

1 | Product Name

ISO R PLUS premium

2 | Manufacturer

ISO R PLUS premium is manufactured by Isofoam Group, a premier manufacturer of insulation products for over 40 years.

Isofoam Group

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3 | Product Description

ISO R PLUS premium is a rigid insulation panel made of expanded polystyrene with graphite particles (NEOPOR[®] by BASF-SE) with a laminated reflective vapour barrier membrane.

4 | Dimensions

Dimensions	Thicknesses	R Value (RSI)
48" x 97 1/4" Butt edge	1/2"	2.3 (0.40)
	3/4"	3.45 (0.61)
	1"	4.6 (0.81)

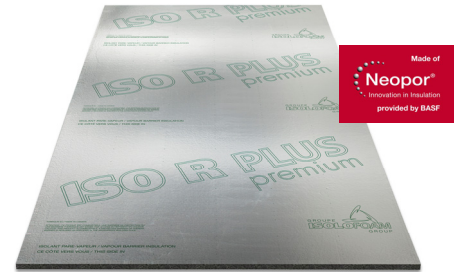
Also available : 48" x 109 1/4", other thicknesses.

Contact us for more information.

5 | Applications

Interior insulation for walls and ceilings

- **ISO R PLUS premium** is a rigid insulation panel made of Neopor[®] with a laminated membrane reflecting radiant energy.
- Ideal for residential, commercial, industrial and institutional buildings.
- Both new construction and retrofit.
- The product can be used as part of an air-barrier system that complies with CNB 2005.
- **ISO R PLUS premium** reduces heat loss and reflects radiant energy to improve indoor comfort.
- To ensure continuity of the vapour barrier, joints must be sealed with a reflective waterproofing membrane.
- No need to add another vapour barrier membrane.



6 | Environmental Data

Containing 98% air and only 2% of plastics, **ISO R PLUS premium** 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 **ISO R PLUS premium** 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 **ISO R PLUS premium** 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	30 points for LEED[®] Canada-NC 2009
MR Materials and Resources	
EQ Indoor Environmental Quality	& 32 points for LEED[®] Canada-CS 2009
IDP Innovation & Design Process	
RP Regional Priority	

7 | Warranty

ISO R PLUS premium meets the standards and requirements of:

- 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

- Made of expanded polystyrene with graphite particles (NEOPOR®, BASF-SE), **ISO R PLUS premium** offers a greater insulation value for a thickness equivalent to a traditional expanded polystyrene product.
- Vapour barrier : creates a barrier that prevents water vapour and moisture from inside to pass through the insulation to the wall structure which would result in an appropriate environment for mould growth.
- Air-barrier : **ISO R PLUS premium**, contribute to maximizing the energy efficiency of the wall by sealing your home against air infiltrations.
- Stable and permanent insulating values.
- **ISO R PLUS premium** allows to meet the highest insulation requirements.

Reflect heat

- The membrane of **ISO R PLUS premium** reflects 95% of radiant energy, thereby transferring heat generated by energy sources such as lighting, increasing insulation performance for better comfort and energy savings.

Easy Installation

- Easy handling and installation.
- Lightweight : Reduces pain or injuries caused by heavy materials handling (3.5 lb/panel of 3/4").
- Flexible, it facilitates the passage of electrical wires.
- Its optimal dimensions reduces labour time, joints and waste.
- No cutting dust.

8 | Technical Data

Table 2. Physical Properties of ISO R PLUS premium

PROPERTIES	METHODS	UNITS	ISO R PLUS premium
THERMAL RESISTANCE MIN.	ASTM C-518	m ² ·°C/W/25 mm (*°F·ft ² ·h/Btu/in)	See dimensions' table on page 1
COMPRESSIVE STRENGTH MIN.	ASTM D-1621	kPa (psi)	124 (18)
FLEXURAL STRENGTH MIN.	ASTM C-203	kPa (psi)	240 (35)
WATER VAPOUR TRANSMISSION	ASTM E-96	ng/Pa·s·m ² (perms)	1 (0.017)
WATER ABSORPTION MAX.	ASTM D-2842	%	3
DIMENSIONAL STABILITY MAX.	ASTM D-2126	%	1.5
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	- 230
VAPOUR BARRIER EMISSIVITY	ASTM C-1371	-	0.05

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

10 | Installation

ISO R PLUS premium 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 **ISO R PLUS premium** 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.

Follow the specifications of storage specified on the packages.

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