



Installation Guide  
**TLC Series**

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The application and detail drawings in this manual are strictly for illustration purposes and may not be applicable to all building designs or product installations. All projects should conform to applicable building codes for that particular area. It is recommended to follow all building regulations and standard industry practices.

Metal Sales Manufacturing Corporation is not responsible for the performance of the wall system if it is not installed in accordance with the suggested instructions referenced in this manual. If there is a conflict between this manual and the actual erection drawings, the erection drawings are to take precedence.

Prior to ordering and installing materials, all dimensions should be verified by field measurements.

Metal Sales reserves the right to modify, without notice, any details, recommendations or suggestions. Any questions you may have regarding proper installation of these Concealed Fastened Wall Panel systems should be directed to your local Metal Sales representative (see pages 2 and 3).

Oil canning is not a cause for rejection. Oil canning can be described as the amount of waviness found in the flat areas of metal panels. Oil canning is an inherent characteristic of light gauge cold formed metal products, particularly those with broad flat areas. There are many factors which may contribute to oil canning that Metal Sales is not able to control. These factors include: misalignment of the support system, over driving of fasteners used on the panels, stress (whether inherent in the panel or induced), thermal expansion and contraction of the panel, improper material handling, width, gauge, length, color of panels and improper installation (reference Metal Construction Association "Oil Canning Position Paper"- Appendix A).

Consult your local Metal Sales Branch for any additional information not outlined in this manual.

This manual is designed to be utilized as a guide when installing a Concealed Fastened Wall Panel system. It is the responsibility of the erector to ensure the safe installation of this product system.

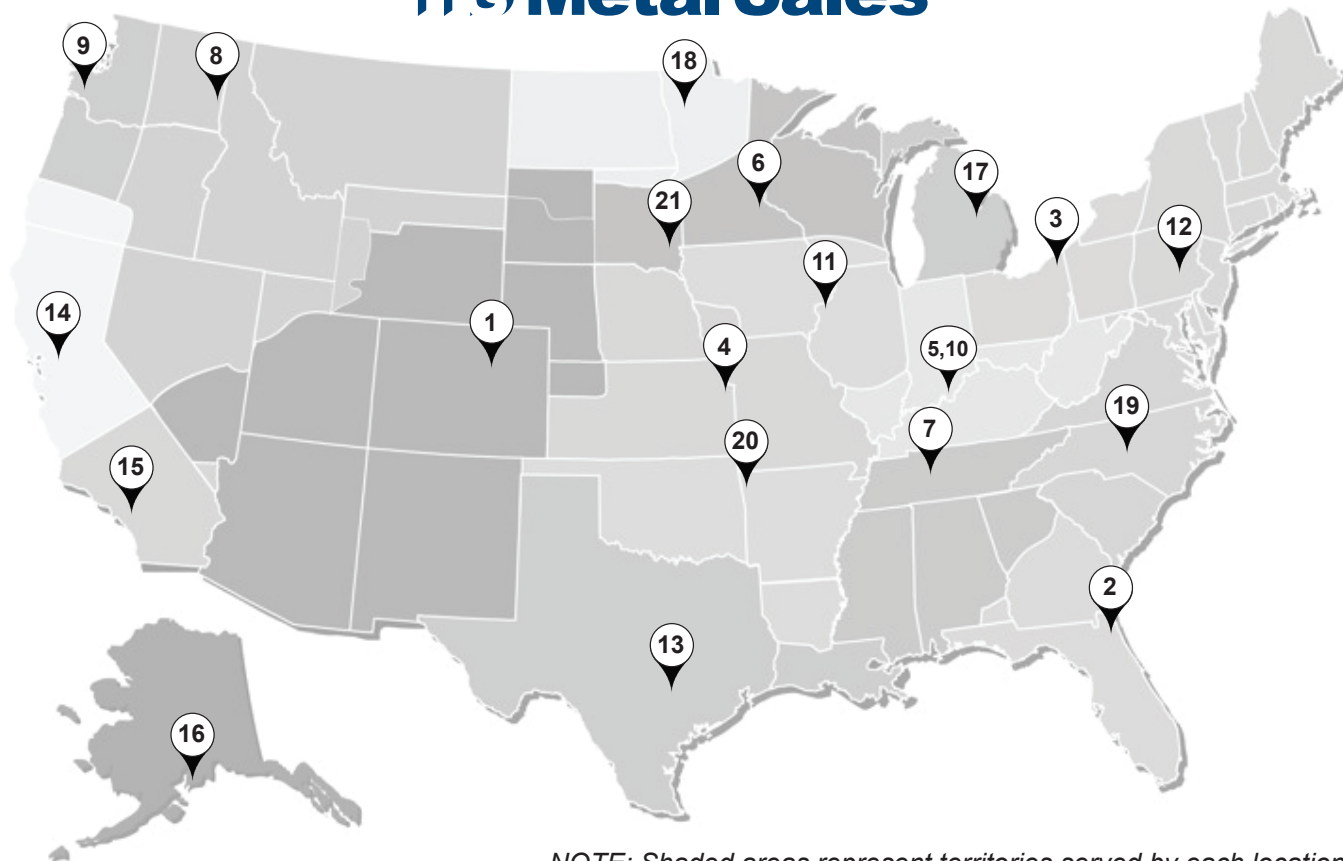
## **SAFETY**

### **STUDY APPLICABLE OSHA AND OTHER SAFETY REQUIREMENTS BEFORE FOLLOWING THESE INSTRUCTIONS.**

The installation of metal wall systems is a dangerous procedure and should be supervised by trained knowledgeable erectors. **USE EXTREME CARE WHILE INSTALLING WALL PANELS.** It is not possible for Metal Sales to be aware of all the possible job site situations that could cause an unsafe condition to exist. The erector of the wall system is responsible for reading these instructions and determining the safest way to install the wall system.

These instructions are provided only as a guide to show a knowledgeable, trained erector the correct relationship of parts to one another. If following any of the installation steps would endanger a worker, the erector should stop work and decide upon a corrective action.

Fall protection for workers installing wall panels must be provided.



NOTE: Shaded areas represent territories served by each location.

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509.534.4427 Fax

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Kelso, WA 98626  
253.872.5750  
800.431.3470  
253.872.2008 Fax

**10. NEW ALBANY**

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New Albany, IN 47150  
812.944.2733  
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**11. ROCK ISLAND**

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Rock Island, IL 61201  
309.787.1200  
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309.787.1833 Fax

**12. DEER LAKE**

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800.544.2577  
570.366.1648 Fax  
800.544.2574 Fax

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800.759.6019  
530.668.0901 Fax

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Fontana, CA 92335  
909.829.8618  
800.782.7953  
909.829.9083 Fax

**16. ANCHORAGE**

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Anchorage, AK 99503  
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866.640.7663  
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**17. BAY CITY**

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Bay City, MI 48706  
989.686.5879  
888.777.7640  
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**18. DETROIT LAKES**

1435 Egret Avenue  
Detroit Lakes, MN 56501  
218.847.2988  
888.594.1394  
218.847.4835 Fax  
888.594.1454 Fax

**19. MOCKSVILLE**

188 Quality Drive  
Mocksville, NC 27028  
336.751.6381  
800.228.6119  
336.751.6301 Fax  
800.228.7916 Fax

**20. FORT SMITH**

7510 Ball Road  
Fort Smith, AR 72908  
479.646.1176  
877.452.3915  
479.646.5204 Fax

**21. SIOUX FALLS**

2700 West 3rd Street, Suite 4  
Sioux Falls, SD 57104  
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7800 Highway 60  
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**TECH SERVICES DEPT.**

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**Safety**

Use proper safety gear, safe equipment and safe processes. Safety gear includes gloves, arm guards, safety goggles and fall protection. Safe equipment includes maintained screw gun, saw, snips and folder. Safe processes include being aware of dangers and taking appropriate measures to avoid them.

**Material Storage**

Material not used right away, should be stored inside, out of the elements. If inside storage is not available, tarp the material such that air can circulate. Elevate the crates off the ground and slope so that water will run off.

**Wall Condition**

Before installing panels, ensure the wall support material is plumb, square and true. Variance from in-plane should not exceed 1/4" in 10'.

**Wall Assembly**

Cover building envelope with a moisture barrier, such as peel-and-stick underlayment or synthetic building wrap to meet building code requirements for water resistance barrier to resist air and water penetration through the wall assembly. Install the moisture barrier horizontally from the bottom upward, overlapping each run over the previous, lower run.

**Plan the Work**

Before installing panels on a wall section, plan for alignment with adjacent wall sections. Decide if the first and last panels in the run should be a full or partial panel. Consider the locations of wall penetrations and openings.

**Fasteners**

Do not overtighten the panel fasteners. The fasteners should be brought just to firm contact between the support material and panel. Overtightening the fasteners can cause panel deformation.

The fastener spacing must be determined based on a load analysis to ensure adequate attachment. Stitch Screw in the sideleap or field-applied sealant / adhesive is required to develop load-carrying capacity.

**Installation Practice**

For horizontal panels, start at the top of the wall and work down the wall toward the bottom. Always 'shingle' panels and trims so that water will run down off of one member on to the next. Ensure every surface has adequate slope to permit water to run off and not collect on any surface. Vertical panel may be installed left-to-right or right-to-left.

When installing panels, give effort to stay on module by checking the coverage of each panel and the overall modularity relative to the end of the run after every tenth panel.

**Strippable Film**

Panels and trim are typically provided with strippable film as protection against minor fabrication, transit and handling damage. The strippable film must be removed just before installation. Waiting until after panel installation to remove the strippable film or after significant exposure to sunlight or heat can make removal very difficult.

**RECEIVING MATERIAL**

It is the responsibility of the installer to unload material from the delivery truck. The installer shall be responsible for providing suitable equipment for unloading of material from the delivery.

Metal Sales is not responsible for any damages or shortages unless they are documented in writing and presented to Metal Sales within 48 hours. A claim should be made against the carrier as soon as possible.

After receiving material:

- Check the condition of the material
- Review the shipment against the shipping list to ensure all materials are all accounted for
- If damages or shortages are discovered, it should be noted on the Bill of Lading at the time of delivery

**GENERAL HANDLING**

Each bundle should be handled carefully to avoid being damaged. Care should be taken to prevent bending of the panel or scratching of the finish. Whenever possible, the bundle should remain crated until it is located in its place of storage or use. If bundles must be opened, we recommend you re-crate them before lifting. To avoid damage lift the bundle at its center of gravity.

**CAUTION**

Improper loading and unloading of bundles and crates may result in bodily harm and/or material damage. Metal Sales is not responsible for bodily injuries and/or material damages resulting from improper loading and unloading.

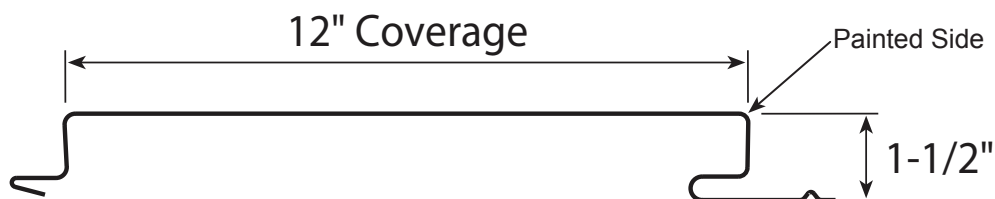
**MECHANICAL HANDLING**

**Forklift** - A forklift may be used for panels up to 20'-0" long. Make sure the forks are at their maximum separation. Do not transport open bundles. When transporting bundles across rough terrain, or over a longer distance, some means of supporting the panel load must be used.

**Crane** - A crane should be used when lifting panels with lengths greater than 20'-0". Be sure to utilize a spreader bar to ensure the even distribution of the weight to the pick up points. As a rule when lifting panels, no more than  $\frac{1}{3}$  of the length of the panel should be left unsupported. Never use wire rope because this will damage the panels.



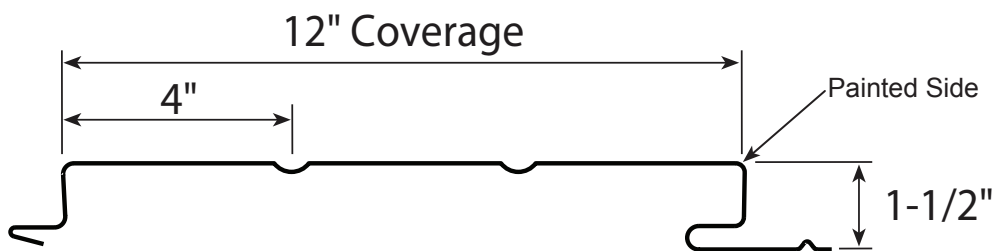
## TLC-1



Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F6741     | 12"      | Flat Face   | 24     | Galvalume® (ACG)      |
|         | 22F67XX     | 12"      | Flat Face   | 24     | PVDF Painted          |
|         | 23F6741     | 12"      | Flat Face   | 22     | Galvalume® (ACG)      |
|         | 23F67XX     | 12"      | Flat Face   | 22     | PVDF Painted          |
|         | 24F67XX     | 12"      | Flat Face   | 20     | PVDF Painted          |
|         | 22A67XX     | 12"      | Flat Face   | 0.032" | Aluminum PVDF Painted |
|         | 23A67XX     | 12"      | Flat Face   | 0.040" | Aluminum PVDF Painted |

## TLC-2

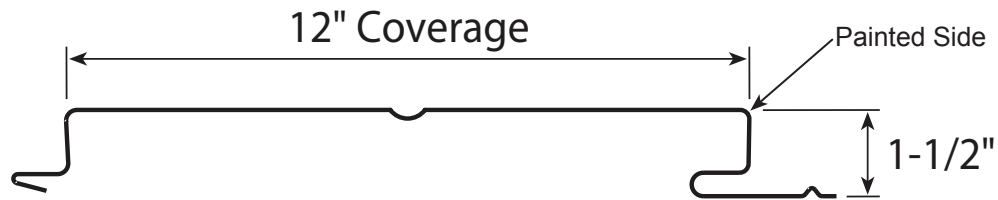


Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F6941     | 12"      | 2 beads     | 24     | Galvalume® (ACG)      |
|         | 22F69XX     | 12"      | 2 beads     | 24     | PVDF Painted          |
|         | 23F6941     | 12"      | 2 beads     | 22     | Galvalume® (ACG)      |
|         | 23F69XX     | 12"      | 2 beads     | 22     | PVDF Painted          |
|         | 24F69XX     | 12"      | 2 beads     | 20     | PVDF Painted          |
|         | 22A69XX     | 12"      | 2 beads     | 0.032" | Aluminum PVDF Painted |
|         | 23A69XX     | 12"      | 2 beads     | 0.040" | Aluminum PVDF Painted |



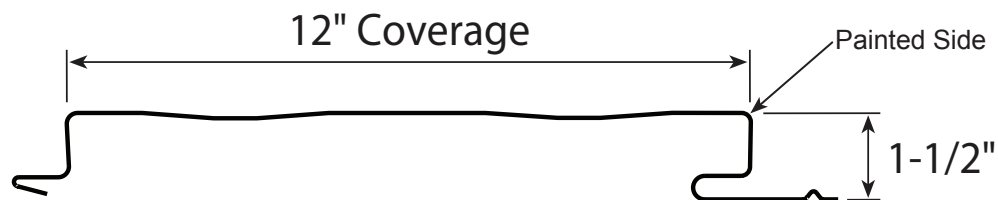
## TLC-3



Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F7241     | 12"      | 1 bead      | 24     | Galvalume® (ACG)      |
|         | 22F72XX     | 12"      | 1 bead      | 24     | PVDF Painted          |
|         | 23F7241     | 12"      | 1 bead      | 22     | Galvalume® (ACG)      |
|         | 23F72XX     | 12"      | 1 bead      | 22     | PVDF Painted          |
|         | 24F72XX     | 12"      | 1 bead      | 20     | PVDF Painted          |
|         | 22A72XX     | 12"      | 1 bead      | 0.032" | Aluminum PVDF Painted |
|         | 23A72XX     | 12"      | 1 bead      | 0.040" | Aluminum PVDF Painted |

## TLC-4

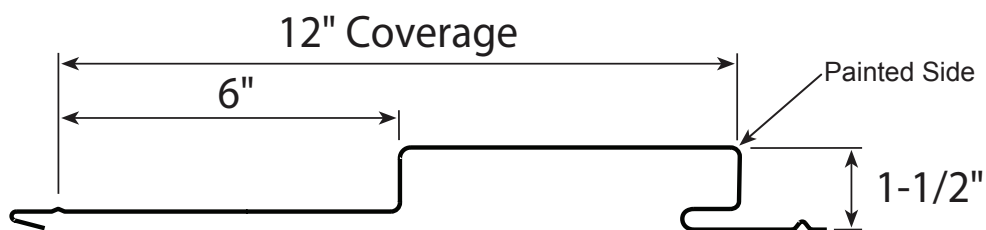


Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F7341     | 12"      | striated    | 24     | Galvalume® (ACG)      |
|         | 22F73XX     | 12"      | striated    | 24     | PVDF Painted          |
|         | 23F7341     | 12"      | striated    | 22     | Galvalume® (ACG)      |
|         | 23F73XX     | 12"      | striated    | 22     | PVDF Painted          |
|         | 24F73XX     | 12"      | striated    | 20     | PVDF Painted          |
|         | 22A73XX     | 12"      | striated    | 0.032" | Aluminum PVDF Painted |
|         | 23A73XX     | 12"      | striated    | 0.040" | Aluminum PVDF Painted |



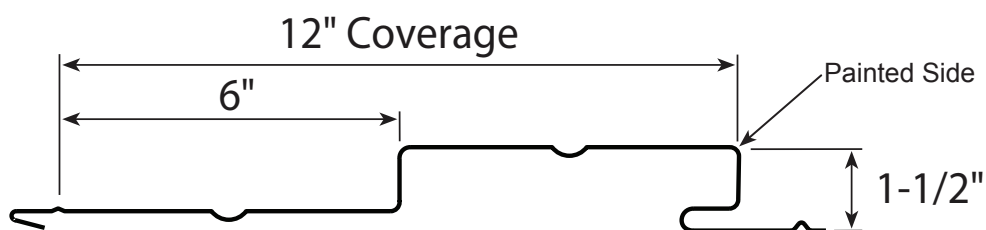
## TLC-9



Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F0941     | 12"      | 1 rib       | 24     | Galvalume® (ACG)      |
|         | 22F09XX     | 12"      | 1 rib       | 24     | PVDF Painted          |
|         | 23F9241     | 12"      | 1 rib       | 22     | Galvalume® (ACG)      |
|         | 23F92XX     | 12"      | 1 rib       | 22     | PVDF Painted          |
|         | 24F92XX     | 12"      | 1 rib       | 20     | PVDF Painted          |
|         | 22A09XX     | 12"      | 1 rib       | 0.032" | Aluminum PVDF Painted |
|         | 23A92XX     | 12"      | 1 rib       | 0.040" | Aluminum PVDF Painted |

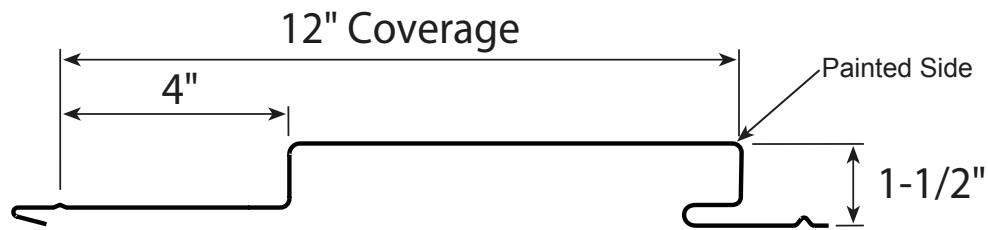
## TLC-10



Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description  | Gauge  | Finish                |
|---------|-------------|----------|--------------|--------|-----------------------|
|         | 22F9341     | 12"      | 1 rib, beads | 24     | Galvalume® (ACG)      |
|         | 22F93XX     | 12"      | 1 rib, beads | 24     | PVDF Painted          |
|         | 23F9341     | 12"      | 1 rib, beads | 22     | Galvalume® (ACG)      |
|         | 23F93XX     | 12"      | 1 rib, beads | 22     | PVDF Painted          |
|         | 24F93XX     | 12"      | 1 rib, beads | 20     | PVDF Painted          |
|         | 22A93XX     | 12"      | 1 rib, beads | 0.032" | Aluminum PVDF Painted |
|         | 23A93XX     | 12"      | 1 rib, beads | 0.040" | Aluminum PVDF Painted |

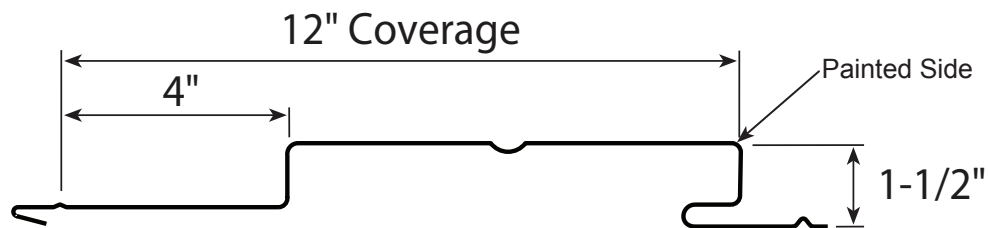
## TLC-11



Panel can be produced in lengths from 5' to 40'.

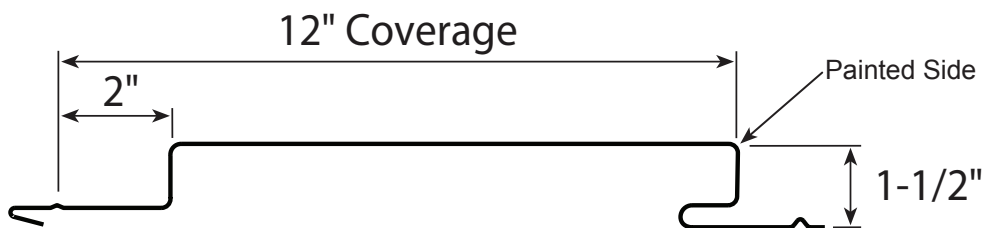
| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F9441     | 12"      | 1 rib       | 24     | Galvalume® (ACG)      |
|         | 22F94XX     | 12"      | 1 rib       | 24     | PVDF Painted          |
|         | 23F9441     | 12"      | 1 rib       | 22     | Galvalume® (ACG)      |
|         | 23F94XX     | 12"      | 1 rib       | 22     | PVDF Painted          |
|         | 24F94XX     | 12"      | 1 rib       | 20     | PVDF Painted          |
|         | 22A94XX     | 12"      | 1 rib       | 0.032" | Aluminum PVDF Painted |
|         | 23A94XX     | 12"      | 1 rib       | 0.040" | Aluminum PVDF Painted |

## TLC-12



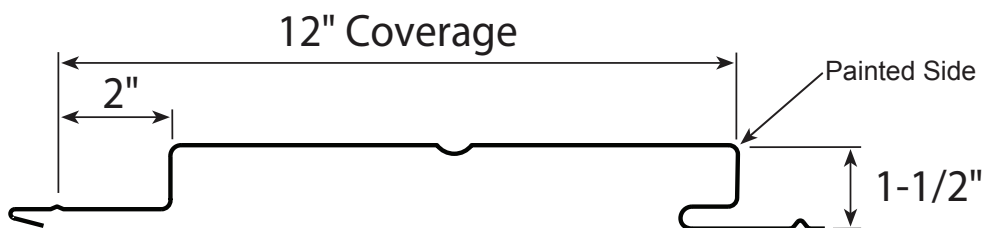
Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22W1241     | 12"      | 1 rib, bead | 24     | Galvalume® (ACG)      |
|         | 22W12XX     | 12"      | 1 rib, bead | 24     | PVDF Painted          |
|         | 23W1241     | 12"      | 1 rib, bead | 22     | Galvalume® (ACG)      |
|         | 23W12XX     | 12"      | 1 rib, bead | 22     | PVDF Painted          |
|         | 24W12XX     | 12"      | 1 rib, bead | 20     | PVDF Painted          |
|         | 22A12XXA    | 12"      | 1 rib, bead | 0.032" | Aluminum PVDF Painted |
|         | 23A12XXA    | 12"      | 1 rib, bead | 0.040" | Aluminum PVDF Painted |

**TLC-13**

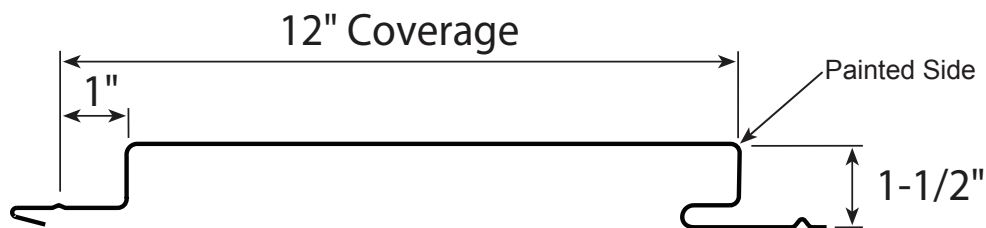
Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22W1341     | 12"      | 1 rib       | 24     | Galvalume® (ACG)      |
|         | 22W13XX     | 12"      | 1 rib       | 24     | PVDF Painted          |
|         | 23W1341     | 12"      | 1 rib       | 22     | Galvalume® (ACG)      |
|         | 23W13XX     | 12"      | 1 rib       | 22     | PVDF Painted          |
|         | 24W13XX     | 12"      | 1 rib       | 20     | PVDF Painted          |
|         | 22A13XXA    | 12"      | 1 rib       | 0.032" | Aluminum PVDF Painted |
|         | 23A13XXA    | 12"      | 1 rib       | 0.040" | Aluminum PVDF Painted |

**TLC-14**

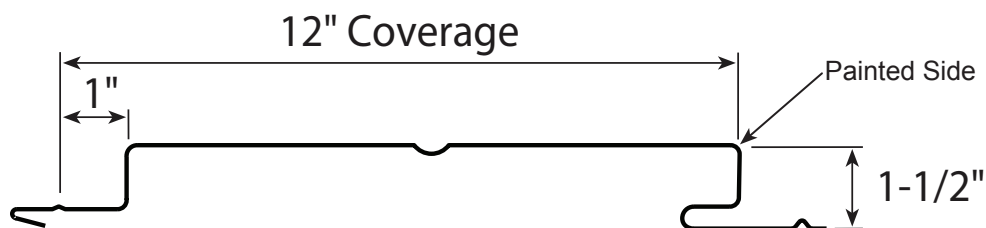
Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22W1441     | 12"      | 1 rib, bead | 24     | Galvalume® (ACG)      |
|         | 22W14XX     | 12"      | 1 rib, bead | 24     | PVDF Painted          |
|         | 23W1441     | 12"      | 1 rib, bead | 22     | Galvalume® (ACG)      |
|         | 23W14XX     | 12"      | 1 rib, bead | 22     | PVDF Painted          |
|         | 24W14XX     | 12"      | 1 rib, bead | 20     | PVDF Painted          |
|         | 22A14XXA    | 12"      | 1 rib, bead | 0.032" | Aluminum PVDF Painted |
|         | 23A14XXA    | 12"      | 1 rib, bead | 0.040" | Aluminum PVDF Painted |

**TLC-15**

Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22F9441     | 12"      | 1 rib       | 24     | Galvalume® (ACG)      |
|         | 22F94XX     | 12"      | 1 rib       | 24     | PVDF Painted          |
|         | 23F9441     | 12"      | 1 rib       | 22     | Galvalume® (ACG)      |
|         | 23F94XX     | 12"      | 1 rib       | 22     | PVDF Painted          |
|         | 24F94XX     | 12"      | 1 rib       | 20     | PVDF Painted          |
|         | 22A94XX     | 12"      | 1 rib       | 0.032" | Aluminum PVDF Painted |
|         | 23A94XX     | 12"      | 1 rib       | 0.040" | Aluminum PVDF Painted |

**TLC-16**

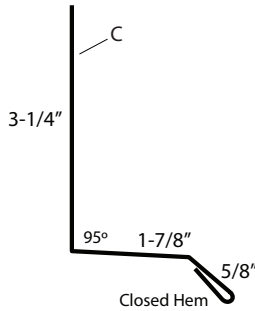
Panel can be produced in lengths from 5' to 40'.

| Profile | Product No. | Coverage | Description | Gauge  | Finish                |
|---------|-------------|----------|-------------|--------|-----------------------|
|         | 22W1641     | 12"      | 1 rib, bead | 24     | Galvalume® (ACG)      |
|         | 22W16XX     | 12"      | 1 rib, bead | 24     | PVDF Painted          |
|         | 23W1641     | 12"      | 1 rib, bead | 22     | Galvalume® (ACG)      |
|         | 23W16XX     | 12"      | 1 rib, bead | 22     | PVDF Painted          |
|         | 24W16XX     | 12"      | 1 rib, bead | 20     | PVDF Painted          |
|         | 22A16XXA    | 12"      | 1 rib, bead | 0.032" | Aluminum PVDF Painted |
|         | 23A16XXA    | 12"      | 1 rib, bead | 0.040" | Aluminum PVDF Painted |

# TLC SERIES INSTALL GUIDE

## Flashing Profiles

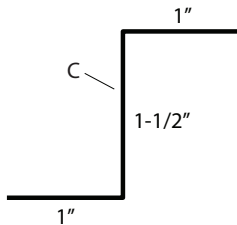
### BASE TRIM



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5870841     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58708XX     | 10'-2" | 24     | PVDF Painted          |
| 6070841     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60708XX     | 10'-2" | 22     | PVDF Painted          |
| 58708XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 6<sup>1</sup>/<sub>8</sub>"

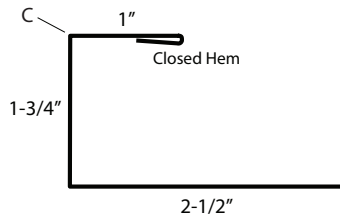
### Z-CLOSURE



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5760541     | 10'-2" | 24     | Galvalume® (ACG)      |
| 57605XX     | 10'-2" | 24     | PVDF Painted          |
| 6060541     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60605XX     | 10'-2" | 22     | PVDF Painted          |
| 57605XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 3<sup>1</sup>/<sub>2</sub>"

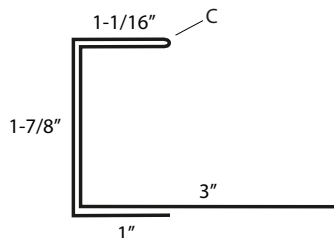
### JAMB TRIM



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5867141     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58671XX     | 10'-2" | 24     | PVDF Painted          |
| 6076141     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60761XX     | 10'-2" | 22     | PVDF Painted          |
| 58671XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 5<sup>1</sup>/<sub>4</sub>"

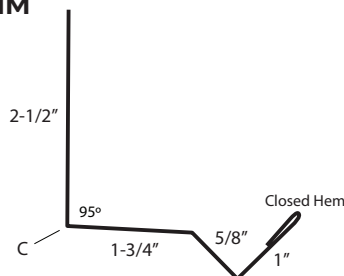
### WINDOW CLOSURE



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5874441     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58744XX     | 10'-2" | 24     | PVDF Painted          |
| 6074441     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60744XX     | 10'-2" | 22     | PVDF Painted          |
| 58744XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 9<sup>7</sup>/<sub>8</sub>"

### HEAD TRIM



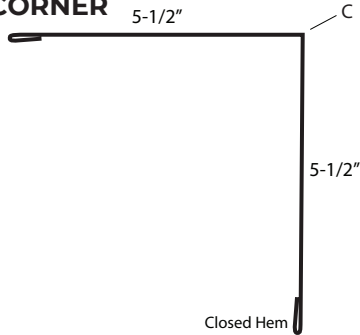
| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5862141     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58621XX     | 10'-2" | 24     | PVDF Painted          |
| 6062141     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60621XX     | 10'-2" | 22     | PVDF Painted          |
| 58621XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 6<sup>3</sup>/<sub>8</sub>"

# TLC SERIES INSTALL GUIDE

# Flashing Profiles

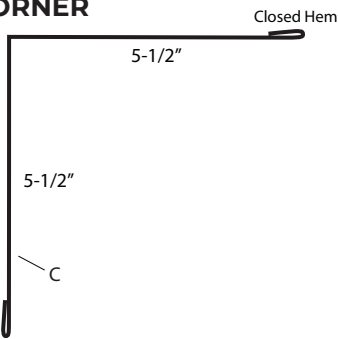
## OUTSIDE CORNER



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5813241     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58132XX     | 10'-2" | 24     | PVDF Painted          |
| 5913241     | 10'-2" | 22     | Galvalume® (ACG)      |
| 59132XX     | 10'-2" | 22     | PVDF Painted          |
| 58132XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 12"

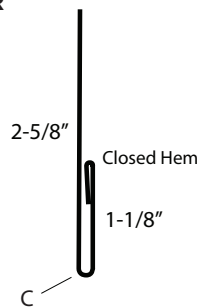
## INSIDE CORNER



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5812641     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58126XX     | 10'-2" | 24     | PVDF Painted          |
| 5912641     | 10'-2" | 22     | Galvalume® (ACG)      |
| 59126XX     | 10'-2" | 22     | PVDF Painted          |
| 58126XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 12"

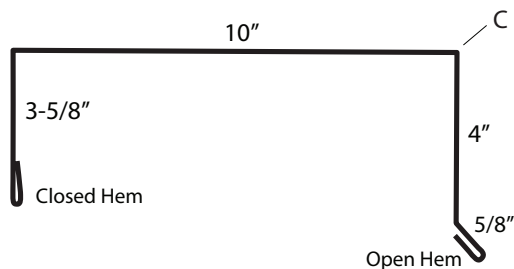
## PANEL STARTER



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5872841     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58728XX     | 10'-2" | 24     | PVDF Painted          |
| 6072841     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60728XX     | 10'-2" | 22     | PVDF Painted          |
| 58728XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 4 1/4"

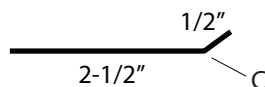
## COPING



| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5802641     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58026XX     | 10'-2" | 24     | PVDF Painted          |
| 6002641     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60026XX     | 10'-2" | 22     | PVDF Painted          |
| 58026XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

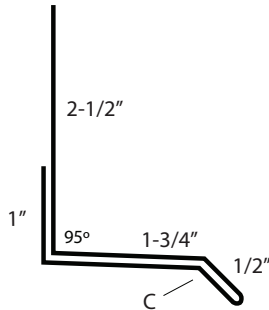
Flashing Stretch Out = 19 1/4"

## CLEAT



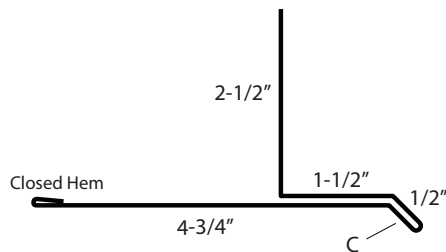
| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5806099     | 10'-2" | 24     | Various Colors        |
| 58060XX     | 10'-2" | 24     | PVDF Painted          |
| 5906041     | 10'-2" | 22     | Galvalume® (ACG)      |
| 59060XX     | 10'-2" | 22     | PVDF Painted          |
| 58060XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

Flashing Stretch Out = 3"

**SILL/HEAD**


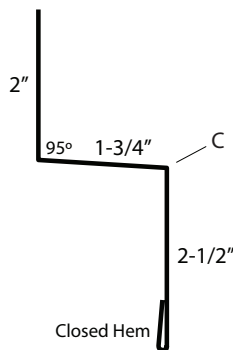
Flashing Stretch Out = 8"

| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5860741     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58607XX     | 10'-2" | 24     | PVDF Painted          |
| 6060741     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60607XX     | 10'-2" | 22     | PVDF Painted          |
| 58607XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

**SILL-TO-SOFFIT TRIM**


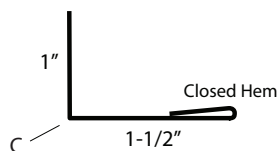
Flashing Stretch Out = 10 1/4"

| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5811841     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58118XX     | 10'-2" | 24     | PVDF Painted          |
| 6011841     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60118XX     | 10'-2" | 22     | PVDF Painted          |
| 58118XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

**TRANSITION TRIM**


Flashing Stretch Out = 5 1/8"

| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5873841     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58738XX     | 10'-2" | 24     | PVDF Painted          |
| 6073841     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60738XX     | 10'-2" | 22     | PVDF Painted          |
| 58738XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |

**MITER TRIM**


Flashing Stretch Out = 3"

| Product No. | Length | Gauge  | Finish                |
|-------------|--------|--------|-----------------------|
| 5865441     | 10'-2" | 24     | Galvalume® (ACG)      |
| 58654XX     | 10'-2" | 24     | PVDF Painted          |
| 6065441     | 10'-2" | 22     | Galvalume® (ACG)      |
| 60654XX     | 10'-2" | 22     | PVDF Painted          |
| 58654XXA    | 10'-2" | 0.032" | Aluminum PVDF Painted |



# TLC SERIES INSTALL GUIDE

## Accessories

### UNIVERSAL CLOSURE



| Product No. | Description       | WT/Ea    | Type |
|-------------|-------------------|----------|------|
| 6411100     | 1" x 1 1/2" x 50' | 4.00 lbs | Foam |
| 6411199     | 1" x 1 1/2" x 10' | 0.80 lbs | Foam |

### DOUBLE BEAD-TAPE SEALANT



| Product No. | Description                               | WT/Ctn.   | Type  |
|-------------|---|-----------|-------|
| 6403899     | 7/8" x 3/16" x 25'<br>20 Rolls per Carton | 40.00 lbs | Butyl |

### TUBE ADHESIVE



| Product No. | Description           | WT/Ea    | Color        |
|-------------|-----------------------|----------|--------------|
| 6402800     | Acrylic Tube Adhesive | 3.31 lbs | Clear        |
| 64028XX     | Tube Adhesive         | 3.31 lbs | Color Match* |

\*Contact branch for color options

### POP RIVET



| Product No. | Description           | WT/250   | Finish  |
|-------------|-----------------------|----------|---------|
| 8240201     | 1/8" x 3/8" Pop Rivet | 0.75 lbs | Bare    |
| 82402XX     | 1/8" x 3/8" Pop Rivet | 0.75 lbs | Painted |

### PANCAKE HEAD WOOD SCREW



| Product No. | Description               | WT/250   | Finish |
|-------------|---------------------------|----------|--------|
| 8243100     | #10-12 x 1" PH Wood Screw | 1.90 lbs | Plated |

### PANCAKE HEAD DRILLER



| Product No. | Description            | WT/250   | Finish |
|-------------|------------------------|----------|--------|
| 8242100     | #10-16 x 1" PH Driller | 1.90 lbs | Plated |

### SELF DRILLER - NO WASHER

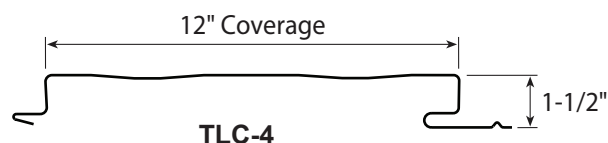
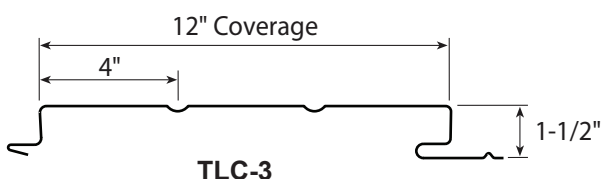
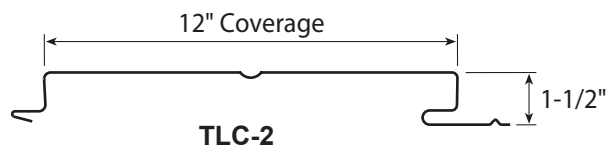
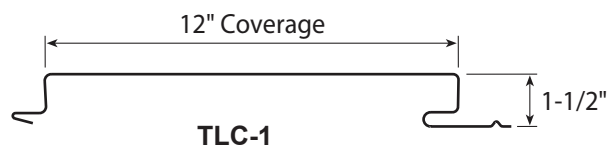


| Product No. | Description              | WT/250   | Finish |
|-------------|--------------------------|----------|--------|
| 824200      | #12-14 x 1" SD No Washer | 1.90 lbs | Plated |

### STITCH SCREW



| Product No. | Description                | WT/250   | Finish |
|-------------|----------------------------|----------|--------|
| 8234800     | 1/4-14 x 7/8" Stitch Screw | 1.90 lbs | Plated |
| 82348XX     | 1/4-14 x 7/8" Stitch Screw | 1.90 lbs | Plated |

**TLC-1 • TLC-2 • TLC-3 • TLC-4****PANEL OVERVIEW**

- Finish: Standard: PVDF  
Optional: multi-pass PVDF, Vintage and Weathering Steel
- Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®, G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga and 20 ga
- Installation: Vertical (Left to Right or Right to Left), Horizontal (Top to Bottom)
- 12" panel coverage, 1-1/2" panel height
- Flush face, concealed fastened, non-end lapping panel system
- Roll-Formed Panels
- Panel Length: 5' minimum, 40' maximum
- Optional material availability: Copper and Aluminum
- Panels can be installed horizontally or vertically and are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems

**TESTING AND APPROVALS**

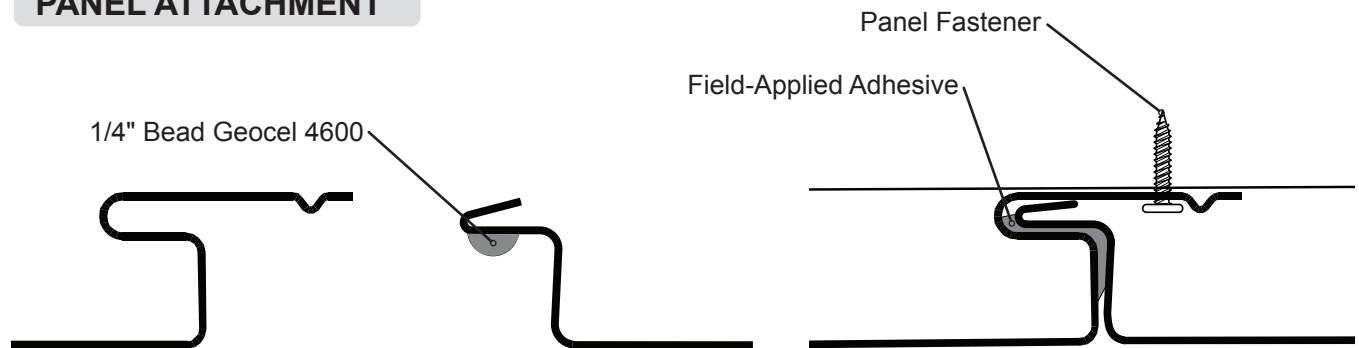
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Load Test

**FASTENING INFORMATION**

- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
- Thick Panels (ex. 20 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.
- Panel Fasteners:
  - Attaching to Wood:
    - #10-12 Pancake Head Wood Screw
  - Attaching to Steel:
    - Less than 20 ga: 1/4"-13 Deck Screw
    - Greater than or equal to 20 ga, ≤12 ga: #10-16 Pancake Head Driller
- Trim Fasteners:
  - 1/4"-14 x 7/8" XL Stitch Screw
  - 1/8" x 3/16" Pop Rivet
- Field-Applied Adhesive:
  - 1/4" diameter bead of Geocel 4600

## TLC-1 • TLC-2 • TLC-3 • TLC-4

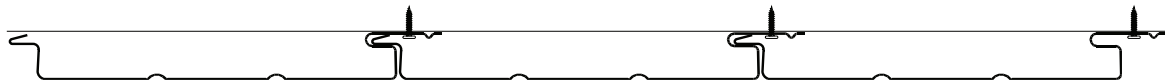
## PANEL ATTACHMENT



## DIRECTIONAL DETAILS

Horizontal Installation – Top to Bottom

Vertical Installation – Left to Right



Vertical Installation – Right to Left



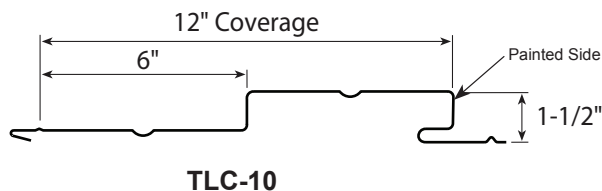
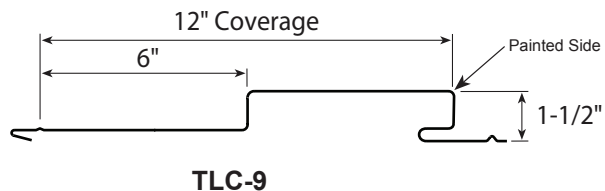
## SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top In Compression  |                     | Bottom In Compression |                     | Inward Load |    |    |    |    |    | Outward Load |    |    |    |    |    |
|----|-------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|----|----|----|----|----|--------------|----|----|----|----|----|
|    |             |              |               | Ixx                 | Sxx                 | Ixx                   | Sxx                 |             |    |    |    |    |    |              |    |    |    |    |    |
|    |             |              |               | in <sup>4</sup> /ft | in <sup>3</sup> /ft | in <sup>4</sup> /ft   | in <sup>3</sup> /ft | 2'          | 3' | 4' | 5' | 6' | 8' | 2'           | 3' | 4' | 5' | 6' | 8' |
| 24 | 12          | 50           | 1.48          | 0.0609              | 0.0616              | 0.1317                | 0.1123              | 50          | 33 | 25 | 20 | 19 | 18 | 80           | 53 | 40 | 32 | 27 | 25 |
| 22 | 12          | 50           | 1.93          | 0.0880              | 0.0923              | 0.1840                | 0.1593              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |
| 20 | 12          | 33           | 2.35          | 0.1260              | 0.1421              | 0.2460                | 0.2177              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |

- Theoretical section properties have been calculated per AISI S100-2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. Panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

## TLC-9 • TLC-10



## PANEL OVERVIEW

- Finish: Standard: PVDF  
Optional: multi-pass PVDF, Vintage and Weathering Steel
- Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®, G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga and 20 ga
- Installation: Vertical (Left to Right or Right to Left), Horizontal (Top to Bottom)
- 12" panel coverage, 1-1/2" panel height
- Flush face, concealed fastened, non-end lapping panel system
- Roll-Formed Panels
- Panel Length: 5' minimum, 40' maximum
- Optional material availability: Copper and Aluminum
- Panels can be installed horizontally or vertically and are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems

## TESTING AND APPROVALS

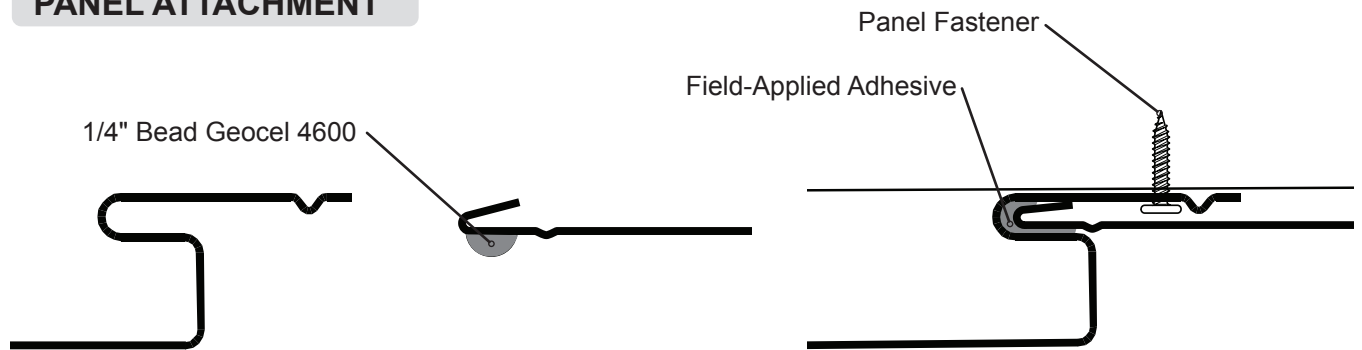
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Load Test

## FASTENING INFORMATION

- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
- Thick Panels (ex. 20 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.
- Panel Fasteners:
  - Attaching to Wood:
    - #10-12 Pancake Head Wood Screw
  - Attaching to Steel:
    - Less than 20 ga: 1/4"-13 Deck Screw
    - Greater than or equal to 20 ga, ≤12 ga: #10-16 Pancake Head Driller
- Trim Fasteners:
  - 1/4"-14 x 7/8" XL Stitch Screw
  - 1/8" x 3/16" Pop Rivet
- Field-Applied Adhesive:
  - 1/4" diameter bead of Geocel 4600

## TLC-9 • TLC-10

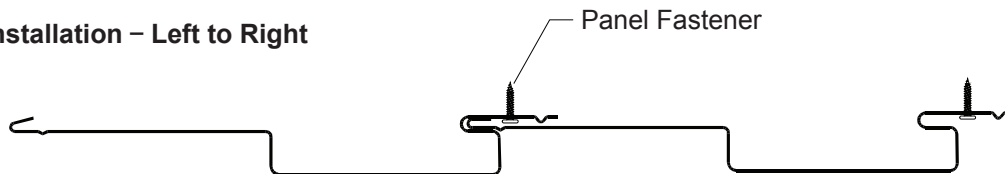
## PANEL ATTACHMENT



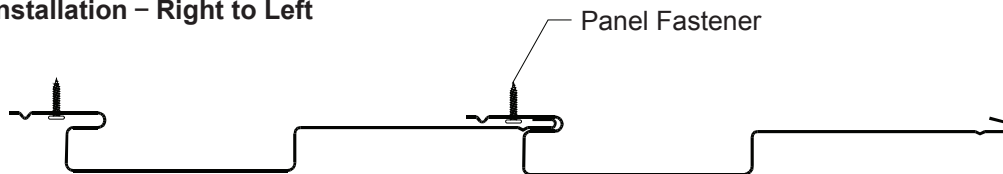
## DIRECTIONAL DETAILS

## Horizontal Installation – Top to Bottom

## Vertical Installation – Left to Right



## Vertical Installation – Right to Left



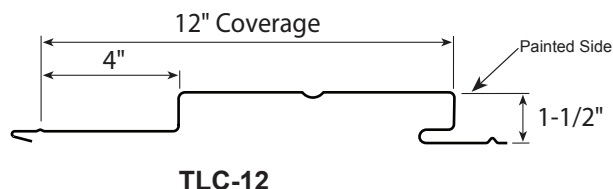
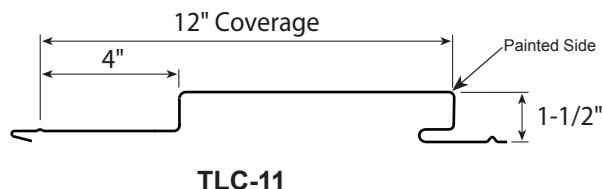
## SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top In Compression  |                     | Bottom In Compression |                     | Inward Load |    |    |    |    |    | Outward Load |    |    |    |    |    |
|----|-------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|----|----|----|----|----|--------------|----|----|----|----|----|
|    |             |              |               | Ixx                 | Sxx                 | Ixx                   | Sxx                 | 2'          | 3' | 4' | 5' | 6' | 8' | 2'           | 3' | 4' | 5' | 6' | 8' |
|    |             |              |               | in <sup>4</sup> /ft | in <sup>3</sup> /ft | in <sup>4</sup> /ft   | in <sup>3</sup> /ft |             |    |    |    |    |    |              |    |    |    |    |    |
| 24 | 12          | 50           | 1.51          | 0.0623              | 0.0592              | 0.1041                | 0.1060              | 90          | 53 | 40 | 32 | 27 | 20 | 90           | 60 | 45 | 36 | 30 | 23 |
| 22 | 12          | 50           | 1.97          | 0.0906              | 0.0879              | 0.1437                | 0.1492              | 90          | 53 | 40 | 32 | 27 | 20 | 90           | 60 | 45 | 36 | 30 | 23 |
| 20 | 12          | 33           | 2.39          | 0.1310              | 0.1329              | 0.1920                | 0.2079              | 90          | 53 | 40 | 32 | 27 | 20 | 90           | 60 | 45 | 36 | 30 | 23 |

1. Theoretical section properties have been calculated per AISI S100-2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. Panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase for wind.

## TLC-11 • TLC-12



## PANEL OVERVIEW

- Finish: Standard: PVDF  
Optional: multi-pass PVDF, Vintage and Weathering Steel
- Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®, G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga and 20 ga
- Installation: Vertical (Left to Right or Right to Left), Horizontal (Top to Bottom)
- 12" panel coverage, 1-1/2" panel height
- Flush face, concealed fastened, non-end lapping panel system
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- Use on single-skin or field-assembled wall systems

## TESTING AND APPROVALS

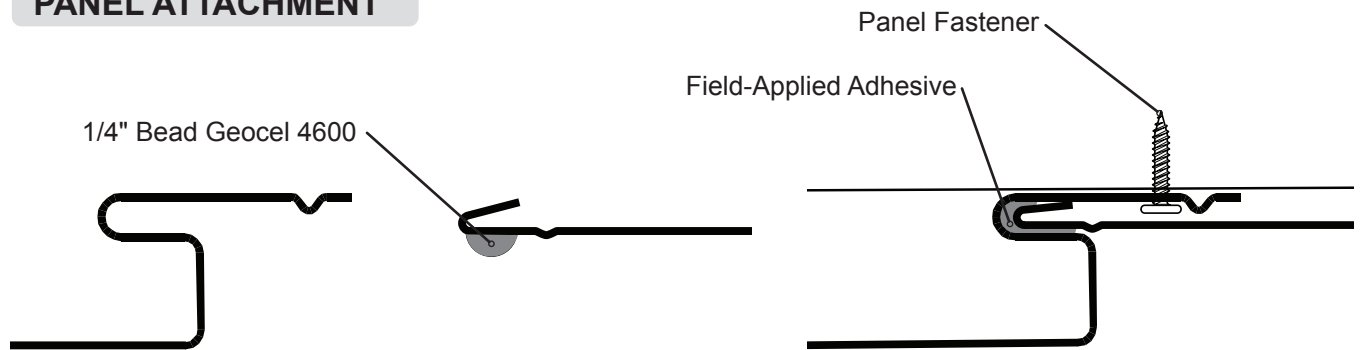
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Load Test

## FASTENING INFORMATION

- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
- Thick Panels (ex. 20 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.
- Panel Fasteners:
  - Attaching to Wood:
    - #10-12 Pancake Head Wood Screw
  - Attaching to Steel:
    - Less than 20 ga: 1/4"-13 Deck Screw
    - Greater than or equal to 20 ga, ≤12 ga: #10-16 Pancake Head Driller
- Trim Fasteners:
  - 1/4"-14 x 7/8" XL Stitch Screw
  - 1/8" x 3/16" Pop Rivet
- Field-Applied Adhesive:
  - 1/4" diameter bead of Geocel 4600

## TLC-11 • TLC-12

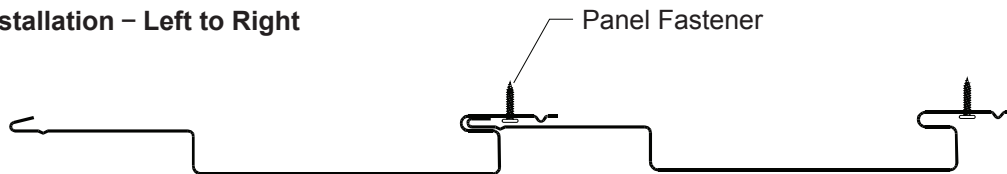
## PANEL ATTACHMENT



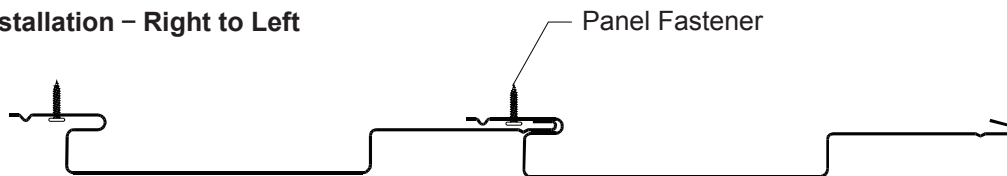
## DIRECTIONAL DETAILS

## Horizontal Installation – Top to Bottom

## Vertical Installation – Left to Right



## Vertical Installation – Right to Left



## SECTION PROPERTIES

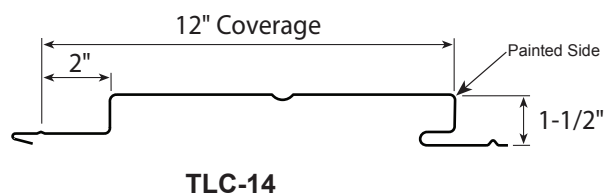
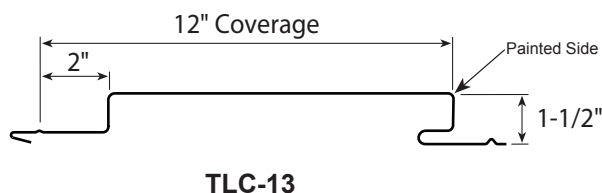
ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top In Compression  |                     | Bottom In Compression |                     | Inward Load |    |    |    |    |    | Outward Load |    |    |    |    |    |
|----|-------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|----|----|----|----|----|--------------|----|----|----|----|----|
|    |             |              |               | Ixx                 | Sxx                 | Ixx                   | Sxx                 | 2'          | 3' | 4' | 5' | 6' | 8' | 2'           | 3' | 4' | 5' | 6' | 8' |
|    |             |              |               | in <sup>4</sup> /ft | in <sup>3</sup> /ft | in <sup>4</sup> /ft   | in <sup>3</sup> /ft |             |    |    |    |    |    |              |    |    |    |    |    |
| 24 | 12          | 50           | 1.51          | 0.0621              | 0.0599              | 0.1164                | 0.1099              | 50          | 33 | 25 | 20 | 19 | 18 | 80           | 53 | 40 | 32 | 27 | 25 |
| 22 | 12          | 50           | 1.97          | 0.0900              | 0.0892              | 0.1610                | 0.1546              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |
| 20 | 12          | 33           | 2.39          | 0.1310              | 0.1358              | 0.2160                | 0.2155              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |

- Theoretical section properties have been calculated per AISI S100-2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. Panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.



## TLC-13 • TLC-14



## PANEL OVERVIEW

- Finish: Standard: PVDF  
Optional: multi-pass PVDF, Vintage and Weathering Steel
- Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®, G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga and 20 ga
- Installation: Vertical (Left to Right or Right to Left), Horizontal (Top to Bottom)
- 12" panel coverage, 1-1/2" panel height
- Flush face, concealed fastened, non-end lapping panel system
- Roll-Formed Panels
- Panel Length: 5' minimum, 40' maximum
- Optional material availability: Copper and Aluminum
- Panels can be installed horizontally or vertically and are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems

## TESTING AND APPROVALS

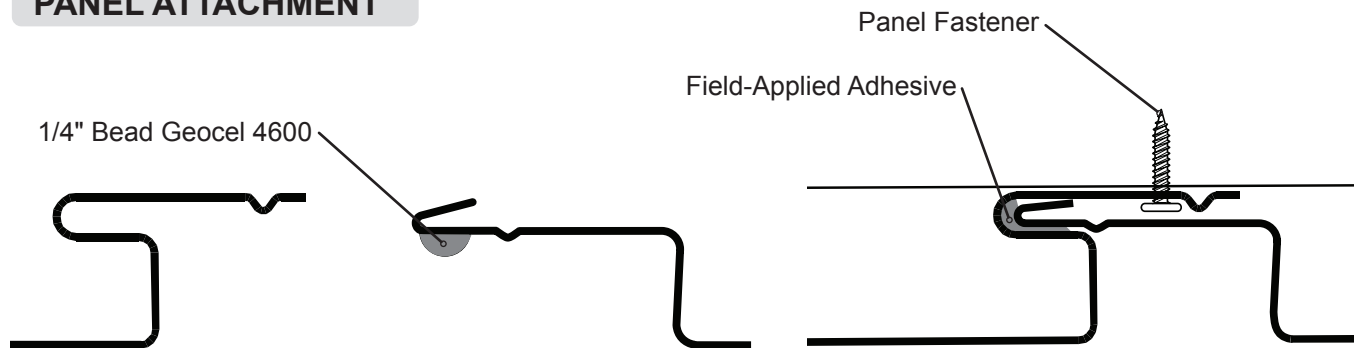
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Load Test

## FASTENING INFORMATION

- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
- Thick Panels (ex. 20 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.
- Panel Fasteners:
  - Attaching to Wood:
    - #10-12 Pancake Head Wood Screw
  - Attaching to Steel:
    - Less than 20 ga: 1/4"-13 Deck Screw
    - Greater than or equal to 20 ga, ≤12 ga: #10-16 Pancake Head Driller
- Trim Fasteners:
  - 1/4"-14 x 7/8" XL Stitch Screw
  - 1/8" x 3/16" Pop Rivet
- Field-Applied Adhesive:
  - 1/4" diameter bead of Geocel 4600

## TLC-13 • TLC-14

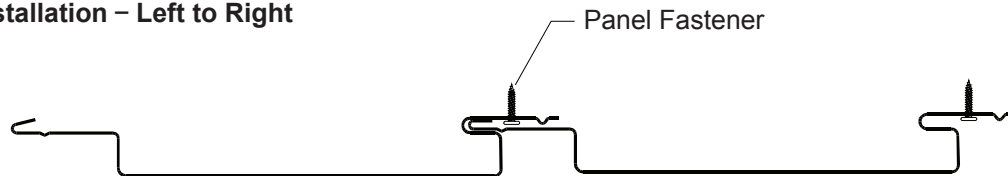
## PANEL ATTACHMENT



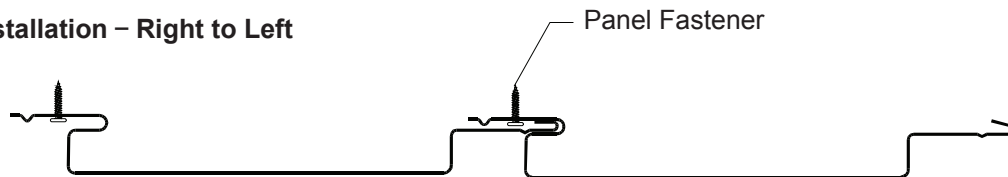
## DIRECTIONAL DETAILS

Horizontal Installation – Top to Bottom

Vertical Installation – Left to Right



Vertical Installation – Right to Left



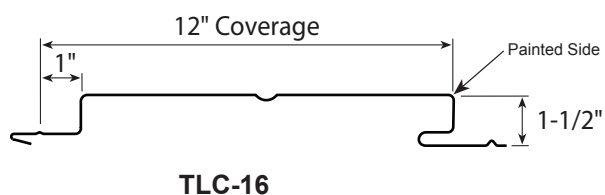
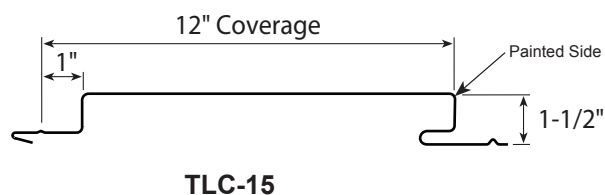
## SECTION PROPERTIES

ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top In Compression  |                     | Bottom In Compression |                     | Inward Load |    |    |    |    |    | Outward Load |    |    |    |    |    |
|----|-------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|----|----|----|----|----|--------------|----|----|----|----|----|
|    |             |              |               | Ixx                 | Sxx                 | Ixx                   | Sxx                 |             |    |    |    |    |    |              |    |    |    |    |    |
|    |             |              |               | in <sup>4</sup> /ft | in <sup>3</sup> /ft | in <sup>4</sup> /ft   | in <sup>3</sup> /ft | 2'          | 3' | 4' | 5' | 6' | 8' | 2'           | 3' | 4' | 5' | 6' | 8' |
| 24 | 12          | 50           | 1.51          | 0.0617              | 0.0606              | 0.1253                | 0.1119              | 50          | 33 | 25 | 20 | 19 | 18 | 80           | 53 | 40 | 32 | 27 | 25 |
| 22 | 12          | 50           | 1.97          | 0.0890              | 0.0904              | 0.1730                | 0.1569              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |
| 20 | 12          | 33           | 2.39          | 0.1290              | 0.1385              | 0.2330                | 0.2178              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |

- Theoretical section properties have been calculated per AISI S100-2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
- Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. Panel weight is not considered.
- Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
- Allowable loads do not include a 1/3 stress increase for wind.

## TLC-15 • TLC-16



## PANEL OVERVIEW

- Finish: Standard: PVDF  
Optional: multi-pass PVDF, Vintage and Weathering Steel
- Corrosion Protection: AZ50 per ASTM A 792 for painted Galvalume®, G90 per ASTM A 653 for Galvanized
- Gauges: 24 ga, 22 ga and 20 ga
- Installation: Vertical (Left to Right or Right to Left), Horizontal (Top to Bottom)
- 12" panel coverage, 1-1/2" panel height
- Flush face, concealed fastened, non-end lapping panel system
- Roll-Formed Panels
- Panel Length: 5' minimum, 40' maximum
- Optional material availability: Copper and Aluminum
- Panels can be installed horizontally or vertically and are interchangeable for accent effects
- Use on single-skin or field-assembled wall systems

## TESTING AND APPROVALS

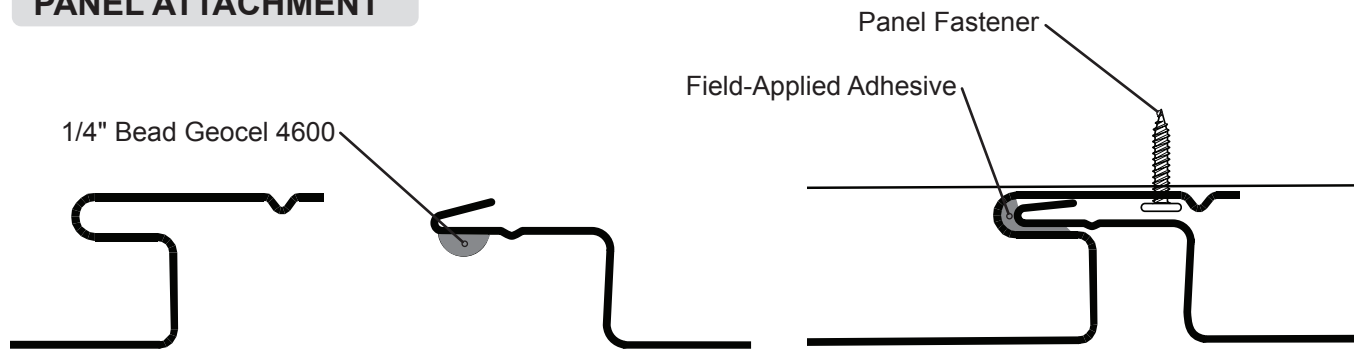
- ASTM E 283 Air Leakage
- ASTM E 331 Water Penetration
- ASTM E 330 Uniform Static Air Pressure Difference
- ASTM E 1592 Load Test

## FASTENING INFORMATION

- Overdriven fasteners will cause panel distortions.
- Fasteners should extend 1/2" or more past the inside face of the support material.
- Thick Panels (ex. 20 ga) or supports (ex. 1/2" steel) may require predrilling of holes for screws.
- Panel Fasteners:
  - Attaching to Wood:
    - #10-12 Pancake Head Wood Screw
  - Attaching to Steel:
    - Less than 20 ga: 1/4"-13 Deck Screw
    - Greater than or equal to 20 ga, ≤12 ga: #10-16 Pancake Head Driller
- Trim Fasteners:
  - 1/4"-14 x 7/8" XL Stitch Screw
  - 1/8" x 3/16" Pop Rivet
- Field-Applied Adhesive:
  - 1/4" diameter bead of Geocel 4600

## TLC-15 • TLC-16

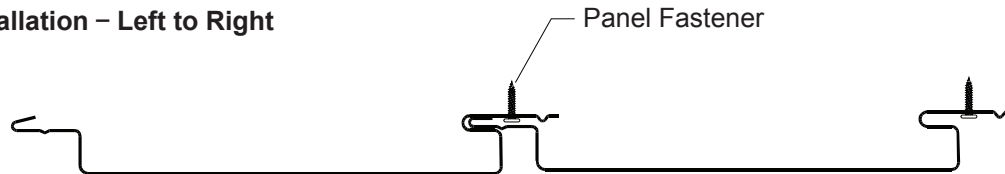
## PANEL ATTACHMENT



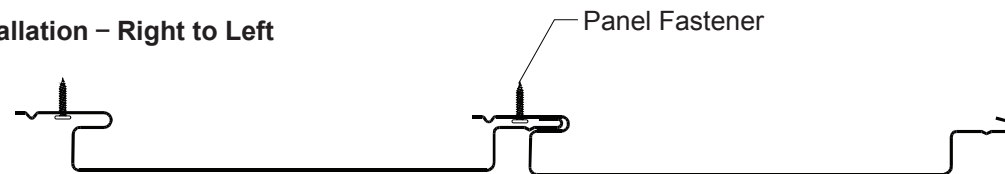
## DIRECTIONAL DETAILS

## Horizontal Installation – Top to Bottom

## Vertical Installation – Left to Right



## Vertical Installation – Right to Left



## SECTION PROPERTIES

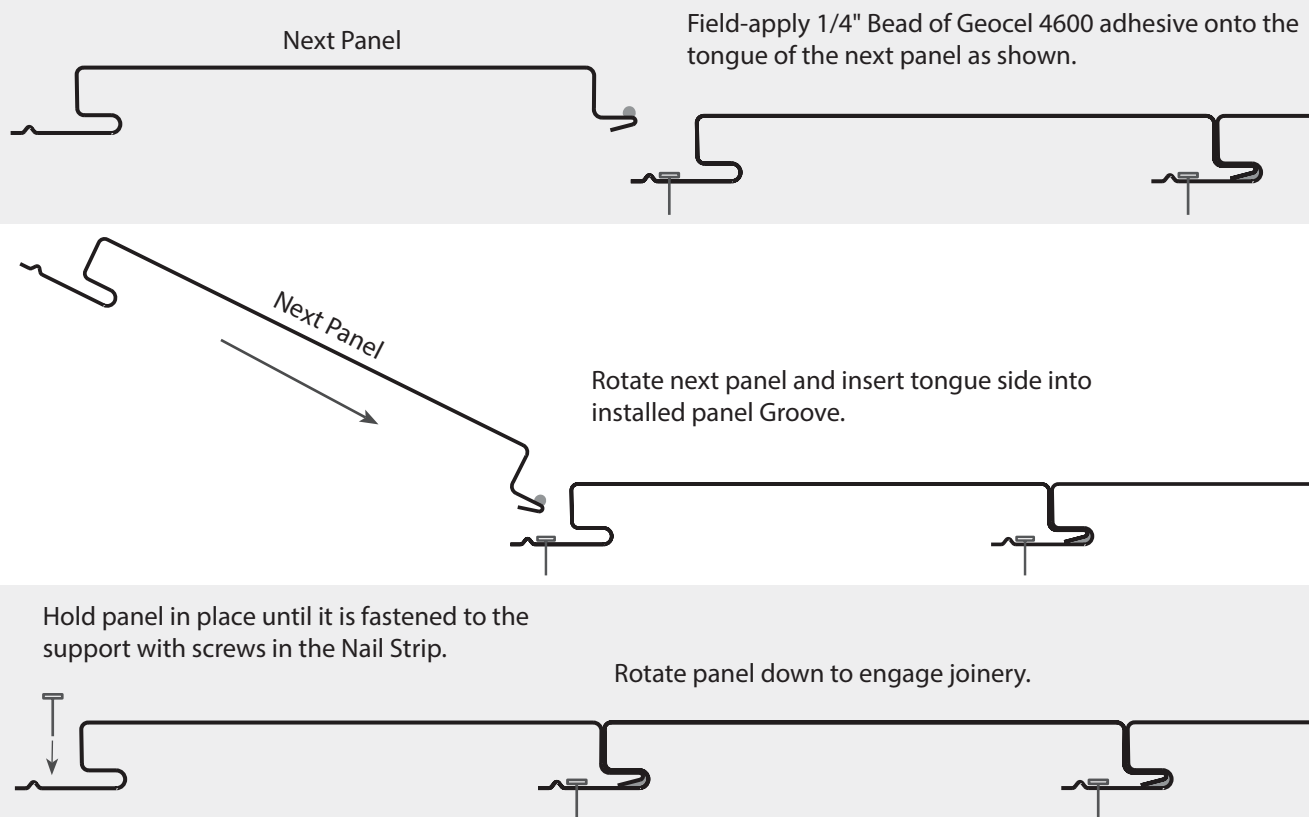
ALLOWABLE UNIFORM LOADS, psf  
For various fastener spacings

| Ga | Width<br>in | Yield<br>ksi | Weight<br>psf | Top In Compression  |                     | Bottom In Compression |                     | Inward Load |    |    |    |    |    | Outward Load |    |    |    |    |    |
|----|-------------|--------------|---------------|---------------------|---------------------|-----------------------|---------------------|-------------|----|----|----|----|----|--------------|----|----|----|----|----|
|    |             |              |               | Ixx                 | Sxx                 | Ixx                   | Sxx                 |             |    |    |    |    |    |              |    |    |    |    |    |
|    |             |              |               | in <sup>4</sup> /ft | in <sup>3</sup> /ft | in <sup>4</sup> /ft   | in <sup>3</sup> /ft | 2'          | 3' | 4' | 5' | 6' | 8' | 2'           | 3' | 4' | 5' | 6' | 8' |
| 24 | 12          | 50           | 1.51          | 0.0613              | 0.0610              | 0.1282                | 0.1116              | 50          | 33 | 25 | 20 | 19 | 18 | 80           | 53 | 40 | 32 | 27 | 25 |
| 22 | 12          | 50           | 1.97          | 0.0890              | 0.0912              | 0.1770                | 0.1558              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |
| 20 | 12          | 33           | 2.39          | 0.1280              | 0.1399              | 0.2380                | 0.2150              | 63          | 42 | 31 | 29 | 27 | 25 | 88           | 58 | 44 | 35 | 32 | 30 |

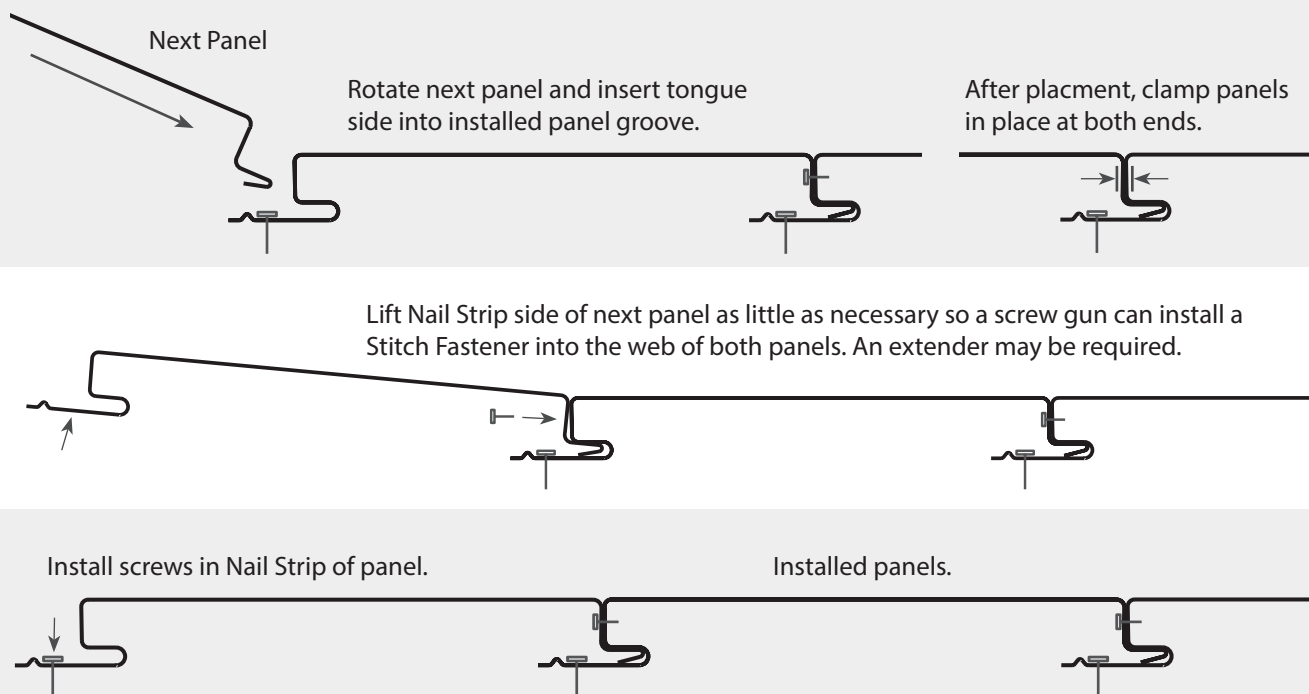
1. Theoretical section properties have been calculated per AISI S100-2016 'North American Specification for the Design of Cold-Formed Steel Structural Members'. Ixx and Sxx are effective section properties for deflection and bending.
2. Allowable load is calculated in accordance with AISI 2016 specifications considering bending, shear, combined bending & shear, deflection and ASTM E 330 testing on 16 ga girts. Allowable load considers the 3 or more equal spans condition. Allowable load does not address web crippling, fasteners, support material or load testing with other supports. Panel weight is not considered.
3. Deflection consideration is limited by a maximum deflection ratio of L/180 of span.
4. Allowable loads do not include a 1/3 stress increase for wind.

## TLC-1 • TLC-2 • TLC-3 • TLC-4

### STANDARD FLUSH FACE PANEL INSTALLATION • ADHESIVE

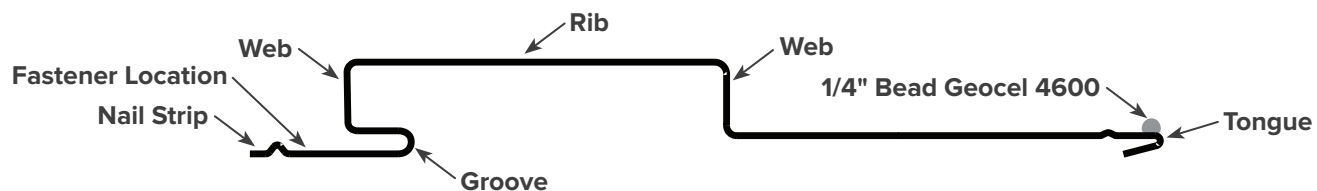


### OPTIONAL INSTALLATION • FASTENER-NO ADHESIVE

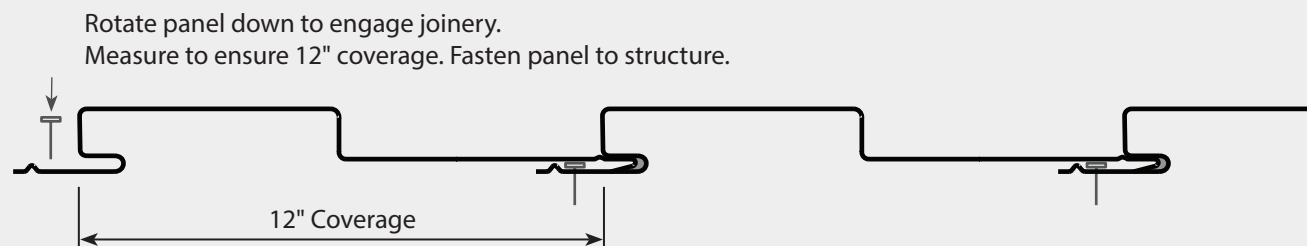
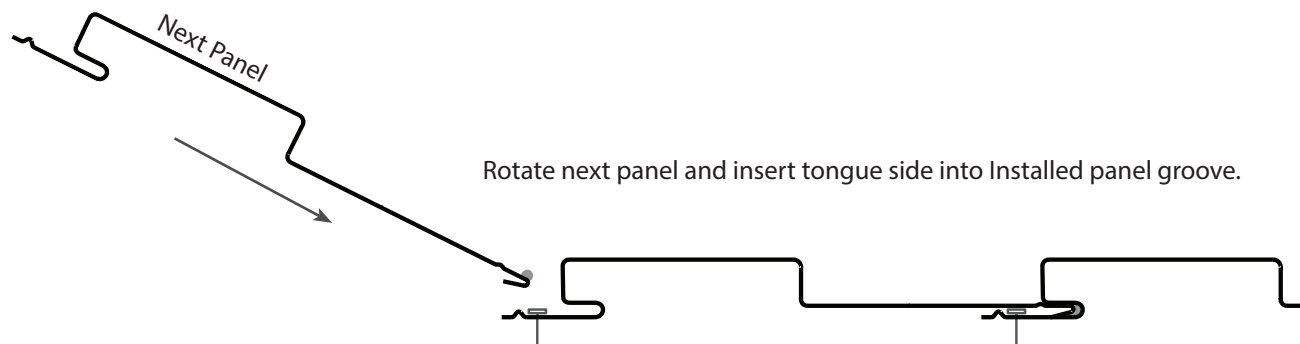
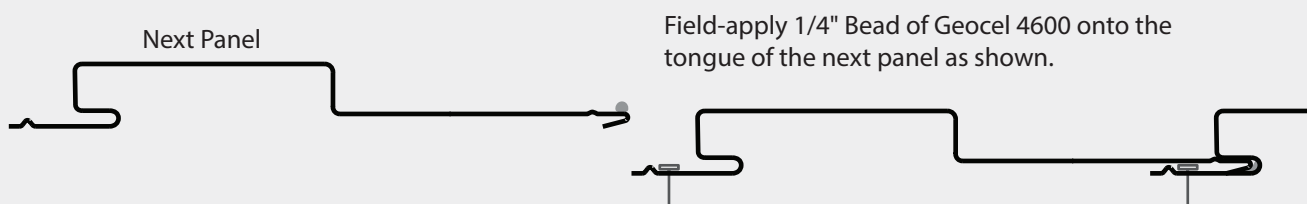


TLC-9 • TLC-10 • TLC-11 • TLC-12 • TLC-13 • TLC-14 • TLC-15 • TLC-16

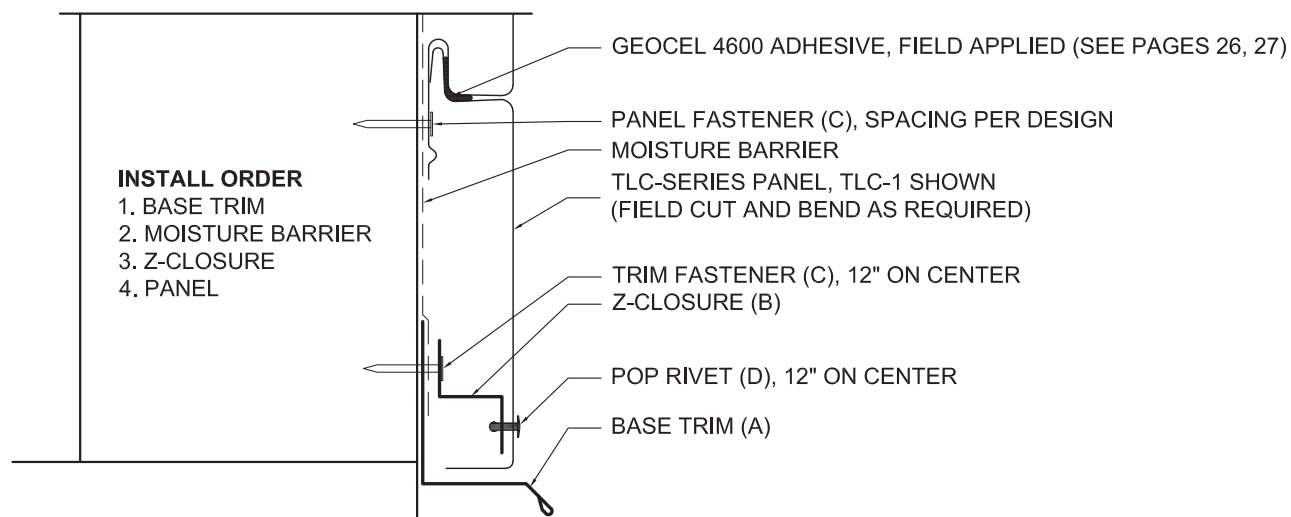
## PANEL DIAGRAM



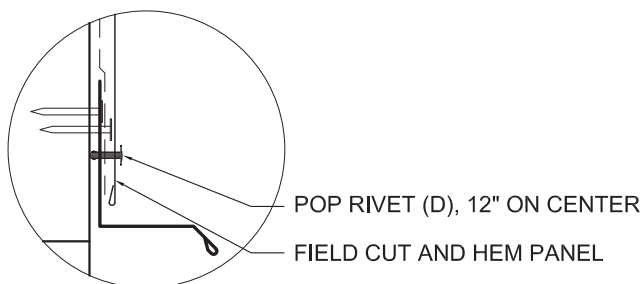
## STANDARD RIB PANEL INSTALLATION • ADHESIVE



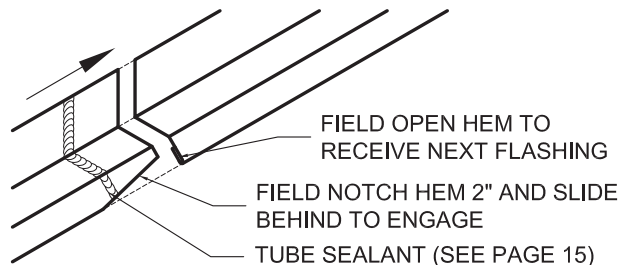
### ELEVATION VIEW



### AT LOW RIB



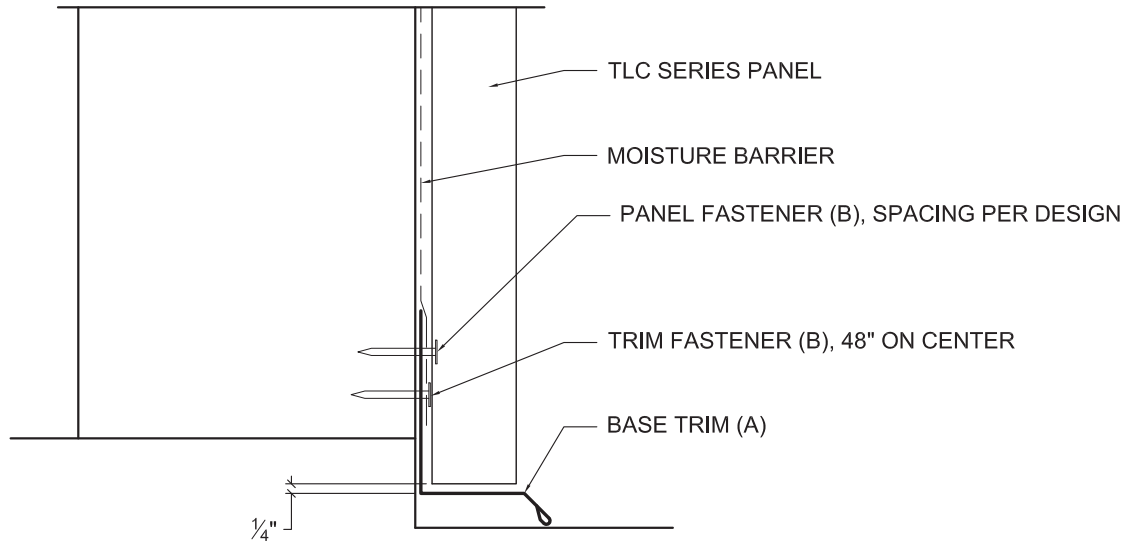
### TRIM LAP



|     | Part | Description   | Product #                      | Length | Installation Information   |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Base Trim, 24 Ga<br>Base Trim, 22 Ga<br>Base Trim, 0.032" | 58708XX<br>59708XX<br>58708XXA | 10'-2" | Install Moisture Barrier over top of Base Trim                                       |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032" | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Install over Base Trim with Tape Sealant on both legs. Pop Rivet Panel to Z-Closure. |
| (C) |      | #10-16 x 1"<br>Pancake Head Driller                       | 8242100                        | 1"     | For panel/trim attachment to metal framing   |
| (C) |      | #10-12 x 1" Pancake<br>Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                               |
| (D) |      | 1/8" x 3/8"<br>Pop Rivet                                  | 82402XX                        |        | For panel attachment to Z-Closure  |

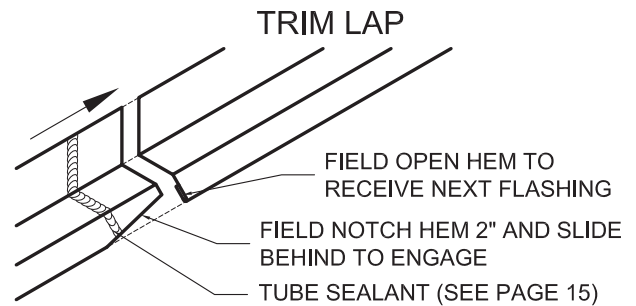


ELEVATION VIEW



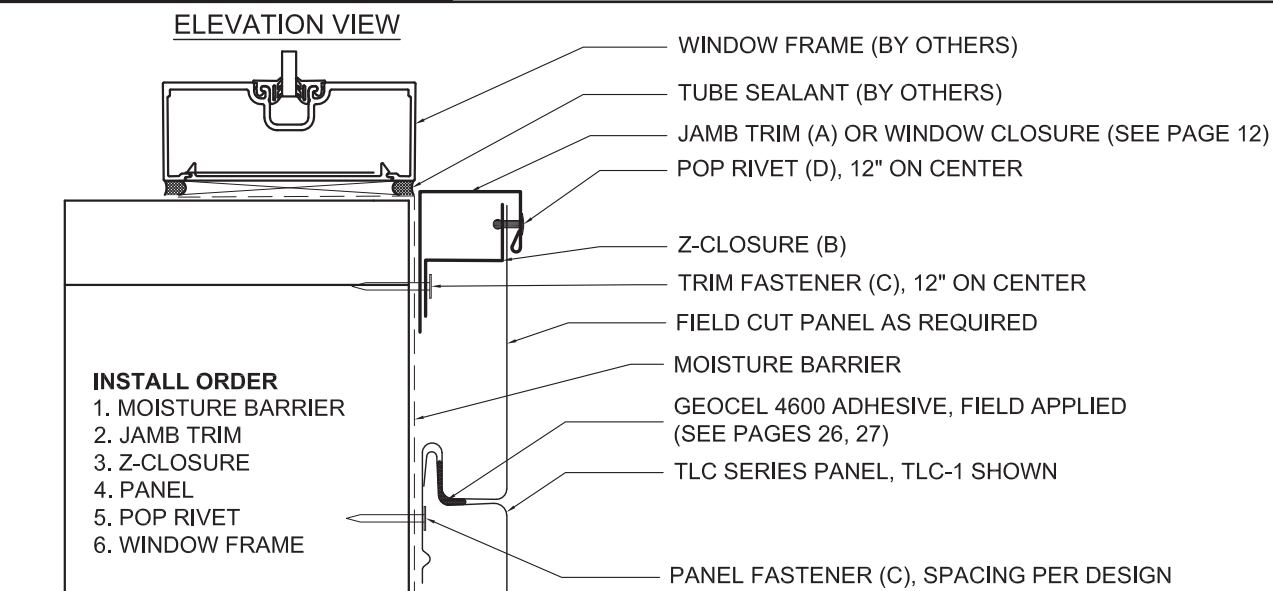
**INSTALL ORDER**

1. BASE TRIM
2. MOISTURE BARRIER
3. PANEL

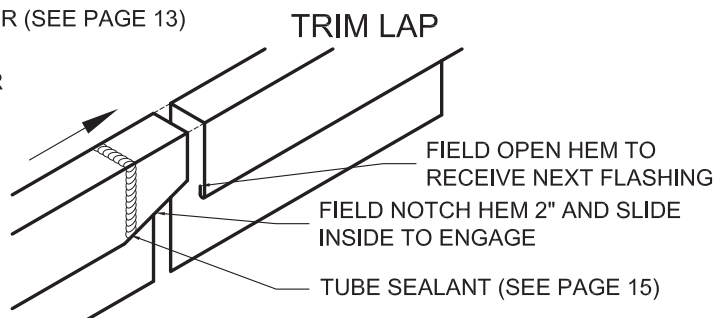
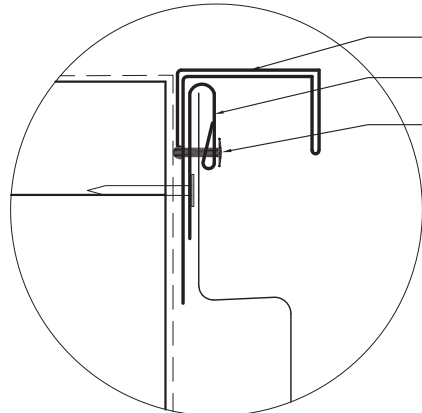


**NO FASTENERS THROUGH TRIM LAP**

|     | Part | Description   | Product #                      | Length | Installation Information                               |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Base Trim, 24 Ga<br>Base Trim, 22 Ga<br>Base Trim, 0.032" | 58708XX<br>59708XX<br>58708XXA | 10'-2" | Install Moisture Barrier over top of Base Trim         |
| (B) |      | #10-16 x 1"<br>Pancake Head Drillr                        | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (B) |      | #10-12 x 1" Pancake<br>Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |

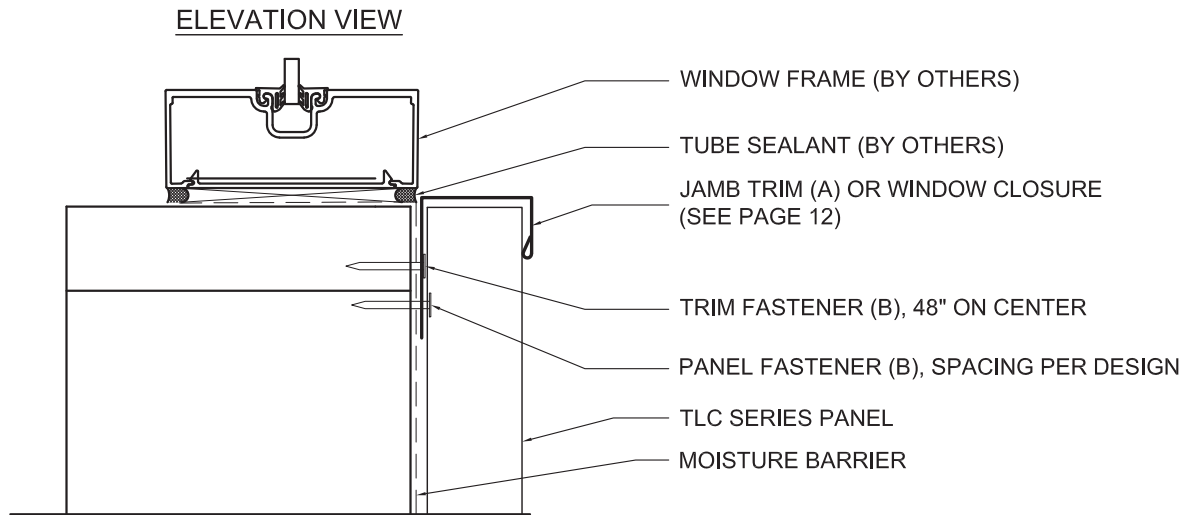


### AT LOW RIB



**NO FASTENERS THROUGH TRIM LAP**

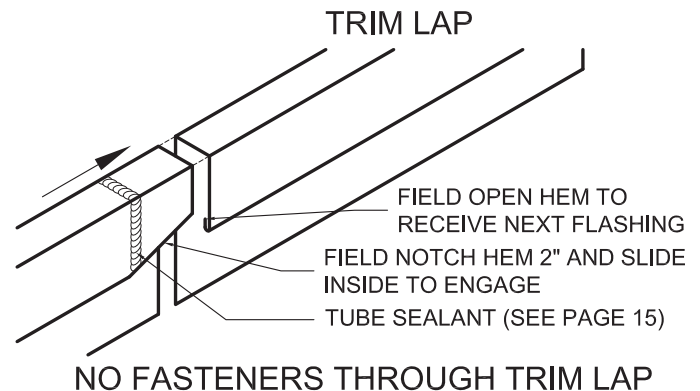
|     | Part | Description   | Product #                      | Length | Installation Information  |
|-----|------|---|--------------------------------|--------|---|
| (A) |      | Jamb Trim, 24 Ga<br>Jamb Trim, 22 Ga<br>Jamb Trim, 0.032" | 58671XX<br>60761XX<br>58671XXA | 10'-2" | Install Jamb Trim over Moisture Barrier.  |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032" | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate at Jamb Trim. Field cut panel and slide panel between Z-Closure and Jamb Trim. |
| (C) |      | #10-16 x 1"<br>Pancake Head Drill                         | 8242100                        | 1"     | For panel/trim attachment to metal framing  |
| (C) |      | #10-12 x 1"<br>Pancake Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                                |
| (D) |      | 1/8" x 3/8"<br>Pop Rivet                                  | 82402XX                        |        | Attach panel to Jamb Trim and Z-Closure   |



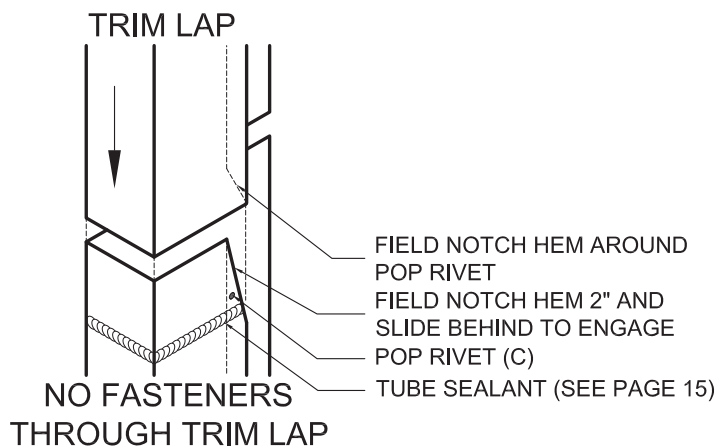
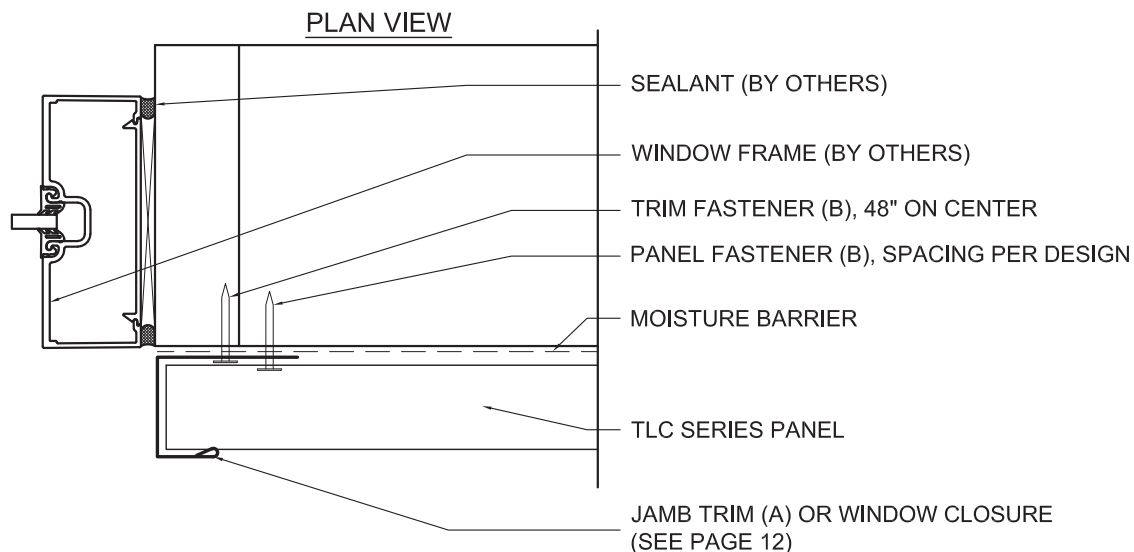
NOTE: USE JAMB TRIM WITH PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, USE WINDOW CLOSURE (SEE PAGE 12) TO KEEP THE BACKSIDE OF THE JAMB TRIM FROM BEING VISIBLE.

### INSTALL ORDER

1. MOISTURE BARRIER
2. JAMB TRIM
3. PANEL
4. WINDOW FRAME



|     | Part              | Description   | Product #                      | Length | Installation Information                                |
|-----|-------------------|---|--------------------------------|--------|---|
| (A) | <p>CLOSED HEM</p> | Jamb Trim, 24 Ga<br>Jamb Trim, 22 Ga<br>Jamb Trim, 0.032" | 58671XX<br>60761XX<br>58671XXA | 10'-2" | Install Jamb Trim over Moisture Barrier.                |
| (B) |                   | #10-16 x 1"<br>Pancake Head Driller                       | 8242100                        | 1"     | For panel/trim attachment to metal framing              |
| (B) |                   | #10-12 x 1" Pancake<br>Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing and framing |



### INSTALL ORDER

1. MOISTURE BARRIER
2. JAMB TRIM
3. PANEL
4. WINDOW FRAME

NOTE: USE JAMB TRIM WITH PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, USE WINDOW CLOSURE (SEE PAGE 12) TO KEEP THE BACKSIDE OF THE JAMB TRIM FROM BEING VISIBLE.

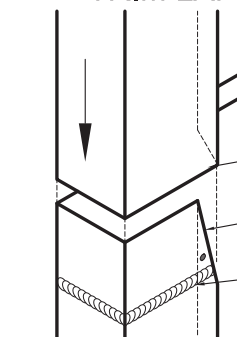
|     | Part | Description   | Product #                      | Length | Installation Information                               |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Jamb Trim, 24 Ga<br>Jamb Trim, 22 Ga<br>Jamb Trim, 0.032" | 58671XX<br>60761XX<br>58671XXA | 10'-2" | Install Jamb Trim over Moisture Barrier.               |
| (B) |      | #10-16 x 1"<br>Pancake Head Drill                         | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (B) |      | #10-12 x 1" Pancake<br>Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |

### INSTALL ORDER

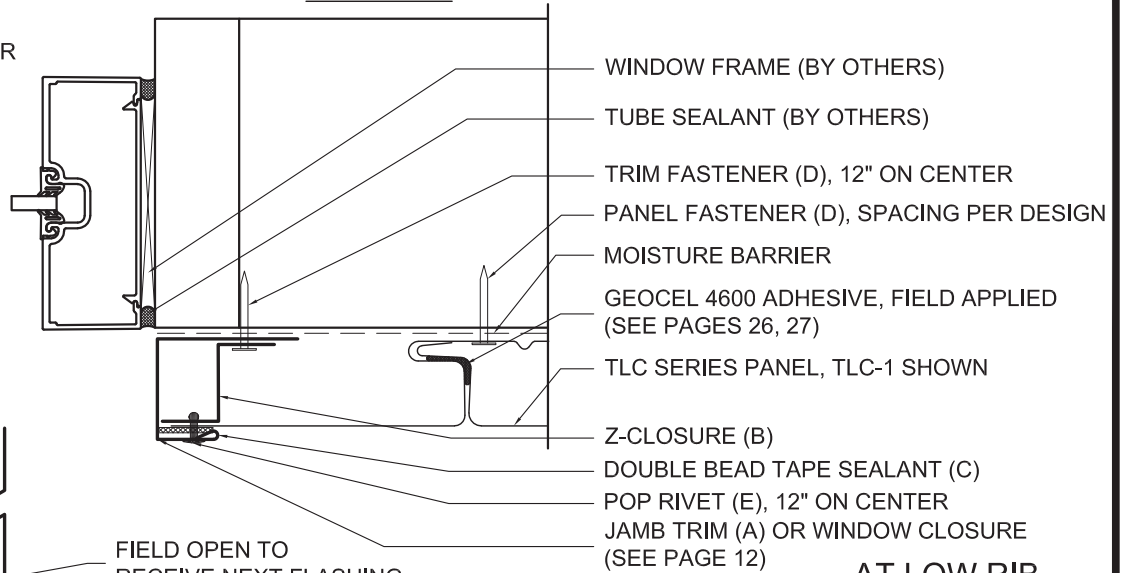
1. MOISTURE BARRIER
2. JAMB TRIM
3. Z-CLOSURE
4. PANEL
5. WINDOW FRAME

### PLAN VIEW

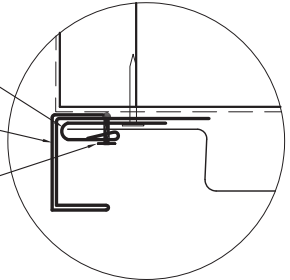
### TRIM LAP



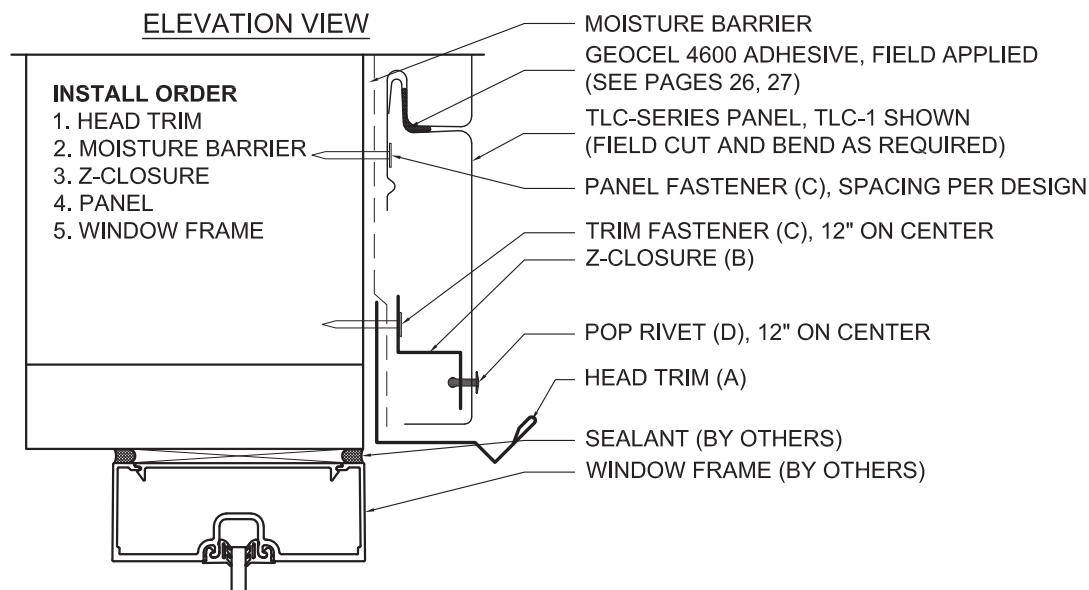
NO FASTENERS  
THROUGH TRIM LAP



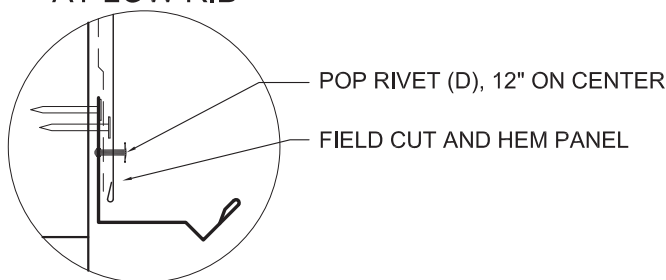
### AT LOW RIB



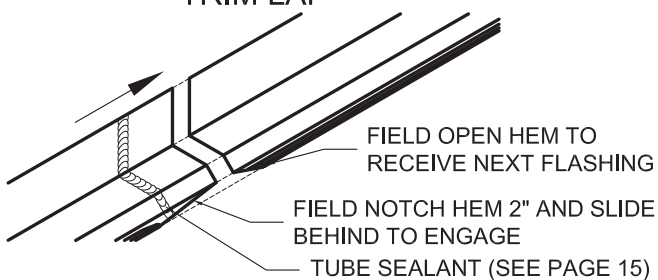
|     | Part | Description   | Product #                      | Length | Installation Information  |
|-----|------|---|--------------------------------|--------|---|
| (A) |      | Jamb Trim, 24 Ga<br>Jamb Trim, 22 Ga<br>Jamb Trim, 0.032: | 58671XX<br>60761XX<br>58671XXA | 10'-2" | Install Jamb Trim over Moisture Barrier, add sealant between Jamb Trim and panel. |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032" | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Install at Jamb Trim. Field cut and slide panel between Z-Closure and Jamb Trim.  |
| (C) |      | Double Bead Tape Sealant (7/8"x3/16"x25')                 | 6403899                        |        | Install between panel and flashings   |
| (D) |      | #10-16 x 1" Pancake Head Driller                          | 8242100                        | 1"     | For panel/trim attachment to metal framing  |
| (D) |      | #10-12 x 1" Pancake Head Wood Screw                       | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                            |
| (E) |      | 1/8" x 3/8" Pop Rivet                                     | 82402XX                        |        | For panel/trim attachment   |

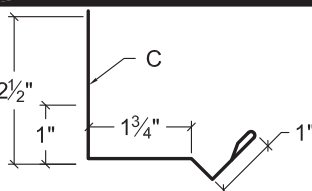
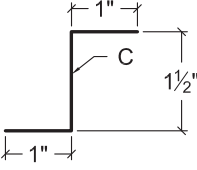
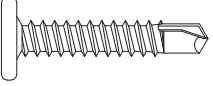
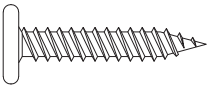
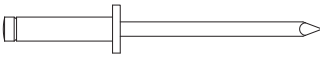


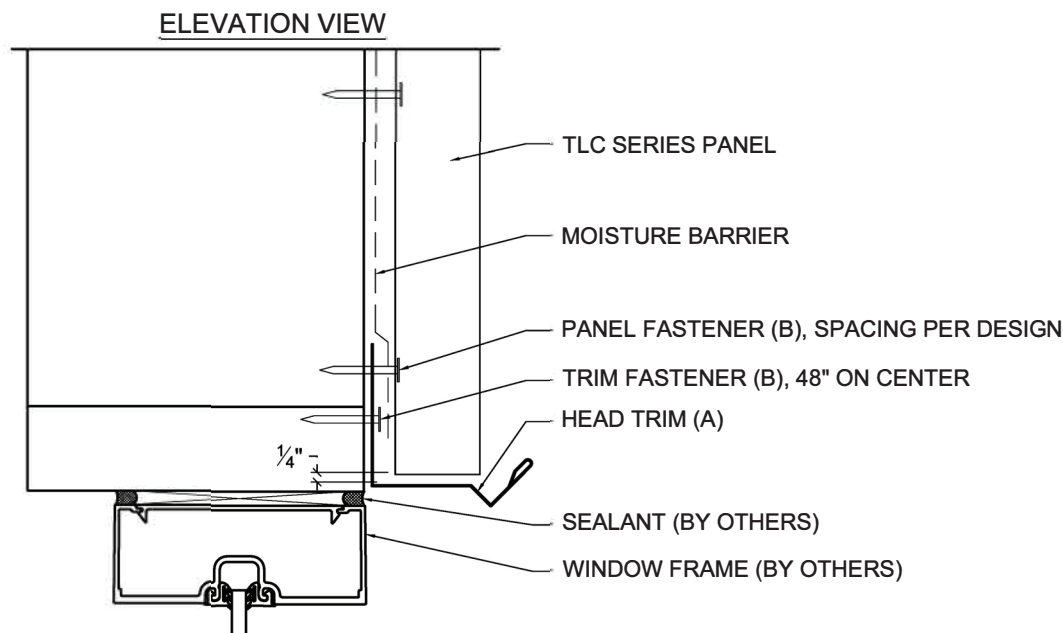
**AT LOW RIB**



**TRIM LAP**

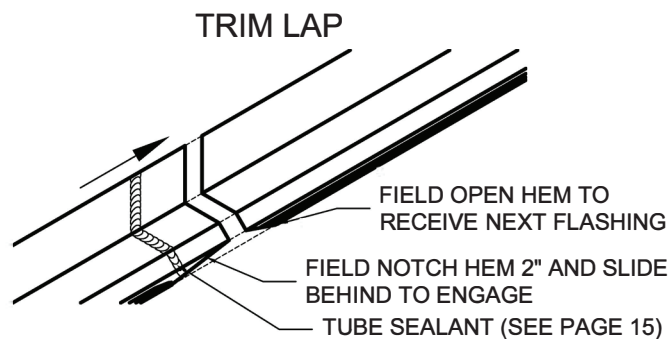


|     | Part  | Description   | Product #                      | Length | Installation Information                               |
|-----|---|---|--------------------------------|--------|--|
| (A) |  | Head Trim, 24 Ga<br>Head Trim, 22 Ga<br>Head Trim, 0.032" | 58621XX<br>60621XX<br>58621XXA | 10'-2" | Install Moisture Barrier over top of Head Trim         |
| (B) |  | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032" | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate Z-Closure to support edge of panel.             |
| (C) |  | #10-16 x 1"<br>PH Driller                                 | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (C) |  | #10-12 x 1"<br>PH Wood Screw                              | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |
| (D) |  | 1/8" x 3/8"<br>Pop Rivet                                  | 82402XX                        |        | For panel attachment to Z-Closure                      |



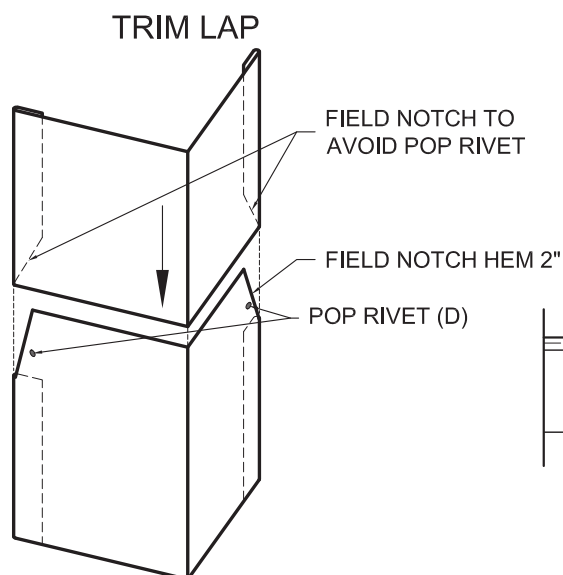
## INSTALL ORDER

1. HEAD TRIM
2. MOISTURE BARRIER
3. PANEL
4. WINDOW FRAME



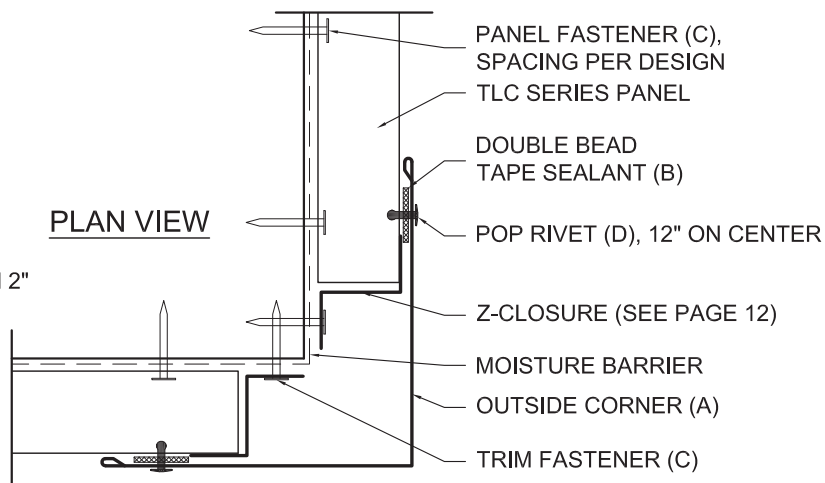
|     | Part | Description   | Product #                      | Length | Installation Information                               |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Head Trim, 24 Ga<br>Head Trim, 22 Ga<br>Head Trim, 0.032" | 58621XX<br>60621XX<br>58621XXA | 10'-2" | Install Moisture Barrier over top of Head Trim         |
| (B) |      | #10-16 x 1"<br>Pancake Head Driller                       | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (B) |      | #10-12 x 1" Pancake<br>Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |





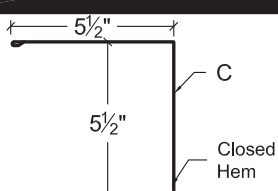

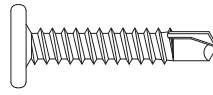
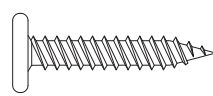
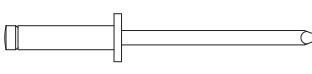
**NO FASTENERS  
THROUGH TRIM LAP**

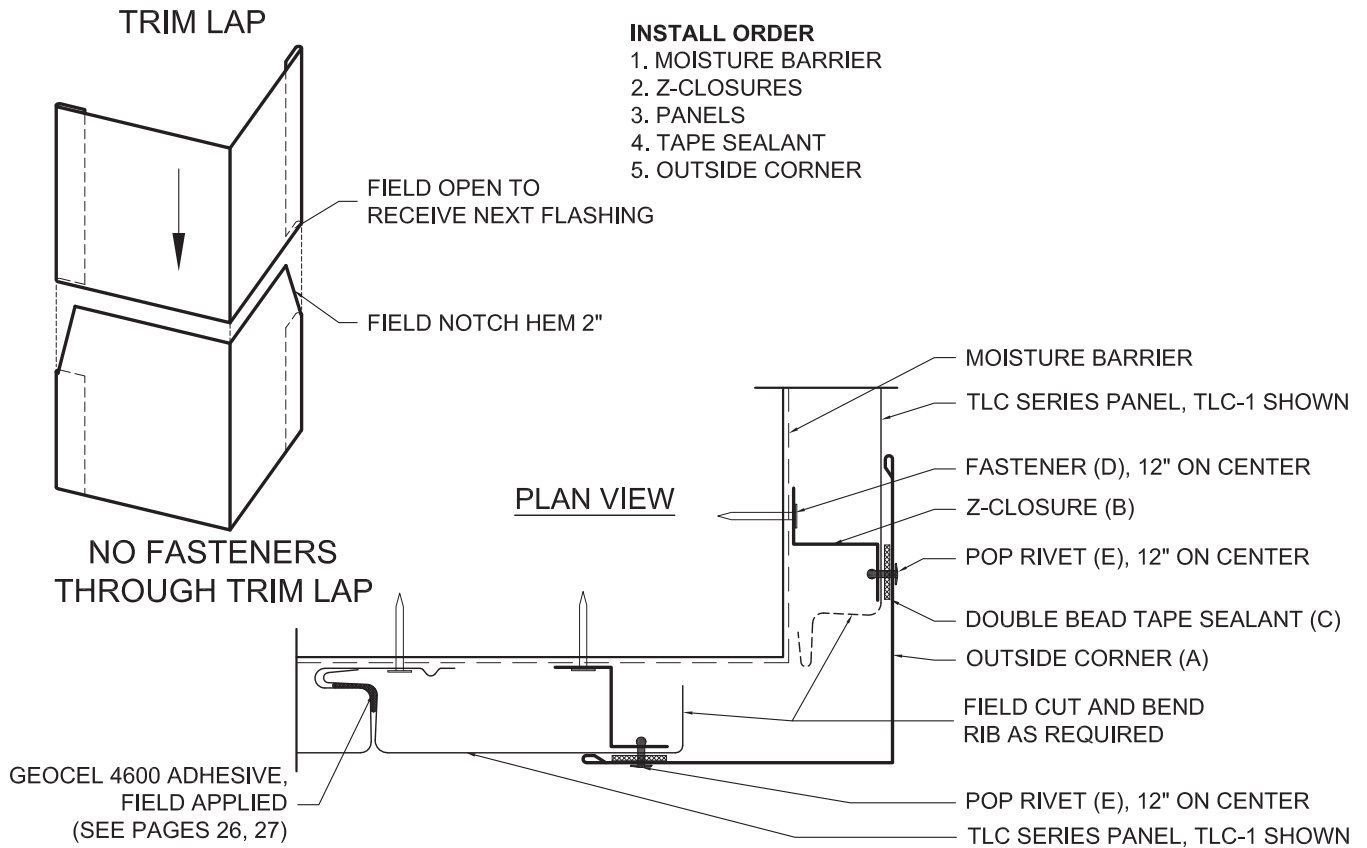
NOTE: Z-CLOSURE (SEE PAGE 12) AT PANEL ENDS SHOWN ABOVE ARE NOT NEEDED FOR PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, Z-CLOSURES CLOSE OFF THE PANEL LOWS.



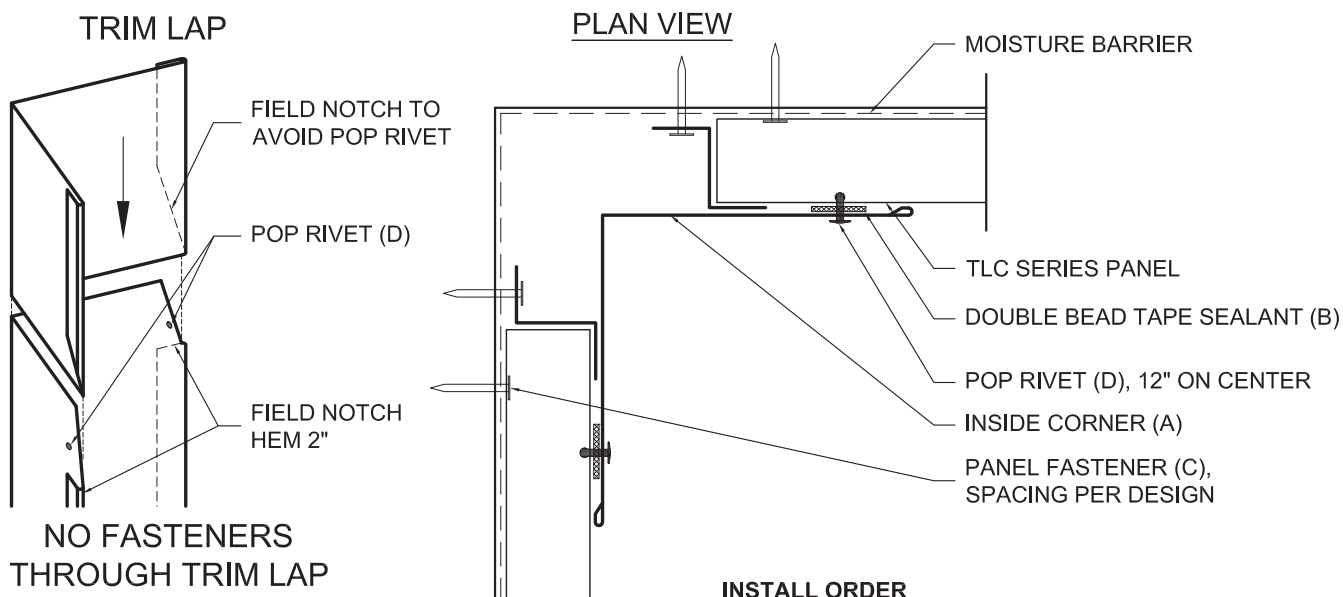
### INSTALL ORDER

1. MOISTURE BARRIER
2. PANELS
3. TAPE SEALANT
4. OUTSIDE CORNER
5. POP RIVETS

|     | Part  | Description  | Product #                      | Length | Installation Information                               |
|-----|---|--|--------------------------------|--------|--|
| (A) |  | Outside Corner, 24 Ga<br>Outside Corner, 22 Ga<br>Outside Corner, 0.032" | 58132XX<br>59132XX<br>58132XXA | 10'-2" | Locate Outside Corner into place. Pop Rivet to panels. |
| (B) |  | Double Bead Tape Sealant (7/8"x3/16"x25')                                | 6403899                        |        | Install between panel and Outside Corner               |
| (C) |  | #10-16 x 1"<br>Pancake Head Drill  | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (C) |  | #10-12 x 1"<br>Pancake Head Wood Screw                                   | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |
| (D) |  | 1/8" x 3/8"<br>Pop Rivet   | 82402XX                        |        | Attach Outside Corner to panels.                       |

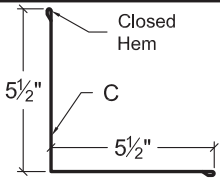

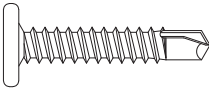
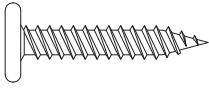
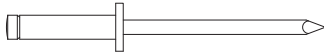


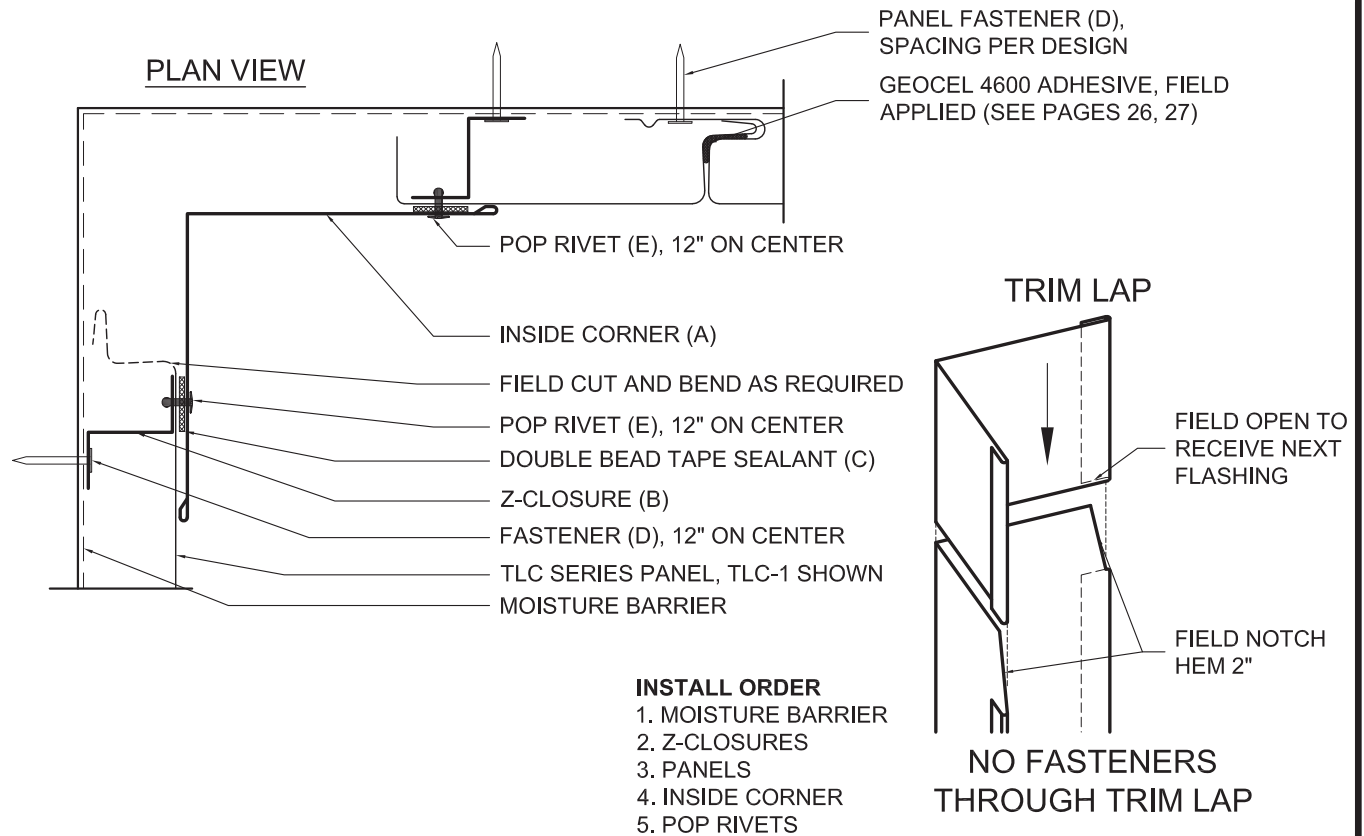
|     | Part | Description   | Product #                      | Length | Installation Information  |
|-----|------|---|--------------------------------|--------|---|
| (A) |      | Inside Corner, 24 Ga<br>Inside Corner, 22 Ga<br>Inside Corner, 0.032" | 58132XX<br>59132XX<br>58132XXA | 10'-2" | Locate Outside Corner into place. Pop Rivet to Z-Closures and panels. |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032"             | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate Z-Closures to support edge of panels.                          |
| (C) |      | Double Bead Tape Sealant (7/8"x3/16"x25')                             | 6403899                        |        | Install between panel and Outside Corner                              |
| (D) |      | #10-16 x 1"<br>Pancake Head Driller                                   | 8242100                        | 1"     | For panel/trim attachment to metal framing                            |
| (D) |      | #10-12 x 1" Pancake<br>Head Wood Screw                                | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                |
| (E) |      | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | Attach Outside Corner to Z-Closures and panels.                       |

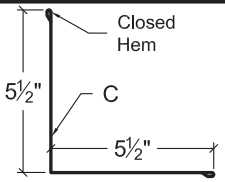
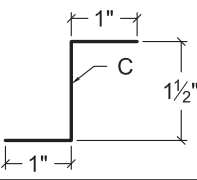
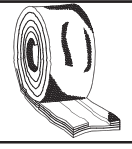
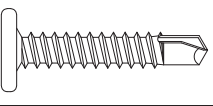
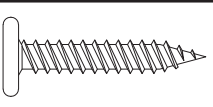
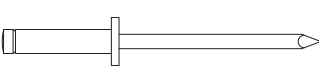


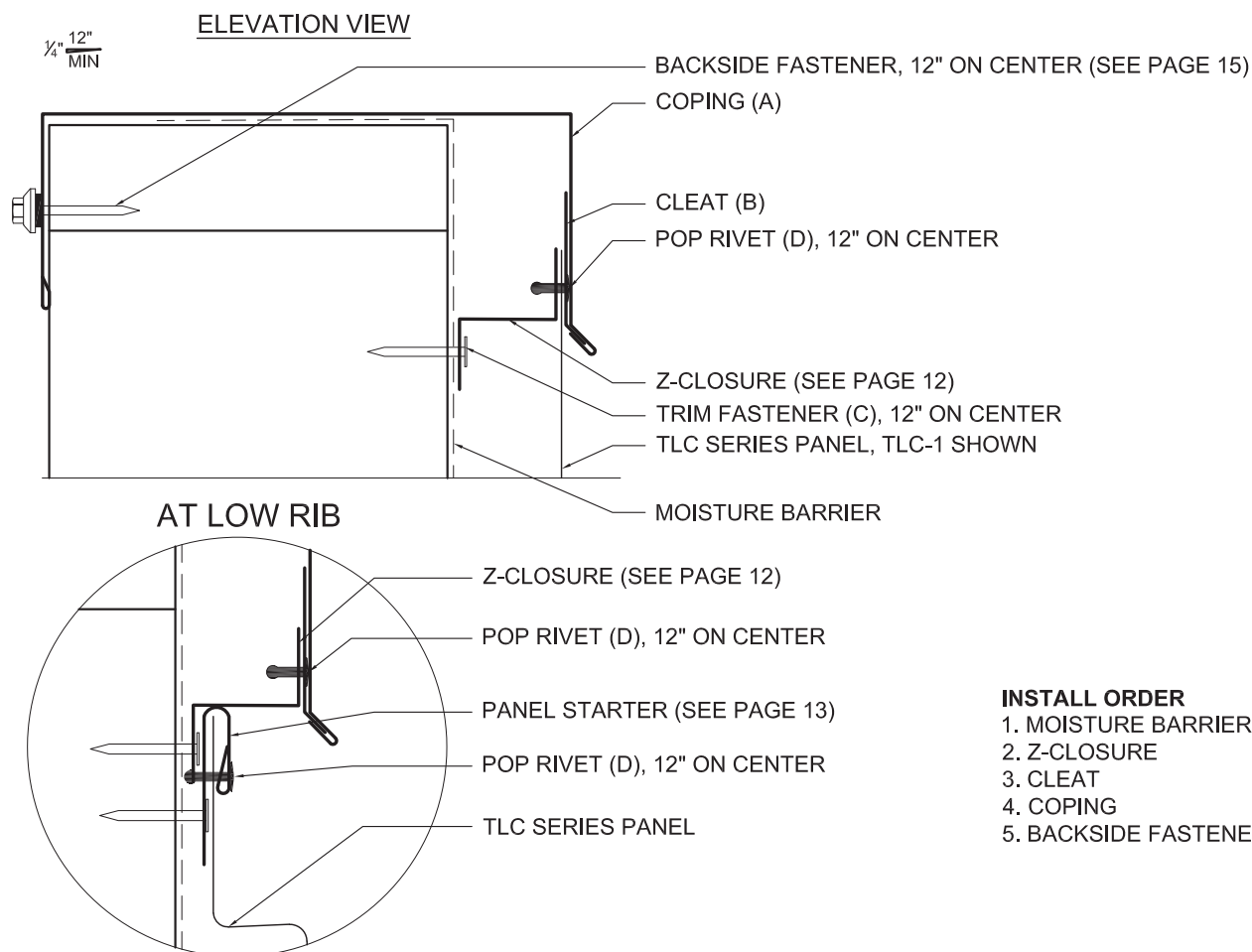
NOTE: Z-CLOSURE (SEE PAGE 12) AT PANEL ENDS SHOWN ABOVE ARE NOT NEEDED FOR PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, Z-CLOSURES CLOSE OFF THE PANEL LOWS.

- INSTALL ORDER**
1. MOISTURE BARRIER
  2. PANELS
  3. Z-CLOSURES
  4. TAPE SEALANT
  5. INSIDE CORNER
  6. POP RIVETS

|     | Part  | Description   | Product #                      | Length | Installation Information                               |
|-----|---|---|--------------------------------|--------|--|
| (A) |  | Inside Corner, 24 Ga<br>Inside Corner, 22 Ga<br>Inside Corner, 0.032" | 58126XX<br>59126XX<br>58126XXA | 10'-2" | Locate Inside Corner into place. Pop Rivet to panels.  |
| (B) |  | Double Bead Tape Sealant (7/8"x3/16"x25')                             | 6403899                        |        | Install between panel and Inside Corner                |
| (C) |  | #10-16 x 1"<br>Pancake Head Driller                                   | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (C) |  | #10-12 x 1" Pancake Head Wood Screw                                   | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |
| (D) |  | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | Attach Inside Corner to panels.                        |



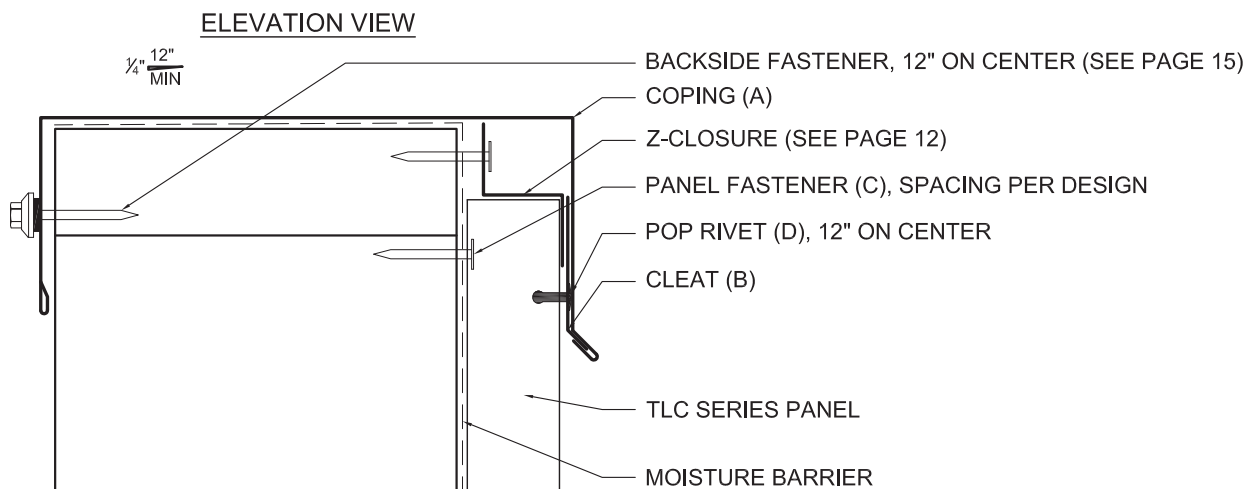
|     | Part  | Description   | Product #                      | Length | Installation Information   |
|-----|---|---|--------------------------------|--------|--|
| (A) |  | Inside Corner, 24 Ga<br>Inside Corner, 22 Ga<br>Inside Corner, 0.032" | 58126XX<br>59126XX<br>58126XXA | 10'-2" | Locate Inside Corner into place. Pop Rivet to Z-Closures and panels. |
| (B) |  | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032"             | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate Z-Closures to support edge of panels.                         |
| (C) |  | Double Bead Tape Sealant (7/8"x3/16"x25')                             | 6403899                        |        | Install between panel and Inside Corner                              |
| (D) |  | #10-16 x 1"<br>Pancake Head Driller                                   | 8242100                        | 1"     | For panel/trim attachment to metal framing                           |
| (D) |  | #10-12 x 1" Pancake<br>Head Wood Screw                                | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing               |
| (E) |  | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | Attach Inside Corner to Z-Closures and panels.                       |



### INSTALL ORDER

1. MOISTURE BARRIER
2. Z-CLOSURE
3. CLEAT
4. COPING
5. BACKSIDE FASTENER

| Part       | Description                                      | Product #                      | Length | Installation Information  |
|------------|--|--------------------------------|--------|---|
| <b>(A)</b> | Coping, 24 Ga<br>Coping, 22 Ga<br>Coping, 0.032" | 58026XX<br>60026XX<br>58026XXA | 10'-2" | Hook Coping onto Cleat and attach on the back side with fastener. |
| <b>(B)</b> | Cleat, 24 Ga<br>Cleat, 0.032"                    | 5806099<br>58060XXA            | 10'-2" | Locate and attach Cleat to panel and Z-Closure with Pop Rivet.    |
| <b>(C)</b> | #10-16 x 1"<br>Pancake Head Driller              | 8242100                        | 1"     | For panel/trim attachment to metal framing                        |
| <b>(C)</b> | #10-12 x 1" Pancake<br>Head Wood Screw           | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing            |
| <b>(D)</b> | 1/8" x 3/8" Pop Rivet                            | 82409XX                        | 7/8"   | For Cleat attachment to panel and Z-Closure                       |



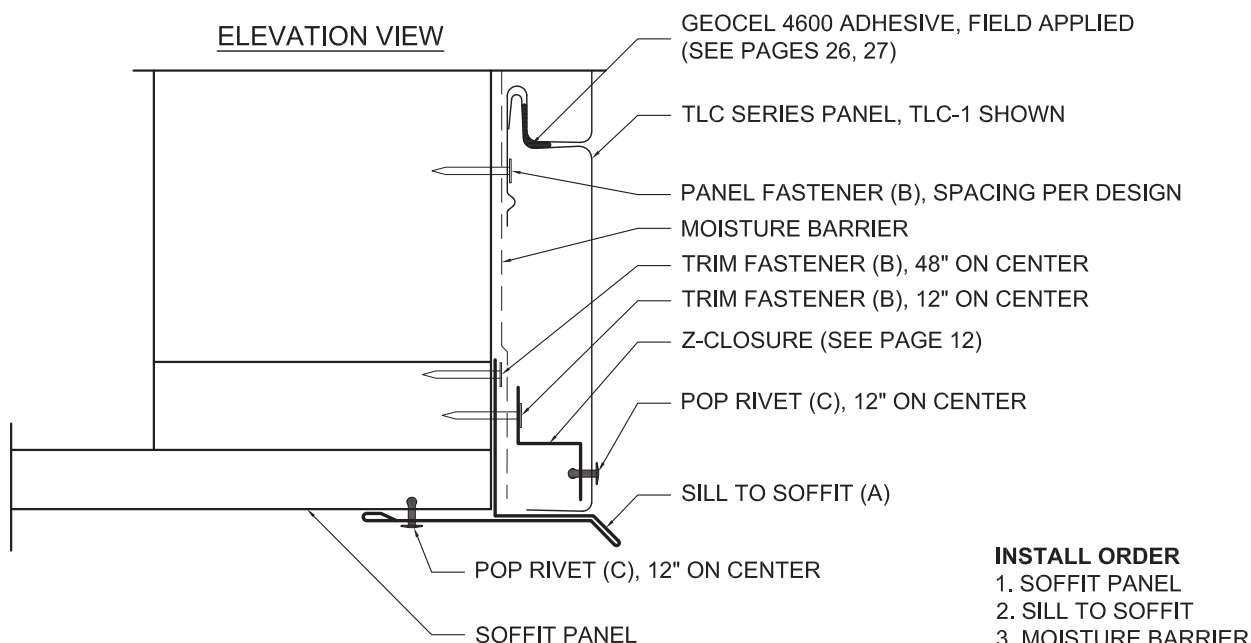
### CLEAT DETAIL

NOTE: Z-CLOSURE (SEE PAGE 12) AT THE TOP PANEL END IS NOT NEEDED FOR PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, Z-CLOSURE CLOSSES OFF THE PANEL LOWS.

### INSTALL ORDER

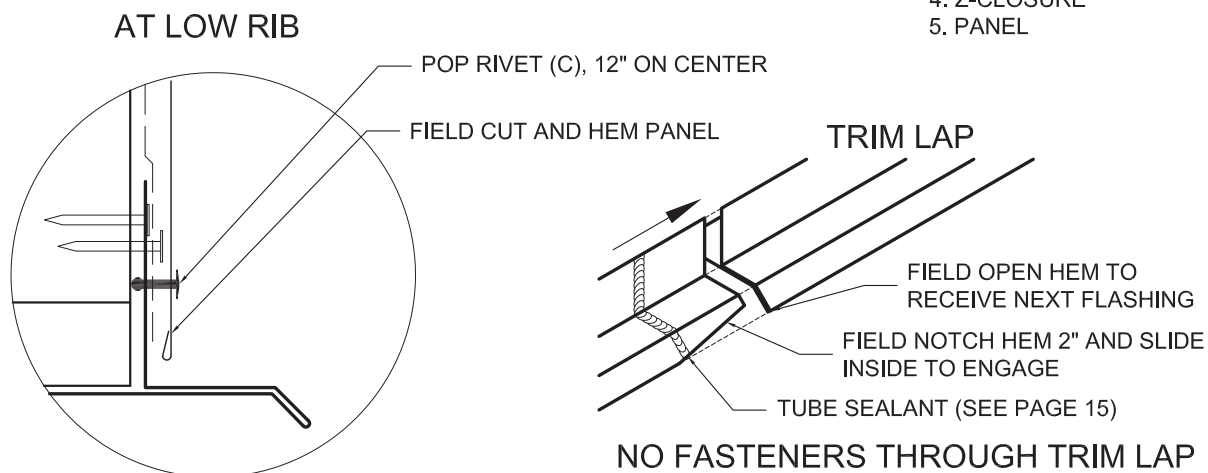
1. PANEL
2. CLEAT
3. COPING
4. BACKSIDE FASTENER

|     | Part | Description                                      | Product #                      | Length | Installation Information  |
|-----|------|--|--------------------------------|--------|---|
| (A) |      | Coping, 24 Ga<br>Coping, 22 Ga<br>Coping, 0.032" | 58026XX<br>60026XX<br>58026XXA | 10'-2" | Hook Coping onto Cleat and attach on the back side with fastener. |
| (B) |      | Cleat, 24 Ga<br>Cleat, 0.032"                    | 5806099<br>58060XXA            | 10'-2" | Locate and attach Cleat to panel with Pop Rivet.                  |
| (C) |      | #10-16 x 1" Pancake Head Driller                 | 8242100                        | 1"     | For panel/trim attachment to metal framing                        |
| (C) |      | #10-12 x 1" Pancake Head Wood Screw              | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing            |
| (D) |      | 1/8" x 3/8" Pop Rivet                            | 82409XX                        |        | For Cleat attachment to panel                                     |

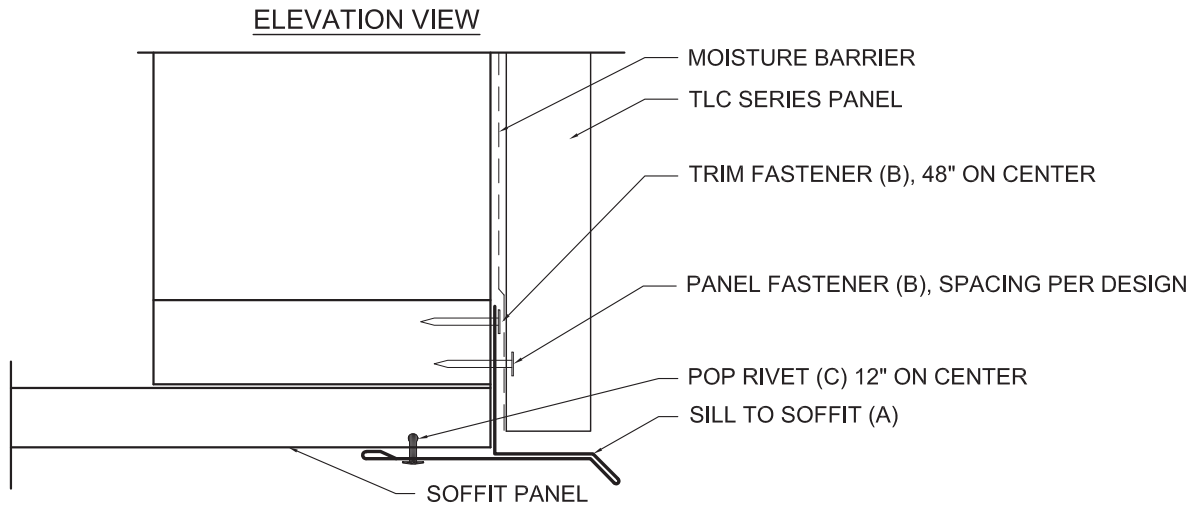


**INSTALL ORDER**

1. SOFFIT PANEL
2. SILL TO SOFFIT
3. MOISTURE BARRIER
4. Z-CLOSURE
5. PANEL

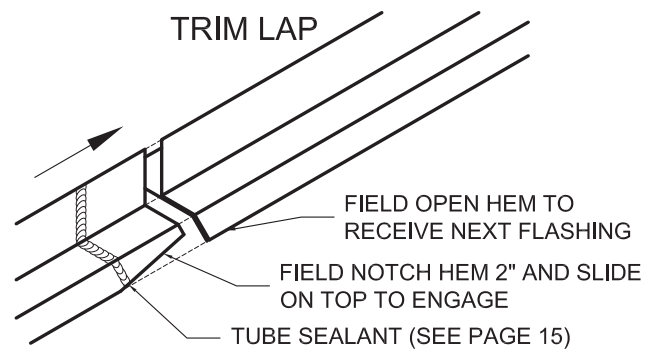


|     | Part | Description  | Product #                      | Length | Installation Information   |
|-----|------|--|--------------------------------|--------|--|
| (A) |      | Sill To Soffit, 24 Ga<br>Sill To Soffit, 22 Ga<br>Sill To Soffit, 0.032" | 58118XX<br>60118XX<br>58118XXA | 10'-0" | Attach Sill To Soffit to the wall support with Trim Fastener and attach to soffit panel with Pop Rivet then install panel. |
| (B) |      | #10-16 x 1"<br>Pancake Head Driller                                      | 8242100                        | 1"     | For panel/trim attachment to metal framing   |
| (B) |      | #10-12 x 1" Pancake<br>Head Wood Screw                                   | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing   |
| (C) |      | 1/8" x 3/8"<br>Pop Rivet   | 82402XX                        |        | For attachment of trim and panel   |



### INSTALL ORDER

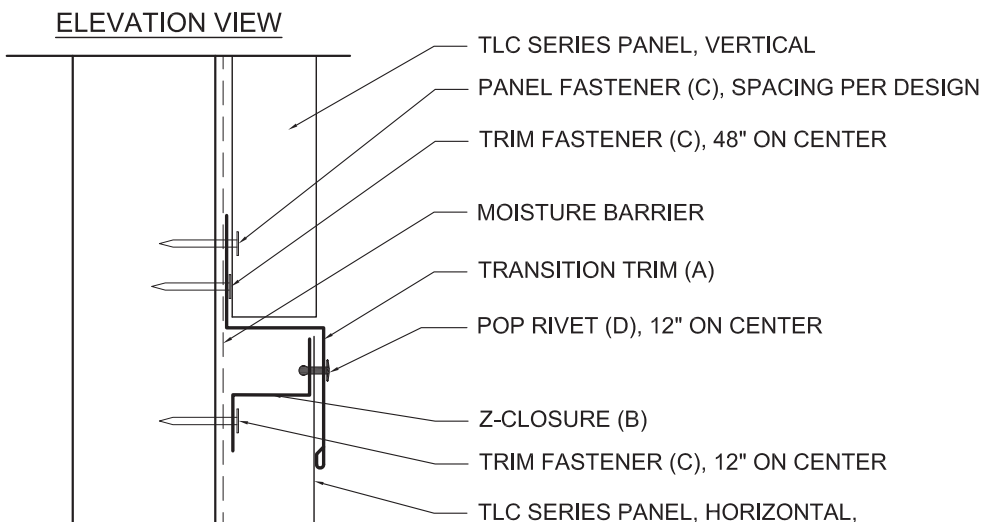
1. SOFFIT PANEL
2. SILL TO SOFFIT
3. PANEL



**NO FASTENERS THROUGH TRIM LAP**

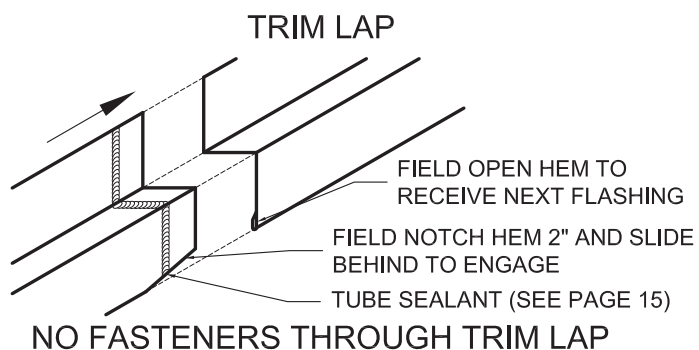
|     | Part | Description  | Product #                      | Length | Installation Information   |
|-----|------|--|--------------------------------|--------|--|
| (A) |      | Sill To Soffit, 24 Ga<br>Sill To Soffit, 22 Ga<br>Sill To Soffit, 0.032" | 58118XX<br>60118XX<br>58118XXA | 10'-0" | Attach Sill To Soffit to the wall support with Trim Fastener and attach to soffit panel with Pop Rivet then install panel. |
| (B) |      | #10-16 x 1"<br>Pancake Head Drill  | 8242100                        | 1"     | For panel/ trim attachment to metal framing  |
| (B) |      | #10-12 x 1" Pancake<br>Head Wood Screw                                   | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing   |
| (C) |      | 1/8" x 3/8"<br>Pop Rivet   | 82402XX                        |        | For trim attachment to panel   |





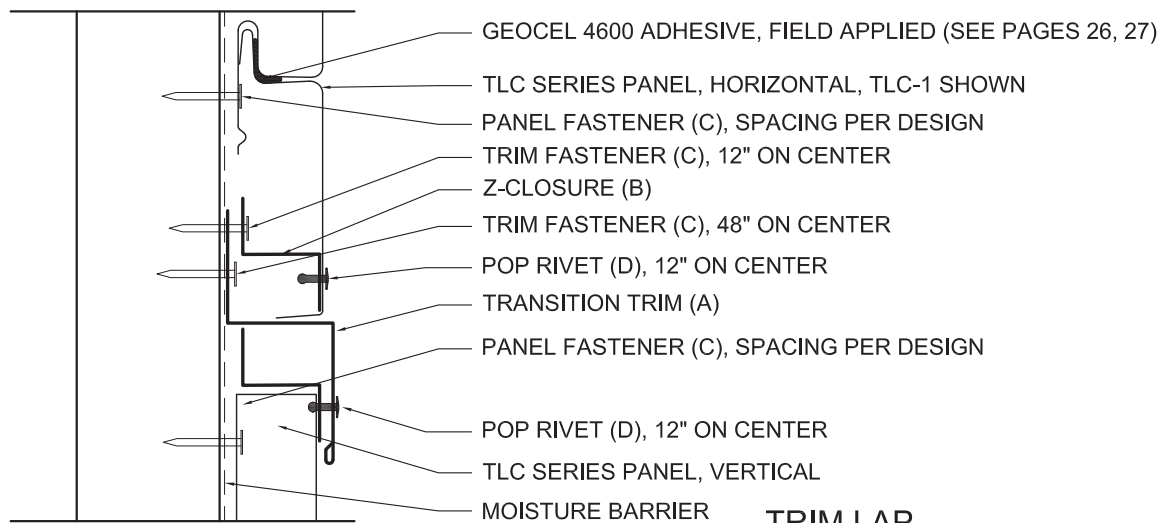
## INSTALL ORDER

1. Z-CLOSURE
2. HORIZONTAL PANEL
3. TRANSITION TRIM
4. POP RIVET
5. VERTICAL PANEL



|     | Part | Description   | Product #                      | Length | Installation Information   |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Transition Trim, 24 Ga<br>Transition Trim, 22 Ga<br>Transition Trim, 0.032" | 58738XX<br>60738XX<br>58738XXA | 10'-2" | Install Transition Trim over horizontal panel and attach with Pop Rivet. |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032"                   | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate for support of panel edge.  |
| (C) |      | #10-16 x 1"<br>Pancake Head Drill Bit                                       | 8242100                        | 1"     | For panel/trim attachment to metal framing                               |
| (C) |      | #10-12 x 1" Pancake<br>Head Wood Screw                                      | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                   |
| (D) |      | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | For panel/trim attachment to Z-Closure.                                  |

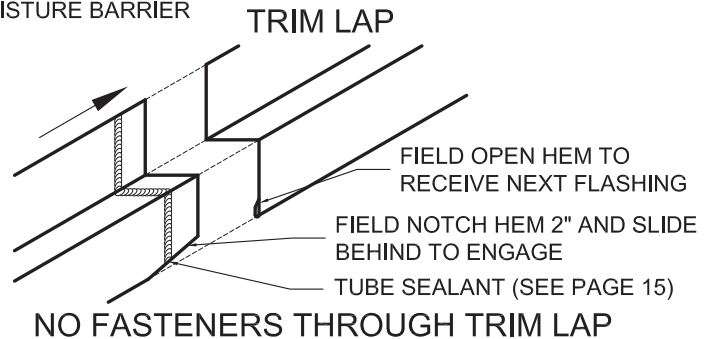
## ELEVATION VIEW



### INSTALL ORDER

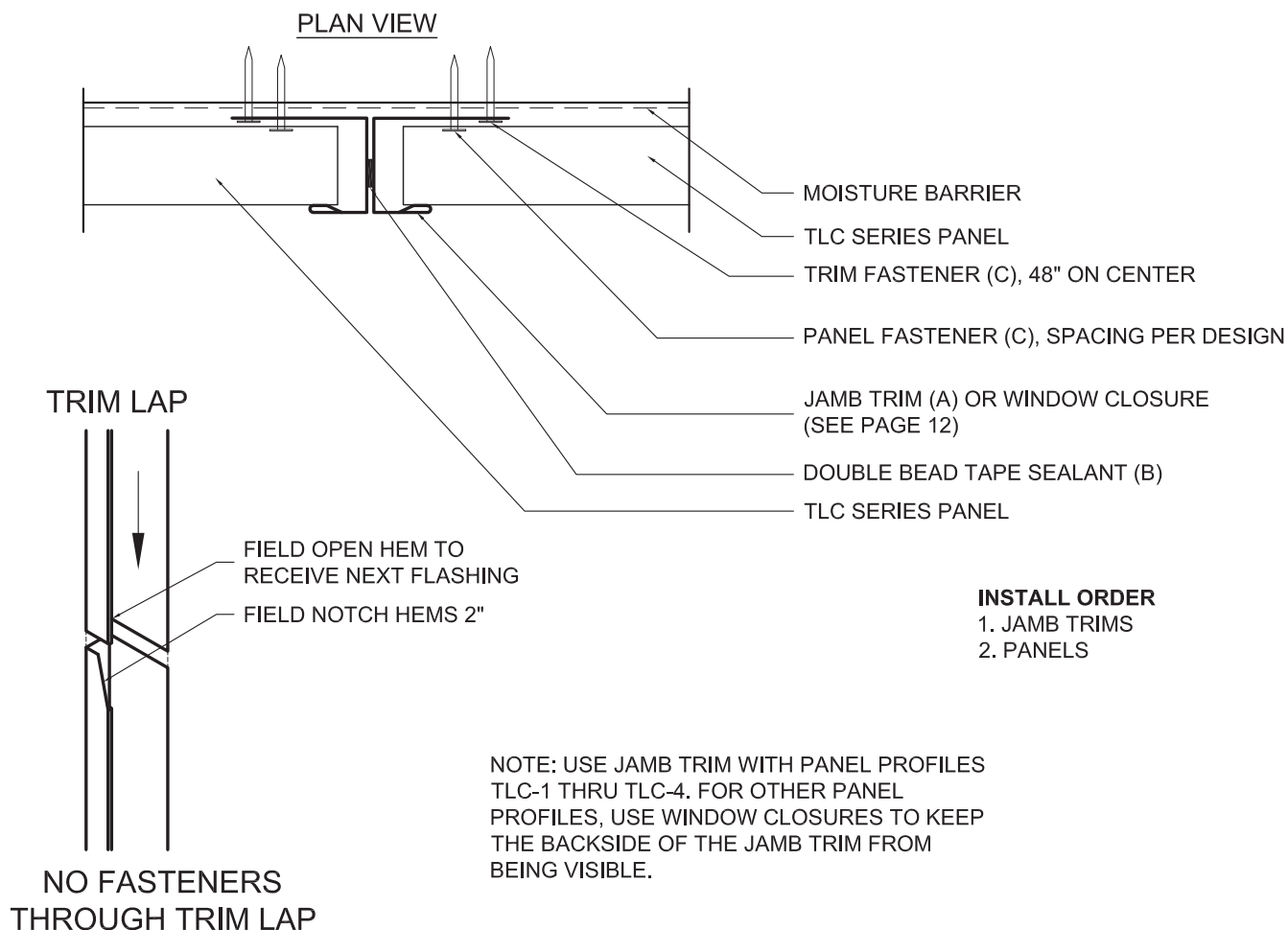
1. VERTICAL PANEL
2. TRANSITION TRIM
3. Z-CLOSURE
4. HORIZONTAL PANEL

NOTE: Z-CLOSURE BELOW TRANSITION TRIM IS NOT NEEDED FOR PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, THE Z-CLOSURE CAN KEEP THE BACKSIDE OF THE TRANSITION TRIM FROM BEING VISIBLE.

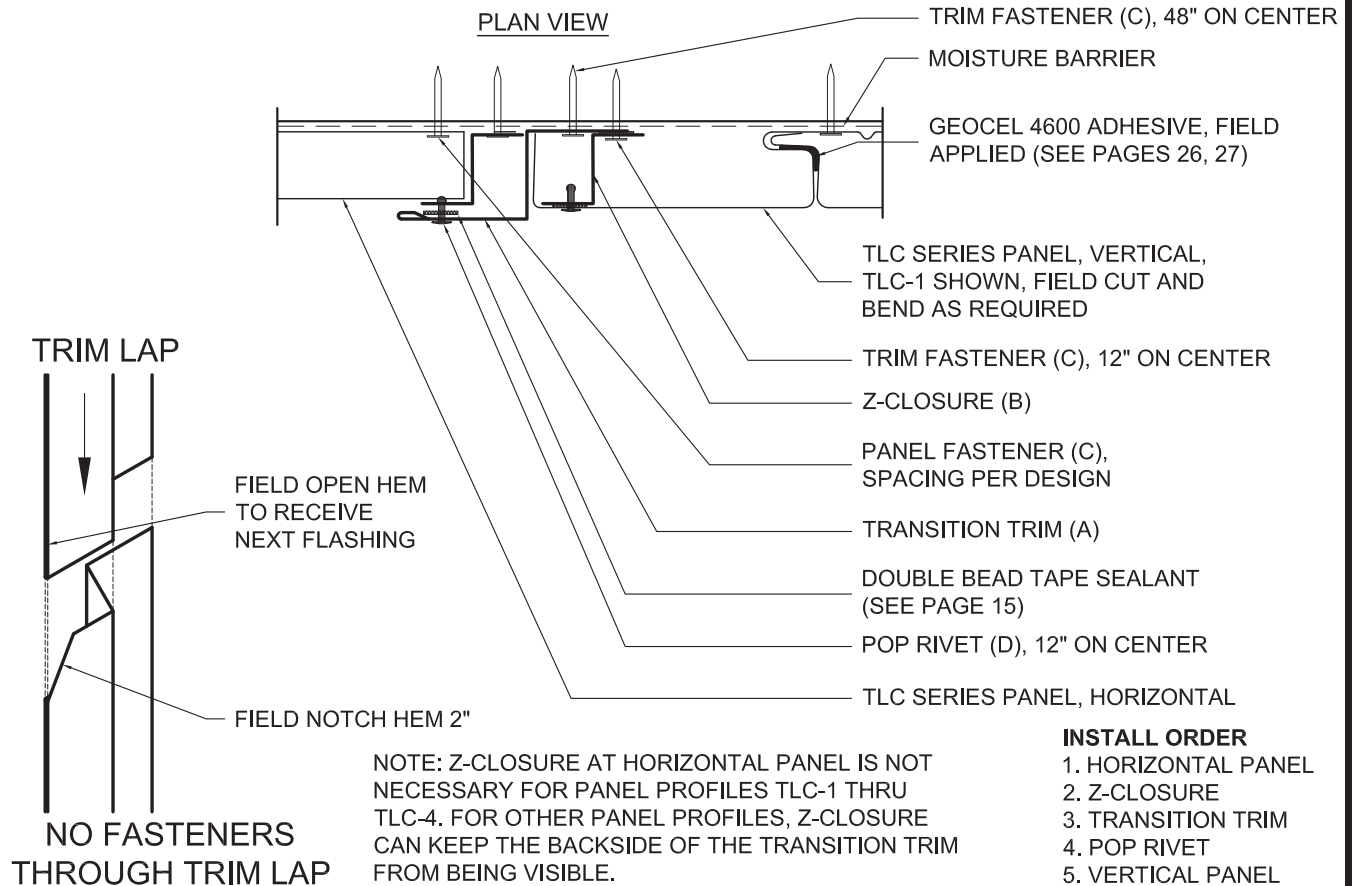


NO FASTENERS THROUGH TRIM LAP

|     | Part | Description   | Product #                      | Length | Installation Information  |
|-----|------|---|--------------------------------|--------|---|
| (A) |      | Transition Trim, 24 Ga<br>Transition Trim, 22 Ga<br>Transition Trim, 0.032" | 58738XX<br>60738XX<br>58738XXA | 10'-2" | Install Transition Trim over vertical panel and attach to panel with Pop Rivet. |
| (B) |      | Z-Closure, 24 Ga<br>Z-Closure, 22 Ga<br>Z-Closure, 0.032"                   | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Install on Transition Trim for support of panel edge.                           |
| (C) |      | #10-16 x 1"<br>Pancake Head Driller   | 8242100                        | 1"     | For panel/trim attachment to metal framing                                      |
| (C) |      | #10-12 x 1"<br>Pancake Head Wood Screw                                      | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                          |
| (D) |      | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | For attachment of panel and trim  |

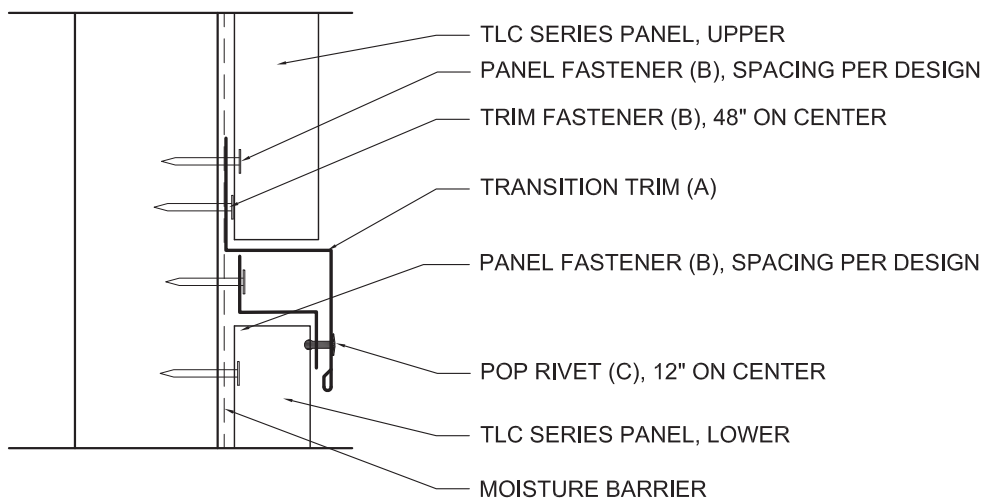


|     | Part | Description   | Product #                      | Length | Installation Information                               |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Jamb Trim, 24 Ga<br>Jamb Trim, 22 Ga<br>Jamb Trim, 0.032" | 58671XX<br>60761XX<br>58671XXA | 10'-0" | Place and attach Jamb Trims with Tape Sealant between. |
| (B) |      | Double Bead Tape Sealant (7/8"x3/16"x25')                 | 6403899                        |        | Install between panel and flashings                    |
| (C) |      | #10-16 x 1"<br>Pancake Head Driller                       | 8242100                        | 1"     | For panel/trim attachment to metal framing             |
| (C) |      | #10-12 x 1"<br>Pancake Head Wood Screw                    | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing |



| Part | Description  | Product #                      | Length | Installation Information   |
|------|--|--------------------------------|--------|--|
| (A)  | <p>Transition Trim, 24 Ga<br/>Transition Trim, 22 Ga<br/>Transition Trim, 0.032"</p> | 58738XX<br>60738XX<br>58738XXA | 10'-2" | Install Transition Trim over horizontal panel and attach with Pop Rivet. |
| (B)  | <p>Z-Closure, 24 Ga<br/>Z-Closure, 22 Ga<br/>Z-Closure, 0.032"</p>                   | 57605XX<br>60605XX<br>57605XXA | 10'-2" | Locate for support of panel edge.  |
| (C)  | <p>#10-16 x 1"<br/>Pancake Head Driller</p>  | 8242100                        | 1"     | For panel/trim attachment to metal framing                               |
| (C)  | <p>#10-12 x 1" Pancake<br/>Head Wood Screw</p>                                       | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing                   |
| (D)  | <p>1/8" x 3/8"<br/>Pop Rivet</p>   | 82402XX                        |        | Attach Transition Trim to panel.   |

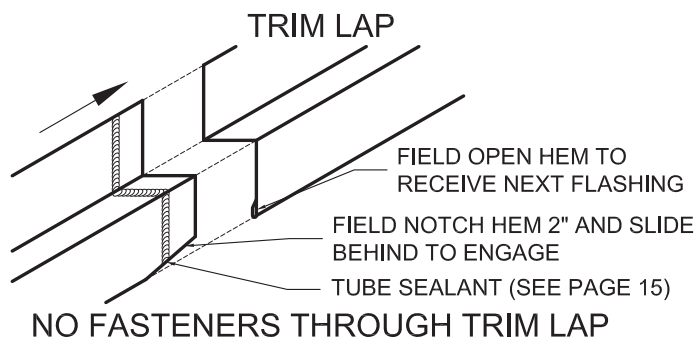
## ELEVATION VIEW



### INSTALL ORDER

1. LOWER PANEL
2. Z-CLOSURE
3. TRANSITION TRIM
4. POP RIVET
5. UPPER PANEL

NOTE: Z-CLOSURE BELOW TRANSITION TRIM IS NOT NEEDED FOR PANEL PROFILES TLC-1 THRU TLC-4. FOR OTHER PANEL PROFILES, THE Z-CLOSURE CAN KEEP THE BACKSIDE OF THE TRANSITION TRIM FROM BEING VISIBLE.



NO FASTENERS THROUGH TRIM LAP

|     | Part | Description   | Product #                      | Length | Installation Information   |
|-----|------|---|--------------------------------|--------|--|
| (A) |      | Transition Trim, 24 Ga<br>Transition Trim, 22 Ga<br>Transition Trim, 0.032" | 58738XX<br>60738XX<br>58738XXA | 10'-2" | Install Transition Trim over lower panel and attach with Pop Rivets. |
| (B) |      | #10-16 x 1"<br>Pancake Head Drill   | 8242100                        | 1"     | For panel/trim attachment to metal framing                           |
| (B) |      | #10-12 x 1"<br>Pancake Head Wood Screw                                      | 8243100                        | 1"     | For panel/trim attachment to wood sheathing or framing               |
| (C) |      | 1/8" x 3/8"<br>Pop Rivet  | 82402XX                        |        | Attach Transition Trim to panels.                                    |

Though factory-applied pre-painted finishes are very durable and will last many years, eventually it may be desirable to thoroughly clean or repaint them.

Dirt pickup may cause apparent discoloration of the paint when it has been exposed in some dirt-laden atmospheres for long periods of time. In areas of strong sunlight, slight chalking may cause some change in appearance. A good cleaning will often restore the appearance of these buildings and render repainting unnecessary. An occasional light cleaning will help maintain a good appearance.

In many cases, simply washing the building with plain water using a hose or pressure sprayer will be adequate. In areas where heavy dirt deposits dull the surface, a cloth or soft bristle brush and solution of water and detergent ( $\frac{1}{3}$  cup of laundry detergent per gallon of water for example) may be used. This should be followed by an adequate rinse of water. Do not use wire brushes, abrasives, or cleaning tools which will scratch the coating surface.

Mildew may occur in areas subject to high humidity but is not normally a problem due to the high inherent mildew resistance of the baked finish that is used. However, mildew can grow on dirt and spore deposits in some cases. To remove mildew along with the dirt, the following solution is recommended.

- $\frac{1}{3}$  cup detergent (Tide® or equivalent)
- $\frac{2}{3}$  cup trisodium phosphate (Solex® or equivalent)
- 1 quart of 5% sodium hypochlorite solution (Clorox® or equivalent)
- 3 quarts of water

Strong solvents and abrasive type cleaners should be avoided. Most organic solvents are flammable and toxic, and must be handled accordingly. When using a solvent, consult maintenance professionals and label instructions for proper handling and disposal of washings. If required, a mild solvent such as mineral spirits can be used to remove caulking compounds, oil, grease, tars, wax and similar substances. Use a cloth dampened with mineral spirits and apply only to areas which are contaminated. Follow up the use of this mild solvent with detergent cleaning and rinsing.



[illegible]