Roof System
Installation Guide

WE’VE GOT YOU COVERED INSIDE AND OUT.

Energy-Efficient Metal Building Insulation
Roof System Installation Instructions

**STEP A**

**EVRLINER FP BANDING INSTALLATION**

1. Parallel bands must never be spliced. For purlin spaces 42” or greater, install two bands per space. If purlin space is less than 42”, install one band. Note: Eave and ridge spaces always require two bands regardless of width.

2. Fasten these bands to the top flange of endwall rafters only using two 1-1/4” self-drilling fasteners supplied with the EVRliner FP system. Pull banding hand tight to the opposite endwall rafter and fasten in the same manner.

**IMPORTANT:** To provide OSHA-compliant leading edge fall protection, parallel bands must only be fastened to the endwall rafters. This ensures fall protection is provided within 6’ of the intermediate rafters if the fabric and banding are completely installed in the bays sharing a common intermediate rafter. **Never fasten parallel bands to intermediate rafters.**

3. Install a series of perpendicular (cross) bands to the bottom flange of the eave strut starting exactly 6” from the rafter edge using the 3/4” metal tek screw with washer. Remaining perpendicular bands should be evenly spaced no more than 60” on center. Make sure to remove twists during installation of perpendicular bands and weave above every 5th or 6th parallel band and above both bands in the ridge space. Fasten to the opposite eave strut using the 3/4” metal tek screw with washer.

**IMPORTANT:** Refer to the EVRliner FP wall instructions for banding spacing requirements if you are using the system in both the roof and walls. When screwing into roof banding, ensure the fastener is centered on banding.
**STEP B**

**EVRLINER FP FABRIC INSTALLATION**

1. In double slope applications, open and place the EVRliner FP support fabric between the two ridge purlins with the finished side (typically white) facing the interior of the structure. Pull one edge down the slope beneath the purlins towards the eave strut. Use c-clamps to temporarily hold in place. Turn the fabric stack over when deploying the remaining fabric on the opposite slope. This allows the material to deploy from the top of the stack as the fabric is being pulled towards the opposite sidewall. If installing on a single slope building, open and position the fabric near the high side eave strut and repeat the above steps.

2. Once the fabric is clamped and square to the bay, remove fasteners and banding at the eave strut. Pull the fabric taut and apply brush adhesive (or optional two-sided tape) to the bottom of the eave strut and re-attach the fabric using banding and 3/4” metal tek screw with washer in the same holes where previously located. Install a second 3/4” metal tek screw with washer into the eave strut during this step. Adhesives must be applied to clean, dry surfaces.

3. Beginning at the eave, moving towards the ridge, notch the fabric around the purlins and seal to the top of the rafters with brush adhesive (or optional two-sided tape) with two crewmen working in unison and pulling fabric tight across the bay length (parallel to the purlins).

4. Next, moving from the eave strut in the direction of the ridge, install the supplied 3/4” tek screws and washers at the intersection of each cross band and purlin. Straighten and smooth the fabric as needed as this process proceeds. If you will be roofing only one slope at a time, the final fastener is screwed into the far ridge purlin. If you will be roofing both slopes of the bay at once, proceed from the ridge down the remaining slope and complete this process at the far eave strut.

**IMPORTANT:** For EVRliner FP to be relied upon to provide OSHA-compliant leading edge fall protection, parallel bands must never be fastened to intermediate rafters. When installed as specified, leading edge fall protection is provided within 6’ of the intermediate rafters as long as the fabric and banding are completely installed in the bays sharing a common intermediate rafter.
**STEP C**

**UNFACED FIBERGLASS INSULATION INSTALLATION**

1. Unfaced fiberglass insulation can now be installed on the liner fabric. The first/lower layer is to be installed between the purlins and provided by DI in custom cut widths based on the building’s purlin spacing. Compare metal building frame cross sections with provided jobsite cutlist to determine location of insulation rolls. Some rolls may be supplied slightly wider than building drawings specify to ensure a snug fit.

2. The second/top layer of unfaced fiberglass insulation is now installed above the lower layer of unfaced insulation, perpendicular to the purlins, creating a thermal break between the purlins and the metal roof panels. If thermal blocks are required (not by DI), install per building manufacturer’s instructions.

**IMPORTANT:** Completely filling the space between the outer metal panel and EVRliner FP fabric will help to prevent condensation.

**STEP D**

**METAL BUILDING ROOFING INSTALLATION**

1. As the top layer of unfaced insulation is installed, install metal roof panels and accessories per metal building manufacturer’s instructions.

**NOTES**

Only after steps A-B have been fully and correctly completed by an EVRliner FP certified installer:

- Leading edge fall protection, as defined by OSHA Title 29 CFR 1926.502, is now present in areas of roof where the EVRliner FP system is correctly installed by a DI certified contractor.

- Fall protection is **not** provided within 6’ of any roof edge and within 6’ of any common rafter where the EVRliner FP system has not been completely installed in both bays. Alternative measures for fall protection must be used in those areas and roof perimeter warning line stands should be present.

- The EVRliner FP system is not intended for high humidity applications (those exceeding consistent relative humidity levels greater than 30%) and should never be used in buildings housing open sources of water such as pools.

- The EVRliner FP system is designed solely for single-use leading edge fall protection and not for walking or stepping. Should a fall occur, all components, including fabric and banding, must be replaced before the EVRliner FP system can once again be relied upon for fall protection.

- Completely filling the space between the outer metal panel and EVRliner FP fabric will help to prevent condensation.