R-Mer® Wall-Pan

Flush Seam Wall Panel System Installation Guidelines

GARLAND
since 1895

Read this document fully before installing the panels. All safety procedures, including adequate fall protection, are the responsibility of the erector. Details shown in the project's shop drawings take precedence over any similar information in this installation guide. This guide is intended to provide the erector with recommended methods, procedures and guidelines for the installation of the R-Mer Wall-Pan system. Information presented is accurate, but may not cover all situations, building conditions and/or details of a specific project.

DESCRIPTION

R-Mer Wall-Pan is a custom-formed, easy-to-install flush seam wall panel system designed to stop moisture penetration into the most vulnerable part of the building – the walls. R-Mer Wall-Pan is ideal for use with new framing or over existing substrates for parapet walls and/or mansards over a solid substrate.

While there are a few different options for sill trim details (i.e. standard sill detail, two-piece counterflashing, etc.), this installation guide will only cover the standard installation of R-Mer Wall-Pan in a wall panel application over a solid substrate. For non-standard projects, please reach out to your Garland representative for additional details and instruction.

MATERIALS

- R-Mer Wall-Pan Panels
  - Available in 22 or 24 gauge Galvanized steel and 0.040" aluminum
- Panel Clips
  - Galvanized or Stainless Steel
- Hat Channels (Scope dependent)
- Fasteners (Substrate dependent)
- Flat stock (For trim metal)

TOOLS

- Drill Driver
- Metal Shears
- 1/16" Shim
- Rubber mallet
- Level
- Rivet Gun
- Gloves, Hard Hat and Protective Eyewear

STORAGE

Store all shipping crates upright and on a dry surface. Keep all material dry, clean and free from all construction debris. When handling panels use soft, clean gloves to prevent moisture, sweat and oils from being deposited on the panel surfaces. One end of tarped crates should be elevated to maintain positive airflow evaporation of any moisture.

STORAGE

Before starting installation, examine the substrate for straight and true surfaces, including all corners, jambs and perimeter conditions. Remove any debris and wipe clean. Proceed with installation only after all necessary corrections have been performed and substrate is deemed suitable. If substrate is unsuitable, report to the governing authorities.

Note: If an underlayment or air/water barrier is being used, it must be applied and cured before starting installation of the wall panel system.

INSTALLATION

Steel Panels

If installing steel panels, be advised that saw or torch cutting of the wall panels or trim is not allowed. Instead, the erector may only use shearing action achieved by hand snips/shears or electric shears.

Aluminum Panels

If installing aluminum panels, torch cutting is not allowed. Shearing action cuts are recommended, however saw cutting is also permitted as long as care is taken to prevent burning paint finish, edge burs and saw debris from being deposited on finished product.

WALL PANEL
PANEL CLIP
JAMB TRIM
1/8" POP RIVET @ 12" O.C.
SILL TRIM
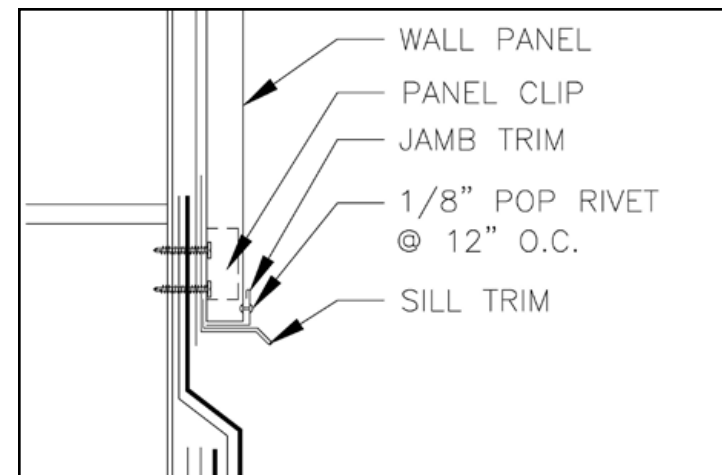
(fig.1) sill trim

STEP 1

Begin by installing the sill trim detail **(fig. 1)**, which is located at the very bottom of the wall panel. The bottom of the panels should be a minimum of 8" above the surface below. Slide the sill trim up behind the panels and clips. Next, fasten down the bottom row of panel clips through the sill trim piece. Be sure to leave a 1/16" gap between the sill trim and the bottom of the wall panel to allow room for the sill cover to be installed.

(fig.1) sill trim around window

STEP 2

Next, fasten the termination Zee directly into the substrate at the corner, running the entire height of the wall in the vertical direction. Remove the first panel's male leg using metal shears, cut the panel to the correct width and fasten it down to the substrate using the provided clips. The first panel's cut width will need to be determined in the field and the clip spacing in the vertical direction will be provided on the project-specific wind uplift calculations. If applicable to the project, install framing components according to clip spacing requirements to act as the substrate mentioned throughout this guide.

Start by setting the cut side of the panel flush with the outside edge of the Zee, clamping in place at the very top and bottom and then at every 4' o.c. Set clips in place on the other side of the panel, at the provided spacing, and fasten through the pre-punched holes into the substrate below. This will hold the first panel in place so it is ready to receive the termination closure. Once the clips are fastened, remove the clamps from the Zee and panel.

STEP 3

Now install the termination closure trim assembly. Attach the closure cleat to the outside wall at 12" o.c. The termination closure piece should be set onto the cleat and rotated around the corner to sit outside of the termination Zee and cut panel. Rivet these three pieces together at 12" o.c. up the entire run of the closure **(fig. 2)**.

STEP 4

Install the adjacent panel. Align the bottom or top of the panel, whichever is easier, evenly with the first panel. Take the panel leg and "pop" it into the slot on the adjacent panel **(fig. 3)**. Start from the bottom and work up like a zipper until the entire panel is snapped into place. Install the next run of clips in the same clip spacing as before **(fig. 2)**.

Note: The film on the panel must be removed either prior to installation or directly after installation.
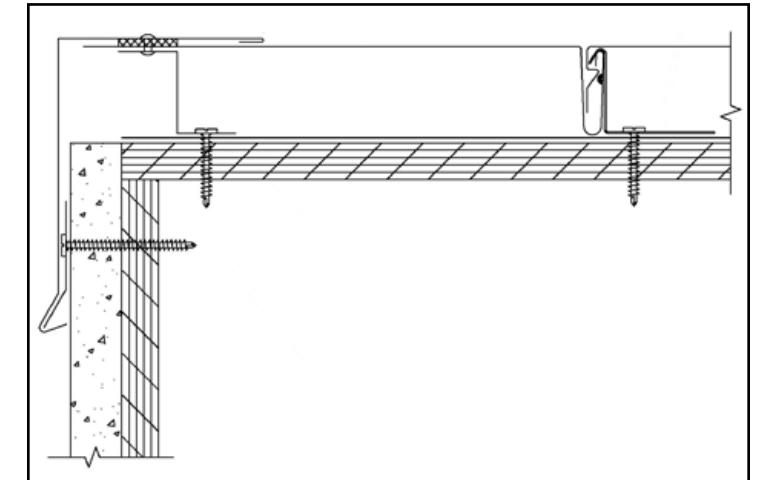
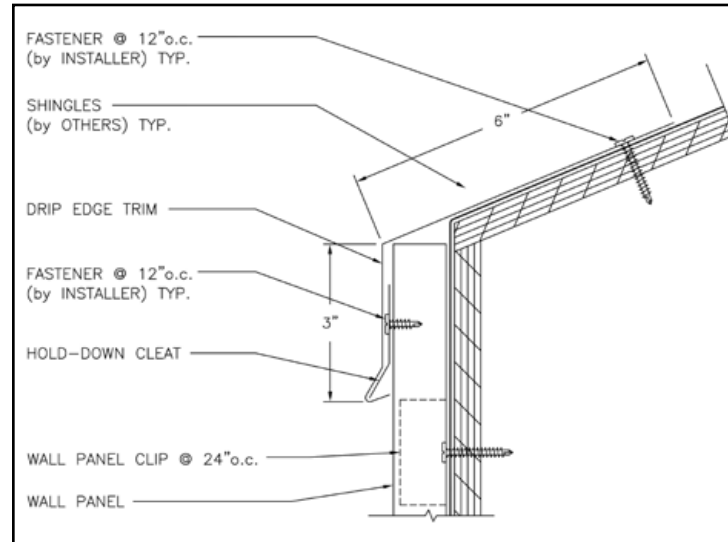**(fig.2) termination closure trim**
larger detail image on next page
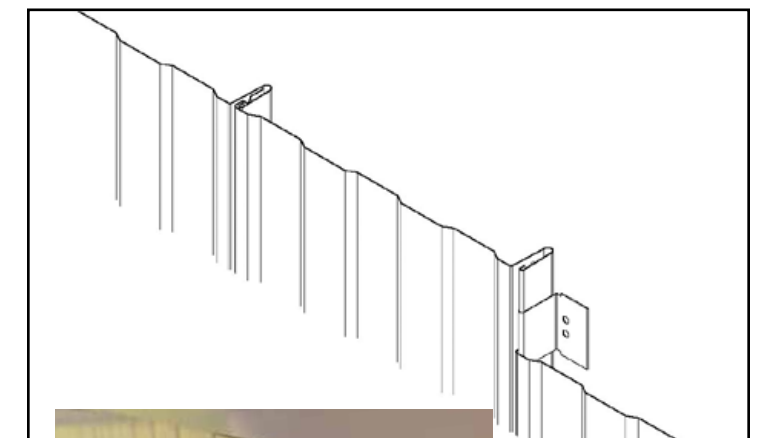
(fig.3) interlocking panels

(fig. 4) top flange

STEP 5

Once all panels and sills are installed, install the head detail starting with the cleat. Fasten the cleat to the top of the panels so the bottom of the cleat is exactly 3" from the top of the panel. The cleat should be fastened every 12" o.c.
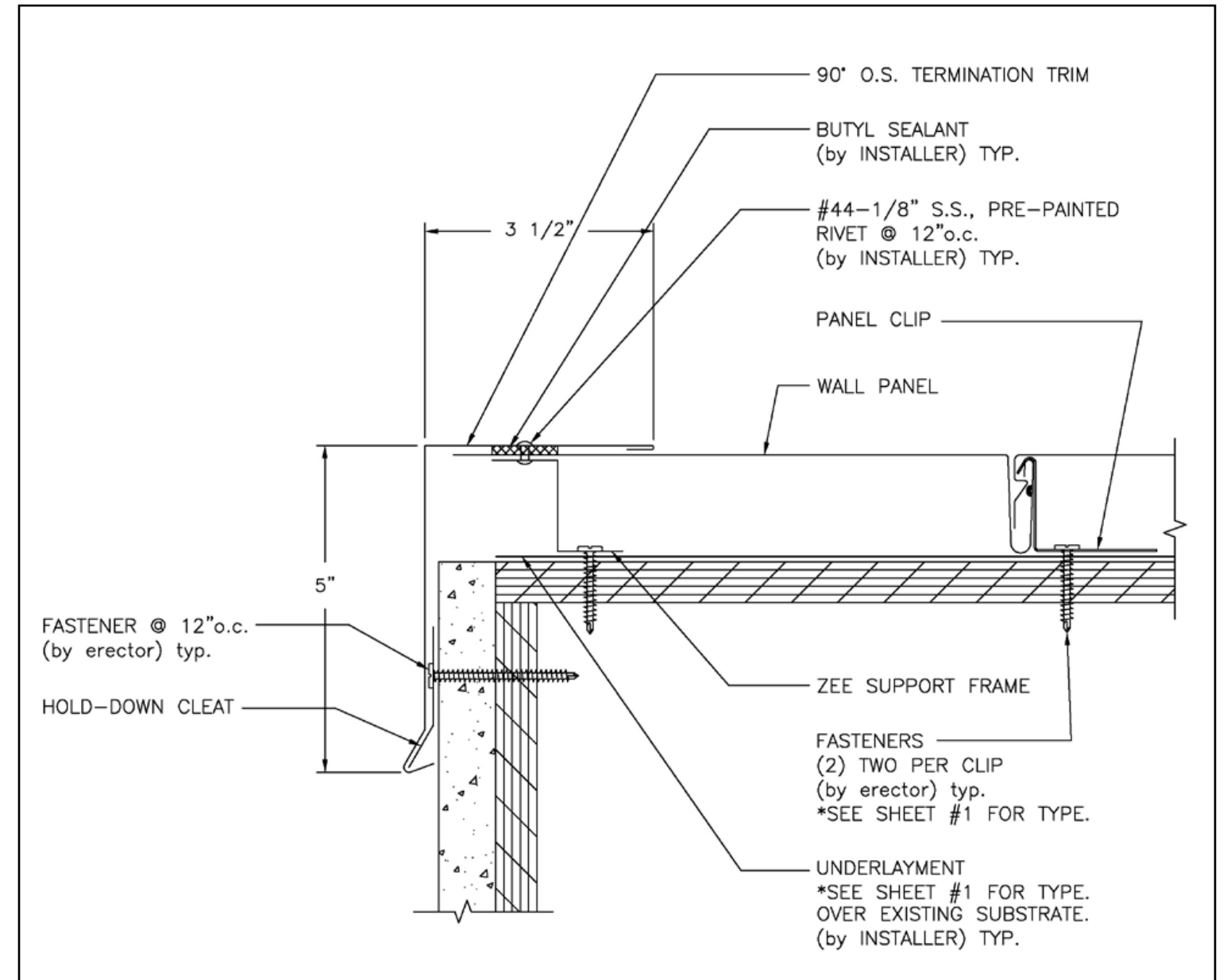
Next, install the trim, which should be pre-formed to meet the bend angle at the upper roof, to snap onto the previously installed cleat. Please note that all related panel trim are to have field transitions and field or factory-fabricated miters (i.e. transition between jamb to sill trim or 90° corners for sill trim). All continuous lengths of panel trim must be notched, lapped and sealed a minimum of 3" at lap splices. Additionally, a panel trim's thermal movement occurs at the lap splice, so the erector must not anchor trim at the lap splice.

Start the trim install by hooking the bottom of the trim to the cleat then rotating the trim until the upper flange is flat on the upper section. The flange on the upper section should extend a minimum of 6" from the edge of the roof. Fasten the top flange to the upper section every 12" o.c. (**fig. 4**). If the upper section is not being replaced, a slip flashing must be used in place of the trim.

Finished R-Mer Wall Pan

While this document covers the standard conditions, is not all-encompassing of every part of the R-Mer Wall Panel installation. For any additional details that are not included in these instructions, contact your local Garland representative or call 800-321-9336.

(fig.2) termination closure trim