



TECHNICAL BULLITEN No. 1004

DATE: March 12, 2000, rev. October 10, 2013

SUBJECT: INSULFOAM EPS DIRECT-TO- DECK

InsulFoam® roof insulations are utilized in Direct to Deck applications where our insulation is placed directly over a steel deck without a thermal barrier under a variety of roof membrane systems Insulfoam and our industry worked with underwriters Laboratories to demonstrate the acceptability of this system through the use of full scale fire testing.

Section 2603.4.1.5 of the International Building Code as well as most state and city codes state:

A thermal barrier is not required for foam plastic insulation that is part of a Class A, B or C roof-covering assembly, provided the assembly with the foam plastic insulation satisfactorily passes FM 4450 or UL 1256.

InsulFoam participated in full scale UL 1256 testing which has promulgated a UL Construction Number 458 which indicates that the use of our Expanded Polystyrene Roof Insulations meet the requirements of UL 1256 when our product is placed directly to a metal deck without a thermal barrier. Within UL Construction 458 it states that the foam plastic must have a UL BRYX or UL TGFU listings. InsulFoam roof insulations have both listings in place.

UL Construction Number 458 allows for InsulFoam roof Insulations to be used in a single or multiple thicknesses flat or taper with many membrane systems. InsulFoam EPS may be used in thicknesses of 10 inches of InsulFoam I or equivalent loading with InsulFoam VIII, II and IX (i.e. 8 inches of InsulFoam VIII). Additional layers such as cover boards are optional; to achieve the desired Class A, B or C rating. These coverings can be field applied or factory laminated.

In summary, InsulFoam meets the International Building Code requirements for use in Direct to Steel Deck applications through the recognition of UL 1256 in Section 2603.1.4.5 of the IBC. InsulFoam EPS is recognized as meeting UL 1256 with the UL Construction Number 458. InsulFoam will provide a UL labeled roof insulation that maintains a UL Listing for both BRYX and TGFU categories.

The application of InsulFoam roof insulation systems in Direct-To-Deck applications provides for a safe, cost effective roof system. As always, questions pertaining to this application can be forwarded to your local Insulfoam representative or made to the Insulfoam Technical Center at 1/800-469-8870.

Insulfoam Technical Center

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