

| Beam Type | US Sections - Center Beam Supporting Two Floors | | | | | | | | | | |
|------------------------------------|---|------------------------|-------------------------|------------------------|---------------------|-------------------------|-------------------------|-------------------------|---------------------|-------------------------|---|
| | Tributary Span (ft) | | | | | | | | | | |
| | 8 | | 12 | | 16 | | 20 | | 24 | | |
| | Maximum Unsupported Beam Span, ft | | | | | | | | | | |
| | 12 | | 10 | | 12 | | 8 | | 10 | | 8 |
| LSB | 1000LSB300-79 | 800LSB250-98 | 1000LSB300-118 | 800LSB250-79 | 1000LSB300-118 | 1000LSB300-98 | 1200LSB350-118 | 1000LSB300-98 | 1200LSB350-118 | 1000LSB300-118 | |
| Steel I-Beam | W8x15 | W8x13 | W8x21 | W8x13 | W8x18 | W8x13 | W8x21 | W8x15 | W8x21 | W8x18 | |
| CFS Back-to-Back | (2) 1000S200-97 | (2) 1000S162-68 | (2) 1400S162-97 | (2) 1000S162-97 | (2) 1200S162-118 | (2) 1000S162-97 | (2) 1400S162-118 | (2) 1000S162-118 | None | (2) 1400S162-118 | |
| CFS Box-Beam | None | (2) 1000S162-118 | None | None | None | None | None | None | None | None | |
| LVL | (2) 1-3/4" x 11-1/4" | (2) 1-3/4" x 9-1/2" | (3) 1-3/4" x 11-7/8" | (2) 1-3/4" x 9-1/4" | (2) 1-3/4" x 14" | (2) 1-3/4" x 11-1/4" | (4) 1-3/4" x 11-1/4" | (2) 1-3/4" x 11-7/8" | (3) 1-3/4" x 14" | (3) 1-3/4" x 11-7/8" | |
| Sawn Lumber SPF #2 | (3) 4x14 | (2) 4x12 | (2) 6x16 | (2) 4x12 | (3) 4x14 | (3) 4x12 | (2) 6x16 | (3) 4x12 | (3) 6x14 | (3) 4x14 | |
| Sawn Lumber Douglas Fir | (3) 4x12 | (2) 4x12 | (2) 6x14 | (2) 4x12 | (2) 6x14 | (2) 4x14 | (2) 6x16 | (3) 4x12 | (3) 6x14 | (3) 4x14 | |

Notes:

1. First floor live load = 40 psf; Second floor live load = 40 psf
2. First floor dead load = 15 psf; Second floor dead load = 15 psf
3. Deflection limit: L/360 for live loads and L/240 for total loads
4. Steel I-beams, CFS, and LSB have minimum yield strength of 50 ksi
5. LVLs have 1.9E and Fe = 2.6 ksi
6. LSB is assumed to have full lateral support.