

# ISOFOIL

### 1 | Product Name

**ISOFOIL**

### 2 | Manufacturer

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

#### Isofoam Group

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### 3 | Product Description

**ISOFOIL** is a rigid insulation panel of expanded polystyrene laminated with an aluminium vapour barrier membrane.

### 4 | Dimensions

Dimensions	Thicknesses	R Value (RSI)
4' x 8' Shiplapped 2 sides	2"	11* (1.94)*
	3"	15.5* (2.73)*

**Also available:** other dimensions.

\* Thermal resistance in a wall system, according to installation recommendations.

Contact us for more informations.

### 5 | Applications

**Insulation for interior foundation walls**

- **ISOFOIL** is a rigid insulation panel of expanded polystyrene laminated with an reflective aluminium vapour barrier membrane.
- Ideal for residential, commercial, industrial and institutional buildings.
- Both new construction and retrofit.
- **ISOFOIL** creates a barrier that prevents water vapour and moisture from inside to pass through the insulation to the cold concrete.
- No need to add another vapour barrier membrane.
- During residential construction, this product is installed directly over concrete, vertically or horizontally, throughout the height of the interior foundation.



### 6 | Environmental Data

Containing 98% air and only 2% of plastics, **ISOFOIL** 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.

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 **ISOFOIL** insulation to LEED® Canada-NC 2009, LEED® Canada-CS 2009 certification.

Categories	LEED® Canada NC & CS 2009
<b>SS</b> Sustainable Sites	<b>30 points for LEED® Canada-NC 2009</b>  <b>&amp;</b> <b>32 points for LEED® Canada-CS 2009</b>
<b>WE</b> Water Efficiency	
<b>EA</b> Energy and Atmosphere	
<b>MR</b> Materials and Resources	
<b>EQ</b> Indoor Environmental Quality	
<b>IDP</b> Innovation & Design Process	
<b>RP</b> Regional Priority	

### 7 | Warranty

**ISOFOIL** meets the standards and requirements of:

- CAN/ULC-S701
- **CCMC # 13459-R**
- EcoLogo Certified to Thermal Insulation Material CCD-016

### 9 | Avantages & Benefits

#### Superior insulation

- With its reflective vapour barrier membrane, **ISOFOIL** creates a barrier that prevents water vapour and moisture from inside to pass through the insulation to the cold concrete which would result in condensation and unfortunately cause an appropriate environment for mould growth.
- Keeps the walls dry and increase the effectiveness of insulation.
- Stable and permanent insulating values.
- The performance of the different **ISOFOIL** wall assemblies complies with the effective Quebec's building code (August 30<sup>th</sup>, 2012).\*

#### Reflect heat

- The reflective effect of its unique aluminum vapour barrier transfers heat generated by energy sources such as lighting. Therefore, heating requirements are reduced.

#### Easy Installation

- Easy handling and installation.
- No need to add another vapour barrier membrane.
- **ISOFOIL** insulation panels provide a resistant product that is less susceptible to handling damage.

### 8 | Technical Data

**Table 2. Physical Properties of ISOFOIL**

PROPERTIES	METHODS	UNITS	ISOFOIL
<b>THERMAL RESISTANCE</b>	ASTM C-1363	m <sup>2</sup> •°C/W/25 mm (°F•ft <sup>2</sup> •h/Btu/in)	See dimensions' table on page 1
<b>COMPRESSIVE STRENGTH MIN.</b>	ASTM D-1621	kPa (psi)	<b>70</b> <b>(10)</b>
<b>FLEXURAL STRENGTH MIN.</b>	ASTM C-203	kPa (psi)	<b>170</b> <b>(25)</b>
<b>WATER VAPOR TRANSMISSION</b>	ASTM E-96	ng/Pa•s•m <sup>2</sup> (perms)	<b>4.23</b> <b>(0.07)</b>
<b>WATER ABSORPTION MAX.</b>	ASTM D-2842	%	<b>6</b>
<b>DIMENSIONAL STABILITY MAX.</b>	ASTM D-2126	%	<b>0.5</b>
<b>COEFFICIENT OF THERMAL EXPANSION</b>	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>
<b>EFFECTIVE TEMPERATURE RANGE</b>	CONTINUOUS	°C (°F)	<b>75</b> <b>(167)</b>
	INTERMITENT	°C (°F)	<b>82</b> <b>(180)</b>
<b>FLAME SPREAD</b>	CAN/ULC S102.2M	-	<b>240</b>

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

### 10 | Installation

**ISOFOIL** 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.

### 11 | Maintenance

No maintenance is required after **ISOFOIL** 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. Avoid contact with petroleum-based solvents or their vapours. Avoid prolonged exposure to direct sunlight.

\* Thermal resistance in a wall system according to installation recommendations.

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