

ProSTUD® Allowable Ceiling Spans

Deflection Limit L/240

| Section | F _y (ksi) | 4psf Lateral Support of Compression Flange | | | | | | 6psf Lateral Support of Compression Flange | | | | | |
|--------------|-------------------------|-----------------------------------------------|---------|---------|----------------------------------|---------|----------|-----------------------------------------------|---------|----------|----------------------------------|----------|----------|
| | | Unsupported joist spacing (in) o.c. | | | Mid-span joist spacing (in) o.c. | | | Unsupported joist spacing (in) o.c. | | | Mid-span joist spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 162PDS125-15 | 50 | 7' 3" | 6' 8" | 5' 11" | 7' 10" | 7' 2" | 6' 3" | 6' 5" | 5' 11" | 5' 3" | 6' 10" | 6' 3" | 5' 5" |
| 250PDS125-15 | 50 | 8' 4" | 7' 8" | 6' 11" | 10' 11" | 9' 11" | 8' 8" | 7' 5" | 6' 11" | 6' 2" | 9' 7" | 8' 8" | 7' 7" |
| 362PDS125-15 | 50 | 9' 2" | 8' 6" | 7' 7" | 12' 9" | 11' 8" | 10' 3" | 8' 3" | 7' 7" | 6' 9" | 11' 3" | 10' 3" | 8' 11" e |
| 400PDS125-15 | 50 | 9' 5" | 8' 9" | 7' 10" | 13' 1" | 12' 0" | 10' 7" e | 8' 6" | 7' 10" | 6' 11" e | 11' 7" e | 10' 7" e | 9' 3" e |
| 600PDS125-15 | 50 | 10' 8" | 9' 10" | 8' 10" | 15' 0" | 13' 9" | 12' 2" | 9' 6" | 8' 10" | 7' 11" | 13' 3" | 12' 2" | 9' 11" e |
| 162PDS125-18 | 70 | 7' 10" | 7' 3" | 6' 6" | 8' 4" | 7' 7" | 6' 8" | 7' 1" | 6' 6" | 5' 9" | 7' 4" | 6' 8" | 5' 10" |
| 250PDS125-18 | 70 | 9' 0" | 8' 5" | 7' 7" | 11' 9" | 10' 8" | 9' 4" | 8' 2" | 7' 7" | 6' 9" | 10' 3" | 9' 4" | 8' 2" |
| 362PDS125-18 | 70 | 9' 11" | 9' 2" | 8' 3" | 14' 1" | 12' 11" | 11' 6" | 8' 11" | 8' 3" | 7' 5" | 12' 6" | 11' 6" | 10' 2" |
| 400PDS125-18 | 70 | 10' 2" | 9' 5" | 8' 6" | 14' 6" | 13' 4" | 11' 10" | 9' 2" | 8' 6" | 7' 8" | 12' 11" | 11' 10" | 10' 6" |
| 600PDS125-18 | 70 | 11' 10" | 10' 11" | 9' 10" | 16' 10" | 15' 6" | 13' 10" | 10' 7" | 9' 10" | 8' 10" | 15' 0" | 13' 10" | 12' 3" |
| 162PDS125-30 | 33 | 9' 4" | 8' 7" | 7' 8" | 9' 10" | 9' 0" | 7' 10" | 8' 3" | 7' 8" | 6' 10" | 8' 7" | 7' 10" | 6' 10" |
| 250PDS125-30 | 33 | 10' 4" | 9' 7" | 8' 6" | 13' 8" | 12' 5" | 10' 10" | 9' 3" | 8' 6" | 7' 8" | 11' 11" | 10' 10" | 9' 6" |
| 362PDS125-30 | 33 | 11' 3" | 10' 5" | 9' 4" | 16' 2" | 15' 0" | 13' 6" | 10' 1" | 9' 4" | 8' 5" | 14' 7" | 13' 6" | 12' 0" |
| 400PDS125-30 | 33 | 11' 7" | 10' 9" | 9' 8" | 16' 8" | 15' 6" | 13' 11" | 10' 5" | 9' 8" | 8' 8" | 15' 0" | 13' 11" | 12' 5" |
| 600PDS125-30 | 33 | 13' 1" | 12' 2" | 10' 11" | 18' 11" | 17' 6" | 15' 8" | 11' 9" | 10' 11" | 9' 10" | 17' 0" | 15' 8" | 14' 1" |
| 162PDS125-33 | 33 | 9' 9" | 9' 0" | 8' 0" | 10' 4" | 9' 4" | 8' 2" | 8' 8" | 8' 0" | 7' 1" | 9' 0" | 8' 2" | 7' 2" |
| 250PDS125-33 | 33 | 10' 9" | 9' 11" | 8' 10" | 14' 3" | 12' 11" | 11' 3" | 9' 7" | 8' 10" | 7' 11" | 12' 5" | 11' 3" | 9' 10" |
| 362PDS125-33 | 33 | 11' 8" | 10' 9" | 9' 8" | 16' 8" | 15' 5" | 13' 11" | 10' 5" | 9' 8" | 8' 8" | 15' 0" | 13' 11" | 12' 6" |
| 400PDS125-33 | 33 | 12' 0" | 11' 1" | 9' 11" | 17' 2" | 15' 11" | 14' 4" | 10' 9" | 9' 11" | 8' 11" | 15' 5" | 14' 4" | 12' 10" |
| 600PDS125-33 | 33 | 13' 6" | 12' 6" | 11' 3" | 19' 6" | 18' 1" | 16' 3" | 12' 2" | 11' 3" | 10' 1" | 17' 6" | 16' 3" | 14' 7" |

ProSTUD Allowable Ceiling Spans

Deflection Limit L/360

| Section | F _y (ksi) | 4psf Lateral Support of Compression Flange | | | | | | 6psf Lateral Support of Compression Flange | | | | | |
|--------------|-------------------------|-----------------------------------------------|---------|---------|----------------------------------|---------|----------|-----------------------------------------------|---------|----------|----------------------------------|----------|----------|
| | | Unsupported joist spacing (in) o.c. | | | Mid-span joist spacing (in) o.c. | | | Unsupported joist spacing (in) o.c. | | | Mid-span joist spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 162PDS125-15 | 50 | 6' 10" | 6' 3" | 5' 5" | 6' 10" | 6' 3" | 5' 5" | 6' 0" | 5' 5" | 4' 9" | 6' 0" | 5' 5" | 4' 9" |
| 250PDS125-15 | 50 | 8' 4" | 7' 8" | 6' 11" | 9' 7" | 8' 8" | 7' 7" | 7' 5" | 6' 11" | 6' 2" | 8' 4" | 7' 7" | 6' 8" |
| 362PDS125-15 | 50 | 9' 2" | 8' 6" | 7' 7" | 12' 9" | 11' 7" | 10' 1" | 8' 3" | 7' 7" | 6' 9" | 11' 2" | 10' 1" | 8' 10" e |
| 400PDS125-15 | 50 | 9' 5" | 8' 9" | 7' 10" | 13' 1" | 12' 0" | 10' 7" e | 8' 6" | 7' 10" | 6' 11" e | 11' 7" e | 10' 7" e | 9' 3" e |
| 600PDS125-15 | 50 | 10' 8" | 9' 10" | 8' 10" | 15' 0" | 13' 9" | 12' 2" | 9' 6" | 8' 10" | 7' 11" | 13' 3" | 12' 2" | 9' 11" e |
| 162PDS125-18 | 70 | 7' 4" | 6' 8" | 5' 10" | 7' 4" | 6' 8" | 5' 10" | 6' 5" | 5' 10" | 5' 1" | 6' 5" | 5' 10" | 5' 1" |
| 250PDS125-18 | 70 | 9' 0" | 8' 5" | 7' 7" | 10' 3" | 9' 4" | 8' 2" | 8' 2" | 7' 7" | 6' 9" | 9' 0" | 8' 2" | 7' 2" |
| 362PDS125-18 | 70 | 9' 11" | 9' 2" | 8' 3" | 13' 9" | 12' 6" | 10' 11" | 8' 11" | 8' 3" | 7' 5" | 12' 0" | 10' 11" | 9' 6" |
| 400PDS125-18 | 70 | 10' 2" | 9' 5" | 8' 6" | 14' 6" | 13' 4" | 11' 8" | 9' 2" | 8' 6" | 7' 8" | 12' 10" | 11' 8" | 10' 2" |
| 600PDS125-18 | 70 | 11' 10" | 10' 11" | 9' 10" | 16' 10" | 15' 6" | 13' 10" | 10' 7" | 9' 10" | 8' 10" | 15' 0" | 13' 10" | 12' 3" |
| 162PDS125-30 | 33 | 8' 7" | 7' 10" | 6' 10" | 8' 7" | 7' 10" | 6' 10" | 7' 6" | 6' 10" | 6' 0" | 7' 6" | 6' 10" | 6' 0" |
| 250PDS125-30 | 33 | 10' 4" | 9' 7" | 8' 6" | 11' 11" | 10' 10" | 9' 6" | 9' 3" | 8' 6" | 7' 8" | 10' 5" | 9' 6" | 8' 3" |
| 362PDS125-30 | 33 | 11' 3" | 10' 5" | 9' 4" | 15' 11" | 14' 6" | 12' 8" | 10' 1" | 9' 4" | 8' 5" | 13' 11" | 12' 8" | 11' 1" |
| 400PDS125-30 | 33 | 11' 7" | 10' 9" | 9' 8" | 16' 8" | 15' 6" | 13' 9" | 10' 5" | 9' 8" | 8' 8" | 15' 0" | 13' 9" | 12' 0" |
| 600PDS125-30 | 33 | 13' 1" | 12' 2" | 10' 11" | 18' 11" | 17' 6" | 15' 8" | 11' 9" | 10' 11" | 9' 10" | 17' 0" | 15' 8" | 14' 1" |
| 162PDS125-33 | 33 | 9' 0" | 8' 2" | 7' 2" | 9' 0" | 8' 2" | 7' 2" | 7' 10" | 7' 2" | 6' 3" | 7' 10" | 7' 2" | 6' 3" |
| 250PDS125-33 | 33 | 10' 9" | 9' 11" | 8' 10" | 12' 5" | 11' 3" | 9' 10" | 9' 7" | 8' 10" | 7' 11" | 10' 10" | 9' 10" | 8' 7" |
| 362PDS125-33 | 33 | 11' 8" | 10' 9" | 9' 8" | 16' 6" | 15' 0" | 13' 2" | 10' 5" | 9' 8" | 8' 8" | 14' 5" | 13' 2" | 11' 6" |
| 400PDS125-33 | 33 | 12' 0" | 11' 1" | 9' 11" | 17' 2" | 15' 11" | 14' 3" | 10' 9" | 9' 11" | 8' 11" | 15' 5" | 14' 3" | 12' 5" |
| 600PDS125-33 | 33 | 13' 6" | 12' 6" | 11' 3" | 19' 6" | 18' 1" | 16' 3" | 12' 2" | 11' 3" | 10' 1" | 17' 6" | 16' 3" | 14' 7" |

- Notes:**
- For unbraced sections, allowable moment is based on AISI S100-16 Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be the listed span (completely unbraced). For mid-span braced sections, allowable moment based on 2016 AISI Specification Section C3.1.2 with weak axis and torsional unbraced length assumed to be one-half of the listed span (bracing at mid-span).
 - Web crippling calculation based on bearing length = 1 inch.
 - Web crippling and shear capacity have not been reduced for punchouts. If web punchouts occur near support members must be checked for reduced shear and web crippling in accordance with the AISI S100-16 Specification.
 - Values are for simple span conditions.
 - e Web stiffeners required at support.

Complies with AISI S100-16 • AISI S220-15 • IBC 2018