

1 | Product Name

iFLEXFOAM 160
iFLEXFOAM 200
iFLEXFOAM 300

2 | Manufacturer

iFLEXFOAM panels are manufactured by Isofoam Group, a premier manufacturer of insulation products for over 40 years.

Isofoam Group

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3 | Product Description

Patent pending, **iFLEXFOAM** panels are made of high-density expanded polystyrene with a laminated polypropylene membrane on each side. The bottom membrane is micro-perforated.

The panels integrate a four-sided unique design clipping system named **ISOCLICK**.

4 | Dimensions

Dimensions	Thicknesses	R Value (RSI)
iFLEXFOAM 160		
48" x 96" IC4	1 1/4"	5.05 (0.89)
	1 7/8"	7.55 (1.33)
	2 1/2"	10.1 (1.77)

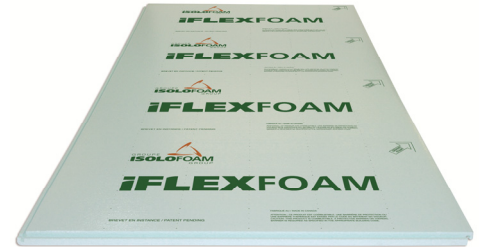
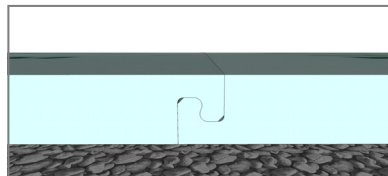
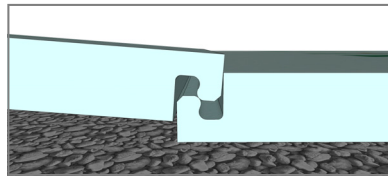
Dimensions	Thicknesses	R Value (RSI)	R Value (RSI)
iFLEXFOAM 200 iFLEXFOAM 300			
48" x 96" IC4	1.2"	5 (0.88)	5.1 (0.90)
	1.8"	7.55 (1.33)	7.65 (1.35)
	2.4"	10 (1.76)	10.2 (1.80)

IC4 : **ISOCLICK** 4 sides

5 | Applications

Below grade insulation

- **iFLEXFOAM** panels are mainly suitable for residential or light commercial applications such as:
 - Basement under slab insulation.
 - Garage under slab insulation.
- Panels can be used for heated slab insulation.
- Ensures a high performance insulation under a concrete slab.
- The unique design of the **ISOCLICK** clipping system ensures continuity of insulation.



6 | Environmental Data

Containing between 95% and 98% air and only 2% to 5% of plastics, **iFLEXFOAM** panels present 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 **iFLEXFOAM** 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 **iFLEXFOAM** 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	

Contact us for more information.

7 | Warranty

iFLEXFOAM panels meet the standards and requirements:

- CAN/ULC-S701
Type 2 (**iFLEXFOAM 160**)
Type 3 (**iFLEXFOAM 200 | 300**)
- **CCMC # 12895-L (iFLEXFOAM 160)**
- **CCMC # 13638-L (iFLEXFOAM 200 | 300)**
- Product certified for low chemical emissions: **GREENGUARD - UL 2818** and **GREENGUARD Gold - UL 2818**.

9 | Advantages & Benefits

ISOCLICK clipping system

- Clipping system ensuring continuity of insulation. Once installed **iFLEXFOAM** panels are clipped together and remain in place during installation.
- Easily repositionable panels.
- Allows a fast and easy installation.

Laminated membrane on each side

- Laminated on each side for higher resistance and maximum flexibility. Reduces breakage during installation.
- The resistance of the membranes ensures product's integrity in all phases of installation.
- Even if the **ISOCLICK** clipping system is damaged during installation, the laminated membranes ensure that everything remains in place.
- Water absorption is limited due to **iFLEXFOAM's** laminated membranes on each side. If water would enter the panel, the bottom micro-perforated membrane would allow it to drain out.

High resistance and flexibility

- The panel's resistance and flexibility reduce the need to make a path for the wheelbarrow when concrete is poured.
- The product adapts to uneven ground.
- Provides continuous and uniform insulation.

8 | Technical Data

Table 2. Physical Properties of iFLEXFOAM

PROPERTIES	METHODS	UNITS	iFLEXFOAM	iFLEXFOAM	iFLEXFOAM
			160	200	300
THERMAL RESISTANCE	ASTM C-518	m ² ·°C/W/25 mm (hr·ft ² ·°F/Btu/in)	0.71 (4.05)	0.74 (4.20)	0.75 (4.25)
COMPRESSIVE STRENGTH MIN.	ASTM D-1621	kPa (psi)	110 (16)	140 (20)	210 (30)
FLEXURAL STRENGTH MIN.	ASTM C-203	kPa (psi)	240 (35)	300 (44)	350 (50)
WATER VAPOR TRANSMISSION MAX.	ASTM E-96	ng/Pa·s·m ² (perms)	15 (0.25)	15 (0.25)	15 (0.25)
WATER ABSORPTION MAX.	ASTM D-2842	%	4	2	1.8
DIMENSIONAL STABILITY MAX.	ASTM D-2126	%	1.5	1.5	1.5
COEFFICIENT OF THERMAL EXPANSION	ASTM D-696	mm/mm/°C (in/in/°F)	6 X 10 ⁻⁵ (3.5 X 10 ⁻⁵)	6 X 10 ⁻⁵ (3.5 X 10 ⁻⁵)	6 X 10 ⁻⁵ (3.5 X 10 ⁻⁵)
EFFECTIVE TEMPERATURE RANGE MAX.	CONTINUOUS	°C (°F)	75 (167)	75 (167)	75 (167)
	INTERMITTENT	°C (°F)	82 (180)	82 (180)	82 (180)
FLAME SPREAD	CAN/ULC S102.2M	-	240	240	240

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

10 | Installation

iFLEXFOAM panels are easy to handle and install. They can be cut with a utility knife. Follow the installation instructions on panel before starting.

Respect storage instructions specified on package. To prevent breakage of the **ISOCLICK** clipping system, keep the panels packaged until installation.

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

11 | Maintenance

No maintenance is required after **iFLEXFOAM** 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.

Project estimations are rapidly available with a physical description made from industrial designs and summary specifications based on information in this technical data sheet.

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.

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