



Evaluation #

200621-I

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

Wisconsin Building Products Evaluation

Material

Insulated Cooler and Freezer Panels
For Walk-Ins

Manufacturer

Iowa Coolers & Equipment Inc.
P.O. Box 132
Westside, IA 51467

SCOPE OF EVALUATION

GENERAL: This report evaluates the use of foam plastic material in walk-in coolers and freezers, manufactured by Iowa Coolers & Equipment Inc.

The **IBC** requirements below in accordance with the current **Wisconsin Amended ICC Code**:

- **Foamed-in-place Urethane Core:** The Iowa Cooler foam plastic sandwich panel was evaluated under the foam plastic requirements in accordance with **ss. IBC 2603.1, 2603.2, 2603.3 Exception 4., 2603.4.1.3, and 2603.5.2.**
- **Wall and Ceiling Panel:** The Iowa Cooler foam plastic sandwich panel was evaluated as an insulated wall and ceiling panel used in walk-in coolers and freezers in accordance with **ss. IBC 2603.4.1.2, 2603.4.1.3, and 2603.5.2.**

The structural performance and thermal transmission properties of the panels are outside the scope of this evaluation and are subject to specific evaluation and approval by the building plan reviewer.

DESCRIPTION AND USE

Walls: Iowa Coolers walk-in cooler wall panels have a “K” factor of .034 for 3.5-inch panels and .023 for 5.5-inch panels. They feature 26 ga. Stucco embossed galvanized steel interiors and exteriors nailed to a wood tongue-in-groove foam retainer separated by rigid, foamed-in-place urethane insulation.

Floors: Insulated floor panels are built like the wall panels but with 22 ga. Stainless steel and can withstand 1,000 lbs./sq. ft. when evenly distributed. When no insulated floor is required, a covered vinyl screed, exterior grade wood screed or metal angle bracket is provided as a plate to align the wall panels.

Fasteners & Hardware: All panels are joined together with a cam-action locking fastener operated with a hex wrench provided with each walk-in cooler. Included vinyl press-fit caps provide a clean finish. Standard ceiling panels are attached using lag screws or optional cam locks.

TESTS AND RESULTS

Testing on 3-1/2 inch thick wood-framed panels 24 inch wide by 24 inch long was conducted in accordance with the Underwriter’s Laboratories Standard UL 723 (ASTM E84). The 3-1/2 inch thick wood edged panels had foam plastic core material, at a nominal density of 1.5 lb./ft³ surfaced with 26 gauge (0.0179-inch) steel facers. Steel or plastic plug buttons are provided by the manufacturer to be insert into the cam-lock access holes after assembly.

SURFACE BURNING CHARACTERISTICS

	Core Material	3-1/2 to 5-1/2 inch Thick Painted or Unpainted Steel Finished Panel	3-1/2 to 5-1/2 inch Thick Painted or Unpainted Aluminum Finished Panel
Flame Spread	25	20	15
Smoke Developed	300	300	65

Test data is on file with the department.

LIMITATIONS OF APPROVAL

The **IBC** limitations below are in accordance with the current **Wisconsin Amended ICC Code:**

- **Foamed-in-place Urethane Core:** The Iowa Cooler foam plastic sandwich panel shall be installed in accordance with the requirements of ss. **IBC 2603.1, 2603.2, 2603.3 Exception 4., 2603.4.1.3, and 2603.5.2.**
- **Wall and Ceiling Panel:** The Iowa Cooler foam plastic sandwich insulated wall and ceiling panel used in walk-in coolers and freezers shall be installed in accordance with ss. **IBC 2603.4.1.2, 2603.4.1.3, and 2603.5.2.**

This approval will be valid through December 31, 2011, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The product approval is applicable to projects approved under the current edition of the applicable codes. This approval may be void for project approvals made under future applicable editions. The Wisconsin Building Product Evaluation number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement not specified in this document.

Revision Date:

Approval Date: January 22, 2007 By: _____

Lee E. Finley, Jr.
 Product & Material Review
 Integrated Services Bureau