

| Connection | Section | Length | Axial | Int. | Fastener | Pa | Req. |
|-------------------|-----------------|--------|-------|------|-------------|-------|------|
| B1-B2 | Plate - 0.1017" | 0.00 | 6.07T | 0.00 | #12 Drivall | 0.609 | 12 |
| T1-T2 | Plate - 0.1017" | 0.00 | 6.34C | 0.00 | #12 Drivall | 0.609 | 12 |
| BC #1 | 362S162-68(50) | 20.97 | 7.16C | 0.62 | #12 Drivall | 0.000 | 0 |
| BC #2 | 362S162-68(50) | 20.97 | 7.16C | 0.62 | #12 Drivall | 0.000 | 0 |
| TC #1 | 600S162-68(50) | 22.24 | 7.58C | 0.88 | #12 Drivall | 0.000 | 0 |
| TC #2 | 600S162-68(50) | 22.24 | 7.58C | 0.88 | #12 Drivall | 0.000 | 0 |
| Web # 1 13 | 250S162-54(50) | 0.58 | 2.35C | 0.38 | #12 Drivall | 0.459 | 6 |
| Web # 2 12 | 362S162-97(50) | 6.41 | 6.97T | 0.79 | #12 Drivall | 0.609 | 12 |
| Web # 3 11 | 250S162-54(50) | 1.68 | 0.59C | 0.10 | #12 Drivall | 0.459 | 4 |
| Web # 4 10 | 250S162-54(50) | 5.88 | 0.78C | 0.28 | #12 Drivall | 0.459 | 4 |
| Web # 5 9 | 250S162-54(50) | 2.79 | 0.42T | 0.11 | #12 Drivall | 0.459 | 4 |
| Web # 6 8 | 362S162-54(50) | 6.14 | 1.99C | 0.61 | #12 Drivall | 0.459 | 5 |
| Web # 7 | 362S162-97(50) | 3.89 | 5.07T | 0.57 | #12 Drivall | 0.609 | 9 |
| BC Lateral Brace | 250S162-33(33) | 2.00 | 0.17C | 0.06 | #12 Drivall | 0.223 | 1 |
| BC Diagonal Brace | 250S162-33(33) | 4.47 | 0.39C | 0.29 | #12 Drivall | 0.223 | 2 |

| Connection | Simpson | each | Load | Uplift/Shear | Fastener | Pa | Req. |
|-------------|---------|------|------|--------------|-------------|-------|------|
| Chord-Wall | | | | 0.84 | #12 Drivall | 0.381 | 3 |
| Truss Chord | VPA2 | 1 | 0.52 | | #12 Drivall | 0.381 | 3 |
| Steel Stud | | | | 0.52 | #12 Drivall | 0.381 | 3 |
| Truss Chord | VPA2 | 1 | 0.52 | | #12 Drivall | 0.381 | 2 |
| Steel Stud | | | | 0.52 | #12 Drivall | 0.381 | 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 | 1.130 in (L / 425) |
| Horizontal | 0.920 in |
| Top Overhang | 0.249 in (L / 145) |
| Vertical | 0.513 in (L / 936) [Dead Load Only] |
| Vertical | 0.617 in (L / 778) [Live Load Only] |

Support Reactions

| | Down | Uplift* | Horizontal | Bearing |
|-------|-------------|---------------|------------|---------|
| Left | 2.45 {2.32} | -0.52 [-1.14] | 0.84 | 3.63 |
| Right | 2.45 {2.32} | -0.52 [-1.14] | 0.00 | 3.63 |

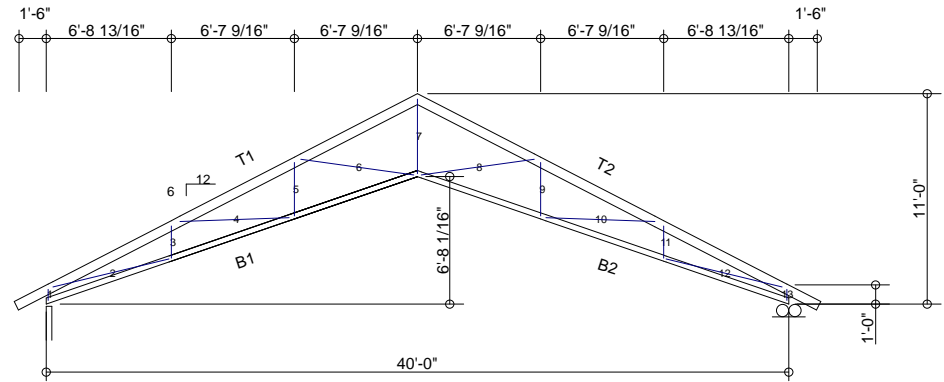
* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind

{ } 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 : 3.625 in
 Spacing : 2.00 ft
 Dead Load : 10.00 psf (top chord)
 Dead Load : 10.00 psf (bottom chord)
 Live Load : 20.00 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 : 22.66 psf (design) [Iw = 1.00]
 Wind Speed : 110 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 | 1-362S162-68(50) | 7.16T | 0.00 | 2.92 | 15.69 | 4.40 | 17.49 | 0.62 |
| Top Chord | 1-600S162-68(50) | 7.58C | 0.02 | 10.94 | 13.34 | 5.35 | 34.85 | 0.88 |
| Web | 1-362S162-97(50) | 0.56T | 0.01 | 3.70 | 10.72 | 2.33 | 7.93 | 0.79 |

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



Rusk Component and Design

11357 Billings Ave
 Lafayette, CO 80026
 (303) 828-5747

Roof Trusses

Lafayette, Co

Truss D&E, V25.011
 Date: 04-24-2015
 Time: 08:21
 Designer: BJR
 File: S-63-40
 Job Number: RoofTruss

S-63-40

Design Dwg 1/1