

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 125psf Live Load (TL Deflection=L/240)

| Member | Yield strength F _y (ksi) | Live Load Deflection L/360 | | | | | | Live Load Deflection L/480 | | | | | |
|------------|--|----------------------------------|-----------|----------|-------------------------------------|-----------|----------|----------------------------------|----------|----------|-------------------------------------|-----------|----------|
| | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 600S137-33 | 33 | 6' 3" e | 5' 5" e | 4' 5" e | 5' 10" a | 4' 9" a | 3' 5" a | 6' 3" e | 5' 5" e | 4' 5" e | 5' 10" a | 4' 9" a | 3' 5" a |
| 600S137-43 | 33 | 7' 5" e | 6' 5" e | 5' 3" e | 7' 5" a | 6' 5" a | 5' 3" a | 7' 5" e | 6' 5" e | 5' 3" e | 7' 5" a | 6' 5" a | 5' 3" a |
| 600S137-54 | 50 | 9' 7" | 8' 7" | 7' 0" e | 9' 11" i | 8' 7" i | 7' 0" i | 8' 8" | 7' 11" | 6' 11" e | 9' 9" i | 8' 7" i | 7' 0" i |
| 600S137-68 | 50 | 10' 3" | 9' 4" | 8' 2" | 11' 6" i | 10' 0" i | 8' 2" i | 9' 4" | 8' 6" | 7' 5" | 10' 6" i | 9' 6" i | 8' 2" i |
| 600S137-97 | 50 | 11' 4" | 10' 4" | 9' 0" | 12' 9" | 11' 7" i | 10' 1" i | 10' 4" | 9' 4" | 8' 2" | 11' 7" | 10' 6" | 9' 2" i |
| 600S162-33 | 33 | 6' 9" e | 5' 10" e | 4' 9" e | 6' 1" a | 4' 11" a | 3' 7" a | 6' 9" e | 5' 10" e | 4' 9" e | 6' 1" a | 4' 11" a | 3' 7" a |
| 600S162-43 | 33 | 8' 0" e | 6' 11" e | 5' 8" e | 8' 0" a | 6' 11" a | 5' 8" a | 8' 0" e | 6' 11" e | 5' 8" e | 8' 0" a | 6' 11" a | 5' 8" a |
| 600S162-54 | 50 | 10' 0" | 9' 1" | 7' 7" e | 10' 8" i | 9' 3" i | 7' 7" i | 9' 1" | 8' 3" e | 7' 3" e | 10' 2" i | 9' 3" i | 7' 7" i |
| 600S162-68 | 50 | 10' 9" | 9' 9" | 8' 6" | 12' 0" i | 10' 9" i | 8' 9" i | 9' 9" | 8' 10" | 7' 9" | 10' 11" i | 9' 11" i | 8' 8" i |
| 600S162-97 | 50 | 11' 11" | 10' 10" | 9' 5" | 13' 4" | 12' 1" i | 10' 7" i | 10' 10" | 9' 10" | 8' 7" | 12' 1" | 11' 0" | 9' 7" i |
| 600S200-33 | 33 | 7' 2" e | 6' 3" e | 4' 9" e | 6' 4" a | 5' 1" a | 3' 8" a | 7' 2" e | 6' 3" e | 4' 9" e | 6' 4" a | 5' 1" a | 3' 8" a |
| 600S200-43 | 33 | 8' 7" e | 7' 5" e | 6' 1" e | 8' 7" a | 7' 5" a | 6' 0" a | 8' 7" e | 7' 5" e | 6' 1" e | 8' 7" a | 7' 5" a | 6' 0" a |
| 600S200-54 | 50 | 10' 6" | 9' 7" | 8' 1" e | 11' 5" i | 9' 11" i | 8' 1" a | 9' 7" | 8' 8" | 7' 7" e | 10' 9" i | 9' 9" i | 8' 1" a |
| 600S200-68 | 50 | 11' 3" | 10' 3" | 8' 11" | 12' 8" i | 11' 6" i | 9' 5" i | 10' 3" | 9' 4" | 8' 2" | 11' 6" i | 10' 5" i | 9' 2" i |
| 600S200-97 | 50 | 12' 6" | 11' 4" | 9' 11" | 14' 1" | 12' 9" i | 11' 2" i | 11' 4" | 10' 4" | 9' 0" | 12' 9" | 11' 7" | 10' 2" i |
| 600S250-43 | 33 | 8' 10" e | 7' 8" e | 6' 3" e | 8' 10" a | 7' 8" a | 6' 1" a | 8' 10" e | 7' 8" e | 6' 3" e | 8' 10" a | 7' 8" a | 6' 1" a |
| 600S250-54 | 50 | 11' 0" | 9' 11" | 8' 3" e | 11' 8" i | 10' 2" i | 8' 3" a | 9' 11" | 9' 1" | 7' 11" e | 11' 2" i | 10' 2" i | 8' 3" a |
| 600S250-68 | 50 | 11' 10" | 10' 9" | 9' 5" | 13' 3" i | 11' 10" i | 9' 8" i | 10' 9" | 9' 9" | 8' 6" | 12' 1" i | 10' 11" i | 9' 7" i |
| 600S250-97 | 50 | 13' 2" | 11' 11" | 10' 5" | 14' 9" | 13' 5" i | 11' 9" i | 11' 11" | 10' 10" | 9' 6" | 13' 5" | 12' 2" | 10' 8" i |
| 600S300-54 | 50 | 11' 2" | 10' 2" e | 8' 5" e | 11' 11" i | 10' 4" i | 8' 5" a | 10' 2" | 9' 3" | 8' 1" e | 11' 5" i | 10' 4" i | 8' 5" a |
| 600S300-68 | 50 | 12' 3" | 11' 1" | 9' 8" | 13' 9" i | 12' 1" i | 9' 10" i | 11' 1" | 10' 1" | 8' 10" | 12' 6" i | 11' 4" i | 9' 10" i |
| 600S300-97 | 50 | 13' 8" | 12' 5" | 10' 10" | 15' 4" | 13' 11" i | 12' 2" i | 12' 5" | 11' 3" | 9' 10" | 13' 11" i | 12' 8" | 11' 1" i |
| 800S137-33 | 33 | 7' 0" e | 5' 3" e | 3' 6" e | 5' 4" a | 4' 3" a | 2' 10" a | 7' 0" e | 5' 3" e | 3' 6" e | 5' 4" a | 4' 3" a | 2' 10" a |
| 800S137-43 | 33 | 8' 8" e | 7' 6" e | 6' 1" e | 8' 8" a | 7' 1" a | 5' 3" a | 8' 8" e | 7' 6" e | 6' 1" e | 8' 8" a | 7' 1" a | 5' 3" a |
| 800S137-54 | 50 | 11' 7" | 10' 0" e | 8' 2" e | 11' 7" i | 10' 0" i | 8' 2" a | 10' 11" | 9' 11" e | 8' 2" e | 11' 7" i | 10' 0" i | 8' 2" a |
| 800S137-68 | 50 | 13' 0" | 11' 9" | 9' 7" | 13' 7" i | 11' 9" i | 9' 7" i | 11' 10" | 10' 9" | 9' 5" | 13' 3" i | 11' 9" i | 9' 7" i |
| 800S137-97 | 50 | 14' 5" | 13' 1" | 11' 5" | 16' 2" i | 14' 9" i | 12' 2" i | 13' 1" | 11' 11" | 10' 5" | 14' 9" | 13' 5" i | 11' 8" i |
| 800S162-33 | 33 | 7' 0" e | 5' 3" e | 3' 6" e | 5' 6" a | 4' 3" a | 2' 10" a | 7' 0" e | 5' 3" e | 3' 6" e | 5' 6" a | 4' 3" a | 2' 10" a |
| 800S162-43 | 33 | 9' 4" e | 8' 1" e | 6' 7" e | 9' 1" a | 7' 5" a | 5' 6" a | 9' 4" e | 8' 1" e | 6' 7" e | 9' 1" a | 7' 5" a | 5' 6" a |
| 800S162-54 | 50 | 12' 6" | 10' 10" e | 8' 10" e | 12' 6" i | 10' 10" i | 8' 9" a | 11' 4" | 10' 4" e | 8' 10" e | 12' 6" i | 10' 10" i | 8' 9" a |
| 800S162-68 | 50 | 13' 6" | 12' 3" | 10' 4" e | 14' 7" i | 12' 8" i | 10' 4" i | 12' 3" | 11' 2" | 9' 9" | 13' 10" i | 12' 6" i | 10' 4" i |
| 800S162-97 | 50 | 15' 0" | 13' 8" | 11' 11" | 16' 11" i | 15' 4" i | 13' 1" i | 13' 8" | 12' 5" | 10' 10" | 15' 4" | 13' 11" i | 12' 2" i |

Notes:

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- 6 See additional floor joist notes on page 62.

Complies with AISI S100-16 (2020) w/S20-2 • IBC 2024

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 125psf Live Load (TL Deflection=L/240)

| Member | Yield strength Fy (ksi) | Live Load Deflection L/360 | | | | | | Live Load Deflection L/480 | | | | | |
|-------------|----------------------------|----------------------------------|-----------|-----------|-------------------------------------|-----------|-----------|----------------------------------|-----------|-----------|-------------------------------------|-----------|-----------|
| | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 800S200-33 | 33 | 7' 0" e | 5' 3" e | 3' 6" e | 5' 7" a | 4' 3" a | 2' 10" a | 7' 0" e | 5' 3" e | 3' 6" e | 5' 7" a | 4' 3" a | 2' 10" a |
| 800S200-43 | 33 | 10' 0" e | 8' 8" e | 7' 1" e | 9' 6" a | 7' 8" a | 5' 8" a | 10' 0" e | 8' 8" e | 7' 1" e | 9' 6" a | 7' 8" a | 5' 8" a |
| 800S200-54 | 50 | 13' 2" e | 11' 7" e | 9' 5" e | 13' 4" i | 11' 7" a | 9' 1" a | 12' 0" e | 10' 11" e | 9' 5" e | 13' 4" i | 11' 7" a | 9' 1" a |
| 800S200-68 | 50 | 14' 2" e | 12' 11" e | 11' 1" e | 15' 7" i | 13' 6" i | 11' 1" i | 12' 11" e | 11' 8" e | 10' 3" e | 14' 5" i | 13' 2" i | 11' 1" i |
| 800S200-97 | 50 | 15' 9" e | 14' 4" e | 12' 6" e | 17' 8" i | 16' 1" i | 13' 11" i | 14' 4" e | 13' 0" e | 11' 4" e | 16' 1" e | 14' 7" i | 12' 9" i |
| 800S250-43 | 33 | 10' 4" e | 8' 11" e | 7' 3" e | 9' 8" a | 7' 10" a | 5' 9" a | 10' 4" e | 8' 11" e | 7' 3" e | 9' 8" a | 7' 10" a | 5' 9" a |
| 800S250-54 | 50 | 13' 8" e | 11' 10" e | 9' 8" e | 13' 8" i | 11' 10" a | 9' 3" a | 12' 6" e | 11' 4" e | 9' 8" e | 13' 8" i | 11' 10" a | 9' 3" a |
| 800S250-68 | 50 | 14' 9" e | 13' 5" e | 11' 4" e | 16' 0" i | 13' 11" i | 11' 4" a | 13' 5" e | 12' 2" e | 10' 8" e | 15' 1" i | 13' 8" i | 11' 4" a |
| 800S250-97 | 50 | 16' 6" e | 15' 0" e | 13' 1" e | 18' 6" i | 16' 10" i | 14' 4" i | 15' 0" e | 13' 7" e | 11' 11" e | 16' 10" e | 15' 3" i | 13' 4" i |
| 800S300-54 | 50 | 13' 11" e | 12' 0" e | 9' 10" e | 13' 11" i | 12' 0" a | 9' 4" a | 12' 9" e | 11' 7" e | 9' 10" e | 13' 11" i | 12' 0" a | 9' 4" a |
| 800S300-68 | 50 | 15' 3" e | 13' 10" e | 11' 6" e | 16' 3" i | 14' 1" i | 11' 6" a | 13' 10" e | 12' 7" e | 11' 0" e | 15' 6" i | 14' 1" i | 11' 6" a |
| 800S300-97 | 50 | 17' 1" e | 15' 6" e | 13' 6" e | 19' 2" i | 17' 5" i | 14' 8" i | 15' 6" e | 14' 1" e | 12' 4" e | 17' 5" e | 15' 10" i | 13' 10" i |
| 1000S162-43 | 33 | 10' 5" e | 9' 0" e | 6' 2" e | 8' 8" a | 7' 0" a | 4' 11" a | 10' 5" e | 9' 0" e | 6' 2" e | 8' 8" a | 7' 0" a | 4' 11" a |
| 1000S162-54 | 50 | 13' 10" e | 12' 0" e | 9' 10" e | 13' 10" i | 11' 4" a | 8' 5" a | 13' 6" e | 12' 0" e | 9' 10" e | 13' 10" i | 11' 4" a | 8' 5" a |
| 1000S162-68 | 50 | 16' 1" e | 14' 2" e | 11' 7" e | 16' 4" i | 14' 2" i | 11' 7" a | 14' 8" e | 13' 4" e | 11' 7" e | 16' 4" i | 14' 2" i | 11' 7" a |
| 1000S162-97 | 50 | 18' 1" e | 16' 5" e | 14' 4" e | 20' 4" i | 18' 1" i | 14' 10" i | 16' 5" e | 14' 11" e | 13' 1" e | 18' 6" i | 16' 9" i | 14' 8" i |
| 1000S200-43 | 33 | 11' 3" e | 9' 3" e | 6' 2" e | 9' 0" a | 7' 2" a | 4' 11" a | 11' 3" e | 9' 3" e | 6' 2" e | 9' 0" a | 7' 2" a | 4' 11" a |
| 1000S200-54 | 50 | 14' 11" e | 12' 11" e | 10' 7" e | 14' 5" a | 11' 9" a | 8' 9" a | 14' 2" e | 12' 10" e | 10' 7" e | 14' 5" a | 11' 9" a | 8' 9" a |
| 1000S200-68 | 50 | 16' 10" e | 15' 3" e | 12' 5" e | 17' 7" i | 15' 3" i | 12' 5" a | 15' 4" e | 13' 11" e | 12' 2" e | 17' 2" i | 15' 3" i | 12' 5" a |
| 1000S200-97 | 50 | 18' 11" e | 17' 2" e | 15' 0" e | 21' 3" i | 19' 3" i | 15' 10" i | 17' 2" e | 15' 7" e | 13' 8" e | 19' 3" i | 17' 6" i | 15' 4" i |
| 1000S250-54 | 50 | 15' 4" e | 13' 4" e | 10' 10" e | 14' 8" a | 12' 0" a | 8' 10" a | 14' 11" e | 13' 4" e | 10' 10" e | 14' 8" a | 12' 0" a | 8' 10" a |
| 1000S250-68 | 50 | 17' 8" e | 15' 8" e | 12' 9" e | 18' 1" i | 15' 8" i | 12' 9" a | 16' 0" e | 14' 7" e | 12' 9" e | 18' 0" i | 15' 8" i | 12' 9" a |
| 1000S250-97 | 50 | 19' 8" e | 17' 11" e | 15' 8" e | 22' 1" i | 20' 0" i | 16' 4" i | 17' 11" e | 16' 3" e | 14' 2" e | 20' 1" i | 18' 3" i | 15' 11" i |
| 1000S300-54 | 50 | 15' 7" e | 13' 6" e | 11' 0" e | 14' 10" a | 12' 1" a | 8' 11" a | 15' 3" e | 13' 6" e | 11' 0" e | 14' 10" a | 12' 1" a | 8' 11" a |
| 1000S300-68 | 50 | 18' 2" e | 15' 11" e | 13' 0" e | 18' 4" i | 15' 11" i | 13' 0" a | 16' 6" e | 15' 0" e | 13' 0" e | 18' 4" i | 15' 11" i | 13' 0" a |
| 1000S300-97 | 50 | 20' 4" e | 18' 5" e | 16' 1" e | 22' 10" i | 20' 4" i | 16' 7" i | 18' 5" e | 16' 9" e | 14' 8" e | 20' 9" i | 18' 10" i | 16' 5" i |
| 1200S162-54 | 50 | 14' 11" e | 12' 11" e | 10' 2" e | 13' 4" a | 10' 9" a | 7' 10" a | 14' 11" e | 12' 11" e | 10' 2" e | 13' 4" a | 10' 9" a | 7' 10" a |
| 1200S162-68 | 50 | 17' 9" e | 15' 4" e | 12' 7" e | 17' 9" i | 15' 4" i | 12' 2" a | 16' 11" e | 15' 4" e | 12' 7" e | 17' 9" i | 15' 4" i | 12' 2" a |
| 1200S162-97 | 50 | 21' 1" e | 19' 2" e | 16' 3" e | 22' 11" i | 19' 10" i | 16' 3" i | 19' 2" e | 17' 5" e | 15' 2" e | 21' 6" i | 19' 6" i | 16' 3" i |
| 1200S200-54 | 50 | 16' 3" e | 14' 1" e | 10' 2" e | 13' 11" a | 11' 2" a | 8' 1" a | 16' 3" e | 14' 1" e | 10' 2" e | 13' 11" a | 11' 2" a | 8' 1" a |
| 1200S200-68 | 50 | 19' 2" e | 16' 7" e | 13' 7" e | 19' 2" i | 16' 7" a | 12' 8" a | 17' 7" e | 16' 0" e | 13' 7" e | 19' 2" i | 16' 7" a | 12' 8" a |
| 1200S200-97 | 50 | 21' 11" e | 19' 11" e | 17' 5" e | 24' 7" i | 21' 4" i | 17' 5" i | 19' 11" e | 18' 1" e | 15' 10" e | 22' 4" i | 20' 4" i | 17' 5" i |

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- 6 See additional floor joist notes on page 62.

Complies with AISI S100-16 (2020) w/S20-2 • IBC 2024

The technical content of this literature is effective 06/01/24 and supersedes all previous information.

FLOOR JOIST SPAN LIMITATIONS

10psf Dead Load and 125psf Live Load (TL Deflection=L/240)

| Member | Yield strength F _y (ksi) | Live Load Deflection L/360 | | | | | | Live Load Deflection L/480 | | | | | |
|-------------|--|----------------------------------|-----------|-----------|-------------------------------------|-----------|-----------|----------------------------------|-----------|-----------|-------------------------------------|-----------|-----------|
| | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | | Single span spacing (in) o.c. | | | Two equal span spacing (in) o.c. | | |
| | | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 | 12 | 16 | 24 |
| 1200S250-54 | 50 | 16' 9" e | 14' 6" e | 10' 2" e | 14' 2" a | 11' 4" a | 8' 2" a | 16' 9" e | 14' 6" e | 10' 2" e | 14' 2" a | 11' 4" a | 8' 2" a |
| 1200S250-68 | 50 | 19' 10" e | 17' 2" e | 14' 0" e | 19' 10" i | 17' 2" a | 12' 11" a | 18' 4" e | 16' 8" e | 14' 0" e | 19' 10" i | 17' 2" a | 12' 11" a |
| 1200S250-97 | 50 | 22' 9" | 20' 8" | 18' 0" e | 25' 5" i | 22' 0" i | 18' 0" i | 20' 8" | 18' 10" | 16' 5" | 23' 3" i | 21' 1" i | 18' 0" i |
| 1200S300-54 | 50 | 17' 1" e | 14' 10" e | 10' 2" e | 14' 4" a | 11' 5" a | 8' 2" a | 17' 1" e | 14' 10" e | 10' 2" e | 14' 4" a | 11' 5" a | 8' 2" a |
| 1200S300-68 | 50 | 20' 2" e | 17' 6" e | 14' 3" e | 20' 2" i | 17' 4" a | 13' 1" a | 19' 1" e | 17' 4" e | 14' 3" e | 20' 2" i | 17' 4" a | 13' 1" a |
| 1200S300-97 | 50 | 23' 6" | 21' 4" | 18' 5" e | 26' 0" i | 22' 6" i | 18' 5" i | 21' 4" | 19' 5" | 16' 11" | 24' 0" i | 21' 9" i | 18' 5" i |
| 1400S162-54 | 50 | 15' 10" e | 13' 1" e | 8' 9" e | 12' 8" a | 10' 1" a | 7' 0" a | 15' 10" e | 13' 1" e | 8' 9" e | 12' 8" a | 10' 1" a | 7' 0" a |
| 1400S162-68 | 50 | 18' 10" e | 16' 4" e | 13' 4" e | 18' 10" i | 15' 8" a | 11' 8" a | 18' 10" e | 16' 4" e | 13' 4" e | 18' 10" i | 15' 8" a | 11' 8" a |
| 1400S162-97 | 50 | 23' 10" | 21' 4" | 17' 5" e | 24' 7" i | 21' 4" i | 17' 5" i | 21' 8" | 19' 8" | 17' 3" e | 24' 4" i | 21' 4" i | 17' 5" i |
| 1400S200-54 | 50 | 17' 3" e | 13' 1" e | 8' 9" e | 13' 2" a | 10' 5" a | 7' 0" a | 17' 3" e | 13' 1" e | 8' 9" e | 13' 2" a | 10' 5" a | 7' 0" a |
| 1400S200-68 | 50 | 20' 6" e | 17' 9" e | 14' 6" e | 20' 2" i | 16' 5" a | 12' 2" a | 19' 10" e | 17' 9" e | 14' 6" e | 20' 2" i | 16' 5" a | 12' 2" a |
| 1400S200-97 | 50 | 24' 10" | 22' 6" | 18' 9" e | 26' 6" i | 23' 0" i | 18' 9" i | 22' 6" | 20' 6" | 17' 11" e | 25' 4" i | 23' 0" i | 18' 9" i |
| 1400S250-54 | 50 | 17' 5" e | 13' 1" e | 8' 9" e | 13' 5" a | 10' 5" a | 7' 0" a | 17' 5" e | 13' 1" e | 8' 9" e | 13' 5" a | 10' 5" a | 7' 0" a |
| 1400S250-68 | 50 | 21' 3" e | 18' 5" e | 15' 0" e | 20' 7" a | 16' 9" a | 12' 5" a | 20' 8" e | 18' 5" e | 15' 0" e | 20' 7" a | 16' 9" a | 12' 5" a |
| 1400S250-97 | 50 | 25' 9" | 23' 4" | 19' 5" e | 27' 6" i | 23' 10" i | 19' 5" i | 23' 4" | 21' 3" | 18' 7" e | 26' 3" i | 23' 10" i | 19' 5" i |
| 1400S300-54 | 50 | 17' 5" e | 13' 1" e | 8' 9" e | 13' 6" a | 10' 5" a | 7' 0" a | 17' 5" e | 13' 1" e | 8' 9" e | 13' 6" a | 10' 5" a | 7' 0" a |
| 1400S300-68 | 50 | 21' 9" e | 18' 10" e | 15' 5" e | 20' 10" a | 17' 0" a | 12' 7" a | 21' 2" e | 18' 10" e | 15' 5" e | 20' 10" a | 17' 0" a | 12' 7" a |
| 1400S300-97 | 50 | 26' 6" | 24' 1" | 19' 11" e | 28' 2" i | 24' 5" i | 19' 11" a | 24' 1" | 21' 11" | 19' 1" e | 27' 0" i | 24' 5" i | 19' 11" a |

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