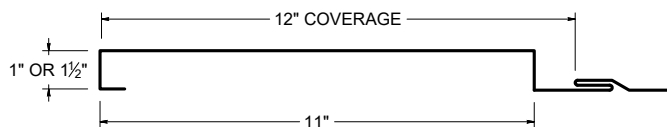




ICC
EVALUATION
SERVICE®

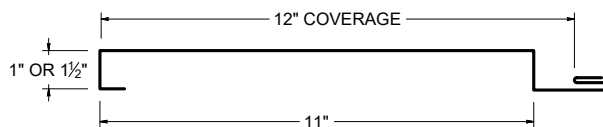
ICC-ES EVALUATION REPORT #5045 with CBC-CRC Supplement

SCREW FLANGE ATTACHMENT



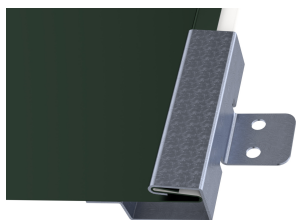
Screw Flange panels in this profile require additional material (drop/waste) and must be slit to a custom size. Inquire for custom pricing and availability.

CLIP ATTACHMENT

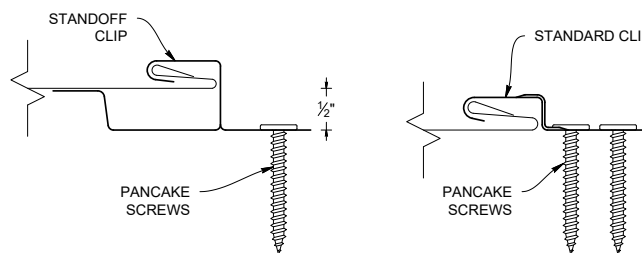
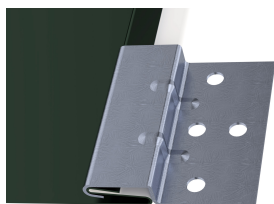


PANEL ATTACHMENT CLIP

STANDOFF CLIP




STANDARD CLIP



KEY FEATURES

- 12" panel coverage
- 24 and 22 Tru-Gauge™ and .032 Aluminum. Screw Flange and Clip attachment available
- Seamless runs, fewer runs and less labor
- 1" or 1-1/2" deep panel
- 2' to 20'10" panel 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 E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM E1592 - Negative structural uniform static air pressure
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zincalume/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate

WEIGHT CHART (Values based on 1" panels, inquire for 1-1/2")

| CR-F | 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 Air Penetration | ASTM E 1646/E331 Water Penetration |
|---|---------------------------------------|
| 12 PSF<0.01 CFM/ft ² -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 AND E330 | |
| Intertek Test Result N3050.06-301-44 R0 | |

NEGATIVE LOAD CHART WITH CLIP ATTACHMENT

| | | | | SECTION PROPERTIES | | | | | | ALLOWABLE UNIFORM LOADS, psf 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} in ⁴ /ft. | I_{xx} (eff) in ⁴ /ft. | S_{xx} in ³ /ft | I_{xx} in ⁴ /ft. | I_{xx} (eff) in ⁴ /ft. | S_{xx} in ³ /ft | 1' | 1.5' | 2' | 2.5' | 3' | 3.5' | 4' | 4.5' | 5' |
| 12 | 24 | 50 | 1.30 | 0.0226 | 0.0281 | 0.0354 | 0.0416 | 0.0303 | 0.0515 | 137.5 | 125.0 | 112.5 | 100.0 | 87.5 | 75.0 | 62.5 | 50.0 | 37.5 |
| 12 | 22 | 50 | 1.53 | 0.0287 | 0.0360 | 0.0474 | 0.0539 | 0.0466 | 0.0685 | 112.5 | 103.1 | 93.8 | 83.4 | 75.0 | 65.6 | 56.3 | 46.9 | 37.5 |
| 12 | 20 | 33 | 1.87 | 0.0413 | 0.0513 | 0.0750 | 0.0759 | 0.0659 | 0.1002 | 112.5 | 103.1 | 93.8 | 83.4 | 75.0 | 65.6 | 56.3 | 46.9 | 37.5 |
| 12 | 18 | 33 | 2.43 | 0.0590 | 0.0712 | 0.1157 | 0.1010 | 0.0888 | 0.1362 | 112.5 | 103.1 | 93.8 | 83.4 | 75.0 | 65.6 | 56.3 | 46.9 | 37.5 |
| 12 | 0.050" | 19 | 2.50 | 0.1260 | 0.1260 | 0.4302 | 0.1260 | 0.1260 | 0.1773 | 175.0 | 159.4 | 143.8 | 128.1 | 112.5 | 98.9 | 81.3 | 65.6 | 50.0 |

- Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members. Intertek N3050.06-301-44 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 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} in ⁴ /ft. | I_{xx} (eff) in ⁴ /ft. | S_{xx} in ³ /ft | I_{xx} in ⁴ /ft. | I_{xx} (eff) in ⁴ /ft. | S_{xx} in ³ /ft | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' |
| 12 | 24 | 50 | 1.30 | 0.0226 | 0.0281 | 0.0354 | 0.0416 | 0.0303 | 0.0515 | 358.2 | 179.1 | 98.4 | 55.3 | 35.4 | 24.6 | 18.1 | 13.8 | 10.9 | |
| 12 | 22 | 50 | 1.53 | 0.0287 | 0.0360 | 0.0474 | 0.0539 | 0.0466 | 0.0685 | 383.6 | 191.8 | 127.9 | 74.1 | 47.4 | 32.9 | 24.2 | 18.5 | 14.6 | 11.9 |
| 12 | 20 | 33 | 1.87 | 0.0413 | 0.0513 | 0.0750 | 0.0759 | 0.0659 | 0.1002 | 386.4 | 193.2 | 128.8 | 78.1 | 50.0 | 34.7 | 25.5 | 19.5 | 15.4 | 12.5 |
| 12 | 18 | 33 | 2.43 | 0.0590 | 0.0712 | 0.1157 | 0.1010 | 0.0888 | 0.1362 | 665.5 | 332.7 | 214.3 | 120.5 | 77.1 | 53.6 | 39.4 | 30.1 | 23.8 | 19.3 |
| 12 | 0.040" | 19 | 1.14 | 0.1040 | 0.1040 | 0.3555 | 0.1040 | 0.1040 | 0.1468 | 89.1 | 44.6 | 29.7 | 22.3 | 17.8 | 14.9 | 12.7 | 11.1 | 10.0 | |
| 12 | 0.050" | 19 | 2.50 | 0.1260 | 0.1260 | 0.4302 | 0.1260 | 0.1260 | 0.1773 | 142.7 | 71.4 | 47.6 | 35.7 | 28.6 | 23.8 | 20.4 | 17.8 | 15.9 | 14.3 |

- 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.