

CONSTRUCTION METAL PRODUCTS

INSTALLATION INSTRUCTIONS FOR R PANEL & PBR PANEL

STORAGE

If metal is not to be used immediately, store inside on a dry, well ventilated location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust, which detract from the appearance of the product and may affect the product's useful life. **Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off the panel.** To prevent white rust and staining, break the shipping bands on the material. Store the material on end or on an incline of at least 8" with a supporting board underneath to prevent sagging. Fan the sheets slightly at the bottom to allow for air circulation. Keep the sheets off ground with an insulator such as wood. Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. **Never cover the metal with plastic as this will cause condensation to form.**

GENERAL INSTALLATION INFORMATION

Insure that the structure is square and true before beginning panel installation. If the structure is not square, the panels will not properly seal at the side laps.

Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal panels.

Remove any loose metal shavings left on roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels.

SOME SAFETY PRECAUTIONS

Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When power cutting or drilling steel panels always wear safety glasses to prevent eye injury from flying metal fragments.

If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof which does not have a plywood, or other deck beneath it is not recommended. However, if you must do so, always walk on the purlins, never between.

NOTICE

It is the responsibility of the user to verify all applicable code requirements for the area, check all measurements, and determine suitability of product for job.

Wear gloves when handling steel panels to avoid cuts. Wear safety glasses to prevent eye injury when power cutting or drilling steel panels.

FASTENING

Pre-drilling fastener holes may improve the finished appearance of your project by aiding in aligning fasteners. If you choose to pre-drill holes, use a cover sheet, and/or drill panels with the finished side down. Do not allow nearby panels to be sprayed with metal shavings. Completely remove any metal shavings that are on the panels prior to installation.

Screws: For installation into a steel frame, use #12 x 1 ¼" Self-Drilling Screws. For installation into a wood frame, use #10 x 1 ½ Wood Screws. For best results use #12 x 7/8 Stitch Screws at panel overlaps.
position fasteners as shown in illustrations below.

FIGURE #1 – Fastening Patterns for R Panel & PBR Panel for Roof Applications

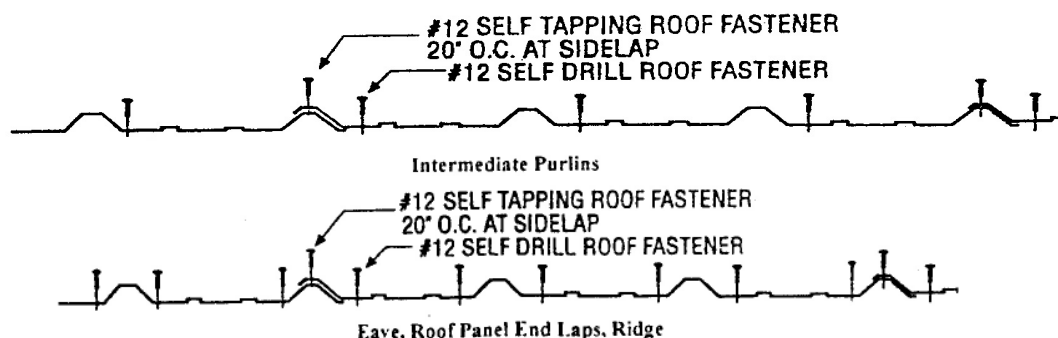
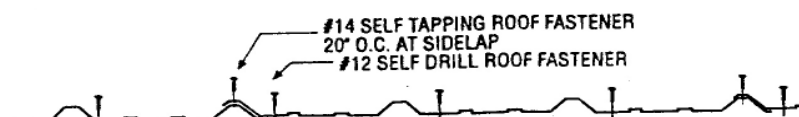


FIGURE #2 – Fastening Patterns for R Panel & PBR Panel for Wall Applications



PANEL OVERLAP

Figure #3 – R Panel Overlap

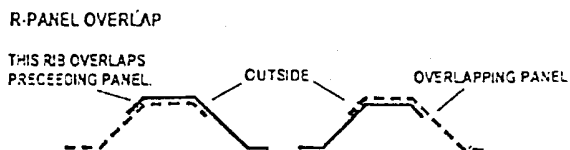
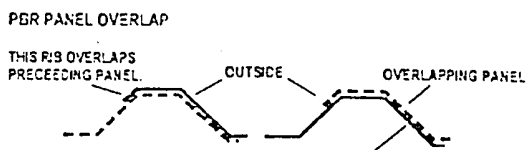


Figure #4 – PBR Panel Overlap



Since the R Panel profile is symmetric, either edge of the panel can be overlapped. For the PBR panel, the non-purlin bearing leg side of the panel must lap over the purlin bearing leg side. In either case, it is recommended that the panel be installed so that the open side of the lap faces away from the prevailing wind.

Sealant and Closure Strip

The use of 3/8" x 3/32" butyl sealant tape on roof panels is critical for preventing water infiltration. Apply sealant at the locations listed below. Closure strip is also critical for preventing back water infiltration and pest infiltration.

Eave: Apply sealant tape along entire eave. Remove upper protective cover from portion where panel is to be applied. Lay R-Panel inside closure on top of tape. Apply another layer of tape of closure strip. Remove top layer of protective cover just before applying panel. See Figure #5.

Ridge: For standard ridge cap, apply sealant tape both underneath and on top of outside closure strip, just below the fastener line as in eave application.

Sidelap: Apply sealant tape on the outer edge of the major rib of the underside panel. See Figure #6

Endlap: Apply sealant tape across the width of the underside panel just below the fastener line.

Gable/Rake Flashing: Apply sealant tape before applying Gable/Rake trim.

Figure #5 - Application of Sealant Tape and Closure Strip at Eave

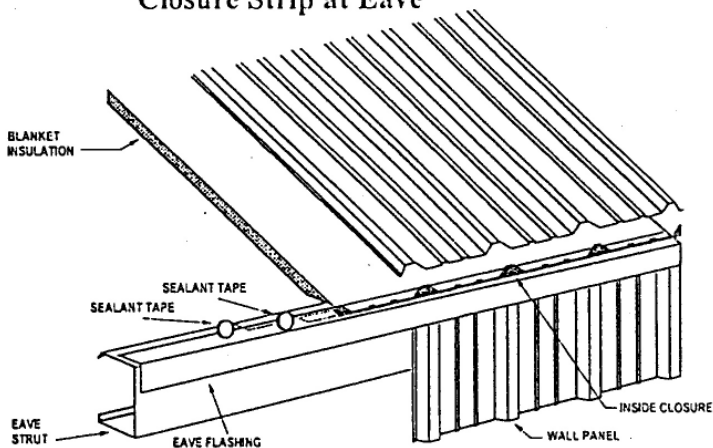


Figure #6- Application of Sealant Tape at Side Lap

