

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	250S162-68(50)	27.70	31.04C	0.64	#10 Drivall	0.000	0
TC #1	250S162-68(50)	27.70	31.20C	0.75	#10 Drivall	0.000	0
Web # 1 18	362S162-97(50)+T	1.60	10.33T	0.69	#10 Drivall	0.465	23
Web # 2 17	362S162-97(50)	1.78	7.66T	0.86	#10 Drivall	0.465	17
Web # 3 16	362S162-97(50)	1.78	9.05C	0.67	#10 Drivall	0.465	20
Web # 4 15	362S162-97(50)	1.78	6.45T	0.73	#10 Drivall	0.465	14
Web # 5 14	250S162-68(50)	1.75	5.57C	0.78	#10 Drivall	0.465	12
Web # 6 13	250S162-68(50)	1.75	4.14T	0.87	#10 Drivall	0.465	9
Web # 7 12	250S162-68(50)	1.76	3.87C	0.54	#10 Drivall	0.465	9
Web # 8 11	250S162-68(50)	1.75	2.26T	0.47	#10 Drivall	0.465	5
Web # 9 10	250S162-68(50)	1.76	1.79C	0.25	#10 Drivall	0.465	4
BC Lateral Brace	250S162-54(50)	6.00	0.85C	0.43	#10 Drivall	0.429	2
BC Diagonal Brace	250S162-54(50)	7.60	1.08C	0.77	#10 Drivall	0.429	3

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord	MTS12	1	0.53		#10 Drivall	0.444	4
Steel Stud				0.53	#10 Drivall	0.444	4
Truss Chord	MTS12	1	0.53		#10 Drivall	0.444	4
Steel Stud				0.53	#10 Drivall	0.444	4

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	1.306 in (L / 257)
Horizontal	0.147 in
Vertical	0.461 in (L / 728) [Dead Load Only]
Vertical	0.839 in (L / 400) [Live Load Only]

Support Reactions

Support Reactions	Down	Uplift*	Horizontal	Bearing
Left	5.07 {5.07}	-0.53 [-1.58]	0.00	4.00
Right	5.07 {5.07}	-0.53 [-1.58]	0.00	4.00

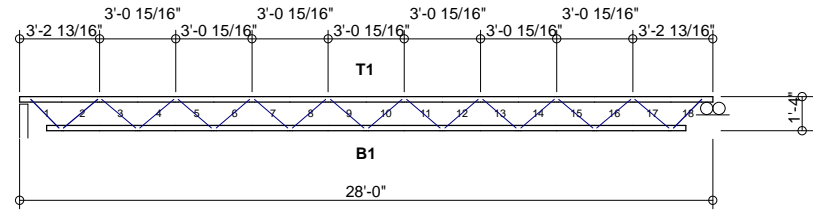
* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } 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



= denotes Added Track

Per AISI S100-2007		Actual			Allowable			Ratio
Member	Section	Po	Vo	Mo	Pa	Va	Ma	
Bottom Chord	2-250S162-68(50)	31.04T	0.00	3.69	59.12	11.60	31.45	0.64
Top Chord	2-250S162-68(50)	31.20C	0.00	4.81	52.32	11.60	31.45	0.75
Web	1-362S162-97(50)	0.95T	0.00	7.81	41.03	12.06	8.72	0.69

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



Rusk Component and Design
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Bar Joist Equivalent

Lafayette, CO

Truss D&E, V23.05
 Date: 10-11-2013
 Time: 10:31
 Designer: BJR
 File: BJK16-72-28
 Job Number: BarJoist

BJK16-72-28