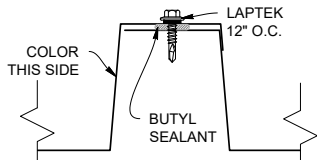


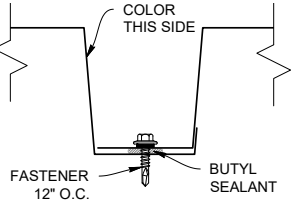


ICC-ES EVALUATION REPORT #5045 with CBC-CRC Supplement (Coming 2024 siding only)

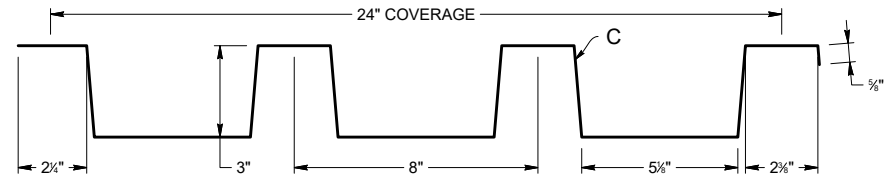
### ROOF LAP DETAIL



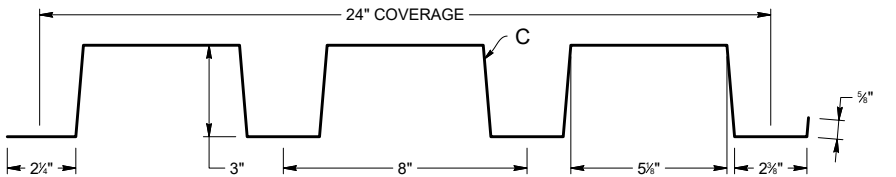
### WALL LAP DETAIL



### ROOF PROFILE




### WALL PROFILE



## KEY FEATURES

- 24, 22 Tru-Gauge™ and .032" Aluminum
- Custom 20 & 18 Tru-Gauge™ and .040" Aluminum (please inquire)
- 1:12 minimum pitch recommended when installed with butyl sealant
- Custom lengths 2' to 20' 10"
- Standard trim, custom trim and accessory packages available
- Color matched neoprene washered screws
- Roof and Vertical or Horizontal Wall application
- Manufactured in Salem OR, Sacramento CA, and Riverside CA
- OverEZee™ Retro-fit systems available

## TESTING

-  ICC-ESR #5045 with CBC-CRC Supplement (Coming 2024 siding only)
- ASTM E1680 - Air infiltration (roof)
- ASTM E1646 - Water infiltration (roof)
- ASTM E1592 - Structural uniform static air pressure
- ASTM E331 - Water infiltration (wall)
- ASTM E283 - Air infiltration (wall)
- ASTM A653/A924 - G90 Galvanized
- ASTM A792 - Zincalume/Galvalume AZ-50/55
- ASTM B209 - Aluminum Substrate

## WEIGHT CHART

| TMP 3-8-24   | WIDTH | 24 GA STEEL | 22 GA STEEL | .032 ALUM | .040 ALUM |
|--------------|-------|-------------|-------------|-----------|-----------|
| THICKNESS    |       | 0.0236"     | 0.0285"     | 0.032"    | 0.040"    |
| WEIGHT/LINFT | 24"   | 3.485 LBS   | 4.209 LBS   | 1.651 LBS | 2.064 LBS |
| WEIGHT/LSQFT | 24"   | 1.743 LBS   | 2.104 LBS   | 0.826 LBS | 1.032 LBS |

| ASTM E 1680/E283<br>Air Penetration      | ASTM E 1646/E331<br>Water Penetration |
|--|---------------------------------------|
| 25 PSF < 0.01 CFM/ft <sup>2</sup> - PASS | 50 PSF - PASS                         |

## NEGATIVE LOAD CHART WITH 3 SCREWS

|            |       |           |            | 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'   |
| 24         | 24    | 50        | 1.70       | 0.4370                           | 0.4310                                 | 0.1990                           | 0.4190                           | 0.4240                                 | 0.2240                           | 195.0  | 178.8 | 162.5 | 146.3 | 130.0 | 113.8 | 97.5 | 81.3 | 65.0 |
| 24         | 22    | 50        | 2.01       | 0.5780                           | 0.5710                                 | 0.2760                           | 0.5560                           | 0.5620                                 | 0.3190                           | 195.0  | 178.8 | 162.5 | 146.3 | 130.0 | 113.8 | 97.5 | 81.3 | 65.0 |
| 24         | 20    | 33        | 2.46       | 0.8620                           | 0.8330                                 | 0.4480                           | 0.7620                           | 0.7910                                 | 0.4620                           | 195.0  | 178.8 | 162.5 | 146.3 | 130.0 | 113.8 | 97.5 | 81.3 | 65.0 |
| 24         | 18    | 33        | 3.18       | 1.1950                           | 1.1580                                 | 0.6400                           | 1.0700                           | 1.1060                                 | 0.6830                           | 195.0  | 178.8 | 162.5 | 146.3 | 130.0 | 113.8 | 97.5 | 81.3 | 65.0 |

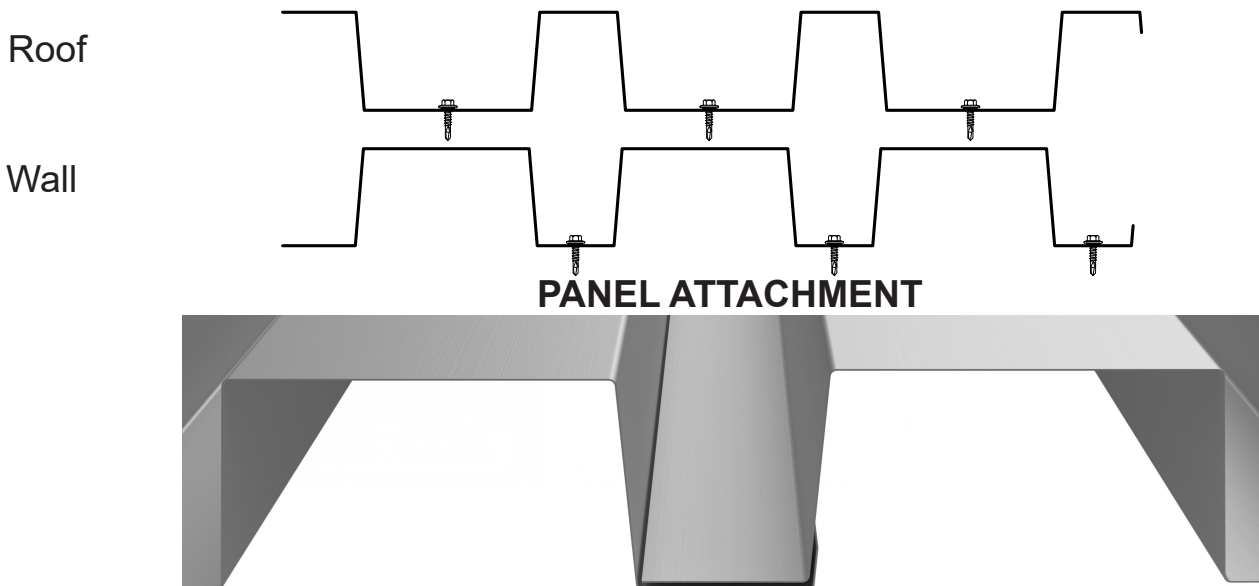
- Theoretical section properties for still panels have been calculated per AISI S100 Specifications for Design of Cold-Formed Steel Structural Members.
- Charted Load/Span values are based on ASTM E1592-05, divided by a 2.00 Factor-of-Safety.
- Minimum recommended substrate (structure) recommendations:
  - 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 3 SCREWS

|            |        |           |            | 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'   |
| 24         | 24     | 50        | 1.70       | 0.4370                           | 0.4310                                 | 0.1990                           | 0.4190                           | 0.4240                                 | 0.2240                           | 1016.4   | 508.2  | 338.8 | 254.1 | 199.0 | 138.2 | 101.5 | 77.7  | 61.4  | 49.8  |
| 24         | 22     | 50        | 2.01       | 0.5780                           | 0.5710                                 | 0.2760                           | 0.5560                           | 0.5620                                 | 0.3190                           | 1370.9   | 685.5  | 457.0 | 342.7 | 274.2 | 191.7 | 140.8 | 107.8 | 85.2  | 69.0  |
| 24         | 20     | 33        | 2.46       | 0.8620                           | 0.8330                                 | 0.4480                           | 0.7620                           | 0.7910                                 | 0.4620                           | 1293.6   | 646.8  | 431.2 | 323.4 | 258.7 | 207.4 | 152.4 | 116.7 | 92.2  | 74.7  |
| 24         | 18     | 33        | 3.18       | 1.1950                           | 1.1580                                 | 0.6400                           | 1.0700                           | 1.1060                                 | 0.6830                           | 2075.5   | 1037.7 | 691.8 | 518.9 | 415.1 | 296.3 | 217.7 | 166.7 | 131.7 | 106.7 |
| 24         | 0.032" | 19        | 0.83       | 1.0160                           | 1.0160                                 | 0.5632                           | 1.0160                           | 1.0160                                 | 0.7980                           | 162.7  | 81.4   | 54.2  | 40.7  | 32.6  | 26.9  | 19.7  | 15.1  | 11.9  |       |
| 24         | 0.040" | 19        | 1.03       | 1.2600                           | 1.2600                                 | 0.7290                           | 1.2600                           | 1.2600                                 | 0.9870                           | 250.9  | 125.5  | 83.6  | 62.7  | 50.2  | 41.8  | 32.0  | 24.5  | 19.4  | 15.7  |
| 24         | 0.050" | 19        | 1.28       | 1.5600                           | 1.5600                                 | 0.9030                           | 1.5600                           | 1.5600                                 | 1.2240                           | 382.7  | 191.4  | 127.6 | 95.7  | 76.6  | 63.8  | 49.5  | 37.9  | 29.9  | 24.2  |

- 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.

### FASTENER DIAGRAM



#### Fastener Notes:

- When possible, lap panels away from prevailing wind direction.
- 15/32" OSB: #14 GP Neoprene Washered fastener. Screws should be long enough to penetrate through the bottom of the plywood by 3/8".
- 15/32" Plywood: #14 GP Neoprene Washered 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: #12 Fastener with DP-1
- Sidelaps fasten with #14 LapTek screws.
- All trim screws used for roof or wall applications should have EPDM sealing washers.
- Fastener spacing is based on project specific structural requirements. Consult a licensed engineer.

Rev. Date 08-24