

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-97(50)	35.50	51.45C	0.77	#10 Drivall	0.000	0
TC #1	550S162-97(50)	35.50	50.17C	0.83	#10 Drivall	0.000	0
Web # 1 16	600S162-97(50)	2.08	15.22T	0.86	#10 Drivall	0.465	33
Web # 2 15	362S162-97(50)+TB	2.17	12.87T	0.83	#10 Drivall	0.465	28
Web # 3 14	362S162-97(50)+TB	2.17	13.75C	0.69	#10 Drivall	0.465	30
Web # 4 13	362S162-97(50)+TB	2.17	9.78T	0.63	#10 Drivall	0.465	22
Web # 5 12	362S162-97(50)	2.17	8.84C	0.67	#10 Drivall	0.465	19
Web # 6 11	362S162-97(50)	2.17	6.00T	0.68	#10 Drivall	0.465	13
Web # 7 10	362S162-97(50)	2.17	5.28C	0.40	#10 Drivall	0.465	12
Web # 8 9	362S162-97(50)	2.17	2.26T	0.26	#10 Drivall	0.465	5
BC Lateral Brace	250S162-54(50)	6.00	0.51C	0.26	#10 Drivall	0.461	2
BC Diagonal Brace	250S162-54(50)	8.49	0.72C	0.60	#10 Drivall	0.461	2

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.59		#10 Drivall	0.465	2
Truss Chord Steel Beam	L-2x3x3x0.12	1	0.59	0.59	EDNI 19P8	0.455	2
				0.59	#10 Drivall	0.465	2
				0.59	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 1.824 in (L / 237)
 Horizontal 0.163 in
 Vertical 0.679 in (L / 637) [Dead Load Only]
 Vertical 1.144 in (L / 378) [Live Load Only]

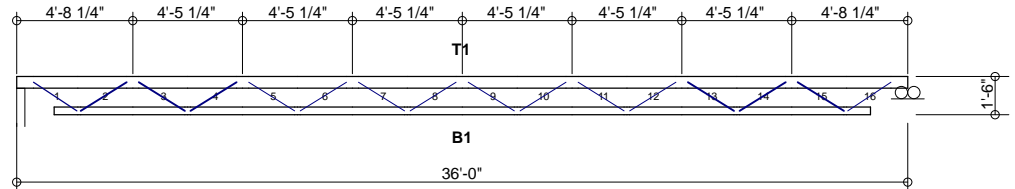
Support Reactions

Down	Uplift*	Horizontal	Bearing
Left 6.66 (6.66)	-0.59 [-2.02]	0.00	4.00
Right 6.66 (6.66)	-0.59 [-2.02]	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)	51.45T	0.00	10.33	82.06	24.11	74.61	0.77
Top Chord	2-550S162-97(50)	50.17C	0.08	30.23	81.04	37.83	141.82	0.83
Web	1-600S162-97(50)	1.21T	0.00	33.77	28.92	10.70	55.54	0.86

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

| denotes Web + T-Brace
 = denotes Added Track



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Bar Joist Equivalent
 Lafayette, CO

Truss D&E, V23.05
 Date: 10-11-2013
 Time: 14:23
 Designer: BJR
 File: BJL18-72-36
 Job Number: BarJoist

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