

CONSTRUCTION METAL PRODUCTS INSTALLATION INSTRUCTIONS MULTI-RIB PANEL

STORAGE

If metal is not to be used immediately, store inside 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 air for circulation. Keep the sheets off of the 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.

SOME SAFETY PRECAUTIONS

Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When cutting or drilling steel panels, always wear safety glasses and sweep off any metal shavings immediately 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. Do not for any reason walk on a roof made of material less thick than 29 gauge.

GENERAL INSTALLATION INFORMATION

Insure that the structure is square and true before beginning panel installations. 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. Nails installed in green or damp lumber may back out.

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.

FASTENING

If you wish to predrill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels.

Screws – For best results use a 1 ½" double washered wood screw in the flat of the panel as shown in the illustration below. Fasteners should be applied at every purlin. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Use a #12 stitch screw or caulk to fill the hole.

NOTE: If rigid insulation is used directly under the panel, the fastener length needs to be increased to allow a minimum of 1" penetration into the wood.

Figure #1 – Fastening Patterns for Multi-Rib

RECOMMENDED FASTENING PATTERN FOR 1 ½" SCREWS



Fastener Pattern Every 30" Up Roof

FIGURE #2 – Panel Side Lap



Fastener Pattern at Eave and Ridge

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.

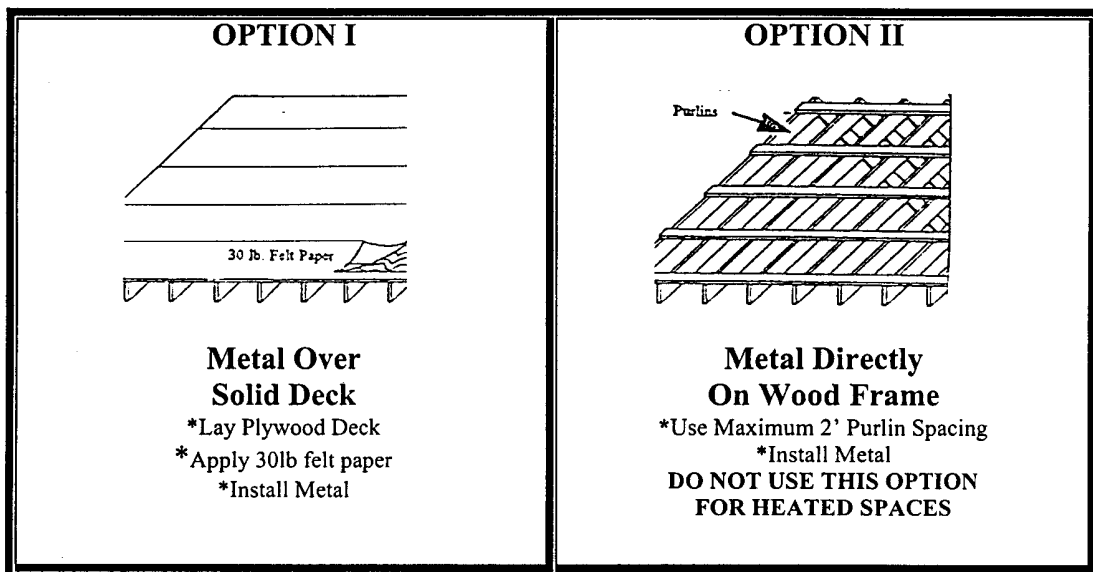
Wear gloves when handling steel panels to avoid cuts. Wear safety glasses to prevent eye injury when power cutting or drilling steel panels.

Roofing

Slopes of less than 2" in 12" are not recommended.

Side laps should face away from the prevailing wind. Lay the first sheet along the eave at the down-wind side of the roof (farthest away from the direction of the prevailing winds).

Figure #3 – Installation Options



- **Proper ventilation and vapor barrier protection recommended for heated/ air conditioned spaces.**

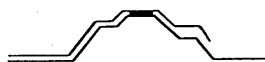
Allow an overhang of 2" at the eave to provide for a drip edge. Use inside closure at eave to prevent insect or bird infestation at openings.

To protect against uplifting winds and to provide a finished appearance, apply rake trim or other standard gable trim. Apply fasteners every 6-10".

13" ridge cap is recommended to prevent leakage. Seal off ridge and panel using outside closure strip.

Use of 3/8" side lap butyl tape is recommended. Apply the tape as shown in figure #4 along the top of all lap ribs. Do not block the siphon channel with the tape. For best results, apply a 7/8" stitch screw every 20" into the top of the rib to secure the side lap.

Figure #4 – Proper Application of Side Lap Butyl Tape



Siding

For best results, start siding at a door, window or other opening in the wall. Use corner trim, base molding, eave trim, and other trim to improve the weather-tightness and appearance of the structure.