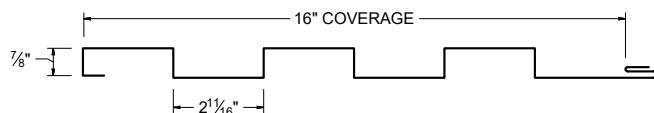




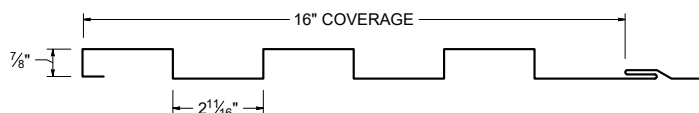
ICC  
EVALUATION  
SERVICE®

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

#### CLIP ATTACHMENT

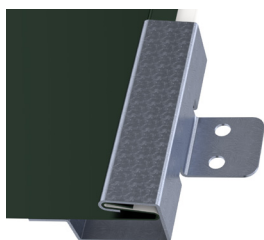


#### SCREW FLANGE ATTACHMENT

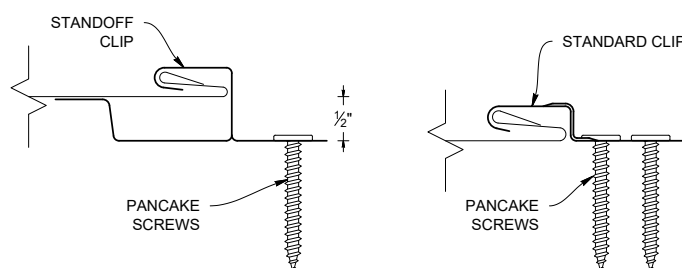
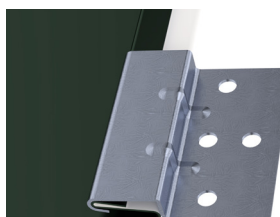


### PANEL ATTACHMENT CLIP

#### STANDOFF CLIP



#### STANDARD CLIP



### KEY FEATURES

- Manufactured in Salem, OR, Sacramento, CA and Riverside, CA
- 16" 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™ steel and .050" & .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*)
- Custom profiles available
- 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-2         | TYPE         | 24 GA STEEL | 22 GA STEEL | .032 ALUM | .040 ALUM |
|--------------|--------------|-------------|-------------|-----------|-----------|
| THICKNESS    |              | 0.0236"     | 0.0285"     | 0.032"    | 0.040"    |
| WEIGHT/LINFT | CLIP ATTACH  | 1.941 LBS   | 2.28 LBS    | 0.92 LBS  | 1.12 LBS  |
| WEIGHT/LSQFT | CLIP ATTACH  | 1.456 LBS   | 1.71 LBS    | 0.69 LBS  | 0.839 LBS |
| WEIGHT/LINFT | SCREW FLANGE | 2.084 LBS   | 2.64 LBS    | 0.987 LBS | 1.30 LBS  |
| WEIGHT/LSQFT | SCREW FLANGE | 1.563 LBS   | 1.98 LBS    | 0.74 LBS  | 0.971 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 N3050.19-301-44 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 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'   |
| 16         | 24    | 50        | 1.30       | 0.0320                           | 0.0330                                 | 0.0600                           | 0.0340                           | 0.0330                                 | 0.0680                           | 150.0                                                                        | 134.4 | 118.8 | 103.1 | 87.5  | 71.9 | 56.3 | 40.6 | 25.0 |
| 16         | 22    | 50        | 1.53       | 0.0410                           | 0.0410                                 | 0.0800                           | 0.0430                           | 0.0430                                 | 0.0910                           | 162.5                                                                        | 146.9 | 131.3 | 115.6 | 100.0 | 84.4 | 68.8 | 53.1 | 37.5 |
| 16         | 20    | 33        | 1.87       | 0.0590                           | 0.0590                                 | 0.1210                           | 0.0590                           | 0.0590                                 | 0.1380                           | 162.5                                                                        | 146.9 | 131.3 | 115.6 | 100.0 | 84.4 | 68.8 | 53.1 | 37.5 |
| 16         | 18    | 33        | 2.43       | 0.0820                           | 0.0810                                 | 0.1780                           | 0.0810                           | 0.0820                                 | 0.2010                           | 162.5                                                                        | 146.9 | 131.3 | 115.6 | 100.0 | 84.4 | 68.8 | 53.1 | 37.5 |

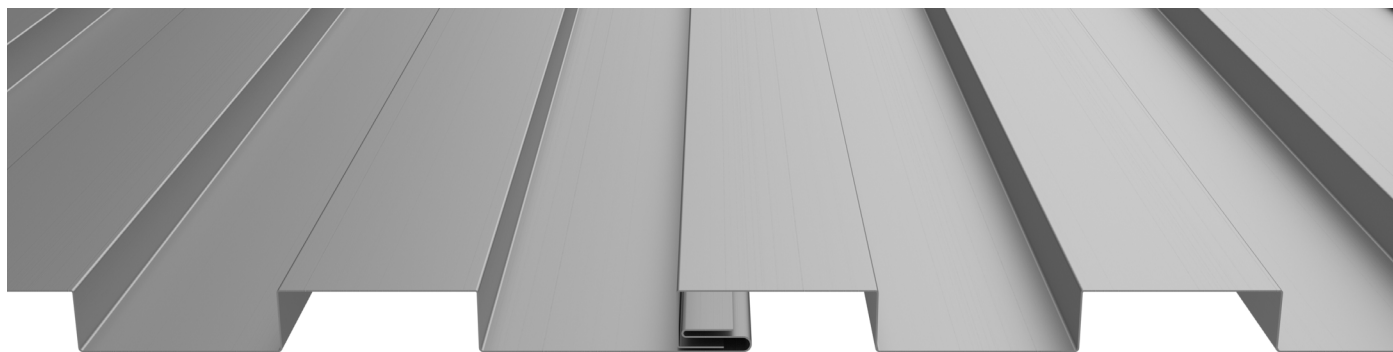
- Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek N3050.19-301-44 R0
- Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
- Minimum recommended substrate (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 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        | 1.30       | 0.0320                           | 0.0330                                 | 0.0600                           | 0.0340                           | 0.0330                                 | 0.0680                           | 1446.4                                                                       | 375.0 | 166.7 | 93.8  | 60.0  | 41.7 | 30.6 | 23.4 | 18.5 | 15.0 |
| 12         | 22    | 50        | 1.53       | 0.0410                           | 0.0410                                 | 0.0800                           | 0.0430                           | 0.0430                                 | 0.0910                           | 1545.5                                                                       | 500.0 | 222.2 | 125.0 | 80.0  | 55.6 | 40.8 | 31.3 | 24.7 | 20.0 |
| 12         | 20    | 33        | 1.87       | 0.0590                           | 0.0590                                 | 0.1210                           | 0.0590                           | 0.0590                                 | 0.1380                           | 1552.7                                                                       | 504.2 | 224.1 | 126.0 | 80.7  | 56.0 | 41.2 | 31.5 | 24.9 | 20.2 |
| 12         | 18    | 33        | 2.43       | 0.0820                           | 0.0810                                 | 0.1780                           | 0.0810                           | 0.0820                                 | 0.2010                           | 2110.0                                                                       | 741.7 | 329.6 | 185.4 | 118.7 | 82.4 | 60.5 | 46.4 | 36.6 | 29.7 |

- Theoretical section properties for Steel panel shave 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