

BUILDING PRODUCTS LISTING PROGRAM

Customer: Amvic Corporation
Class: Thermal Insulation – Foam Plastic
Location: 501 McNicoll Avenue, Toronto, Ontario, M2H 2E2 Canada

Website: <http://www.amvicsystem.com>

Listing No. B1061-3
Project No. B1061-3
Effective Date: December 15, 2020
Last Revised: December 15, 2020
Expiration: N/A

Standards: CAN/ULC S701.1 *Thermal Insulation, Polystyrene, Boards and Pipe Covering.*
CAN/ULC S102.2 *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.*
ASTM C578 *Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.*
UL 723 *Standard for Test for Surface Burning Characteristics of Building Materials.*

Product: Amvic SilverBoard Expanded Polystyrene (EPS) Thermal Insulation in the Following Types:

- SilverBoard XS 0.7
- SilverBoard Type 1, Type 2, Type 3 (Type I, II, IX)

Markings: Products are marked in a permanent manner on the backside of each panel with the following:

- a) Company Name: Amvic Corporation
- b) CAN/ULC S701.1 / ASTM C578 Type as appropriate
- c) CAN/ULC S102.2 Flame Spread Smoke Developed Index (FSI \leq 250 / SDI \geq 500)
- d) ASTM E84 Flame Spread Smoke Developed Index (FSI \leq 25 / SDI \leq 450)
- e) Traceability code including date of manufacture.
- f) QAI Mark as shown below:



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

Ratings: Amvic SilverBoard Type 1, 2 and 3 Physical Properties per CAN/ULC S701.1:



AMVIC SILVERBOARD EPS THERMAL INSULATION TYPES PER CAN/ULC S701.1			
PROPERTY	TYPE 1	TYPE 2	TYPE 3
Thermal Resistance Minimum at 25 mm Thickness (m ² *°C/W)	0.65	0.70	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

Amvic SilveRboard XS 0.7 Physical Properties:

AMVIC SILVERBOARD XS 0.7 EPS THERMAL INSULATION PROPERTIES	
PROPERTY	SILVERBOARD XS0.7
Thermal Resistance Minimum at 25 mm Thickness (m ² *°C/W)	See Below.
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m ²)	300
Dimensional Stability Maximum Linear Change (%)	1.5
Flexural Strength Minimum (kPa)	170
Water Absorption By Volume Maximum (%)	6.0
Compressive Strength Minimum at 10% Deformation (kPa)	35 ¹
Limiting Oxygen Index Minimum (%)	24

Amvic SilveRboard Type XI (XS 0.7), Type I, TYPE VIII, Type II, and Type IX Physical Properties per ASTM C578:

AMVIC SILVERBOARD EPS THERMAL INSULATION TYPES PER ASTM C578					
PROPERTY	TYPE XI XS 0.7	TYPE I	TYPE VIII	TYPE II	TYPE IX
Compressive Strength, Minimum @ 10% Deformation (psi)	5.0	10.0	13.0	15.0	25.0
Thermal Resistance, Minimum @ 1 inch Thick (F*ft ² *h/Btu)	See Table Below	3.6	3.8	4.0	4.2
Flexural Strength, Minimum (psi)	10	25.0	30.0	35.0	50.0
Water Vapor Permeance, @ 1 inch Thickness, Maximum (Perms)	5.0	5.0	3.5	3.5	2.5
Water Absorption By Volume, Maximum (%)	4.0	4.0	3.0	3.0	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)	0.70	0.90	1.15	1.35	1.80

Amvic SilveRboard XS 0.7 Thermal Resistance per ASTM C518:

AMVIC SILVERBOARD XS 0.7 EPS THERMAL INSULATION PHYSICAL PROPERTIES		
PROPERTIES	(m ² *°C/W)	(F*ft ² *h/Btu)
Thermal Resistance @ at 25 mm Thickness (m ² *°C/W), Minimum	0.78	4.4

Amvic SilveRboard Surface Burning Characteristics per CAN/ULC S102.2:

AMVIC SILVERBOARD EPS THERMAL INSULATION TYPES SURFACE BURNING CHARACTERISTICS PER CAN/ULC S102.2				
SILVERBOARD INSULATION	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
XDS 0.7, Type 1, Type 2, Type 3	Maximum 32 kg/m ³	≤ 100 mm	≤ 250	≥ 500

Amvic SilveRboard Surface Burning Characteristics per ASTM E84:

AMVIC SILVERBOARD EPS THERMAL INSULATION TYPES SURFACE BURNING CHARACTERISTICS PER ASTM E84 ¹				
AMVIC INSULATION	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
Type I, Type VIII, Type II, Type IX (XS 0.7)	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.

Note: The product must be installed in accordance with the code enforced by the authority having jurisdiction. Final acceptance of the product in the final installation is subject to inspection by the authority having jurisdiction.

The materials, products or systems listed herein have been qualified to bear the QAI Listing Mark under the conditions stated with each Listing. Only those products bearing the QAI Listing Mark are considered to be listed by QAI.

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