

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	250S162-54(50)	14.70	6.58C	0.78	#10 Drivall	0.000	0
TC #1	250S162-54(50)	14.70	0.00T	0.89	#10 Drivall	0.000	0
Web # 1 10	362S162-68(50)	1.45	5.20T	0.77	#10 Drivall	0.354	15
Web # 2 9	250S162-68(50)	1.61	3.91T	0.82	#10 Drivall	0.364	11
Web # 3 8	250S162-54(50)	1.61	4.55C	0.78	#10 Drivall	0.357	13
Web # 4 7	250S162-54(50)	1.61	2.35T	0.61	#10 Drivall	0.387	7
Web # 5 6	250S162-54(50)	1.61	1.66C	0.28	#10 Drivall	0.396	5
BC Lateral Brace	250S162-33(33)	6.00	0.91C	0.84	#14 Drivall	0.249	4
BC Diagonal Brace	400S162-33(33)	7.81	1.18C	0.97	#14 Drivall	0.249	5

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	L-2x3x3x0.12	1	0.42		#10 Drivall	0.461	4
Steel Beam				0.42	EDNI 19P8	0.455	2
Truss Chord	L-2x3x3x0.12	1	0.42		#10 Drivall	0.461	4
Steel Beam				0.42	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	0.404 in (L / 446)
Horizontal	0.061 in
Vertical	0.132 in (L / 1365) [Dead Load Only]
Vertical	0.258 in (L / 698) [Live Load Only]

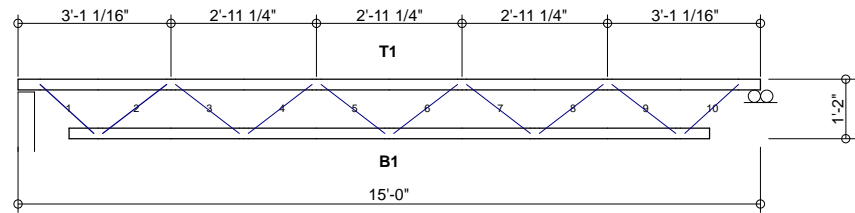
**Support Reactions**

	Down	Uplift*	Horizontal	Bearing
Left	2.60 {2.60}	-0.42 [-0.92]	0.00	4.00
Right	2.60 {2.60}	-0.42 [-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 : 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	1-250S162-54(50)	6.58T	0.14	5.57	19.50	4.67	12.69	0.78
Top Chord	1-250S162-54(50)	0.00T	2.51	9.04	19.50	4.67	12.69	0.89
Web	1-362S162-68(50)	0.72T	0.00	9.04	15.69	4.40	17.49	0.77

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: 10-06-2013  
 Time: 10:14  
 Designer: BJR  
 File: BJK14-72-15  
 Job Number: BarJoist

**BJK14-72-15**