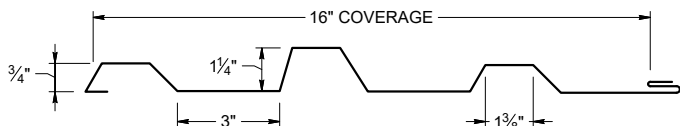




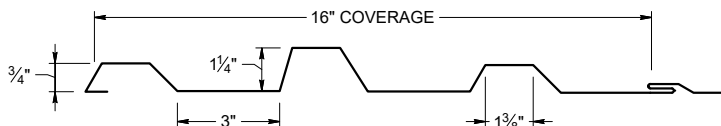
ICC  
EVALUATION  
SERVICE®

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

#### CLIP ATTACHMENT

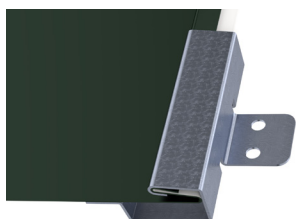


#### SCREW FLANGE ATTACHMENT

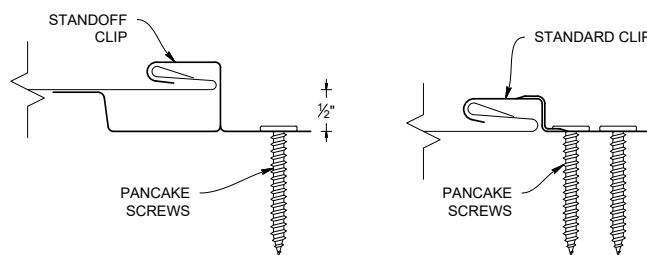
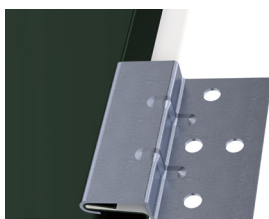


### PANEL ATTACHMENT CLIP

#### STANDOFF CLIP



#### STANDARD CLIP



### KEY FEATURES

- Manufactured in Salem, OR, Sacramento, CA and Riverside, CA
- 16" panel coverage
- 24 Tru-Gauge™ steel and .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 - Zinalume®/Galvalume® AZ-50/55
- ASTM B209 - Aluminum Substrate
- ASTM D6578 - Anti-Graffiti
- ASTM E283 - Air infiltration (wall)
- ASTM E331 - Water infiltration (wall)
- ASTM E1592 - Structural uniform static air pressure
- ASTM E1646 - Water infiltration (roof)
- ASTM E1680 - Air infiltration (roof)

### WEIGHT CHART

| C-4          | TYPE         | 24 GA STEEL | 22 GA STEEL | .032 ALUM | .040 ALUM |
|--------------|--------------|-------------|-------------|-----------|-----------|
| THICKNESS    |              | 0.0236"     | 0.0285"     | 0.032"    | 0.040"    |
| WEIGHT/LINFT | CLIP ATTACH  | 1.780 LBS   | 2.090 LBS   | 0.844 LBS | 1.025 LBS |
| WEIGHT/LSQFT | CLIP ATTACH  | 1.335 LBS   | 1.568 LBS   | 0.633 LBS | 0.769 LBS |
| WEIGHT/LINFT | SCREW FLANGE | 1.896 LBS   | 2.447 LBS   | 0.899 LBS | 1.200 LBS |
| WEIGHT/LSQFT | SCREW FLANGE | 1.422 LBS   | 1.836 LBS   | 0.674 LBS | 0.900 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 N3050.09-301-44 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'   |
| 16         | 24    | 50        | 1.73          | 0.0564                           | 0.0544                                 | 0.0586                           | 0.0496                           | 0.0515                                 | 0.0605                           | 187.5                                                                        | 168.8 | 150.0 | 131.3 | 112.5 | 93.8 | 75.0 | 56.3 | 37.5 |
| 16         | 22    | 50        | 2.03          | 0.0700                           | 0.0678                                 | 0.0744                           | 0.0624                           | 0.0646                                 | 0.0732                           | 170.0                                                                        | 153.4 | 136.9 | 120.3 | 103.8 | 87.2 | 70.6 | 54.1 | 37.5 |
| 16         | 20    | 33        | 2.48          | 0.0902                           | 0.0886                                 | 0.0966                           | 0.0849                           | 0.0864                                 | 0.0937                           | 170.0                                                                        | 153.4 | 136.9 | 120.3 | 103.8 | 87.2 | 70.6 | 54.1 | 37.5 |
| 16         | 18    | 33        | 3.22          | 0.1160                           | 0.1160                                 | 0.1242                           | 0.1150                           | 0.1150                                 | 0.1237                           | 170.0                                                                        | 153.4 | 136.9 | 120.3 | 103.8 | 87.2 | 70.6 | 54.1 | 37.5 |

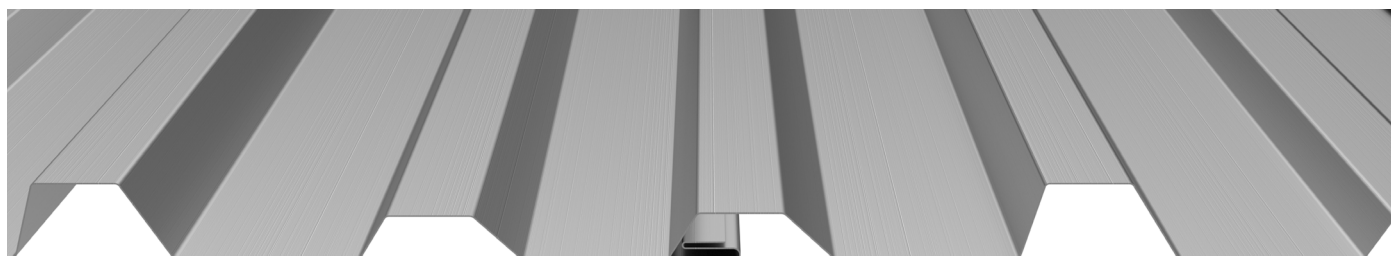
1. Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek N3050.09-301-44 R0
2. Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
3. Minimum recommended substrate (structure) recommendations:
  - A. Open-Framing (i.e. purlins)-16ga (design thickness 0.0566")
  - B. Plywood/OSB-15/32" or thicker is recommended to assure an effective degree of fastener thread engagement.
  - C. 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                                                                |       |       |       |      |      |      |      |      |      |
|            |       |           |            | $I_{xx}$             | $I_{xx} \text{ (eff)}$ | $S_{xx}$             | $I_{xx}$              | $I_{xx} \text{ (eff)}$ | $S_{xx}$             |                                                                              |       |       |       |      |      |      |      |      |      |
|            |       |           |            | in <sup>4</sup> /ft. | in <sup>4</sup> /ft.   | in <sup>3</sup> /ft. | in <sup>4</sup> /ft.  | in <sup>4</sup> /ft.   | in <sup>3</sup> /ft. | 1'                                                                           | 2'    | 3'    | 4'    | 5'   | 6'   | 7'   | 8'   | 9'   | 10'  |
| 16         | 24    | 50        | 1.73       | 0.0564               | 0.0544                 | 0.0586               | 0.0496                | 0.0515                 | 0.0605               | 967.27                                                                       | 366.3 | 162.8 | 91.6  | 58.6 | 40.7 | 29.9 | 22.9 | 18.1 | 14.7 |
| 16         | 22    | 50        | 2.03       | 0.0700               | 0.0678                 | 0.0744               | 0.0624                | 0.0646                 | 0.0732               | 1037.3                                                                       | 457.5 | 203.3 | 114.4 | 73.2 | 50.8 | 37.4 | 28.6 | 22.6 | 18.3 |
| 16         | 20    | 33        | 2.48       | 0.0902               | 0.0886                 | 0.0966               | 0.0849                | 0.0864                 | 0.0937               | 1044.6                                                                       | 390.4 | 173.5 | 97.6  | 62.5 | 43.4 | 31.9 | 24.4 | 19.3 | 15.6 |
| 16         | 18    | 33        | 3.22       | 0.1160               | 0.1160                 | 0.1242               | 0.1150                | 0.1150                 | 0.1237               | 1800.9                                                                       | 515.4 | 229.1 | 128.9 | 82.5 | 57.3 | 42.1 | 32.2 | 25.5 | 20.6 |

1. Theoretical section properties for Steel panel shavbe been calculated per 2020 AISI S100 North America Specifications for the Design of Cold-Formed Steel Structural Member.
2. 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.
3. 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.