



ROOF SYSTEM INSTALLATION INSTRUCTIONS



STEP 1:

Install a series of longitudinal (parallel) bands within each purlin space. It is required that two longitudinal bands be installed in the eave purlin spaces. For the remaining purlin spaces greater than 48", install two bands per space; for purlin spaces 47" or less, install one band per space. Occasionally contractors will have to splice banding due to building length or width. For the correct splicing technique, please see the Energy Saver Field FP™ Splicing sheet.



STEP 2:

Pull this banding tight and fasten it to the tops of the **endwall** rafters using a banding clip with a single* high strength 12-24 TY5 1 ¼" self-drilling fastener that is supplied with the Energy Saver FP system.
Important Note: A banding clip is required. See detail drawing on back for proper clip and banding connection and location. Longitudinal bands are only attached at endwall rafters. DO NOT fasten longitudinal bands to any intermediate rafters. If longitudinal bands are fastened at an intermediate rafter an alternative means of fall protection must be used within 6'0" of either side of this rafter.



STEP 3:

Install a series of cross bands 60" on center threaded above every fifth or sixth longitudinal band by first attaching the end of one piece to the eave strut using a single* 12-14 TY3 ¾" self-drilling fastener with ¾" OD washer. It is required that you position one run of banding exactly 6" from the rafter. When you reach the ridge space, thread the cross bands **above** the longitudinal bands. This positioning will allow you to deploy the Energy Saver FP fabric from one side of the building to the other, without interruption. Continue to thread the bands to the opposite eave strut. Pull hand tight and screw to the eave strut with a single* 12-14 TY3 ¾" fastener and banding clip. Be sure to remove all twists during this procedure. Repeat until all the banding within each bay space is installed.

IMPORTANT – Refer to step 6 of the wall instructions if you are using the Energy Saver FP™ in both the roof and walls.



STEP 4:

Unwrap and position the Energy Saver FP support fabric between the two ridge purlins in double slope building applications. Pull one edge of the fabric beneath the purlins toward the eave strut and temporarily connect the fabric to the eave strut with a vise grip C-clamp. Momentarily clamping the fabric allows you a last opportunity to square and smooth the fabric before the final attachment. If you intend to sheet both slopes at once, pull the other end of the fabric beneath the purlins toward the opposite eave. If sheeting only one slope, leave the remaining fabric gathered in the ridge purlin space.



Step 5:

Once the fabric is smooth, install a single* fastener and banding clip through each support band and the fabric into the bottom of the eave strut. Proceed from the eave strut towards the ridge, screwing the cross bands into the bottom of each intersected purlin. Continue to smooth the fabric throughout this process. If sheeting only one slope the last fastener is installed into the near ridge purlin. If both slopes will be sheeted simultaneously, continue from the ridge down the opposing slope terminating at the far eave strut.

IMPORTANT - Some bay spaces may be larger than can be accommodated with a single piece of fabric. If two pieces of fabric are used see the detail provided by Guardian on splicing fabric. If the Guardian splice detail is not followed exactly you may not rely on the Energy Saver FP system to provide fall protection within 6'0" of either side of the splice location.



Step 6:

Carefully notch the fabric around the purlins.

Step 7:

The edge of the fabric can now be sealed to the top of the rafter with brush adhesive (included) or two-sided tape (optional). This will be the final opportunity to tighten and smooth fabric. When installed by an Energy Saver FP certified contractor, the system now provides OSHA-compliant, leading edge fall protection. Perimeter fall protection is still required.



Step 8:

Fiberglass insulation can now be installed on the support fabric. Most customers choose a double layer system in which one layer is installed parallel with the purlins and the second layer is installed above the first layer and perpendicular to the purlins.

IMPORTANT - It is a generally accepted design principle that air cavities above a vapor retarder should be avoided for optimum condensation control. For this reason, you should make every effort to fill the purlin cavity with insulation.



NOTES:

The Energy Saver FP system is not recommended for high humidity applications and should never be used in buildings housing pools or open sources of water.

The Energy Saver FP system is designed for only single use leading edge fall protection. **It is not intended to be stepped into or walked upon.** In the event of a fall, Energy Saver FP cannot be relied upon to provide leading edge fall protection until the fabric and banding are replaced with new components.

* Do not place more than one (1) fastener through the banding.

BANDING CLIP DETAIL

1. When installing both the cross banding and longitudinal banding, insert the 1" white steel banding through the clip, leaving approximately 4" to 6" of extra banding (**Figure 2**).
2. Where the bands intersect the endwall rafters, drill the provided 1 ¼" TEK screw down through the clip, then through banding and into the building's endwall rafter (**Figure 3**).

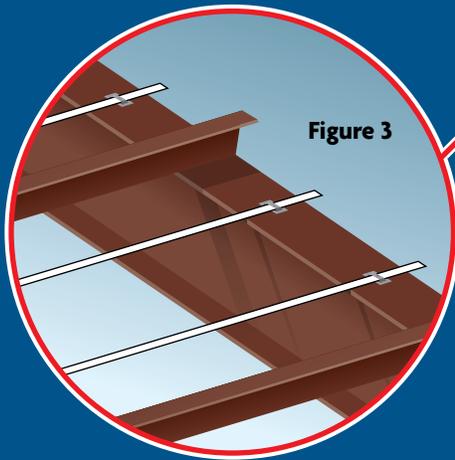


Figure 3

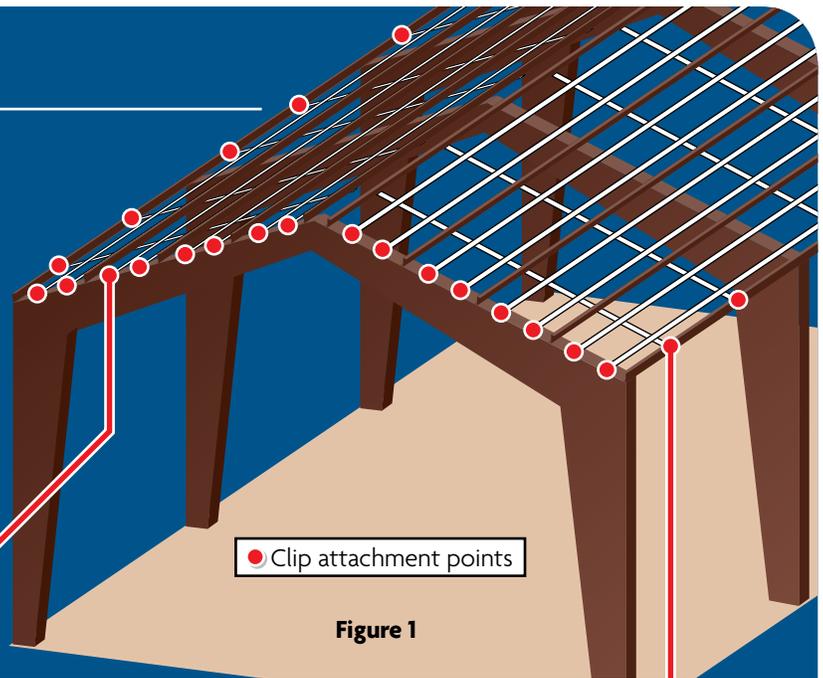


Figure 1

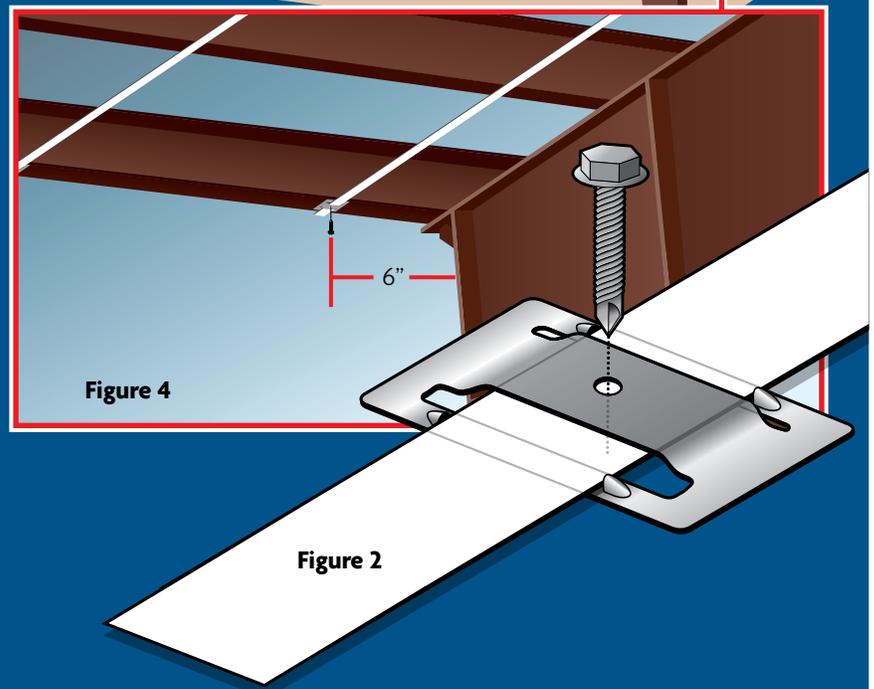


Figure 4

Figure 2

3. Where the bands intersect the eave struts, drill the provided ¾" TEK screw up through the clip, then through the banding and into the eave strut. Any cross band directly adjacent to a rafter must be spaced EXACTLY 6" from rafter edge. Remaining cross bands should be spaced on equal centers, no greater than 60" apart (**Figure 4**).

Note: Clips may be painted white to match the banding and underside of the Energy Saver FP™ System fabric if desired.

Note: The banding clip should be installed at the origination and termination point of each run of white galvanized steel banding around the perimeter of the building (**Figure 1**). The clips should be positioned so that the screw will first penetrate through the clip and then the banding using only one screw. Do not install

additional fasteners through clip or directly through banding. Each clip should be tightened as securely as possible, without stripping the threads. Longitudinal bands should be secured at endwall rafters only. Do not use fasteners to secure longitudinal bands to any interior rafters.



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