

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-68(50)	44.70	38.41C	0.77	#10 Drivall	0.000	0
TC #1	550S162-68(50)	44.70	38.60C	0.95	#10 Drivall	0.000	0
Web # 1 18	362S162-97(50)+T	2.51	11.78T	0.90	#10 Drivall	0.444	27
Web # 2 17	362S162-97(50)+TB	2.66	9.23T	0.60	#10 Drivall	0.444	21
Web # 3 16	362S162-97(50)	2.66	10.39C	0.82	#10 Drivall	0.444	24
Web # 4 15	362S162-97(50)	2.66	7.84T	0.88	#10 Drivall	0.444	18
Web # 5 14	362S162-97(50)	2.66	6.84C	0.54	#10 Drivall	0.444	16
Web # 6 13	362S162-97(50)	2.66	4.99T	0.56	#10 Drivall	0.444	12
Web # 7 12	362S162-97(50)	2.66	4.60C	0.37	#10 Drivall	0.444	11
Web # 8 11	362S162-97(50)	2.66	2.70T	0.30	#10 Drivall	0.444	7
Web # 9 10	362S162-97(50)	2.66	2.16C	0.17	#10 Drivall	0.444	5
BC Lateral Brace	250S162-33(33)	4.00	0.27C	0.13	#10 Drivall	0.234	2
BC Diagonal Brace	250S162-33(33)	7.57	0.51C	0.71	#10 Drivall	0.234	3

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	L-2x3x3x0.12	1	0.46		#10 Drivall	0.444	2
Steel Beam				0.46	EDNI 19P8	0.455	2
Truss Chord	L-2x3x3x0.12	1	0.46		#10 Drivall	0.444	2
Steel Beam				0.46	EDNI 19P8	0.455	2

**GENERAL NOTES**

- Trusses require lateral bracing. See Truss Layout and Detail sheets.
- Top Chord continuously sheathed.
- Brace Webs (2 17) 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	2.088 in (L / 259)
Horizontal	0.218 in
Vertical	0.786 in (L / 688) [Dead Load Only]
Vertical	1.295 in (L / 418) [Live Load Only]

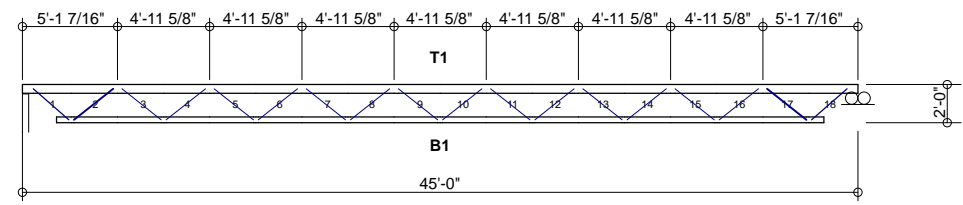
**Support Reactions**

Down	Uplift*	Horizontal	Bearing
Left	5.65 (5.65)	-0.46 [-1.70]	0.00 4.00
Right	5.65 (5.65)	-0.46 [-1.70]	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	2-362S162-68(50)	38.41T	0.00	5.82	58.37	17.62	53.86	0.77
Top Chord	2-550S162-68(50)	38.60C	0.00	17.01	49.39	21.22	101.24	0.95
Web	1-362S162-97(50)	0.84T	0.00	28.72	41.03	12.06	37.30	0.90

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: 14:55  
 Designer: BJR  
 File: BJL24-48-45  
 Job Number: BarJoist

**BJL24-48-45**