

## **BUILDING PRODUCTS LISTING PROGRAM**

Customer: AMC Foam Technologies, Inc.  
Class: Thermal Insulation  
Location: Headingley, Manitoba  
Website: <http://www.amcfoam.com>

Listing No. B1088-1  
Project No. B1088-1, Edition 3  
Effective Date: March 2, 2016  
Last Revised Date: December 16, 2024  
Expires: N/A

Standards: CAN/ULC S701.1:2017	<i>Standard for Thermal Insulation, Polystyrene Boards.</i>
ASTM C578-2023	<i>Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.</i>
ASTM D1621-2016	<i>Standard Test Method for Compressive Properties of Rigid Cellular Plastics.</i>
ASTM E84-2021a	<i>Standard Test Method for Surface Burning Characteristics of Building Materials.</i>
CAN/ULC S102.2-2018	<i>Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies</i>

Product: Expanded Polystyrene Foam Plastic Insulation Products as outlined below:

- STYROVOID® (LD) Low Density Compression Board
- STYROBAR® 16 Rigid Insulation Board
- STYROBAR® 22 Rigid Insulation Board
- STYROBAR® 28 Rigid Insulation Board
- STYROBAR® 16(+) Rigid Insulation Board
- STYROBAR® 22(+) Rigid Insulation Board
- STYROBAR® 28(+) Rigid Insulation Board
- STYROBAR® HS-40 Rigid High Compression Resistance Board

Markings: Product is marked with labels supplied by AMC Technologies, Inc. The label includes:

- a) Manufacturer's name
- b) Product name
- c) QAI logo with 'c' and 'us' identifier
- d) CAN/ULC-S701.1 / ASTM C578 Type
- e) CAN/ULC S102.2 and ASTM E84 Flame Spread and Smoke Developed Ratings
- f) QAI logo shown here





Ratings: **The following outlines AMC Foam Technologies, Inc. product's Thermal Insulation Performance determined in accordance with the noted standards.**

AMC Foam Technologies Inc. STYROBAR® EPS insulation products specifications per CAN/ULC S701.1.

PROPERTY	STYROBAR® 16, STYROBAR® 16(+)	STYROBAR® 22, STYROBAR® 22(+)	STYROBAR® 28, STYROBAR® 28(+)	STYROBAR® HS-40
	TYPE 1	TYPE 2	TYPE 3	TYPE 3
Thermal Resistance Minimum at 25 mm Thickness (m <sup>2</sup> *°C/W)	0.65	0.70	0.74	0.74
Water Vapour Permeance Maximum at 25 mm Thickness (Ng/Pa*s*m <sup>2</sup> )	300	200	130	130
Dimensional Stability Maximum Linear Change (%)	1.5	1.5	1.5	1.5
Flexural Strength Minimum (kPa)	170	240	300	300
Water Absorption By Volume Maximum (%)	6.0	4.0	2.0	2.0
Compressive Strength Minimum at 10% Deformation (kPa)	70	110	140	276 <sup>1</sup>
Limiting Oxygen Index Minimum (%)	24	24	24	24

Note<sup>1</sup>: STYROBAR® HS-40 has been evaluated and shown to have a compressive resistance at 10% deformation of 276 kPa (40 psi) as outlined in ASTM C578 XIV compliance noted below when evaluated to ASTM D1621.

AMC Foam Technologies Inc. STYROVOID® (LD) products specifications evaluated.

PROPERTY	STYROVOID® LD	
	NON-CLASSIFIED TYPE <sup>2</sup>	
Compressive Strength Minimum @ 10% Deformation	70.0 kPa	10.0 psi
Density Minimum	11.2 kg/m <sup>3</sup>	0.70 lbs/ft <sup>3</sup>

Note<sup>2</sup>: STYROVOID® LD products have a compressive resistance of 70 kPa (10.0 psi) at 10% deformation when evaluated to ASTM D1621 when molded at the minimum density noted.

AMC Foam Technologies Inc. insulation products surface burning characteristics determined in accordance with CAN/ULC S102.2.

AMC FOAM TECHNOLOGIES INSULATION <sup>3</sup>	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
STYROVOID® (LD) STYROBAR® 16, STYROBAR® 22, STYROBAR® 28 STYROBAR® 16(+), STYROBAR® 22(+), STYROBAR® 28(+)	Maximum 32 kg/m <sup>3</sup>	100 mm Maximum	≤ 230	≥ 500

Note<sup>3</sup>: STYROBAR® HS-40 products are molded at minimum 38 kg/m<sup>3</sup> density. As such, these products are not classified for surface burning characteristics noted and are not eligible for use as interior insulation products.



AMC Foam Technologies Inc. STYROBAR® insulation products specifications per ASTM C578.

PROPERTY	STYROBAR® 16, STYROBAR® 16(+)	STYROBAR® 22, STYROBAR® 22(+)	STYROBAR® 28, STYROBAR® 28(+)	STYROBAR® HS-40
	TYPE I	TYPE II	TYPE IX	TYPE XIV
Compressive Strength Minimum @ 10% Deformation (psi)	13.0	15.0	25.0	40.0
Thermal Resistance Minimum @ 1 inch Thick (F*ft²*h/Btu)	3.6	4.0	4.2	4.2
Flexural Strength Minimum (psi)	30.0	35.0	50.0	60.0
Water Vapor Permeance @ 1 inch Thickness Maximum (Perms)	5.0	3.5	2.5	2.5
Water Absorption By Volume Maximum (%)	4.0	3.0	2.0	2.0
Dimensional Stability Linear Change Maximum (%)	2.0	2.0	2.0	2.0
Oxygen Index Minimum (%)	24.0	24.0	24.0	24.0
Density Minimum (lbs/ft³)	1.15	1.35	1.80	2.40

AMC Foam Technologies Inc. insulation products surface burning characteristics determined in accordance with ASTM E84

AMC INSULATION	DENSITY	MAXIMUM THICKNESS	FLAME SPREAD INDEX (FSI)	SMOKE DEVELOPED INDEX (SDI)
STYROVOID® (LD) STYROBAR® 16, STYROBAR® 22, STYROBAR® 28 STYROBAR® 16(+), STYROBAR® 22(+), STYROBAR® 28(+)	Maximum 2.20 lbs/ft <sup>3</sup>	4.0 Inches Maximum	≤ 25	≤ 450

Note<sup>4</sup>: STYROBAR® HS-40 products are molded at minimum 2.40 lbs/ft<sup>3</sup> density. As such, these products are not classified for surface burning characteristics noted and are not eligible for use as interior insulation products.

Notes: Final acceptance of the product in the intended application is to be determined 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. No warrantee is expressed or implied, and no guarantee is provided that any jurisdictional authority will accept the Listing found herein. The appropriate authorities should be contacted regarding the acceptability of any given Listing. Visit the QAI Online Listing Directory located at [www.qai.org](http://www.qai.org) for the most up to date version of this Listing and to validate that this QAI Listing is active. Questions regarding this listing may be directed to [info@qai.org](mailto:info@qai.org). Please include the listing number in the request.

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