

Connection	Section	Length	Axial	Int.	Fastener	Pa	Req.
BC #1	362S162-97(50)	39.54	38.40C	0.57	#10 Drivall	0.000	0
TC #1	550S162-97(50)	39.54	37.45C	0.61	#10 Drivall	0.000	0
Web # 1 16	550S162-97(50)	2.49	11.06T	0.78	#10 Drivall	0.465	24
Web # 2 15	362S162-97(50)+TB	2.47	9.75T	0.73	#10 Drivall	0.465	21
Web # 3 14	362S162-97(50)	2.47	9.86C	0.77	#10 Drivall	0.465	22
Web # 4 13	362S162-97(50)	2.47	7.38T	0.83	#10 Drivall	0.465	16
Web # 5 12	362S162-97(50)	2.47	6.70C	0.52	#10 Drivall	0.465	15
Web # 6 11	250S162-68(50)	2.40	4.55T	0.95	#10 Drivall	0.465	10
Web # 7 10	250S162-68(50)	2.40	3.91C	0.59	#10 Drivall	0.465	9
Web # 8 9	250S162-68(50)	2.40	1.74T	0.36	#10 Drivall	0.465	4
BC Lateral Brace	250S162-33(33)	4.00	0.25C	0.12	#10 Drivall	0.234	2
BC Diagonal Brace	250S162-33(33)	7.78	0.49C	0.71	#10 Drivall	0.234	3

Connection	Simpson	each	Load	Uplift/Shear	Fastener	Pa	Req.
Truss Chord Steel Beam	L-2x3x3x0.104	1	0.36		#10 Drivall	0.465	2
Truss Chord Steel Beam	L-2x3x3x0.104	1	0.36	0.36	EDNI 19P8	0.455	2
				0.36	EDNI 19P8	0.455	2

GENERAL NOTES

- Trusses require lateral bracing. See Truss Layout and Detail sheets.
- Top Chord continuously sheathed.
- Brace Webs (2 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.

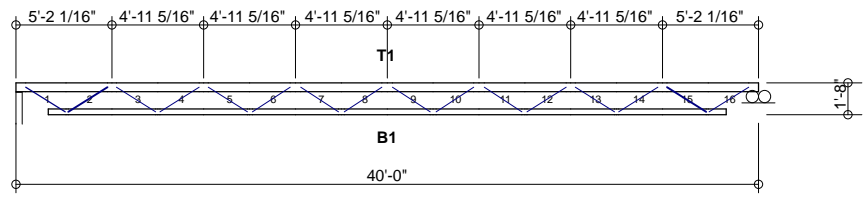
Maximum Deflections
 Vertical 1.564 in (L / 307)
 Horizontal 0.135 in
 Vertical 0.608 in (L / 790) [Dead Load Only]
 Vertical 0.955 in (L / 503) [Live Load Only]

Support Reactions
 Down Uplift* Horizontal Bearing
 Left 5.07 {5.07} -0.36 [-1.50] 0.00 4.00
 Right 5.07 {5.07} -0.36 [-1.50] 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	2-362S162-97(50)	38.40T	0.00	7.46	82.06	24.11	74.61	0.57
Top Chord	2-550S162-97(50)	37.45C	0.02	21.63	81.04	37.83	141.82	0.61
Web	1-550S162-97(50)	0.70T	0.00	17.82	27.39	9.46	31.25	0.78

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

| denotes Web + T-Brace
 = denotes Added Track



Rusk Component and Design
 11357 Billings Ave
 Lafayette, CO 80026
 (303) 828-5747

Bar Joist Equivalent
 Lafayette, CO

Truss D&E, V23.05
 Date: 10-11-2013
 Time: 14:28
 Designer: BJR
 File: BJL20-48-40
 Job Number: BarJoist

BJL20-48-40