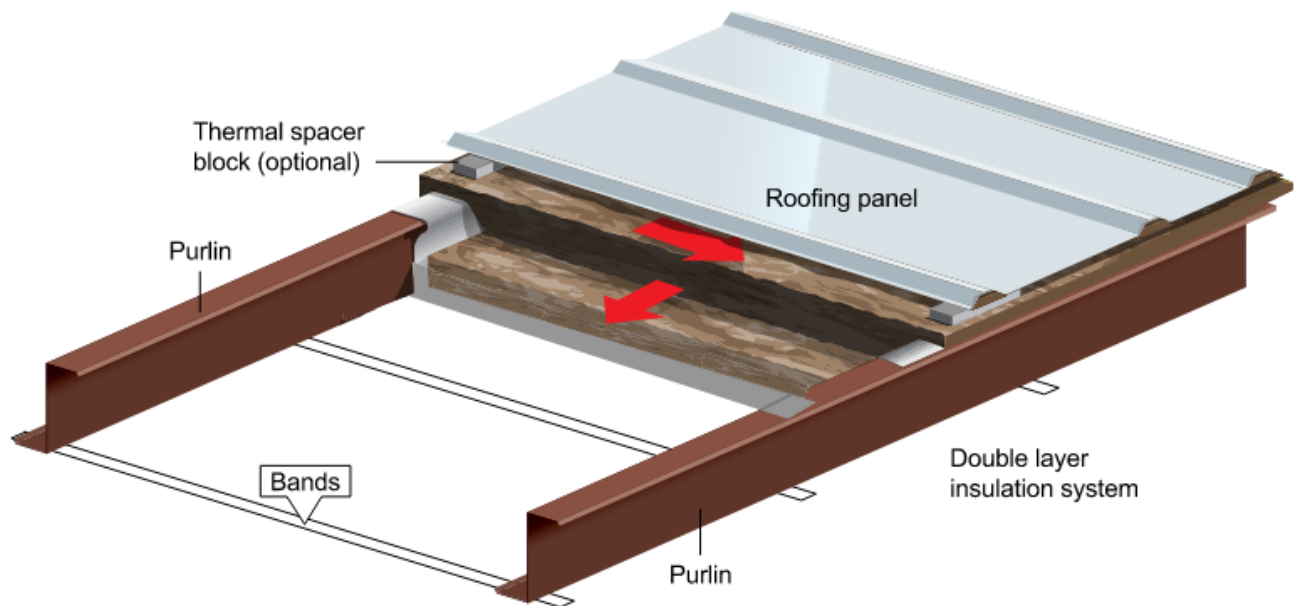


Long Tab Banded System

One of the most popular high R-value insulation systems used in Metal Building Construction is the Long Tab Banded System. This is an easily installed, attractive system which requires very little hardware. The typical purlin installation consists of white banding which is fastened to the bottom of the purlins in a steel building. This banding is used to support a layer of faced blanket insulation that is positioned parallel to the purlins. An additional layer of unfaced insulation is positioned above the purlins at the time the roof panels are being installed.



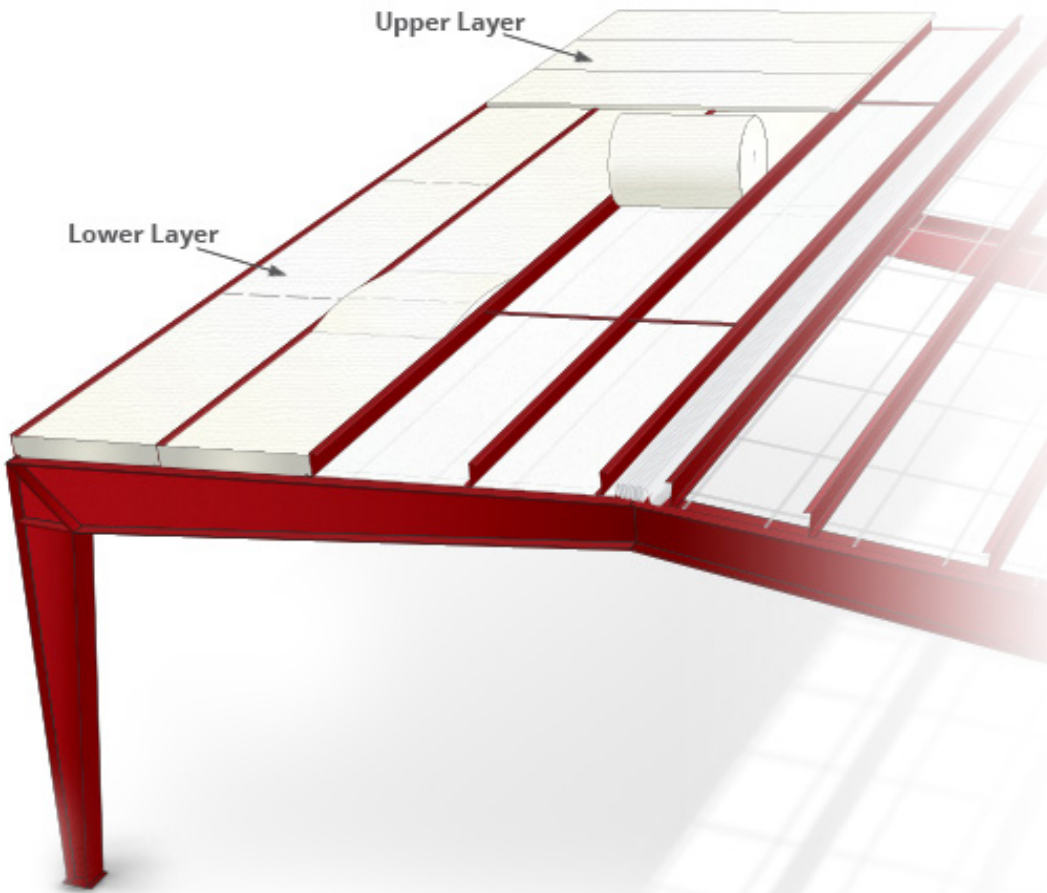
Long Tab Banded System Installation Instructions

- Step #1:** Install the 1" white steel banding to the bottom of the purlin flanges with self drilling TEK screws. The typical method is to install the banding perpendicular to the purlins 30" on center.
- Step #2:** Faced blanket insulation is specifically fabricated to fit between each pair of purlins and is typically produced in rolls that equal 1 bay length (plus 12" extra for stretching/handling). These rolls are unwound and positioned within the purlin space and are supported by the banding. It is important that the tabs (the facing material that is laminated to the lower fiberglass layer is wider than the glass – this extra material is called a "tab" or "tabs") are pulled up and over the purlins. These tabs should either be rolled and stapled together or sufficiently overlapped in order to achieve a consistent vapor retarder. If overlapped, place a small piece of tape (every few feet or so) on the tabs so they don't separate as the top layer of insulation is positioned.

Step #3: End to end connection of the rolls (above each frame line) can be achieved by peeling back a small amount of the fiberglass and then stapling the exposed facing from one roll to the next or by taping the ends of each roll to the top of the rafter (depending on the specific construction details). Some erectors prefer to run a TEK screw with a washer through the insulation into the rafter for additional support. A similar approach can be used at the ends of the buildings where the exposed facing should be taped to the rake angle.

Step #4: Position the unfaced fiberglass layer perpendicular to the purlins - on top of the tabs and faced insulation. Optional thermal blocks can be used where applicable. Once this step is complete, the roof panels can be installed above the insulation.

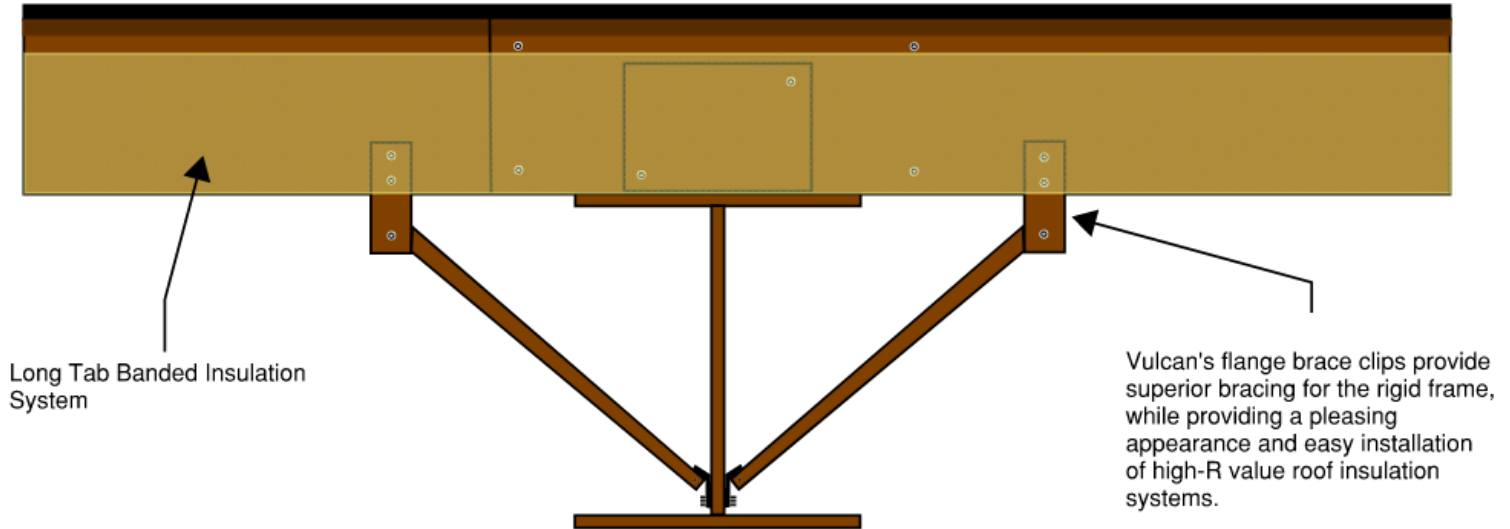
High R-Value Roof Insulation Systems



High R-Value Insulation Systems		
Pre-Installed R-Value	Lower Layer(s)	Upper Layer(s)
R-29	6"	3"
R-30	6"	3 1/2"
R-32	6"	4"
R-35	8"	3"
R-38	8"	4"
R-43	9"	4"
R-49	9"	6"

Vulcan's Flange Brace for Long Tab Banded Insulation Systems

No need to choose between strength and appearance - We provide both.



Vulcan's Flange Brace Clips (FBC) enhance High R-Value Insulation Systems by providing easy access to purlins or girts for flange brace connections. While others provide angle clips that attach to the inside flange of the secondary member, Vulcan provides the FBC as an additional component added to a standard flange brace, allowing direct attachment to the web of secondary members vertically. This design reduces strain on secondary members when compared to angle clips, and ensures a secure, efficient connection.

Vanessa Banks, P.E.
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Vulcan Steel Structures

