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## **BUILDING PRODUCTS LISTING PROGRAM**

Customer: Amvic Incorporated

Class: Thermal Insulation – Foam Plastic

Location: 501 McNicoll Avenue, Toronto, Ontario, M2H 2E2 Canada

Website: <a href="http://www.amvicsystem.com">http://www.amvicsystem.com</a>

Listing No. B1061-1 Project B1061-1

No.

Effective May 30, 2014

Date:

Last August, 28 2019

Revised

Expiration: N/A

Standards: CAN/ULC S701 "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".

ASTM E84 - "Standard Test Method for Surface Burning Characteristics of Building Materials".

ASTM D6817 – 'Standard Specification for Rigid Cellular Polystyrene Geofoam:"

Product: Amvic Expanded Polystyrene (EPS) Thermal Insulation

Amvic Amdry EPS Insulated Subfloor / Thermal Insulation

Amvic Ampex Panel Thermal Floor Insulation

Amvic Geofoam

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

- a) Company Name: Amvic Inc.
- b) CAN/ULC S701 / ASTM C578 Type as appropriate
- c) CAN/ULC S102.2 Flame Spread Smoke Developed Index (FSI ≤ 210 / SDI ≥ 500)
- d) ASTM E84 Flame Spread Smoke Developed Index (FSI ≤ 25 / SDI ≤ 450)
- e) Traceability code including date of manufacture.
- f) QAI Mark as shown below:



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

## Ratings:

AMVIC EPS THERMAL INS	ULATION TYPES F	PER CAN/ULC S7	01
PROPERTY	TYPE 1	<b>TYPE 2</b> EN-40 <sup>1</sup>	<b>TYPE 3</b> EN=60 <sup>1,2</sup>
Thermal Resistance Minimum at 25 mm Thickness (m²*°C/W)	0.65	0.70	0.74
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m²)	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: EN-40 and EN-60 products meet Type 3 thermal insulation requirements but are used where higher compressive resistance applications are required.

Note 2: Products noted have not been evaluated to CAN/ULC S102.2 or ASTM E84 for surface burning characteristics.

AMVIC EPS THERMAL INSULATION TYPES PER ASTM C578					
PROPERTY	TYPE I	TYPE VIII	TYPE II	TYPE IX	TYPE XIV EN-60 <sup>2</sup>
Compressive Strength, Minimum @ 10% Deformation (psi)	10.0	13.0	15.0	25.0	40.0
Thermal Resistance, Minimum @ 1 inch Thick (F*ft²*h/Btu)	3.6	3.8	4.0	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	4.0	3.0	3.0	2.0	2.0



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By Volume, Maximum (%)					
Dimensional Stability					
Linear Change,	2.0	2.0	2.0	2.0	2.0
Maximum (%)					
Oxygen Index,	24.0	24.0	24.0	24.0	24.0
Minimum (%)	24.0	24.0	24.0	24.0	24.0
Density,	0.90	1.15	1.35	1.80	2.40
Minimum (lbs/ft <sup>3</sup> )	0.90	1.13	1.33	1.00	2.40

Note 2: Products noted have not been evaluated to CAN/ULC S102.2 or ASTM E84 for surface burning characteristics.

AMVIC AMDRY INSULATED SUBFLOOR TYPES PER CAN/ULC S701				
PROPERTY	TYPE 2			
Thermal Resistance				
Minimum at 25 mm Thickness	0.70			
(m <sup>2*</sup> °C/W)				
Water Vapour Permeance Maximum at 25				
mm Thickness	200			
(Ng/Pa*s*m²)				
Dimensional Stability Maximum Linear	1.5			
Change (%)	1.0			
Flexural Strength Minimum	240			
(kPa)	210			
Water Absorption	4.0			
By Volume Maximum (%)	1.0			
Compressive Strength	110			
Minimum at 10% Deformation (kPa)	110			
Limiting Oxygen Index Minimum	24			
(%)	<b>2</b> 7			

AMVIC AMDRY INSULATED SUBFLOOR TYPES PER ASTM C578					
PROPERTY	TYPE II				
Compressive Strength, Minimum @ 10% Deformation (psi)	15.0				
Thermal Resistance, Minimum @ 1 inch Thick (F*ft²*h/Btu)	4.0				
Flexural Strength, Minimum (psi)	35.0				
Water Vapor Permeance, @ 1 inch Thickness, Maximum (Perms)	3.5				
Water Absorption By Volume, Maximum (%)	3.0				
Dimensional Stability Linear Change, Maximum (%)	2.0				
Oxygen Index, Minimum (%)	24.0				
Density, Minimum (lbs/ft³)	1.35				

## AMVIC AMPEX INSULATED SUBFLOOR TYPES PER CAN/ULC S701



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PROPERTY	TYPE 2	TYPE 3
Thermal Resistance Minimum at 25 mm Thickness (m <sup>2*o</sup> C/W)	0.70	0.74
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m²)	200	130
Dimensional Stability Maximum Linear Change (%)	1.5	1.5
Flexural Strength Minimum (kPa)	240	300
Water Absorption By Volume Maximum (%)	4.0	2.0
Compressive Strength Minimum at 10% Deformation (kPa)	110	140
Limiting Oxygen Index Minimum (%)	24	24

AMVIC AMPEX INSULATED SUBFLOOR TYPES PER ASTM C578					
PROPERTY	TYPE II	TYPE IX			
Compressive Strength,	15.0	25.0			
Minimum @ 10% Deformation (psi)					
Thermal Resistance, Minimum @ 1 inch Thick (F*ft²*h/Btu)	4.0	4.2			
Flexural Strength, Minimum (psi)	35.0	50.0			
Water Vapor Permeance, @ 1 inch Thickness, Maximum (Perms)	3.5	2.5			
Water Absorption By Volume, Maximum (%)	3.0	2.0			
Dimensional Stability Linear Change, Maximum (%)	2.0	2.0			
Oxygen Index, Minimum (%)	24.0	24.0			
Density, Minimum (lbs/ft³)	1.35	1.80			

AMVIC EPS GEOFOAM TYPES PER ASTM D6817						
PROPERTY	EN-12 (EPS15)	EN-16 (EPS19)	EN-22 (EPS22)	EN-30 (EPS29)	EN-50 (EPS46 <sup>2</sup> )	
Density Minimum kg.m³(lbs/ft³)	14.4 (0.90)	18.4 (1.15)	21.6 (1.35)	28.8 (1.80)	45.7 (2.85)	
Compressive Strength kPa (psi) at: 1% Compression: 5%Compression: 10% Compression:	25 (3.6) 55 (8.0) 70 (10.2)	40 (5.8) 90 (13.1) 110 (16.0)	50 (7.3) 115 (16.7) 135 (19.6)	75 (10.9) 170 (24.7) 200 (29.0)	128 (18.6) 300 (43.5) 345 (50.0)	
Flexural Strength Minimum kPa (psi)	172 (25.0)	207 (30.0)	276 (40.0)	345 (50.0)	517 (75.0)	
Oxygen Index	24.0	24.0	24.0	24.0	24.0	



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Minimum (%)			

Note 2: Products noted have not been evaluated to CAN/ULC S102.2 or ASTM E84 for surface burning characteristics.

AMVIC EPS THERMAL INSULATION TYPES PER CAN/ULC S102.2							
AMVIC INSULATION	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX			
Type 1, Type 2, Type 3 Amdry Ampex Geofoam EN- 12, EN-16, EN- 22, EN-30	Maximum 32 kg/m³	≤ 100 mm	≤ 210	≥ 500			

AMVIC EPS THERMAL INSULATION TYPES PER ASTM E843							
AMVIC INSULATION	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX			
Type I, VIII, II, IX Amdry Ampex Geofoam EN- 12, EN-16, EN- 22, EN-30	Maximum 2.0 lbs/ft <sup>3</sup>	≤ 4 inches	≤ 25	≥ 450			

Note 3: 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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