

# KingRib® 3 Wall Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 22 ga interior

| Steel Support: 3/16" |                |                        |         |        |        |        |         |        |        |        |        |        |        |        |        |        |
|----------------------|----------------|------------------------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Panel Thickness      | Span Condition | Negative Wind Pressure |         |        |        |        |         |        |        |        |        |        |        |        |        |        |
|                      |                | 20 PSF                 | 25 PSF  | 30 PSF | 35 PSF | 40 PSF | 45 PSF  | 50 PSF | 55 PSF | 60 PSF | 65 PSF | 70 PSF | 75 PSF | 80 PSF | 85 PSF | 90 PSF |
| 2.5"                 | Single         | 13'-1"                 | 11'-8"  | 10'-8" | 9'-10" | 9'-1"  | 8'-2"   | 7'-6"  | 6'-11" | 6'-6"  | 6'-1"  | 5'-9"  | 5'-6"  | 5'-3"  | 5'-0"  | 4'-9"  |
|                      | Double         | 11'-10"                | 10'-3"  | 9'-0"  | 8'-2"  | 7'-5"  | 6'-10"  | 6'-4"  | 6'-0"  | 5'-7"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  |
|                      | Multiple       | 13'-1"                 | 11'-2"  | 9'-10" | 8'-10" | 8'-1"  | 7'-5"   | 6'-11" | 6'-5"  | 6'-1"  | 5'-9"  | 5'-6"  | 5'-3"  | 5'-0"  | 4'-10" | 4'-7"  |
| 4"                   | Single         | 16'-3"                 | 14'-6"  | 13'-3" | 12'-3" | 11'-6" | 10'-10" | 10'-3" | 9'-9"  | 9'-0"  | 8'-5"  | 7'-11" | 7'-6"  | 7'-1"  | 6'-9"  | 6'-5"  |
|                      | Double         | 14'-0"                 | 11'-11" | 10'-5" | 9'-4"  | 8'-6"  | 7'-9"   | 7'-2"  | 6'-8"  | 6'-3"  | 5'-11" | 5'-7"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-8"  |
|                      | Multiple       | 15'-3"                 | 12'-11" | 11'-3" | 10'-0" | 9'-1"  | 8'-4"   | 7'-8"  | 7'-2"  | 6'-8"  | 6'-4"  | 6'-0"  | 5'-8"  | 5'-5"  | 5'-2"  | 5'-0"  |

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Deflection Limit:                                       | L/180                                                                        |
| Fastening Method:                                       | (4) 1/4"-14" Through-Screws with 1 1/8" washer at every support              |
| Wind Pressure:                                          | Nominal, ASD, Service Loads                                                  |
| Thermal Differential:                                   | EXCLUDED                                                                     |
| Minimum Support Steel Properties:                       | 3/16" Grade 36 (Fu = 58 ksi)                                                 |
| DB Fastener pull-out values per supporting steel gauge: | 16 ga = 785 lbs, 14 ga = 1,035 lbs, 12 ga = 1,665 lbs, and 3/16" = 3,115 lbs |

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.



KingRib® 3 Wall Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 22 ga interior

| Steel Support: 12 ga |                |                        |         |        |        |        |         |        |        |        |        |        |        |        |        |        |
|----------------------|----------------|------------------------|---------|--------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Panel Thickness      | Span Condition | Negative Wind Pressure |         |        |        |        |         |        |        |        |        |        |        |        |        |        |
|                      |                | 20 PSF                 | 25 PSF  | 30 PSF | 35 PSF | 40 PSF | 45 PSF  | 50 PSF | 55 PSF | 60 PSF | 65 PSF | 70 PSF | 75 PSF | 80 PSF | 85 PSF | 90 PSF |
| 2.5"                 | Single         | 13'-1"                 | 11'-8"  | 10'-8" | 9'-10" | 9'-1"  | 8'-2"   | 7'-6"  | 6'-11" | 6'-6"  | 6'-1"  | 5'-9"  | 5'-6"  | 5'-3"  | 5'-0"  | 4'-9"  |
|                      | Double         | 11'-10"                | 10'-3"  | 9'-0"  | 8'-2"  | 7'-5"  | 6'-10"  | 6'-4"  | 6'-0"  | 5'-7"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  |
|                      | Multiple       | 13'-1"                 | 11'-2"  | 9'-10" | 8'-10" | 8'-1"  | 7'-5"   | 6'-11" | 6'-5"  | 6'-1"  | 5'-9"  | 5'-6"  | 5'-3"  | 5'-0"  | 4'-10" | 4'-7"  |
| 4"                   | Single         | 16'-3"                 | 14'-6"  | 13'-3" | 12'-3" | 11'-6" | 10'-10" | 10'-3" | 9'-9"  | 9'-0"  | 8'-5"  | 7'-11" | 7'-6"  | 7'-1"  | 6'-9"  | 6'-5"  |
|                      | Double         | 14'-0"                 | 11'-11" | 10'-5" | 9'-4"  | 8'-6"  | 7'-9"   | 7'-2"  | 6'-8"  | 6'-3"  | 5'-11" | 5'-7"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-8"  |
|                      | Multiple       | 15'-3"                 | 12'-11" | 11'-3" | 10'-0" | 9'-1"  | 8'-4"   | 7'-8"  | 7'-2"  | 6'-8"  | 6'-4"  | 6'-0"  | 5'-8"  | 5'-5"  | 5'-2"  | 5'-0"  |

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Deflection Limit:                                       | L/180                                                                        |
| Fastening Method:                                       | (4) 1/4"-14" Through-Screws with 1 1/8" washer at every support              |
| Wind Pressure:                                          | Nominal, ASD, Service Loads                                                  |
| Thermal Differential:                                   | EXCLUDED                                                                     |
| Minimum Support Steel Properties:                       | 12 ga Grade 50 (Fu = 65 ksi)                                                 |
| DB Fastener pull-out values per supporting steel gauge: | 16 ga = 785 lbs, 14 ga = 1,035 lbs, 12 ga = 1,665 lbs, and 3/16" = 3,115 lbs |

Notes to tables: Spans shown are for negative uniform loads only. Spans may be governed by other factors including temperature differentials, deflection requirements, structural support gage, or unequal spacing of secondary. Consult Kingspan for specific project applications.



KingRib® 3 Wall Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 22 ga interior

| Steel Support: 14 ga |                |                        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Panel Thickness      | Span Condition | Negative Wind Pressure |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|                      |                | 20 PSF                 | 25 PSF | 30 PSF | 35 PSF | 40 PSF | 45 PSF | 50 PSF | 55 PSF | 60 PSF | 65 PSF | 70 PSF | 75 PSF | 80 PSF | 85 PSF | 90 PSF |
| 2.5"                 | Single         | 10'-3"                 | 9'-2"  | 8'-5"  | 7'-9"  | 7'-3"  | 6'-10" | 6'-6"  | 6'-3"  | 6'-0"  | 5'-9"  | 5'-6"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-8"  |
|                      | Double         | 10'-5"                 | 9'-0"  | 7'-11" | 7'-2"  | 6'-6"  | 6'-0"  | 5'-7"  | 5'-3"  | 4'-11" | 4'-8"  | 4'-6"  | 4'-3"  | 4'-1"  | 3'-11" | 3'-9"  |
|                      | Multiple       | 11'-6"                 | 9'-10" | 8'-8"  | 7'-10" | 7'-1"  | 6'-7"  | 6'-1"  | 5'-8"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  | 4'-1"  |
| 4"                   | Single         | 10'-3"                 | 9'-2"  | 8'-5"  | 7'-9"  | 7'-3"  | 6'-10" | 6'-6"  | 6'-3"  | 6'-0"  | 5'-9"  | 5'-6"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-8"  |
|                      | Double         | 10'-5"                 | 9'-0"  | 7'-11" | 7'-2"  | 6'-6"  | 6'-0"  | 5'-7"  | 5'-3"  | 4'-11" | 4'-8"  | 4'-6"  | 4'-3"  | 4'-1"  | 3'-11" | 3'-9"  |
|                      | Multiple       | 11'-6"                 | 9'-10" | 8'-8"  | 7'-10" | 7'-1"  | 6'-7"  | 6'-1"  | 5'-8"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  | 4'-1"  |

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Deflection Limit:                                       | L/180                                                                        |
| Fastening Method:                                       | (4) 1/4"-14" Through-Screws with 1 1/8" washer at every support              |
| Wind Pressure:                                          | Nominal, ASD, Service Loads                                                  |
| Thermal Differential:                                   | EXCLUDED                                                                     |
| Minimum Support Steel Properties:                       | 14 ga Grade 50 (Fu = 65 ksi)                                                 |
| DB Fastener pull-out values per supporting steel gauge: | 16 ga = 785 lbs, 14 ga = 1,035 lbs, 12 ga = 1,665 lbs, and 3/16" = 3,115 lbs |

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KingRib® 3 Wall Allowable Load / Span Tables

Facer Gauges: 22 ga exterior / 22 ga interior

| Steel Support: 16 ga |                |                        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|----------------------|----------------|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Panel Thickness      | Span Condition | Negative Wind Pressure |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
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|                      | Multiple       | 11'-6"                 | 9'-10" | 8'-8"  | 7'-10" | 7'-1"  | 6'-7"  | 6'-1"  | 5'-8"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  | 4'-1"  |
| 4"                   | Single         | 10'-3"                 | 9'-2"  | 8'-5"  | 7'-9"  | 7'-3"  | 6'-10" | 6'-6"  | 6'-3"  | 6'-0"  | 5'-9"  | 5'-6"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-8"  |
|                      | Double         | 10'-5"                 | 9'-0"  | 7'-11" | 7'-2"  | 6'-6"  | 6'-0"  | 5'-7"  | 5'-3"  | 4'-11" | 4'-8"  | 4'-6"  | 4'-3"  | 4'-1"  | 3'-11" | 3'-9"  |
|                      | Multiple       | 11'-6"                 | 9'-10" | 8'-8"  | 7'-10" | 7'-1"  | 6'-7"  | 6'-1"  | 5'-8"  | 5'-4"  | 5'-1"  | 4'-10" | 4'-7"  | 4'-5"  | 4'-3"  | 4'-1"  |

|                                                         |                                                                              |
|---------------------------------------------------------|------------------------------------------------------------------------------|
| Deflection Limit:                                       | L/180                                                                        |
| Fastening Method:                                       | (4) 1/4"-14" Through-Screws with 1 1/8" washer at every support              |
| Wind Pressure:                                          | Nominal, ASD, Service Loads                                                  |
| Thermal Differential:                                   | EXCLUDED                                                                     |
| Minimum Support Steel Properties:                       | 16 ga Grade 50 (Fu = 65 ksi)                                                 |
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