THERMOFOAM®

DESCRIPTION

Moulded interlocking insulation board

- 2 ft x 8 ft (610mm x 2438mm)
- Interlocking 3/4 in (19mm) on the 8 ft (2438mm)
- Shiplapped 3/4 in (19mm) on the 2 ft (610mm)

Made in Canada.

CAR-ISO-1708EN

POLYFORM INSULATION

Polyform Cellular Plastics inc. I 454 Edouard Street, Granby, QC J2G 3Z3 I **1.800.463.8378**
Phone: 450.378.9093 I Fax: 450.378.3096 I info@polyform.com I **www.polyform.com**

THERMOFOAM®

PRODUCT FEATURES

APPLICATIONS

THERMOFOAM® 20

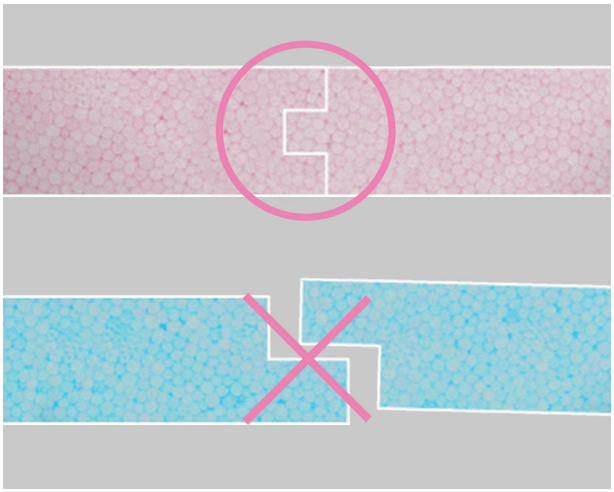
- Insulation for interior and exterior walls
- Insulation for interior and exterior foundation walls
- Insulation for ceilings and roofs
- Insulation under and on concrete slabs

THERMOFOAM® 30

- Insulation for interior and exterior walls
- Insulation for interior and exterior foundation walls
- Insulation for ceilings and roofs
- Insulation under and on concrete slabs

THERMOFOAM® 40

- Insulation under the pavement
- Insulation under and on concrete slabs
- Commercial and industrial projects



ADVANTAGES

Superior Performance

Efficient installation: Lightweight and easy to handle

Better sealing: Unique airtight joint design interlocking and shiplapped

Moulded board offering superior physical properties

More flexible than a conventional cut or extruded insulation board

Increased comfort: Allows for a stable and uniform indoor temperature year round

Economical

Permanent insulation value

Best quality for the money

Energy savings through the elimination of thermal bridges

Ecological

100% recyclable

Contains no CFCs or HCFCs

Resistant to water and moisture that may be the primary cause of mildew formation

Non-toxic, contains 98% air and 2% material

Can be handled without health hazards and is non-irritating to skin

Can contribute to earning points as part of a LEED® project

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TECHNICAL DATA SHEET

EPS Physical Properties	ASTM Test Method	ULC S701 Type 2 Requirements	Results	ULC S701 Type 3 Requirements	Results	ULC S701 Type 3 Requirements	Results
			THERMOFOAM® 20		THERMOFOAM® 30		THERMOFOAM® 40
Thermal resistance 1 in (25mm) hr·°F·ft²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)	4,05 (0,70)	Min : 4,20 Min : (0,74)	4,20 (0,74)	Min : 4,20 Min : (0,74)	4,26 (0,75)
Water vapour permeability Perm. (ng/Pa·s·m²)	E-96	Max : 3,5 Max : (200)	0,60 (35)	Max : 2,25 Max : (130)	1,24 (71,3)	Max : 2,25 Max : (130)	1,21 (70)
Dimensional stability (%)	D-2126	Max : 1,5	1,0	Max : 1,5	0,16	Max : 1,5	0,4
Flexural strength lb/in² (kPa)	C-203	Min : 35 Min : (240)	84 (575)	Min : 43,6 Min : (300)	77 (529)	Min : 43,6 Min : (300)	92 (629)
Water absorption (%)	D-2842	Max : 4,0	1,8	Max : 2,0	0,12	Max : 2,0	0,14
Compressive properties lb/in² (kPa)	D-1621	Min : 16 Min : (110)	19 (131)	Min : 20 Min : (140)	35 (248)	Min : 20 Min : (140)	44 (308)
Limiting oxygen index (%)	D-2863	Min : 24	41	Min : 24	24	Min : 24	28
The maximum continous service temperature °F (°C) is 167 (75). The maximum intermittent service temperature °F (°C) is 180 (82,2). The coefficient of thermal expansion in/in/°F (mm/mm/°C) is 3,5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.							

AVAILABLE SIZES

2 ft x 8 ft (610mm x 2438mm) with the following thicknesses:

1 1/4 in (32mm), R-5, Shiplapped
1 7/8 in (48mm), R-7.5, Interlocking
2 1/2 in (64mm), R-10, Interlocking

THERMOFOAM® 40 is only available in thickness of 2 1/2 in (64mm) and satisfies the #14301 MTQ requirements.

ISO 9001:2015
Certified quality management system ISO 9001:2015

The expanded polystyrene used for THERMOFOAM® boards is Warnock Hersey (WH) certified according to the **ULC S701** standard.

Warning
Flammable: interior applications require a protective barrier.

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THERMOFOAM®

TECHNICAL DATA SHEET
COMPARISON BETWEEN EXPANDED AND EXTRUDED POLYSTYRENE BOARDS

THERMOFOAM® 20 THERMOFOAM® 30

EPS Physical Properties	ASTM Test Method	ULC S701 Type 2 Requirements	Results	ULC S701 Type 3 Requirements	Results	Results Extruded Board Type 4
Thermal resistance 1 in (25mm) hr·°F·ft²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)	4,05 (0,70)	Min : 4,20 Min : (0,74)	4,20 (0,74)	5,00 (0,86)
Water vapour permeability Perm. (ng/Pa·s·m²)	E-96	Max : 3,5 Max : (200)	0,60 (35)	Max : 2,25 Max : (130)	1,24 (71,3)	1,05 (60)
Dimensional stability (%)	D-2126	Max : 1,5	1,0	Max : 1,5	0,16	1,5
Flexural strength lb/in² (kPa)	C-203	Min : 35 Min : (240)	84 (575)	Min : 43,6 Min : (300)	77 (529)	50,8 (350)
Water absorption (%)	D-2842	Max : 4,0	1,8	Max : 2,0	0,12	0,70
Compressive properties lb/in² (kPa)	D-1621	Min : 16 Min : (110)	19 (131)	Min : 20 Min : (140)	35 (248)	30 (210)
Limiting oxygen index (%)	D-2863	Min : 24	41	Min : 24	24	24
The maximum continous service temperature °F (°C) is 167 (75). The maximum intermittent service temperature °F (°C) is 180 (82,2). The coefficient of thermal expansion in/in/°F (mm/mm/°C) is 3,5 x 10-5 (6 x 10-5c-1) as per ASTM D-696 method.						

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INSTALLATION TIPS

We recommend you to contact a Polyform sales representative for specific technical advice on how to use this versatile product in your project.

Visit thermofoam.ca to see the installation video.

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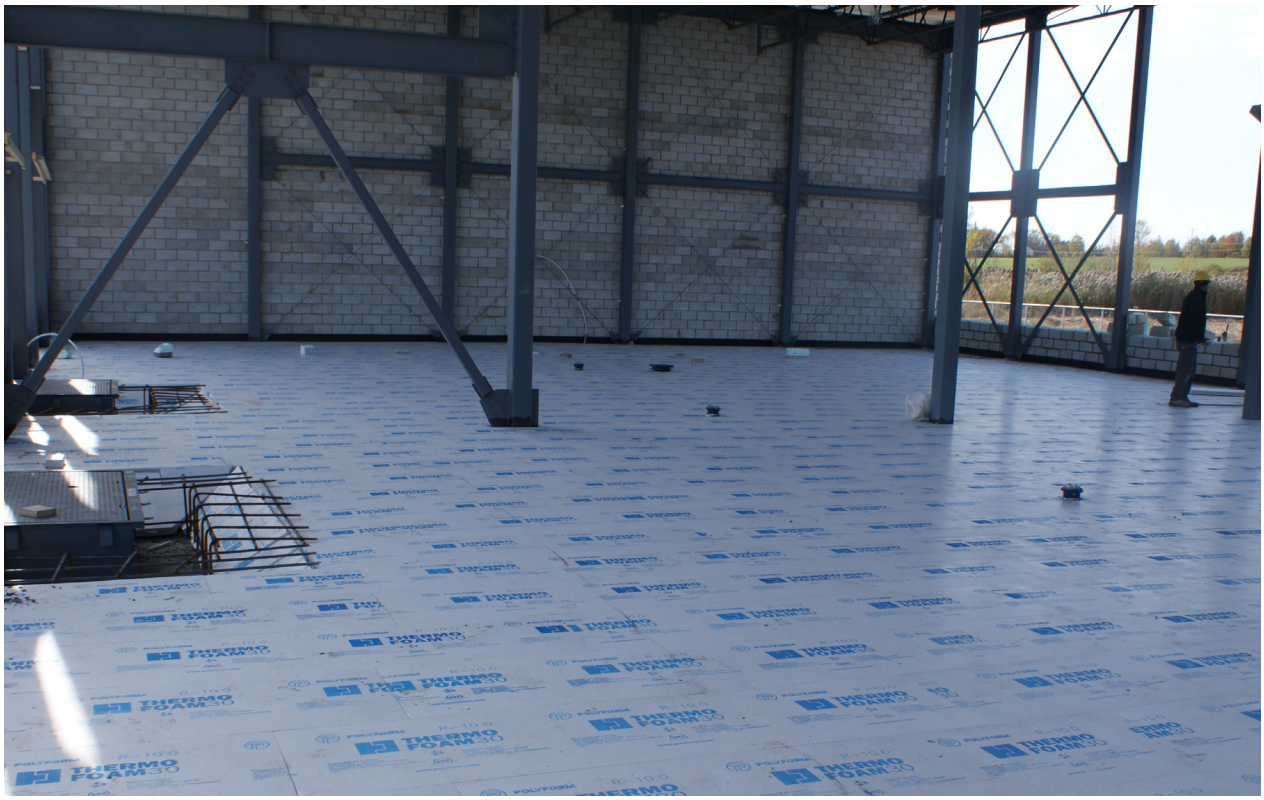

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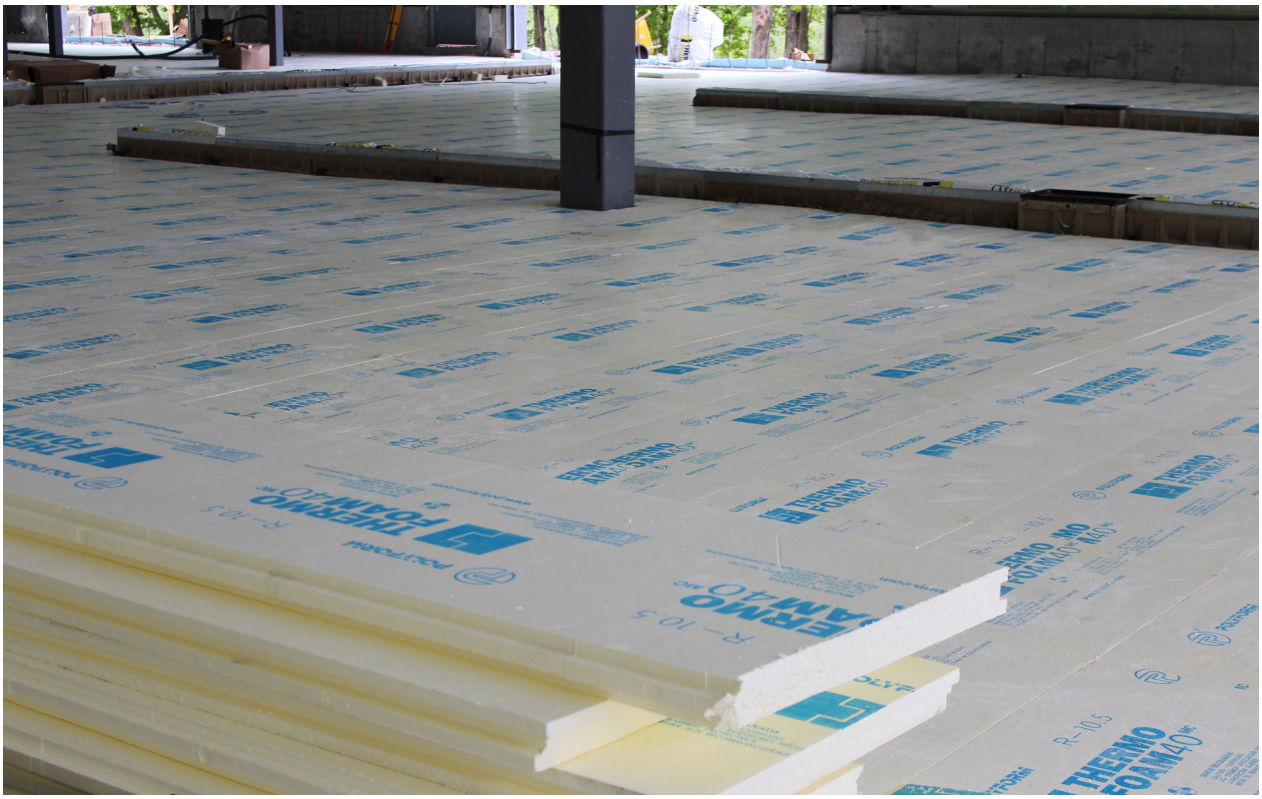

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