

[ASD] TOTAL ALLOWABLE UNIFORM LOADS (PSF)

| Span Condition | Design Criteria | Clear Span (ft-in) | | | | | | | | | | |
|----------------|-----------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 5' 0" | 5' 6" | 6' 0" | 6' 6" | 7' 0" | 7' 6" | 8' 0" | 8' 6" | 9' 0" | 9' 6" | 10' 0" |
| Single | Downward | 169 | 140 | 118 | 100 | 86 | 75 | 66 | 59 | 52 | 47 | 42 |
| | Upward | 179 | 148 | 125 | 106 | 92 | 80 | 70 | 62 | 55 | 50 | 45 |
| | L/120 | 201 | 151 | 116 | 91 | 73 | 59 | 49 | 41 | 34 | 29 | 25 |
| | L/180 | 134 | 101 | 77 | 61 | 49 | 40 | 33 | 27 | 23 | 20 | 17 |
| | L/240 | 100 | 75 | 58 | 46 | 37 | 30 | 24 | 20 | 17 | 15 | 13 |
| Double | Downward | 178 | 147 | 124 | 105 | 91 | 79 | 69 | 62 | 55 | 49 | 44 |
| | Upward | 170 | 141 | 118 | 101 | 87 | 76 | 67 | 59 | 53 | 47 | 43 |
| | L/120 | 483 | 363 | 280 | 220 | 176 | 143 | 118 | 98 | 83 | 70 | 60 |
| | L/180 | 322 | 242 | 186 | 147 | 117 | 95 | 79 | 66 | 55 | 47 | 40 |
| | L/240 | 242 | 181 | 140 | 110 | 88 | 72 | 59 | 49 | 41 | 35 | 30 |
| 3 or More | Downward | 222 | 184 | 154 | 132 | 113 | 99 | 87 | 77 | 69 | 62 | 56 |
| | Upward | 213 | 176 | 148 | 126 | 109 | 95 | 83 | 74 | 66 | 59 | 53 |
| | L/120 | 378 | 284 | 219 | 172 | 138 | 112 | 92 | 77 | 65 | 55 | 47 |
| | L/180 | 252 | 189 | 146 | 115 | 92 | 75 | 62 | 51 | 43 | 37 | 32 |
| | L/240 | 189 | 142 | 109 | 86 | 69 | 56 | 46 | 38 | 32 | 28 | 24 |

NOTES:

- Load tables are calculated using section properties based on the steel design thickness.
- Loads shown in tables are uniformly distributed loads in psf. Span length assumes center-to-center spacing of supports.
- Uniform loads are calculated in accordance with ANSI/SDI RD-2010.

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