



Technical Product Data

INSTA-PANELS™

Polyurethane Faced Board Insulation

DESCRIPTION

INSTA-PANELS™ are insulated R-11 foam panels made of rigid polyurethane foam, covered in steel or fiberglass on both sides. INSTA-PANELS™ are designed to be used as an affordable and durable slab insulation and have all the benefits of regular sprayed-on polyurethane foam but in a portable solution. Panels measure 1 3/4" thick and weigh 1.99 lb/ft².

INSTA-PANELS™ are available in multiple dimensions; the most common are:

- 20 x 64 inches – Smooth (total area 8.9 ft² / panel) CCMC #14016-R
- 22 x 64 inches – Smooth (total area 9.78ft² /panel) CCMC #14016-R
- 22 x 36 inches – Embossed (total area 5.50ft² /panel) **Not CCMC evaluated**
- 20 x 80 inches - Smooth (Total Area 11.11 ft² / panel) CCMC #14016-R
- 22 x 80 inches - Smooth (Total Area 12.22 ft² / panel) CCMC #14016-R

USES

Intended for residential, commercial, and agricultural applications where insulation is required or desired, under concrete, in radiant or non-heated floor systems. INSTA-PANELS™ can be used in a variety of applications including: under concrete floors of houses; garages; commercial workshops; warehouses; office buildings; cold storage and freezers; agricultural drive sheds; poultry barns; and other specialized applications.

FEATURES & BENEFITS

- **High R-value for minimal thickness** – rated at R11, INSTA-PANELS™ offer among the best R-value to cost ratio creating optimum energy efficiency, improved indoor air quality, and affordability.
- **Easy and efficient to install** – INSTA-PANELS™ offer the same benefits as polyurethane spray foam, in a convenient, portable panel format that fits together quickly and easily.
- **Durable** – rectangular panels are steel plated on both sides for ultimate strength and durability. Unlike traditional foam insulation, INSTA-PANELS™ will not break when walked on.
- **Best value on the market** – in a recent CMHC research study, INSTA-PANELS™ were found to have the best cost-benefit value of all comparable materials tested.
- **Eco-friendly** – INSTA-PANELS™ are made from recycled and reclaimed products.

APPROVALS AND CREDENTIALS*

- Conforms to **CAN/ULC-S704-03**, "Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced." as referenced in the National Building Code of Canada and provincial codes.
- INSTA-PANELS™ have been evaluated by the National Research Council's Institute for Research in Construction (IRC) through the Canadian Construction Materials Centre (CCMC) and have been issued a CCMC evaluation listing number. A third party evaluation has confirmed that INSTA-PANELS™ adhere to the requirements set forth in section 9.25.2.2 of the Ontario Building Code as an under slab insulation.

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TYPICAL PHYSICAL PROPERTIES*

The following test data is from an independent laboratory and is in compliance with the product standard.

Property	Value Metric (Imperial)	Test Method
Density (core)	30.9 kg/m ³ (1.93lb/ft ³)	ASTM D1622
Compressive strength kPa	152 kPa (22.1 psi)	ASTM D1621
Water absorption	0.37% by volume	ASTM D2842
Water vapour permeance	3 ng/Pa·s·m ²	ASTM E96

*These physical property values are typical for this material as applied at our development facility under controlled conditions.

LONG-TERM THERMAL RESISTANCE*

Test method: ASTM C518-10

Thickness mm (inches)	R-value ft ² ·hr·°F / BTU	RSI m ² ·K/W
43 (1.69)	11.4	2.0

*The Long-Term Thermal Resistance values are the design value used for INSTA-PANELS™ as per CAN/ULC-S704-03.

HEALTH, SAFETY, AND HANDLING CONSIDERATIONS

WARNING: INSTA-PANELS™ are not intended to be used as structural panels. Proper safety equipment needs to be employed while handling polyurethane faced board insulation. Goggles, a face mask, and protective body wear should be worn when cutting and handling INSTA-PANELS™. Product has sharp edges/corners and protective gloves should be worn when handling. Always stack and store panels in a safe manner to prevent piled product from toppling over. It is recommended that panels are piled neatly one on top of the other and are not stacked higher than 5 feet.

PACKAGING

INSTA-PANELS™ are sold to the DIY (do-it-yourself) market and licensed contractors in bulk, on skids.

TECHNICAL ASSISTANCE

For more detailed information please contact Alex Schuts at alex@instainsulation.com

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