| Connection | Section | Length | Axial | Int. | Fastener | Pa | Req. |
|---|---|---|---|---|---|---|---|
| BC #1 | 250S162-68(50) | 17.79 | 14.82T | 0.71 | #12 Drivall | 0.000 | 0 |
| TC #1 | 250S162-68(50) | 17.79 | 14.82C | 0.80 | #12 Drivall | 0.000 | 0 |
| Web # 1 | 250S162-68(50) | 0.62 | 0.10C | 0.01 | #12 Drivall | 0.609 | 4 |
| Web # 2 | 362S162-68(50) | 1.54 | 5.31C | 0.61 | #12 Drivall | 0.609 | 9 |
| Web # 3 | 250S162-68(50) | 1.46 | 4.26T | 0.89 | #12 Drivall | 0.609 | 7 |
| Web # 4 | 250S162-68(50) | 0.62 | 0.35C | 0.04 | #12 Drivall | 0.609 | 4 |
| Web # 5 | 250S162-68(50) | 1.46 | 3.12C | 0.43 | #12 Drivall | 0.609 | 6 |
| Web # 6 | 250S162-68(50) | 1.46 | 2.41T | 0.50 | #12 Drivall | 0.609 | 4 |
| Web # 7 | 250S162-68(50) | 0.62 | 0.29C | 0.04 | #12 Drivall | 0.609 | 4 |
| Web # 8 | 250S162-68(50) | 1.36 | 1.25C | 0.17 | #12 Drivall | 0.609 | 4 |
| Web # 9 | 250S162-68(50) | 0.62 | 0.14T | 0.03 | #12 Drivall | 0.609 | 4 |
| Web # 10 | 250S162-68(50) | 0.62 | 0.14T | 0.03 | #12 Drivall | 0.609 | 4 |
| Web # 11 | 250S162-68(50) | 1.36 | 1.25C | 0.17 | #12 Drivall | 0.609 | 4 |
| Web # 12 | 250S162-68(50) | 0.62 | 0.29C | 0.04 | #12 Drivall | 0.609 | 4 |
| Web # 13 | 250S162-68(50) | 1.46 | 2.41T | 0.50 | #12 Drivall | 0.609 | 4 |
| Web # 14 | 250S162-68(50) | 1.46 | 3.15C | 0.43 | #12 Drivall | 0.609 | 6 |
| Web # 15 | 250S162-68(50) | 0.62 | 0.27C | 0.04 | #12 Drivall | 0.609 | 4 |
| Web # 16 | 250S162-68(50) | 1.46 | 4.08T | 0.85 | #12 Drivall | 0.609 | 7 |
| Web # 17 | 362S162-68(50) | 1.63 | 5.42C | 0.63 | #12 Drivall | 0.609 | 9 |
| Web # 18 | 250S162-68(50) | 0.62 | 0.16C | 0.02 | #12 Drivall | 0.609 | 4 |
| BC Lateral Brace | 250S162-43(33) | 4.00 | 0.49C | 0.18 | #12 Drivall | 0.376 | 2 |
| BC Diagonal Brace | 250S162-43(33) | 7.21 | 0.88C | 0.80 | #12 Drivall | 0.376 | 3 |

| Connection | Simpson | each | Load | Uplift/Shea | Fastener | Pa | Req. |
|---|---|---|---|---|---|---|---|
| Truss Chord | S/H1 | 1 | 0.01 | | #12 Drivall | 0.435 | 3 |
| Steel Stud | | | | 0.01 | #12 Drivall | 0.435 | 3 |
| Truss Chord | S/H1 | 1 | 0.01 | | #12 Drivall | 0.435 | 3 |
| Steel Stud | | | | 0.01 | #12 Drivall | 0.435 | 3 |

## GENERAL NOTES

1. Trusses require lateral bracing. See Truss Layout and Detail sheets.
2. Top Chord continuously sheathed.
3. Number of fasteners noted in chart installed on each end of Web
4. Allowable fastener values based on LGSEA Research Note No. 1-00 and Grabber Chart.
5. (ws) denotes web stiffener required at support.
6. Member design based on sections in SSMA-RCD Library.

### Maximum Deflections

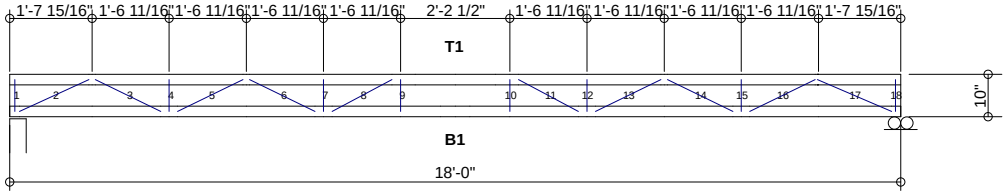
| | | |
|---|---|---|
| Vertical | 0.896 in | (L / 241 ) |
| Horizontal | 0.093 in | |
| Vertical | 0.314 in | (L / 688 ) [Dead Load Only] |
| Vertical | 0.577 in | (L / 374 ) [Live Load Only] |

| Support Reactions | Down | Uplift* | Horizontal | Bearing |
|---|---|---|---|---|
| Left | 2.20 {2.20} | -0.01 | 0.00 | 4.00 |
| Right | 2.21 {2.21} | -0.01 | 0.00 | 4.00 |

* Uplift Load Combination (Truss to Support Connection Only): 0.6Dead + 1.0Wind
{ } Denotes 'Dead+Live Only'

## DESIGN DATA

Number of Trusses = 10 each
Plate Style : Out-Of-Plane
Eave Height : 10.667 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 : 12.00 psf (ground)
Snow Load : 12.00 psf (design) [Is =1.00, Ce = 1.00]
Wind Load : 22.35 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 | | | |
|---|---|---|---|---|---|---|---|---|
| Member | Section | Po | Vo | Mo | Pa | Va | Ma | Ratio |
| Bottom Chord | 1-250S162-68(50) | 14.82T | 0.03 | 3.29 | 29.56 | 5.80 | 15.73 | 0.71 |
| Top Chord | 1-250S162-68(50) | 14.82C | 0.00 | 3.63 | 26.16 | 5.80 | 15.73 | 0.80 |
| Web | 1-362S162-68(50) | 0.16C | 0.00 | 2.69 | 12.78 | 2.90 | 4.54 | 0.63 |

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

**Floor Truss**

Lafayette, CO

Truss D&E, V23.05
Date: 10-18-2013
Time: 09:31
Designer: BJR
File: FT10-48-18
Job Number: Floor-Truss

FT10-48-18

Design Dwg 1/1