



The Banding System

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One of the most economical, High R Value (Low U Value) systems customarily used in metal building construction is the banding system. This is an easily installed, attractive system with very little hardware. The typical installation consists of white banding positioned to support two layers of blanket insulation. Very low installed U-values* can be achieved with this system.

The banding is installed using one of two alternatives. The most popular method is to position it perpendicular to the purlins and to fasten it on the bottom flange on approximately 30" centers. Some contractors prefer to position the banding parallel to the purlins and to support it with an occasional cross band.



We fabricate fiberglass insulation (usually R-19) to fit between each purlin space. This is then positioned parallel to the purlins and is supported by the banding. This insulation is laminated with a vapor retarder that is wide enough to provide 2-12 inch tabs (i.e., a 60" blanket would have an 84" vapor retarder). These tabs should be positioned up and over the purlins, such that a consistent vapor retarder is achieved when tabs from adjacent rolls overlap each other. Typically, an additional layer (usually R-10 or R-11) of unfaced fiberglass is installed above the faced lower layer and perpendicular to the purlins (between the roof sheets and purlins). If thermal spacer blocks are installed, the upper layer will occasionally be installed parallel to the purlins (i.e., directly on top of the faced layer).

We have developed accessory hardware that facilitates installation in Bar Joist applications as well as for extra tall purlins. In any installation, care must be taken to ensure that the entire purlin cavity is insulated to prevent condensation.

**Refer to FactsBack document number 10895 for information on U-Values, or dial 440-248-2500 (ext. 980) and request document 18880 for a complete list of all FactsBack documents.*

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