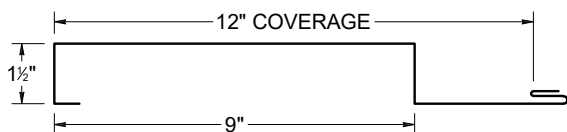




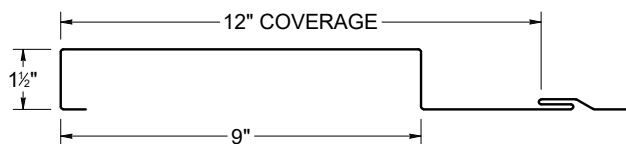
ICC  
EVALUATION  
SERVICE®

ICC-ES EVALUATION REPORT #5045 with CBC-CRC Supplement

#### CLIP ATTACHMENT

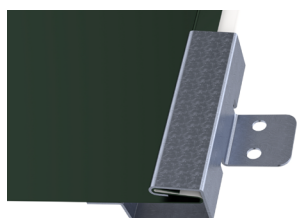


#### SCREW FLANGE ATTACHMENT

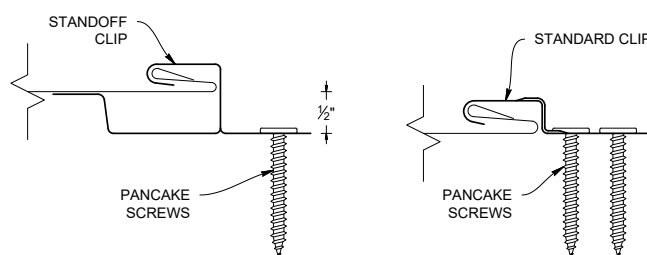
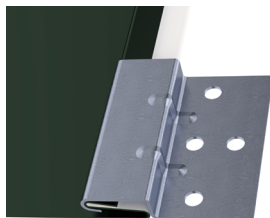


### PANEL ATTACHMENT CLIP

#### STANDOFF CLIP



#### STANDARD CLIP



### KEY FEATURES

- Manufactured in Salem, OR, Sacramento, CA and Riverside, CA
- 12" panel coverage
- 24 Tru-Gauge™ steel & .032" aluminum are standard and attached with high-performance concealed clips (some profiles *may* be available with an integrated screw flange option -- *please inquire*)
- Screw flange is not available in heavier gauges:
  - 22 Tru-Gauge™ steel and .040" aluminum
  - Custom 20 & 18 Tru-Gauge™ and 0.50" & .063" aluminum
- Aluminum is recommended within 1000 ft of salt water (*not required*)
- 3' to 32'9" panel lengths (*Inquire for longer or shorter lengths*)
- Vertical or horizontal wall application
- Acceptable for use as a soffit panel
- Interchangeable panel widths and configurations
- Perforated options available (*please inquire*)

### TESTING

-  ICC-ESR #5045 with CBC-CRC Supplement
- ASTM A653/A924 - G-90 Galvanized
- ASTM A792 - ZINCALUME®/Galvalume® AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM D6578 - Anti-Graffiti
- ASTM E283 - Air infiltration (wall)
- ASTM E331 - Water infiltration (wall)
- ASTM E1592 - Negative structural uniform static air pressure
- ASTM E1646 - Water infiltration (roof)
- ASTM E1680 - Air infiltration (roof)

### WEIGHT CHART

| CT-7         | TYPE         | 24 GA STEEL | 22 GA STEEL | .032 ALUM |
|--------------|--------------|-------------|-------------|-----------|
| THICKNESS    |              | 0.0236"     | 0.0285"     | 0.032"    |
| WEIGHT/LINFT | CLIP ATTACH  | 1.364 LBS   | 1.577 LBS   | 0.646 LBS |
| WEIGHT/LSQFT | CLIP ATTACH  | 1.364 LBS   | 1.577 LBS   | 0.646 LBS |
| WEIGHT/LINFT | SCREW FLANGE | 1.509 LBS   | 1.944 LBS   | 0.715 LBS |
| WEIGHT/LSQFT | SCREW FLANGE | 1.509 LBS   | 1.944 LBS   | 0.715 LBS |

| ASTM E 1680/E283<br>Air Penetration                | ASTM E 1646/E331<br>Water Penetration |
|----------------------------------------------------|---------------------------------------|
| 12 PSF<0.01 CFM/ft²-PASS                           | 20.5 PSF - Pass                       |
| Intertek Test Result L5460.01-901-44 R1            |                                       |
| Intertek Test Result L5461.01-901-44 R1            |                                       |
| STRUCTURAL TESTING ASTM E1592                      |                                       |
| Intertek Test Result 1" Panel N3050-20-301-44 R0   |                                       |
| Intertek Test Result 1.5" Panel Q2599.15-301-44 R0 |                                       |

## NEGATIVE LOAD CHART WITH CLIP ATTACHMENT

|            |       |           |               | SECTION PROPERTIES               |                                        |                                  |                                  |                                        |                                  | ALLOWABLE UNIFORM LOADS, psf<br>For various clip spacings (i.e. span values) |       |       |       |       |      |      |      |      |
|------------|-------|-----------|---------------|----------------------------------|----------------------------------------|----------------------------------|----------------------------------|----------------------------------------|----------------------------------|------------------------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|
| Width, in. | Gauge | Yield ksi | Weight<br>psf | Top in Compression               |                                        |                                  | Bottom in Compression            |                                        |                                  | Negative Load                                                                |       |       |       |       |      |      |      |      |
|            |       |           |               | $I_{xx}$<br>in <sup>4</sup> /ft. | $I_{xx}$ (eff)<br>in <sup>4</sup> /ft. | $S_{xx}$<br>in <sup>3</sup> /ft. | $I_{xx}$<br>in <sup>4</sup> /ft. | $I_{xx}$ (eff)<br>in <sup>4</sup> /ft. | $S_{xx}$<br>in <sup>3</sup> /ft. | 1'                                                                           | 1.5'  | 2'    | 2.5'  | 3'    | 3.5' | 4'   | 4.5' | 5'   |
| 12         | 24    | 50        | 1.42          | 0.0701                           | 0.0846                                 | 0.0669                           | 0.1202                           | 0.1057                                 | 0.1121                           | 165.0                                                                        | 151.9 | 138.8 | 125.6 | 112.5 | 99.4 | 86.3 | 73.1 | 60.0 |
| 12         | 22    | 50        | 1.68          | 0.0881                           | 0.1056                                 | 0.0859                           | 0.1484                           | 0.1309                                 | 0.1408                           | 175.0                                                                        | 158.8 | 142.5 | 126.3 | 110.0 | 93.8 | 77.5 | 61.3 | 45.0 |
| 12         | 20    | 33        | 2.05          | 0.1269                           | 0.1486                                 | 0.1314                           | 0.2020                           | 0.1802                                 | 0.1999                           | 175.0                                                                        | 158.8 | 142.5 | 126.3 | 110.0 | 93.8 | 77.5 | 61.3 | 45.0 |
| 12         | 18    | 33        | 2.67          | 0.1830                           | 0.2103                                 | 0.1996                           | 0.2770                           | 0.2497                                 | 0.2818                           | 175.0                                                                        | 158.8 | 142.5 | 126.3 | 110.0 | 93.8 | 77.5 | 61.3 | 45.0 |

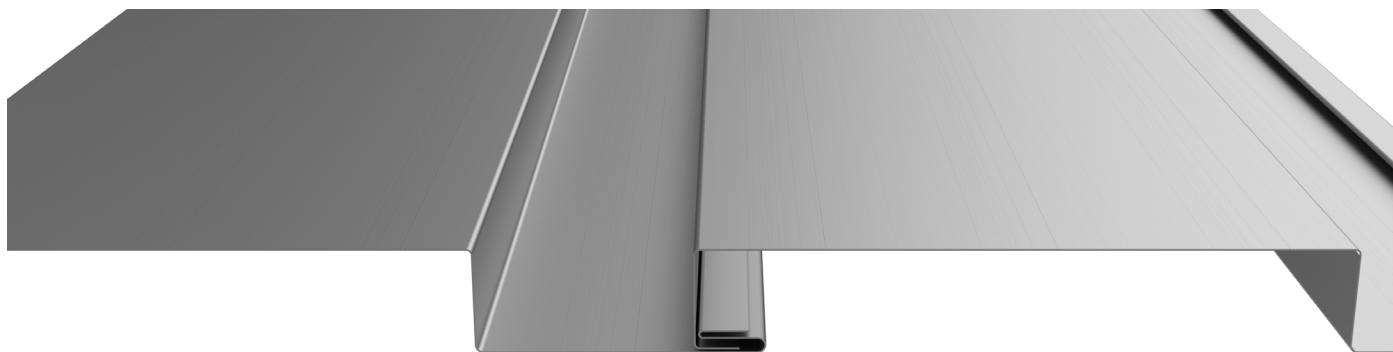
- Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek 1.5" Panel Q2599.15-301-44 R0
- Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
  - Open-Framing (i.e. purlins)-16ga (design thickness 0.0566")
  - Plywood/OSB-15/32" or thicker is recommended to assure an effective degree of fastener thread engagement.
  - METAL DECK - 22ga (design thickness 0.0283")

## POSITIVE LOAD CHART WITH CLIP ATTACHMENT

|            |       |           |               | SECTION PROPERTIES               |                                        |                                  |                                  |                                        |                                  | ALLOWABLE UNIFORM LOADS, psf<br>For various clip spacings (i.e. span values) |        |        |       |        |      |       |       |      |      |
|------------|-------|-----------|---------------|----------------------------------|----------------------------------------|----------------------------------|----------------------------------|----------------------------------------|----------------------------------|------------------------------------------------------------------------------|--------|--------|-------|--------|------|-------|-------|------|------|
| Width, in. | Gauge | Yield ksi | Weight<br>psf | Top in Compression               |                                        |                                  | Bottom in Compression            |                                        |                                  | Positive Load                                                                |        |        |       |        |      |       |       |      |      |
|            |       |           |               | $I_{xx}$<br>in <sup>4</sup> /ft. | $I_{xx}$ (eff)<br>in <sup>4</sup> /ft. | $S_{xx}$<br>in <sup>3</sup> /ft. | $I_{xx}$<br>in <sup>4</sup> /ft. | $I_{xx}$ (eff)<br>in <sup>4</sup> /ft. | $S_{xx}$<br>in <sup>3</sup> /ft. | 1'                                                                           | 2'     | 3'     | 4'    | 5'     | 6'   | 7'    | 8'    | 9'   | 10'  |
| 12         | 24    | 50        | 1.42          | 0.0701                           | 0.0846                                 | 0.0669                           | 0.1202                           | 0.1057                                 | 0.1121                           | 265.5                                                                        | 132.7  | 88.5   | 66.4  | 53.1   | 44.2 | 34.1  | 26.1  | 20.7 | 16.7 |
| 12         | 22    | 50        | 1.68          | 0.0881                           | 0.1056                                 | 0.0859                           | 0.1484                           | 0.1309                                 | 0.1408                           | 378.2                                                                        | 189.09 | 126.06 | 94.6  | 75.6   | 59.7 | 43.83 | 33.6  | 26.5 | 21.5 |
| 12         | 20    | 33        | 2.05          | 0.1269                           | 0.1486                                 | 0.1314                           | 0.2020                           | 0.1802                                 | 0.1999                           | 380.9                                                                        | 190.45 | 126.97 | 95.2  | 76.2   | 60.2 | 44.3  | 33.9  | 26.8 | 21.7 |
| 12         | 18    | 33        | 2.67          | 0.1830                           | 0.2103                                 | 0.1996                           | 0.2770                           | 0.2497                                 | 0.2818                           | 658.2                                                                        | 329.1  | 219.4  | 164.6 | 131.64 | 91.5 | 67.21 | 51.46 | 40.7 | 32.9 |

- Theoretical section properties for Steel panel have been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
- Allowable loads for Steel panels are calculated in accordance with 2020 AISI S100 specifications considering bending , shear, combined bending and shear and deflection. Allowable load considers a 3 or more equal span condition.
- When panels are installed over solid or closely fitted sheathing, the capacity is limited to the capacity of the underlying sheathing.

## PANEL ATTACHMENT



### Fastener Notes:

- When possible, lap panels away from prevailing wind direction.
- 15/32" OSB: #10 Burr Buster fasteners.
- 15/32" Plywood: #10 GP Fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".
- Dimensional lumber: #10 GP. Screws should penetrate the lumber 1".
- 16ga (or less) Steel furring: #10 or #12 Fastener with DP-1
- All trim screws used for roof or wall applications should have EPDM sealing washers.

Rev. Date 08-26