

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	250S162-68(50)	14.79	9.82C	0.91	#10 Drivall	0.000	0
TC #1	250S162-68(50)	14.79	9.94C	0.61	#10 Drivall	0.000	0
Web # 1 10	250S162-68(50)	1.27	4.38T	0.82	#10 Drivall	0.465	10
Web # 2 9	250S162-68(50)	1.49	3.46T	0.72	#10 Drivall	0.465	8
Web # 3 8	250S162-68(50)	1.49	4.04C	0.55	#10 Drivall	0.465	9
Web # 4 7	250S162-68(50)	1.49	1.97T	0.41	#10 Drivall	0.465	5
Web # 5 6	250S162-68(50)	1.49	1.50C	0.20	#10 Drivall	0.465	4
BC Lateral Brace	250S162-33(33)	4.00	0.28C	0.14	#10 Drivall	0.234	2
BC Diagonal Brace	250S162-33(33)	6.40	0.46C	0.47	#10 Drivall	0.234	2

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	L-2x3x3x0.104	1	0.36		#10 Drivall	0.444	4
Steel Beam				0.36	EDNI 19P8	0.455	2
Truss Chord	L-2x3x3x0.104	1	0.36		#10 Drivall	0.444	4
Steel Beam				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 SSMA-RCD Library.

Maximum Deflections

Vertical	0.611 in (L / 295)
Horizontal	0.070 in
Vertical	0.204 in (L / 884) [Dead Load Only]
Vertical	0.391 in (L / 461) [Live Load Only]

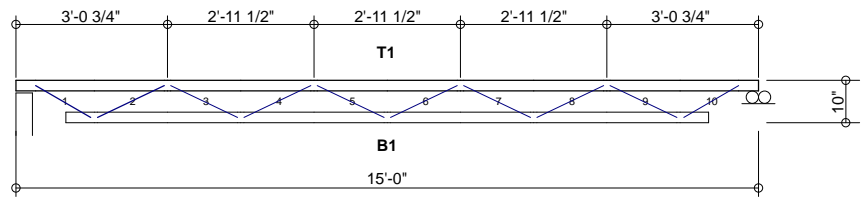
Support Reactions

	Down	Uplift*	Horizontal	Bearing
Left	1.76 {1.76}	-0.36 [-0.70]	0.00	4.00
Right	1.76 {1.76}	-0.36 [-0.70]	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	1-250S162-68(50)	9.82T	0.01	2.35	14.17	2.90	10.69	0.91
Top Chord	1-250S162-68(50)	9.94C	0.00	3.68	26.16	5.80	15.73	0.61
Web	1-250S162-68(50)	0.79T	0.00	6.11	14.17	2.90	10.69	0.82

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

= denotes Added Track



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Bar Joist Equivalent
 Lafayette, CO

Truss D&E, V23.05
 Date: 10-06-2013
 Time: 10:12
 Designer: BJR
 File: BJK10-48-15
 Job Number: BarJoist

BJK10-48-15