



Evaluation #

200909-1
(Replaces 200302-1)
FN #20099009

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2658
Madison, WI 53701-2658

Wisconsin Building Product Evaluation

Material

Walk-In Coolers/Freezers
KOLD LOCKER™, FAST-TRAK® and FINELINE™

Manufacturer

NOR-LAKE Incorporated
727 Second Street
Hudson, WI 54016

SCOPE OF EVALUATION

The foam plastic sandwich panels manufactured by NOR-LAKE, Incorporated have been evaluated for use as nonstructural panels used in the manufacture of walk-in coolers, freezers, combination cooler/freezers and refrigerated facilities (trade names KOLD LOCKER™, FAST-TRAK® and FINELINE™). The panels were reviewed for compliance with the surface burning characteristics in accordance with **IBC section 2603.3** and the self ignition characteristics in accordance with **IBC section 1407.11.2.1** of the **Wisconsin Commercial Building Code**.

DESCRIPTION AND USE

The NOR-LAKE Incorporated foam plastic sandwich panels are used in the manufacture of walk-in coolers, freezers, combination cooler/freezers and refrigerated facilities (trade names KOLD LOCKER™, FAST-TRAK® and FINELINE™). The units come in outdoor or indoor models, with sizes varying based on model. The cooler/freezer panel surfaces are 26 gauge, corrosion resistant stucco embossed coated steel. The panels used in the construction of the KOLD LOCKER™ and

FAST-TRAK[®] walk-in cooler/freezers consist of 4-inch thick foamed-in-place HFC-13A polyurethane insulation. The panels used in the construction of the FINELINE[™] walk-in cooler/freezers consist of 4-inch or 5-inch thick foamed-in-place HFC-13A polyurethane insulation. On models supplied with floors, the floor panels are similar in manufacture to the other panels except a smooth aluminum interior floor surface is provided. Floor-less models are supplied with NSF listed vinyl sealers.

TESTS AND RESULTS

The foam plastic material used in the manufacture of the NOR-LAKE Incorporated foam plastic sandwich panels was evaluated under the foam plastic requirements in accordance with **IBC section 2603.3**.

Factory Mutual Research conducted a test in accordance with **ASTM E84** on the polyurethane cores (Foam Enterprise's FE 245/FE 800 foam system). The foam plastic core has a Flame Spread Index of 25 and a Smoke Developed Index of 140.

The NOR-LAKE Incorporated foam plastic sandwich panels were evaluated under the metal composite material (MCM) requirements in accordance with **IBC section 1407.11.2.1**.

Southwest Research Institute conducted an **ASTM D1929** test for flash ignition and self-ignition temperatures test on the polyurethane cores (Foam Enterprise's FE 245/FE 800 foam system): flash ignition 705° F (374° C) and self-ignition 851° F (455° C).

WISCONSIN COMMERCIAL BUILDING CODE

The foam plastic sandwich panels meet the flame spread and smoke developed requirements of **IBC section 2603.3**.

The foam plastic sandwich panels meet the self-ignition limits specified in **IBC section 1407.2.11.2.1**.

LIMITATIONS OF APPROVAL WISCONSIN COMMERCIAL BUILDING CODE

The panels must be installed in accordance with the manufacturers publicized installation instructions and the Wisconsin Commercial Building Code. A copy of the manufacturers instructions must be available at the job site.

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 approval addresses only the specified applications for the product and does not waive or modify any code requirement not specified in this document.

EXPIRATION

This approval 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: JBS.

Approval Date: May 17, 2011 By: James B. Smith, P.E.
Program Manager
Bureau of Program Development