



The Use of Thermal Barriers in Insulated Roofing Systems

Rmax roofing insulations, Multi-Max® FA-3, Multi-Max®-3, Tapered Thermarroof®-3, Thermarroof® Plus-3, Thermarroof® Composite-3, Ultra-Max®, and RDECK®-3, when properly used over a steel or wood deck do not require the use of a thermal barrier. The International Building Code 2006 Section 2603 exempts the need for a thermal barrier when the foam plastic insulation is a part of a Class A, B, or C roof-covering assembly, provided the assembly with the foam plastic insulation satisfactorily passed FM 4450 or UL 1256. When using an assembly with a wood deck the code stipulates foam plastic insulation under a roof assembly or roof covering that is installed in accordance with the code and the manufacturer's instructions shall be separated from the interior of the building by wood structural panel sheathing not less than 0.47 inch (11.9 mm) in thickness bonded with exterior glue, with edges supported by blocking, tongue-and-groove joints or other approved type of edge support, or an equivalent material.

The above listed Rmax roofing insulations meet the requirements for Factory Mutual Global FM Standard 4450 for use as a Class 1 Roof Insulation. Use subject to conditions of approval according to description in the current Factory Mutual Global Roof Nav. This compliance statement, as well as the approved Factory Mutual Global logo, is printed on each bundle label of Rmax FM approved roofing insulation.

Rmax roofing insulations also comply with Underwriters Laboratories UL Standard 1256, Class A for Internal Flame. If UL labeling is required for compliance with a UL insured project, Rmax sales must be notified with the requirement prior to shipping.

In summary, based on the International Building Code 2006, the requirements for thermal barriers over steel or wood decks is waived or exempted. The thermal barrier is not required under Rmax's insulation products when used in FM 4450 or UL 1256 assemblies over steel decks. Wood decks not less than 0.47 inch and meeting the requirements of IBC Section 2603.4.1.5 Roofing are exempted from the thermal barrier requirement.

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