

**1 | Product Name**

**ISOLOFOAM HD 160**

**2 | Manufacturer**

**ISOLOFOAM HD 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**

**ISOLOFOAM HD 160** is a rigid insulation panel of high density expanded polystyrene.

**4 | Dimensions**

Dimensions	Thicknesses	R Value (RSI)
2' x 8' Shiplapped 4 sides 	1"	4.05 (0.71)
	1 1/4"	5.05 (0.89)
	1 7/8"	7.55 (1.33)
	2 1/2"	10.1 (1.77)

**Also available:** other thicknesses; 4' x 8' and / or butt edge or shiplapped 2 sides.

Contact us for more informations.

**5 | Applications**

**Versatile insulation panel ideal for interior and exterior uses**

- **ISOLOFOAM HD 160** is suitable for various applications such as:
  - Interior and exterior insulation for walls and foundations
  - On and under concrete slab insulation
  - Ceiling insulation
  - Cathedral roof insulation
- Ideal for residential, commercial, industrial and institutional applications, both new construction and retrofits.

**6 | Environmental Data**

Containing approximately 98% air and only 2% of plastics, **ISOLOFOAM HD 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 **ISOLOFOAM HD 160** has been certified to meet the third-party chemical emissions standards for **UL-GREENGUARD** and **UL-GREENGUARD Gold** Certifications ([UL.COM/GG](http://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 **ISOLOFOAM HD 160** insulation to LEED® Canada-NC 2009, LEED® Canada-CS 2009 certification.

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

### 7 | Warranty

**ISOLOFOAM HD 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 physical properties even in contact with ground.
- Its high compressive strength allows uses under concrete slab.
- Maintains its insulation value over years.
- **ISOLOFOAM HD 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

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

Refer to Master Specifications available on the website for more information.

### 8 | Technical Data

Table 2. Physical Properties of **ISOLOFOAM HD 160**

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

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

### 11 | Maintenance

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

### 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, **ISOLOFOAM HD 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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