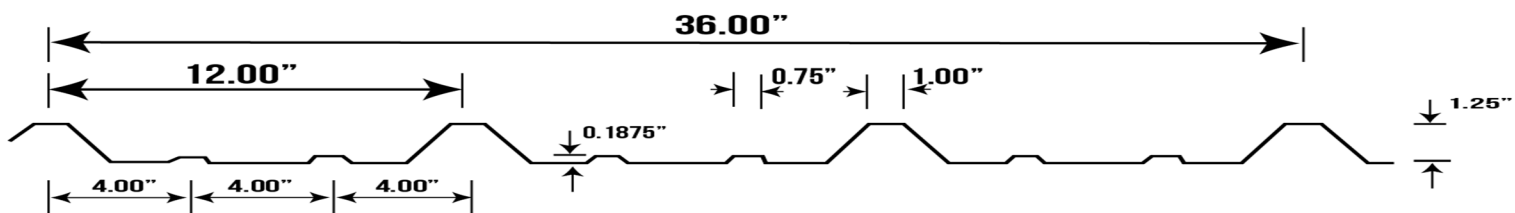




*Installation of D7 Metals roofing panels requires a roofing contractor with a minimum of three years of professional roofing installation experience.*

## D-PBR INSTALLATION GUIDE

### D-PBR Panel Information



### Panel Overview

- **Available Finishes:** WeatherXL™, Kynar®PVDF, Acrylic Coated Galvalume®
- **Gauges:** 26ga, 24ga
- **Profile:** 36" coverage, 1.25" rib height, exposed fastener panel
- **Panel Length:** Minimum: 3'; Maximum: 50'
- **Minimum Roof Slope:** 1:12

### Testing and Approvals

- **FBC Approvals:** FL40905
- UL 580 Uplift Resistance
- UL 1897

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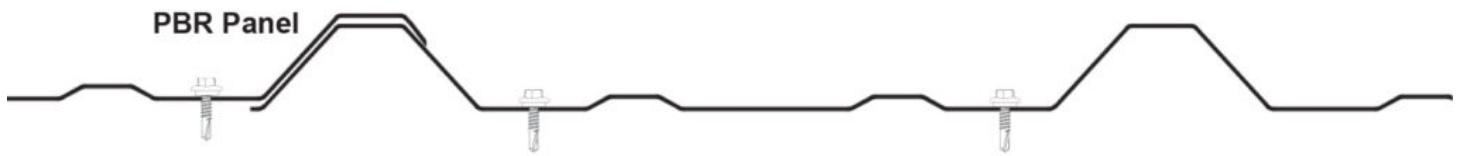


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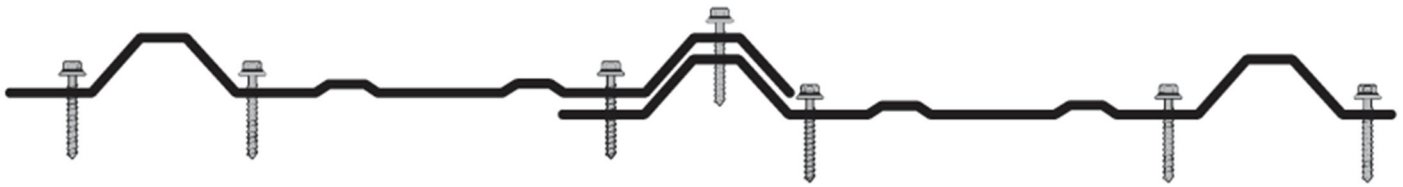
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## Fastening Pattern

### Field of Panel



### End of Panel



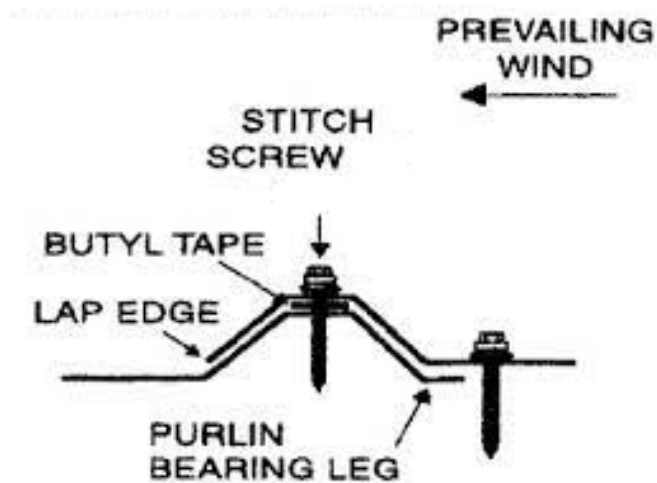
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## Panel Lap Detail



## Storage

- Panels should be stored in a dry place when possible.
- Panels stored outside should be high enough off the ground to allow air circulation and prevent contact with accumulating water.
- Panels should be covered with a loose, breathable tarp. Tight fitting plastic type tarps are not recommended.
- Extended storage of bundled panels is not recommended.
- Any wet material should be air-dried and re-stacked if not installing right away.

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## Handling

- Bundles should be handled carefully to prevent bending or damage to the finish.
- Never transport open bundles.
- Care should be taken when handling individual panels to avoid bending or scratching.
- Gloves are recommended when handling individual panels to avoid a reaction with salts and oils found on bare skin with the finish.

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## Panel Installation

### Roof Pitch

- Roof pitch should be a minimum of 1:12. For slopes less than 3:12 lap screws and sealant in the lap must be used. **Refer to the local building codes for further recommendations.**

### Substrate

- Panels are designed to be installed over open framing and/or directly over wood sheathing. Sheathing should be a minimum 15/32" CDX APA Span-Rated plywood supported on rafters at a maximum 24" oc. If using battens, they must be untreated since direct contact between pressure treated wood and metal roofing must be avoided in order to prevent potential corrosion.
- Whether installing new or over existing roof installer should check roof deck for squareness.
- Prior to installation, roof should be inspected for trapped moisture or structural damage such as sagging or bowing rafters, loose purlins or bad decking. Make sure there are no nails or fasteners protruding from roof framing or substrate. Care should be taken to ensure a flat, uniform substrate for panel installation.
- D7 Metals recommends a high temp, self-adhered polymer-modified bitumen underlayment complying with ASTM D1970 installed in accordance with manufacturer's instructions. **Refer to local building codes for further recommendations.**

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## Application

- Eave metal, gutter and valley flashings should be installed prior to panel install.
- Panels should be installed against the prevailing wind to provide added assurance against wind driven rain being forced under the laps.
- Looking from eave to peak, panels can be installed from either right to left or left to right.
- Self-adhered inside closures should be applied (**SQUARE TO THE BUILDING**) to the top leg of the eave metal. It is critical that the closures are square to the building as this will control panel alignment. A row of Butyl tape may be applied above and beneath the inside closure.
- Measure the width of one panel in from the roof edge. This measurement is to be done at the eave as well as the ridge. Next chalk a line between these two points. Place the leading edge of the first panel along the chalked line. Allow a 2" overhang on the eave.
- Fasten through panel and closure into decking with appropriate number of fasteners per local building code. (See fastening pattern)
- After installing fasteners at eave, repeat the fastening pattern to the ridge at the appropriate spacing according to local building code.
- If installing endlap panels is required, the upper panel should overlap the lower panel by 12". Install two rows of Butyl Tape horizontally on lower panel prior to overlapping.
- To install the second eave panel, place the overlap rib of the second panel on top of the sidelap rib ( with the purlin bearing leg) of the first panel so that panel ends are flush at the eave. Refer to the Panel Lap Detail.
- Follow the prior steps to fasten the second panel as well as all remaining panels.
- Filings from screw application must be removed from panels to avoid rust marks and/or damage to the paint finish.

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## Field Cutting and Trimming Panels

- Hand tin snips or nibblers (shear-type electric tool) are recommended for field cutting metal panels.
- DO NOT use an electric saw for cutting panels.
- Cut panels one at a time with the finished side of the panel (top side) facing down. This allows slivers and/or metal chips to be brushed away from the back side (bottom side) and avoid damaging the paint on the finished side.

## Fasteners, Closures and Accessories

- D7 Metals stocks all the fasteners, closures and accessories needed for installation.

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