.00 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)	56.12T	0.00	10.08	82.06	24.11	74.61	0.82
Top Chord	2-550S162-97(50)	54.73C	0.08	29.78	81.04	37.83	141.82	0.89
Web	1-600S162-97(50)	1.32T	0.00	37.61	28.92	10.70	55.54	0.96

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

| denotes Web + T-Brace  
 = 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: 14:40  
 Designer: BJR  
 File: B JL20-72-40  
 Job Number: BarJoist

**BJL20-72-40**