

BUILDING PRODUCTS LISTING PROGRAM

Customer: Superform Products Ltd.
Class: Thermal Insulation – Foam Plastics
Location: Pincher Creek, Alberta
Website: <https://superformicf.ca/icf/>

Listing No. B1051-2
Effective Date: April 17, 2014
Last Revised: December 13, 2024
Expires: N/A

Standards:	CAN/ULC S701.1-17	<i>Standard for Thermal Insulation, Polystyrene Boards</i>
	CAN/ULC S102.2-18	<i>Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies</i>
	ASTM C578-23	<i>Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation</i>
	ASTM E84-21a	<i>Standard Test Method for Surface Burning Characteristics of Building Materials.</i>
	ASTM E2430/E2430M-19	<i>Standard Specification for expanded Polystyrene (“EPS”) Thermal Insulation Boards for Use in Exterior Insulation and Finish Systems (“EIFS”)</i>

Markings: Product packaging of the finished thermal insulation is marked with the following:

- Company Name: Superform Products Ltd.
- CAN/ULC S701.1 / ASTM C578 Type as appropriate
- CAN/ULC S102.2 Flame Spread Smoke Developed Index (FSI \leq 230 / SDI \geq 500)
- ASTM E84 Flame Spread Smoke Developed Index (FSI \leq 25 / SDI \leq 450)
- ASTM E2430/E2430M Approved (where applicable).
- Traceability code including date of manufacture.
- QAI Mark as shown below:



Labels are applied to palletized finished products to ensure visibility on the jobsite.

Models /
Ratings:

SUPERFORM EPS+ THERMAL INSULATION TYPES PER CAN/ULC S701.1			
Property	TYPE 1 ⁴ EPS+10 MAX+10	TYPE 2 EPS+16, EPS+20 MAX+16, MAX+20	TYPE 3 EPS+25, EPS+40 ^{1,2}
Thermal Resistance Minimum at 25 mm Thickness (m ² *°C/W)	0.65 ³	0.70 ³	0.74
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m ²)	300	200	130
Dimensional Stability Maximum Linear Change (%)	1.5	1.5	1.5
Flexural Strength Minimum (kPa)	170	240	300
Water Absorption By Volume Maximum (%)	6.0	4.0	2.0
Compressive Strength Minimum at 10% Deformation (kPa)	70	110	140
Limiting Oxygen Index Minimum (%)	24	24	24

Note 1: EPS+40 products meet Type 3 thermal insulation requirements but are used where higher compressive resistance applications are required.

Note 2: EPS+40 products noted have not been evaluated to CAN/ULC S102.2 or ASTM E84 for surface burning characteristics at this product density and should not be used where in proximity to habituated space.

Note 3: See Thermal Resistance Properties table below for Superform Products MAX+ EPS product R values.

Note 4: Superform Type 1 products are available compliant with ASTM E2430/E2430M specifications for use in exterior insulation and finish systems (EIFS).

SUPERFORM EPS THERMAL INSULATION TYPES PER ASTM C578					
Property	TYPE I ³ EPS+10 MAX+10	TYPE VIII EPS+10 MAX+10	TYPE II EPS+16, EPS+20 MAX+16, MAX+20	TYPE IX EPS+25	TYPE XIV EPS+40 ¹
Compressive Strength, Minimum @ 10% Deformation (psi)	10.0	13.0	15.0	25.0	40.0
Thermal Resistance, Minimum @ 1 inch Thick (F*ft ² *h/Btu)	3.6 ²	3.8 ²	4.0 ²	4.2	4.2
Flexural Strength, Minimum (psi)	25.0	30.0	35.0	50.0	60.0
Water Vapor Permeance, @ 1 inch Thickness, Maximum (Perms)	5.0	3.5	3.5	2.5	2.5
Water Absorption By Volume, Maximum (%)	4.0	3.0	3.0	2.0	2.0
Dimensional Stability Linear Change, Maximum (%)	2.0	2.0	2.0	2.0	2.0
Oxygen Index, Minimum (%)	24.0	24.0	24.0	24.0	24.0
Density, Minimum (lbs/ft ³)	0.90	1.15	1.35	1.80	2.40

Note 1: EPS+40 products noted have not been evaluated to CAN/ULC S102.2 or ASTM E84 for surface burning characteristics at this product density and should not be used where in proximity to habituated space.

Note 2: See Thermal Resistance Properties table below for Superform Products MAX+ EPS product R values.

Note 3: Superform Type I products are available compliant with ASTM E2430/E2430M specifications for use in exterior insulation and finish systems (EIFS).

SUPERFORM EPS THERMAL INSULATION TYPES PER CAN/ULC S102.2				
Superform Insulation Type	Density	Maximum Thickness	Flame Spread Index	Smoke Developed Index
Type 1, Type 2, Type 3 EPS+10, EPS+16, EPS+20, EPS+25, MAX+10, MAX+16, MAX+20	Maximum 32 kg/m ³	≤ 100 mm	≤ 230	≥ 500

SUPERFORM EPS THERMAL INSULATION TYPES PER ASTM E84 ¹				
Superform Insulation Type	Density	Maximum Thickness	Flame Spread Index	Smoke Developed Index
Types I, VIII, II, IX EPS+10, EPS+16, EPS+20, EPS+25, MAX+10, MAX+16, MAX+20	Maximum 2.0 lbs/ft ³	≤ 4 inches	≤ 25	≤ 450

Note 1: Ceiling measurement only. This measurement is conducted through determination of flame spread index and smoke developed index with the removal of any contribution of molten materials ignited on the floor of the tunnel assembly.

THERMAL RESISTANCE PROPERTIES FOR SUPERFORM MAX+ IN ACCORDANCE WITH ASTM C518			
Bead Grade(s) and EPS Type	Minimum Density kg/m ³ (lbs/ft ³)	Thermal Resistance @ 1 inch (25 mm) Thickness at 75°F (23°C) Mean Temperature K*m ² /W (F*ft ² *h/Btu)	Thermal Resistance @ 25 mm (1 inch) Thickness at 4°C (40°F) Mean Temperature K*m ² /W (F*ft ² *h/Btu)
MAX+10	15 (0.95)	0.76 (4.3)	0.83 (4.7)
MAX+10 Type 1	18 (1.15)	0.79 (4.5)	0.84 (4.8)
MAX+16 Type 2	22 (1.35)	0.79 (4.5)	0.86 (4.9)
MAX+20 Type 2	23 (1.45)	0.81 (4.6)	0.86 (4.9)

Notes:

- *The product must be installed in accordance with the code enforced by the authority having jurisdiction (AHJ).*
- *Final acceptance of the product in the final installation is subject to inspection by the authority having jurisdiction (AHJ).*

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