



Evaluation #

200906-1
(Replaces 200309-1)
File No.: 20090006

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2658
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Wisconsin Building Product Evaluation

Material

Core Foam Masonry Foam Insulation
and
InsulSmart Interior Foam Insulation

Manufacturer

cfiFOAM, Inc.
300 Letterman Road
Knoxville, TN 37919

SCOPE OF EVALUATION

The Core Foam Masonry Foam Insulation and InsulSmart Interior Foam Insulation manufactured by cfiFOAM, Inc. have been evaluated for use as a foamed-in-place insulation for brick and block cavities, concrete block cavities, pre-cast hollow core block and plank, and the cavities of frame construction in accordance with fire safety and thermal performance requirements of the Wisconsin Commercial Building Code and the Wisconsin Uniform Dwelling Code. A private label brand of the Core Foam Masonry Foam Insulation is Applegated C Foam. A private label brand of the InsulSmart Interior Foam Insulation is Applegate R Foam.

DESCRIPTION AND USE

Core Foam Masonry Foam Insulation is a "dry" resin foam-in-place insulation product designed for use in the cavities of multi-wythe masonry walls, the cores of concrete block walls and pre-cast hollow core plank.

InsulSmart Insulation is a 2-component foam product that is designed for use in enclosed cavities such as stud walls and cathedral ceilings.

TESTS AND RESULTS

Fire Safety: The Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products were evaluated in accordance with ASTM E 84. The Core Foam Masonry Foam Insulation has a Flame Spread Index of 25 and Smoke Developed Index of 200. The InsulSmart Interior Foam Insulation has a Flame Spread Index of 10 and Smoke Developed Index of 100. Both are Class A interior finishes.

Thermal Properties: The Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products were evaluated in accordance with ASTM C 518. The Core Foam Masonry Foam Insulation has a thermal resistance (R-Value) of 4.45 per inch. The InsulSmart Interior Foam Insulation has a thermal resistance (R-Value) of 4.63 per inch.

WISCONSIN COMMERCIAL BUILDING CODE

The materials were evaluated in accordance with the fire safety requirements of **IBC s. 2603.3** and the thermal transmission requirements of **s. Comm 63.0102(2)(b)1. and 2..**

WISCONSIN UNIFORM DWELLING CODE (UDC)

The materials were evaluated against the fire safety requirements of **s. s. Comm 21.11** and the thermal performance requirements of **Chapter Comm 22, Subchapter III, section Comm 22.20.**

LIMITATIONS OF APPROVAL WISCONSIN COMMERCIAL BUILDING CODE

Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products shall be installed by manufacturer trained installers or by those under the supervision of manufacturer trained installers in accordance with the manufacturer's recommendations.

Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products shall not be used to support compressive loads and shall not be used for flotation applications such as the filling of pontoons used to support piers or wharves.

The insulation products shall be separated from the building interior by a thermal barrier as required by **IBC s. 2603.4.**

The Wisconsin Building Product Evaluation Number must be provided when plans that include this product are submitted for review

LIMITATIONS OF APPROVAL UNIFORM DWELLING CODE

Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products shall be installed by manufacturer trained installers or by those under the supervision of manufacturer trained installers in accordance with the manufacturer's recommendations.

Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products shall not be used to support compressive loads and shall not be used for flotation applications such as the filling of pontoons used to support piers or wharves.

The insulation products shall be separated from the building interior by one of the thermal barriers as required by **s. Comm 21.11 (1)**.

The Core Foam Masonry Foam Insulation and the InsulSmart Interior Foam Insulation products used to satisfy the thermal envelope requirements of a dwelling will be subject to the requirements of **Chapter Comm 22, Subchapters III and IV**.

The Wisconsin Building Product Evaluation Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is not endorsing or advertising this product. This evaluation addresses only the specified applications for the product and does not waive or modify any code requirement not specified in this document.

EXPIRATION

This evaluation will be valid through December 31, 2016, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department.

Reviewed by: James B. Smith, P.E.
Program Manager

Approval
Date: March 15, 2011

By: James B. Smith, P.E.
Program Manager