

1 | Product Name

ISOLOFOAM TYPE 1

2 | Manufacturer

ISOLOFOAM TYPE 1 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 TYPE 1 is a rigid insulation panel of expanded polystyrene.

4 | Dimensions

Dimensions	Thicknesses	R Value (RSI)
2' x 8' Siplapped 2 sides 	1"	3.75 (0.66)
	1 1/2"	5.6 (0.99)
	2"	7.5 (1.32)

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



5 | Applications

Versatile insulation panel ideal for interior and exterior uses

- **ISOLOFOAM TYPE 1** 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.
- **ISOLOFOAM TYPE 1** has the lowest cost per R-value for rigid insulation.

6 | Environmental Data

Containing approximately 98% air and only 2% of plastic, **ISOLOFOAM TYPE 1** presents risks of toxicity lower 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 TYPE 1** 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 **ISOLOFOAM TYPE 1** insulation to LEED® Canada-NC 2009, LEED® Canada-CS 2009 certification.

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

Contact us for more informations.

7 | Warranty

ISOLOFOAM TYPE 1 meets the standards and requirements:

- CAN/ULC-S701, Type 1
- **CCMC # 12894-L**
- Product certified for low chemical emissions: **GREENGUARD - UL 2818** and **GREENGUARD Gold - UL 2818**.

9 | Advantages & Benefits

Superior insulation

- Increase the energy efficiency of buildings at a minimum cost.
- Maintains its physical properties even in contact with ground.
- It's good compressive strength allows uses under concrete slab.
- Maintains its insulation value over years.
- **ISOLOFOAM TYPE 1** 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 TYPE 1 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 TYPE 1**

PROPERTIES	METHODS	UNITS	ISOLOFOAM TYPE 1
THERMAL RESISTANCE	ASTM C-518	m ² •°C/W/25 mm (°F•ft ² •h/Btu/in)	0.66 (3.75)
COMPRESSIVE STRENGTH MIN.	ASTM D-1621	kPa (psi)	70 (10)
FLEXURAL STRENGTH MIN.	ASTM C-203	kPa (psi)	170 (25)
WATER VAPOR TRANSMISSION MAX.	ASTM E-96	ng/Pa•s•m ² (perms)	300 (5.3)
WATER ABSORPTION MAX.	ASTM D-2842	%	6
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.	INTERMITENT	°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.

11 | Maintenance

No maintenance is required after **ISOLOFOAM TYPE 1** 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 TYPE 1** 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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