

ISOFIX 160

1 | Product Name

ISOFIX 160

2 | Manufacturer

ISOFIX 160 is manufactured by Isofoam Group, a premier manufacturer of insulation products for over 40 years.

Isofoam Group

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3 | Product Description

ISOFIX 160 is a rigid insulation panel of expanded polystyrene.

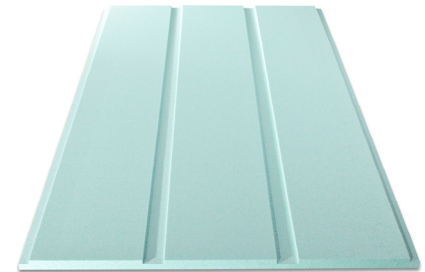
4 | Dimensions

Dimensions	Thicknesses	R Value (RSI)
4' x 8' Grooved* at 16" Butt edge	1 1/4"	5.05 (0.89)
	1 7/8"	7.55 (1.33)
	2 1/2"	10.1 (1.77)
	3 3/4"	15.1 (2.66)

*The grooves have a dimension of 5/8" thickness by 2 5/8" wide (for 1" x 3" wood furrings).

Also available: other thicknesses; type 1.

Contact us for more informations.



5 | Applications

Versatile insulation panel

- **ISOFIX 160** is suitable for various applications such as:
 - On concrete slab insulation,
 - Interior foundation walls insulation,
 - Floor/ceiling insulation,
 - Cathedral roof insulation.
- Ideal for residential, commercial, industrial and institutional applications, both new construction and retrofits.
- The grooves of **ISOFIX 160** panels allow the complete insertion of 1" x 3" wood furrings. No space between insulation and interior finishing.
- **ISOFIX 160** panels ensure quality construction and ongoing energy savings.

6 | Environmental Data

Containing approximately 98% air and only 2% of plastics, **ISOFIX 160** presents lower risks of toxicity than those from conventional building materials and it does not and has never contained HCFCs or HFCs that damage the ozone layer.

The product **ISOFIX 160** has been certified to meet the third-party chemical emissions standards for **UL-GREENGUARD** and **UL-GREENGUARD Gold** Certifications (UL.COM/GG).

Isofoam Group products contribute to obtaining LEED® credits (see table 1).

For complete details of the potential contributions of the product for a LEED® Canada-NC-CS 2009 or a LEED® Canada for Homes 2009 project, contact us or fill out the form on our website.

Table 1. Contribution of **ISOFIX 160** insulation to LEED® Canada-NC 2009, LEED® Canada-CS 2009 certification.

Categories	LEED® Canada NC & CS 2009
SS Sustainable Sites	28 points for LEED® Canada-NC 2009
WE Water Efficiency	
EA Energy and Atmosphere	
MR Materials and Resources	
EQ Indoor Environmental Quality	
IDP Innovation & Design Process	30 points for LEED® Canada-CS 2009
RP Regional Priority	

7 | Warranty

ISOFIX 160 meets the standards and requirements:

- CAN/ULC-S701, Type 2
- **CCMC # 12895-L**
- Product certified for low chemical emissions: **GREENGUARD - UL 2818** and **GREENGUARD Gold - UL 2818**.

9 | Advantages & Benefits

Superior insulation

- Maintains its insulation value over years.
- High compressive strength.
- The groove design of **ISOFIX 160** panels allows to save a maximum of space when installing furrings.
- **ISOFIX 160** allows to meet the highest insulation requirements.

Water Absorption Effect

- Expanded polystyrene is often used for applications such as floating docks or lightweight fill because of its stability and durability properties and its tolerance to humidity and mould, as a result of its closed-cell uniform structure.
- No risk to the water table, microorganisms or small animals, as the product is biologically neutral.

10 | Installation

ISOFIX 160 is easy to handle and install. It can be cut with a utility knife.

11 | Maintenance

No maintenance is required after **ISOFIX 160** panels are properly installed.

8 | Technical Data

Table 2. Physical Properties of ISOFIX 160

PROPERTIES	METHODS	UNITS	ISOFIX 160
THERMAL RESISTANCE	ASTM C-518	m ² •°C/W/25 mm (°F•ft ² •h/Btu/in)	0.71 (4.05)
COMPRESSIVE STRENGTH MIN.	ASTM D-1621	kPa (psi)	110 (16)
FLEXURAL STRENGTH MIN.	ASTM C-203	kPa (psi)	240 (35)
WATER VAPOR TRANSMISSION MAX.	ASTM E-96	ng/Pa•s•m ² (perms)	200 (3.5)
WATER ABSORPTION MAX.	ASTM D-2842	%	4
DIMENSIONAL STABILITY	ASTM D-2126	%	0.5
COEFFICIENT OF THERMAL EXPANSION	ASTM D-696	mm/mm/°C (in/in/°F)	6 X 10⁻⁵ (3.5 X 10⁻⁵)
	CONTINUOUS	°C (°F)	75 (167)
EFFECTIVE TEMPERATURE RANGE MAX.	INTERMITTENT	°C (°F)	82 (180)
	FLAME SPREAD	CAN/ULC S102.2M	240

The Material Safety Data Sheet of Isofoam Group products is available on the website.

12 | Technical Services

Our experts will be pleased to answer your questions regarding application and installation of our products.

13 | Availability & Cost

Availability: Throughout eastern Canada.
Cost: Current price list available on request.

14 | Limitations

Combustible if exposed to an open flame or other substantial and sustained source of combustion. Inside, **ISOFIX 160** should be covered with a 1/2" (12.7 mm) gypsum board or one of the other finishes as specified in the effective building code. Avoid contact with petroleum-based solvents or their vapours. Avoid prolonged exposure to direct sunlight.

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