

7.2 Insul-Rib™ Wall Panels, 26 Ga. Exterior / 26 Ga. Interior Facings

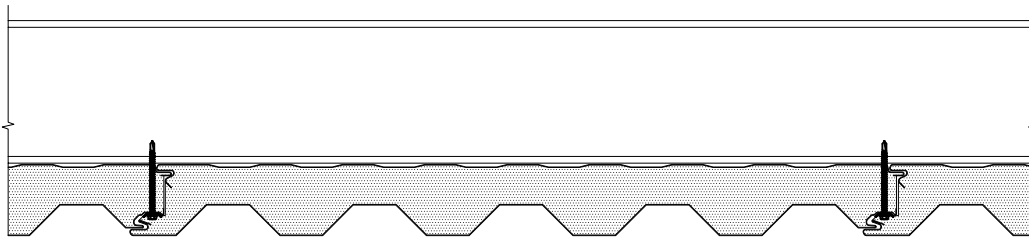
Allowable Load^{1,3,4,5,6,11} (psf) Chart for Two or More Equal Spans

| Panel Type ² | Span Condition | Design Criteria ^{7,8,9,10} | Support Span | | | | | | | | | | | | |
|--------------------------|---------------------|-------------------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | | 4 ft | 5 ft | 6 ft | 7 ft | 8 ft | 9 ft | 10 ft | 11 ft | 12 ft | 13 ft | 14 ft | 15 ft | |
| 2.5" CF-7.2 Insul Rib | Two Spans | Bending and Shear | 97.4 | 65.4 | 47.4 | 36.2 | 28.6 | 23.3 | 19.4 | 16.4 | 14.0 | 12.2 | 10.7 | 9.5 | |
| | | L/180 | 407.7 | 232.6 | 149.6 | 104.0 | 76.3 | 58.2 | 45.7 | 36.6 | 29.9 | 24.7 | 20.7 | 17.6 | |
| | | Pattern FP1 | 27.2 | 24.2 | 22.2 | 20.7 | 19.6 | 18.8 | 18.1 | 16.4 | 14.0 | 12.2 | 10.7 | 9.5 | |
| | | Pattern FP2 | 35.2 | 28.2 | 23.5 | | | | | | | | | | |
| | | Pattern FP3 | 51.1 | 40.9 | 34.1 | 29.2 | 25.5 | 22.6 | 19.4 | | | | | | |
| | Pattern FP11 | 97.4 | 65.4 | 47.4 | 36.2 | 28.6 | 23.3 | 19.4 | 16.4 | 14.0 | 12.2 | 10.7 | 9.5 | | |
| | Three or More Spans | Bending and Shear | 115.4 | 76.8 | 55.4 | 42.2 | 33.4 | 27.2 | 22.6 | 19.2 | 16.5 | 14.4 | 12.6 | 11.2 | |
| | | L/180 | 356.4 | 207.0 | 134.4 | 93.8 | 68.8 | 52.2 | 40.8 | 32.5 | 26.4 | 21.7 | 18.1 | 15.2 | |
| | | Pattern FP1 | 30.4 | 27.1 | 24.8 | 23.2 | 22.0 | 21.0 | 20.3 | 19.2 | 16.5 | 14.4 | 12.6 | 11.2 | |
| | | Pattern FP2 | 39.3 | 31.5 | 26.2 | | | | | | | | | | |
| Pattern FP3 | | 57.1 | 45.7 | 38.1 | 32.6 | 28.6 | 25.4 | 22.6 | | | | | | | |
| Pattern FP11 | 115.4 | 76.8 | 55.4 | 42.2 | 33.4 | 27.2 | 22.6 | 19.2 | 16.5 | 14.4 | 12.6 | 11.2 | | | |
| 3" CF-7.2 Insul Rib | Two Spans | Bending and Shear | 101.7 | 69.3 | 51.0 | 39.3 | 31.5 | 25.8 | 21.6 | 18.4 | 15.9 | 13.9 | 12.3 | 10.9 | |
| | | L/180 | 431.8 | 251.8 | 165.5 | 117.6 | 88.0 | 68.4 | 54.6 | 44.5 | 36.9 | 31.0 | 26.3 | 22.5 | |
| | | Pattern FP1 | 42.7 | 36.0 | 31.4 | 28.2 | 25.7 | 23.8 | 21.6 | 18.4 | 15.9 | 13.9 | 12.3 | 10.9 | |
| | | Pattern FP2 | | | | | | | | | | | | | |
| | | Pattern FP3 | 57.8 | 46.3 | 38.6 | 33.1 | 28.9 | 25.6 | | | | | | | |
| | Pattern FP11 | 101.7 | 69.3 | 51.0 | 39.3 | 31.5 | 25.8 | 21.6 | 18.4 | 15.9 | 13.9 | 12.3 | 10.9 | | |
| | Three or More Spans | Bending and Shear | 119.1 | 80.2 | 58.5 | 45.0 | 36.0 | 29.6 | 24.8 | 21.2 | 18.4 | 16.1 | 14.2 | 12.7 | |
| | | L/180 | 384.1 | 228.7 | 152.2 | 108.7 | 81.4 | 63.1 | 50.2 | 40.7 | 33.6 | 28.0 | 23.6 | 20.1 | |
| | | Pattern FP1 | 47.5 | 39.9 | 34.9 | 31.3 | 28.6 | 26.5 | 24.8 | 21.2 | 18.4 | 16.1 | 14.2 | 12.7 | |
| | | Pattern FP2 | | | | | | | | | | | | | |
| Pattern FP3 | | 64.3 | 51.4 | 42.9 | 36.7 | 32.1 | 28.5 | | | | | | | | |
| Pattern FP11 | 116.2 | 80.2 | 58.5 | 45.0 | 36.0 | 29.6 | 24.8 | 21.2 | 18.4 | 16.1 | 14.2 | 12.7 | | | |
| 4" CF-7.2 Insul Rib | Two Spans | Bending and Shear | 107.7 | 75.0 | 56.3 | 44.2 | 35.9 | 29.9 | 25.3 | 21.8 | 19.0 | 16.7 | 14.9 | 13.3 | |
| | | L/180 | 466.5 | 280.1 | 189.3 | 138.1 | 106.1 | 84.5 | 69.1 | 57.6 | 48.8 | 41.8 | 36.2 | 31.6 | |
| | | Pattern FP1 | 48.1 | 40.0 | 34.4 | 30.4 | 27.4 | 25.0 | 23.0 | 21.5 | 19.0 | 16.7 | 14.9 | 13.3 | |
| | | Pattern FP2 | 54.1 | 43.5 | 36.3 | 31.1 | | | | | | | | | |
| | | Pattern FP3 | 71.1 | 57.2 | 47.8 | 41.0 | 35.8 | 29.9 | 25.3 | 21.8 | | | | | |
| | Pattern FP11 | 105.5 | 75.0 | 56.3 | 44.2 | 35.9 | 29.9 | 25.3 | 21.8 | 19.0 | 16.7 | 14.9 | 13.3 | | |
| | Three or More Spans | Bending and Shear | 124.5 | 85.3 | 63.2 | 49.3 | 40.0 | 33.2 | 28.2 | 24.3 | 21.3 | 18.8 | 16.7 | 15.0 | |
| | | L/180 | 423.2 | 260.1 | 178.5 | 131.3 | 101.3 | 80.7 | 65.9 | 54.8 | 46.2 | 39.4 | 33.9 | 29.5 | |
| | | Pattern FP1 | 53.2 | 44.0 | 37.8 | 33.4 | 30.1 | 27.5 | 25.4 | 23.7 | 21.3 | 18.8 | 16.7 | 15.0 | |
| | | Pattern FP2 | 59.8 | 47.9 | 39.9 | 34.2 | | | | | | | | | |
| Pattern FP3 | | 78.6 | 62.9 | 52.5 | 44.9 | 39.3 | 33.2 | 28.2 | 24.3 | | | | | | |
| Pattern FP11 | 116.6 | 85.3 | 63.2 | 49.3 | 40.0 | 33.2 | 28.2 | 24.3 | 21.3 | 18.8 | 16.7 | 15.0 | | | |
| 5" CF-7.2 Insul Rib | Two Spans | Bending and Shear | 114.8 | 81.4 | 62.0 | 49.3 | 40.5 | 34.0 | 29.0 | 25.2 | 22.1 | 19.5 | 17.4 | 15.7 | |
| | | L/180 | 514.2 | 317.9 | 220.5 | 164.5 | 128.8 | 104.3 | 86.6 | 73.2 | 62.8 | 54.5 | 47.7 | 42.1 | |
| | | Pattern FP1 | 48.6 | 40.4 | 34.9 | 30.8 | 27.7 | 25.3 | 23.3 | 21.7 | 20.4 | 18.7 | 17.3 | 15.7 | |
| | | Pattern FP2 | 54.6 | 44.0 | 36.8 | 31.6 | | | | | | | | | |
| | | Pattern FP3 | 71.9 | 57.9 | 48.4 | 41.5 | 36.3 | 32.1 | 28.8 | 25.2 | 22.1 | 19.5 | 17.4 | | |
| | Pattern FP11 | 106.6 | 81.4 | 62.0 | 49.3 | 40.5 | 34.0 | 29.0 | 25.2 | 22.1 | 19.5 | 17.4 | 15.7 | | |
| | Three or More Spans | Bending and Shear | 131.0 | 91.1 | 68.5 | 54.1 | 44.2 | 37.1 | 31.7 | 27.5 | 24.2 | 21.5 | 19.3 | 17.4 | |
| | | L/180 | 475.0 | 300.4 | 211.3 | 158.9 | 125.0 | 101.4 | 84.1 | 71.0 | 60.8 | 52.5 | 45.8 | 40.2 | |
| | | Pattern FP1 | 53.3 | 44.1 | 37.9 | 33.5 | 30.2 | 27.6 | 25.5 | 23.8 | 22.4 | 20.6 | 19.1 | 17.4 | |
| | | Pattern FP2 | 60.0 | 48.1 | 40.0 | 34.3 | | | | | | | | | |
| Pattern FP3 | | 78.9 | 63.2 | 52.7 | 45.1 | 39.4 | 35.0 | 31.5 | 27.5 | 24.2 | 21.5 | 19.3 | | | |
| Pattern FP11 | 117.0 | 91.1 | 68.5 | 54.1 | 44.2 | 37.1 | 31.7 | 27.5 | 24.2 | 21.5 | 19.3 | 17.4 | | | |
| 6" CF-7.2 Insul Rib | Two Spans | Bending and Shear | 121.1 | 87.1 | 67.1 | 53.9 | 44.6 | 37.7 | 32.4 | 28.2 | 24.8 | 22.0 | 19.7 | 17.8 | |
| | | L/180 | 559.5 | 353.9 | 250.2 | 189.7 | 150.6 | 123.4 | 103.6 | 88.4 | 76.6 | 67.0 | 59.1 | 52.6 | |
| | | Pattern FP1 | 49.0 | 40.8 | 35.3 | 31.2 | 28.0 | 25.6 | 23.6 | 21.9 | 20.6 | 18.9 | 17.5 | 16.3 | |
| | | Pattern FP2 | 55.1 | 44.5 | 37.2 | 31.9 | | | | | | | | | |
| | | Pattern FP3 | 72.5 | 58.5 | 48.9 | 42.0 | 36.7 | 32.5 | 29.1 | 26.4 | 24.1 | 22.0 | 19.7 | 17.8 | |
| | Pattern FP11 | 107.5 | 86.8 | 67.1 | 53.9 | 44.6 | 37.7 | 32.4 | 28.2 | 24.8 | 22.0 | 19.7 | 17.8 | | |
| | Three or More Spans | Bending and Shear | 136.8 | 96.4 | 73.1 | 58.3 | 48.0 | 40.5 | 34.8 | 30.3 | 26.8 | 23.9 | 21.5 | 19.4 | |
| | | L/180 | 523.4 | 338.1 | 242.1 | 185.0 | 147.5 | 121.2 | 101.7 | 86.8 | 75.0 | 65.4 | 57.5 | 51.0 | |
| | | Pattern FP1 | 53.5 | 44.3 | 38.1 | 33.6 | 30.3 | 27.7 | 25.6 | 23.8 | 22.4 | 20.7 | 19.2 | 17.9 | |
| | | Pattern FP2 | 60.2 | 48.2 | 40.2 | 34.4 | | | | | | | | | |
| Pattern FP3 | | 79.1 | 63.4 | 52.9 | 45.3 | 39.6 | 35.1 | 31.6 | 28.7 | 26.3 | 23.9 | 21.5 | 19.4 | | |
| Pattern FP11 | 117.4 | 94.1 | 73.1 | 58.3 | 48.0 | 40.5 | 34.8 | 30.3 | 26.8 | 23.9 | 21.5 | 19.4 | | | |

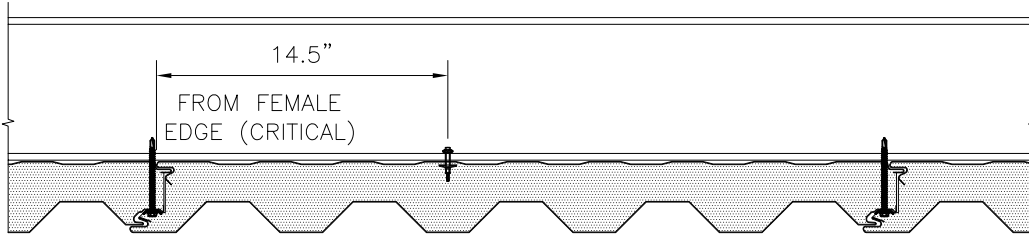
Notes:

- The Load Span Table above is based on Allowable Stress Design (ASD). For loads calculated based on ASCE 7-10 (LRFD), please refer to section 2.4.1 of ASCE 7-10 for the applicable load combinations using Allowable Stress Design.
- Panel thickness includes rib height.
- Allowable positive or inward load is the lowest value of the panel bending and shear strength or deflection limit.
- Allowable suction or outward load is the lowest value of the panel bending and shear strength, deflection limit and connection strength for each fastener pattern. The numbers have been reduced to reflect the lowest value.
- Loads based on panel stress, deflection and connection design criteria are derived from ASTM E-72 testing.
- Allowable loads are calculated with a factor of safety of 2.5 for bending, 3.0 for shear and 2.0 for connection.
- Pattern FP1 is based on clip with (2) ¼"-14 Tek III's in minimum 16 ga. steel.
- Pattern FP2 is based on FP1 and (1) blind rivet in minimum 16 ga. steel.
- Pattern FP3 is based on FP1 and (2) blind rivets in minimum 16 ga. steel.
- Pattern FP11 is based on five (7.2" on center, low cell of product), ¼"-14 Tek III's with 5/8" neoprene bonded washer in minimum 14 ga. steel.
- The structural capacity of the girts are not considered and must be examined independently.

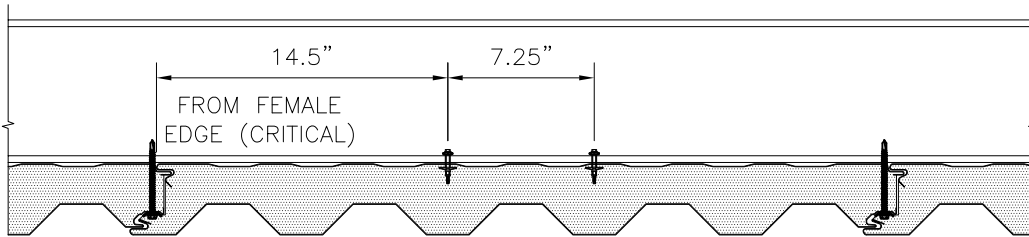




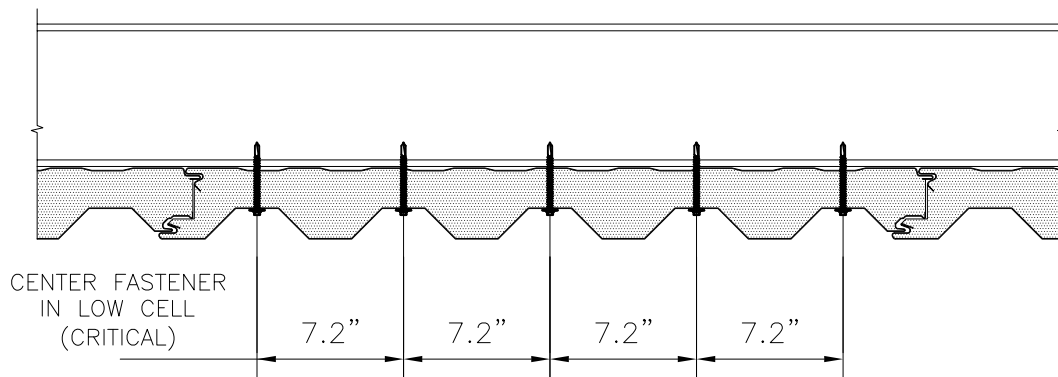
FP1 FASTENING PATTERN 1 SIDE JOINT FASTENING
REQUIRES TWO SELF-DRILLING OR SELF TAPPING SCREWS



FP2 (7.2) FASTENING PATTERN - FP3 (7.2) SIDE JOINT FASTENING
REQUIRES TWO SELF-DRILLING OR SELF TAPPING
SCREWS PLUS ONE BLIND RIVET



FP3 (7.2) FASTENING PATTERN - FP3 (7.2) SIDE JOINT FASTENING
REQUIRES TWO SELF-DRILLING OR SELF TAPPING
SCREWS PLUS TWO BLIND RIVETS



FP11 FASTENING PATTERN 11 WITH FIVE SELF TAPPING
SCREWS CENTER IN LOW CELLS WITH MIN. 20 GA.
NEOPRENE BONDED WASHER

(CONSULT METL-SPAN FOR FASTENER REQUIREMENTS NEEDED TO MEET SPECIFIC LOAD REQUIREMENTS)

**7.2 INSUL-RIB™
FASTENING PATTERNS**

**APPLICATION:
FASTENING**

FP 1, 2, 3 & 11

DATE: MAY 15, 2015