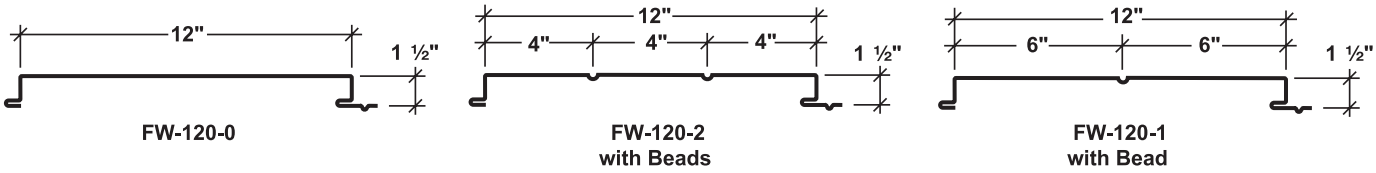
# PRODUCT INFORMATION

## Architect / Engineer Information

### FW-120 Panel




1. This concealed fastener profile offers an attractive, flat wall appearance for the architectural, commercial, and industrial market. The “FW” panel offers the option of “face beads”, and/or embossing.
2. All primary and secondary framing must be erected, plumbed, and squared with bolts tightened according to accepted building practices prior to beginning the installation of the FW-120 panel.
3. Wall girts, or structural to which the FW-120 panels are to be attached, must be properly aligned. Structural members that are not in alignment will induce stress into panels resulting in oil canning.
4. Heavier gauges and embossing minimizes oil canning. The industry standard for this product is 24 gauge material. **Oil Canning is not a cause for rejection.**
5. Panels may be spliced using DELTA's splice trim. for continuous runs over 20'-0", please inquire.
6. All details and recommendations in this manual are for general guidelines only. Actual project conditions may require special treatment and/or changes in this information. Contact DELTA regarding deviations from the published standards. Suitability of use and manner of use of any product contained herein is the sole responsibility of the specifier.
7. Insulation is most effectively applied in the wall cavity behind the point of panel attachment. Semi-rigid or Rigid insulation can be inserted in the cavity of the panel between the vertical legs. Applying the panels over compressed blanket insulation can be difficult and may induce waviness or oil canning.

**NOTES:** A nominal 0.142 “U” value can be achieved when installed with 1 1/2" (1.50 PCF) fiberglass insulation. (Greater values can be achieved with thicker insulation.)

Insulated wall systems are field assembled. The “load tables” are designed for the exterior and interior panels in question. Other combinations of exterior panels, interior panels, and various insulation thicknesses are available upon request.

| SECTION PROPERTIES | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| PANEL GAUGE | Fy (KSI) | WEIGHT (PSF) | NEGATIVE BENDING | | | POSITIVE BENDING | | |
| | | | Ixe (IN.4/FT.) | Sxe (IN.3/FT.) | Maxo (KIP-IN.) | Ixe (IN.4/FT.) | Sxe (IN.3/FT.) | Maxo (KIP-IN.) |
| 24 | 50 | 1.54 | 0.0987 | 0.0824 | 2.4685 | 0.0441 | 0.0511 | 1.5275 |
| 22 | 50 | 1.85 | 0.1316 | 0.1106 | 3.3125 | 0.0617 | 0.0738 | 2.2110 |
| 20 | 50 | 2.16 | 0.1667 | 0.1401 | 4.1937 | 0.0824 | 0.1019 | 3.0496 |

**NOTES:**
1. Strength calculations based on the 2012 AISI Standard “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2. Ixe is for deflection determination.
3. Sxe is for bending.
4. Maxo is allowable bending moment.
5. All values are for one foot of panel width.

# PRODUCT INFORMATION

## Architect / Engineer Information

### FW-120 PANEL

### ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

| 24 Gauge (Fy = 50 KSI) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | | | | | |
| | | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| SINGLE | POSITIVE WIND LOAD | 113.1 | 63.6 | 40.7 | 28.3 | 20.8 | 15.9 | 12.6 |
| 2-SPAN | POSITIVE WIND LOAD | 104.8 | 61.5 | 39.9 | 27.9 | 20.6 | 15.8 | 12.5 |
| 3-SPAN | POSITIVE WIND LOAD | 119.1 | 75.9 | 49.4 | 34.6 | 25.6 | 19.6 | 15.6 |
| 4-SPAN | POSITIVE WIND LOAD | 114.6 | 71.2 | 46.2 | 32.4 | 23.9 | 18.4 | 14.5 |

| 22 Gauge (Fy = 50 KSI) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | | | | | |
| | | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| SINGLE | POSITIVE WIND LOAD | 163.8 | 92.1 | 59.0 | 40.9 | 30.1 | 23.0 | 18.2 |
| 2-SPAN | POSITIVE WIND LOAD | 152.3 | 88.3 | 57.4 | 40.2 | 29.7 | 22.8 | 18.0 |
| 3-SPAN | POSITIVE WIND LOAD | 184.9 | 108.5 | 70.9 | 49.8 | 36.8 | 28.3 | 22.5 |
| 4-SPAN | POSITIVE WIND LOAD | 174.4 | 101.9 | 66.4 | 46.6 | 34.5 | 26.5 | 21.0 |

| 20 Gauge (Fy = 50 KSI) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SPAN TYPE | LOAD TYPE | SPAN IN FEET | | | | | | |
| | | 3.0 | 4.0 | 5.0 | 6.0 | 7.0 | 8.0 | 9.0 |
| SINGLE | POSITIVE WIND LOAD | 225.9 | 127.1 | 81.3 | 56.5 | 41.5 | 31.8 | 25.1 |
| 2-SPAN | POSITIVE WIND LOAD | 206.4 | 120.5 | 78.6 | 55.1 | 40.8 | 31.3 | 24.8 |
| 3-SPAN | POSITIVE WIND LOAD | 249.2 | 147.5 | 96.8 | 68.2 | 50.6 | 38.9 | 30.9 |
| 4-SPAN | POSITIVE WIND LOAD | 235.5 | 138.7 | 90.9 | 63.9 | 47.3 | 36.4 | 28.9 |

**NOTES:**

1) Strength calculations based on the 2012 AISI Standard “North American Specification for the Design of Cold-Formed Steel Structural Members.”
2) Allowable loads are applicable for uniform loading and spans without overhangs.
3) POSITIVE WIND LOAD capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combinded shear and flexure, web crippling at end and interior supports and a deflection limit of L/60.
4) The weight of the panel has not been deducted from the allowable loads.
5) THE ABOVE LOADS ARE NOT FOR USE WHEN DESIGNING PANELS TO RESIST WIND UPLIFT.
6) The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void engineering data.
7) This material is subject to change without notice. Please contact DELTA for the most current negative wind loads.