



TECHNICAL BULLETIN No. 1012

DATE: AUGUST 26, 2002

SUBJECT: MECHANICALLY FASTENED SINGLE PLY REQUIREMENT

There have been numerous studies conducted on various insulations used under Mechanically Fastened Single Ply Membranes. The primary aspect of these studies is the relationship of the fastener w/plates and the insulation.

The Single Ply Roofing Industries (SPRI) has considered these studies along with the history of mechanically fastened applications. The SPRI technical committee considers insulation with a compressive strength of 15 psi acceptable for applications directly under a mechanically fastened single ply membrane. The insulation product or system need not have a wood or gypsum cover board applied over the insulation. In applications where it is desired SPRI recognizes the use of lower compressive strength products provided a wood fiberboard or like cover board is utilized over the insulation.

Insulfoam has developed systems that are designed to meet the criteria that SPRI has recommended. For the recover roof application Insulfoam's Type VIII R-TECH is the product of choice. R-TECH is available in various thicknesses as both 4' x 8' sheets or as a fanfold. The R-TECH Type VIII has been tested at an independent laboratory to demonstrate that the typically tested compressive strength is in excess of 15 psi.

In addition to the recover applications Insulfoam has systems that are designed for new construction or where a roof is torn off down to the deck and completely replaced. Specifically designed for mechanically fastened membranes, Insulfoam utilizes our Type VIII flat or tapered EPS and covers it with our Secure-Ply. The Type VIII Insulfoam EPS with Secure-Ply system provides the desired 15 psi compressive stress while providing a cost effective Class A roof system.

Insulfoam also has numerous Class A assemblies that utilize our Type I Insulfoam EPS in conjunction with the SPRI recommended cover boards. Again these systems provide an excellent cost effective substrate for mechanically fastened applications.

Insulfoam's Type VIII R-TECH recover board, Type VIII w/ Secure-Ply and our traditional Type I with cover boards all maintain UL Class A approvals and are recognized by mechanically fastened single ply manufacturers.

Should there be any questions regarding Insulfoam EPS products and roofing contact you local Insulfoam representative or Insulfoam -Technical Center at 1-800-469-8870.

Insulfoam Technical Center

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