

# Installation Instructions for 1-1/4" & 2-1/2" Corrugated Roofing & Siding

## Storage

If metal is not to be used immediately, store inside in a well ventilated, dry 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 immediately or several years later.** 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 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.

## 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. 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.

## 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.

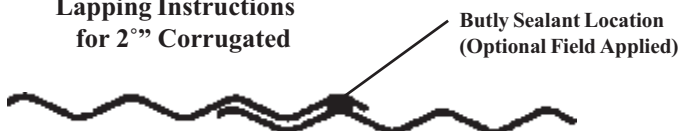
If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof which does not have a plywood or other deck 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.

## Roofing

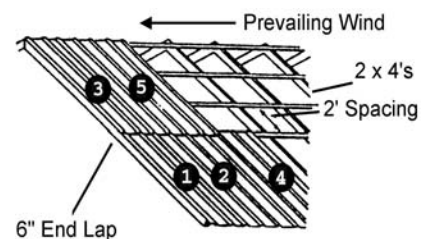
For 2" Corrugated, slopes of less than 3" on 12" are not recommended. For slopes of 4" on 12" or greater, lap end panels 6". Side lap panels should cover two corrugations (see Figure #1). Coverage for 2" Corrugated for roofing is approximately 22". **1" Corrugated is not recommended for roofs.**

Side laps should face away from the driving rain. Lay the first sheet with the eave at the down-wind side of the roof, farthest away from the direction of the prevailing winds (see Figure #2). Install sheets in the sequence shown in Figure #2.

**Figure #1**  
**Lapping Instructions**  
**for 2" Corrugated**



**Figure #2 Sheet Installation Pattern**  
**for 2" Corrugated**



- Allow an overhang of 2" at the eave 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".
- Ridge roll is recommended to prevent leakage. Seal off ridge and panel using outside closure strip.
- Use of 3/8" side lap tape is recommended, especially for more shallow roofs.



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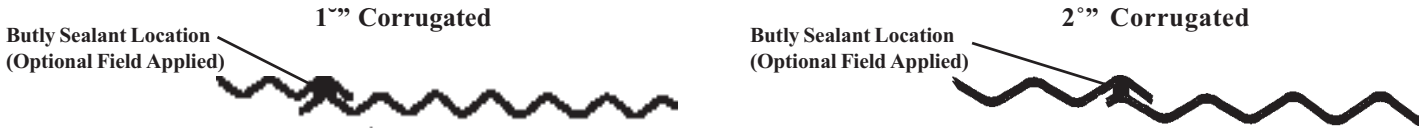
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## Siding

For best results, start siding at a door, window, or other opening in the wall. Use corner trim or other standard trim for strong, neat edges. Siding panels should be lapped covering one corrugation for both 1" and 2" Corrugated (see Figure #3).

Figure #3 – Lapping Instructions for Siding



## Fastening

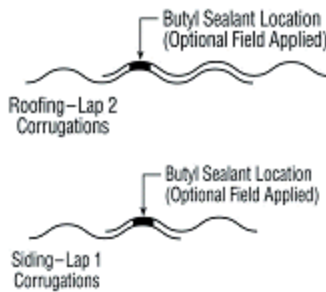
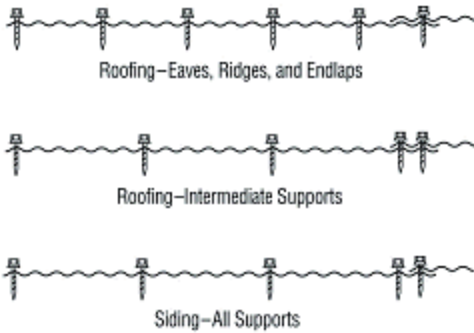
If you wish to pre-drill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels. For best results use double washered wood screws, minimum 1" long or ring-shanked neoprene washer nails, minimum 1" long. Position fasteners as shown below. Do not overdrive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Remove the fastener and seal the hole with butyl caulking or equivalent.

## RECOMMENDED FASTENER POSITIONS

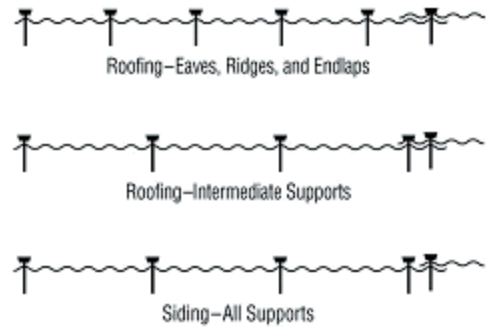
### 1-1/4" Corrugated

Union Corrugating Company does not recommend the use of 1-1/4" Corrugated for roofing applications

#### Screw Fastener Positions

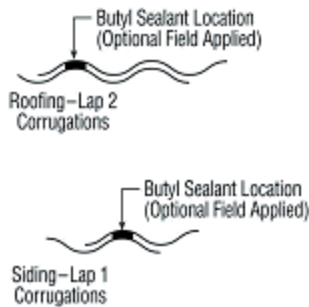
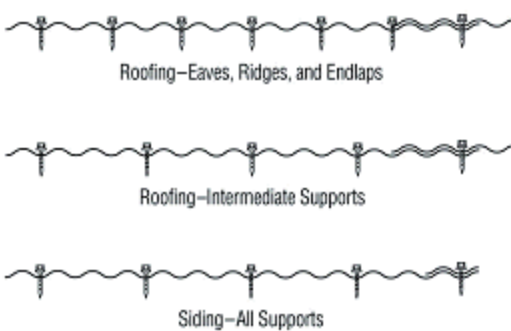


#### Nail Fastener Positions

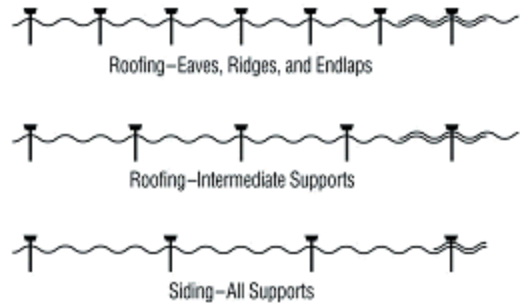


### 2-1/2" Oval

#### Screw Fastener Positions



#### Nail Fastener Positions



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