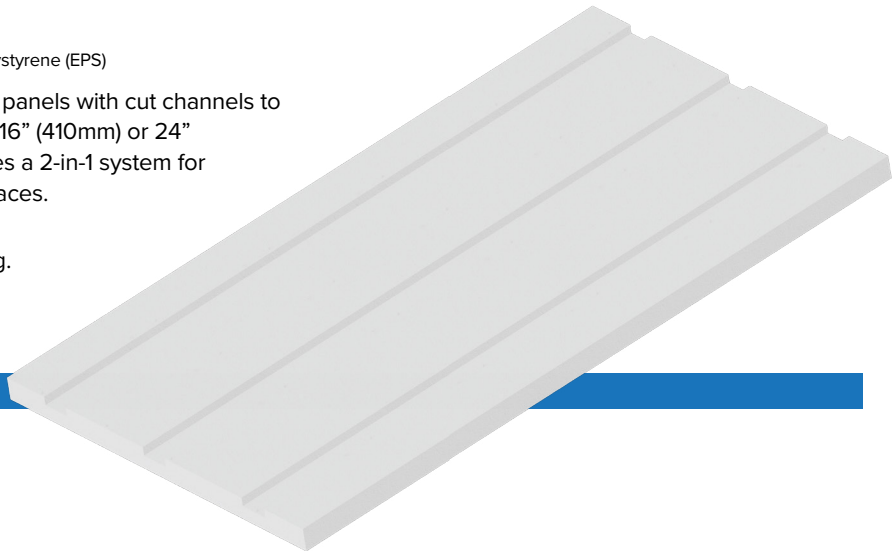
Styrobar® | Rigid Insulation Solutions

Styrobar is a rigid insulation product made from closed cell expanded polystyrene (EPS)

Styrobar GFS (Grooved for Strapping) are rigid insulation panels with cut channels to accept dimensional lumber or plywood strapping spaced 16" (410mm) or 24" (609.6mm) on center. When strapping is inserted it creates a 2-in-1 system for installing continuous insulation and finish attachment surfaces. Contact AMC for custom sizes and spacing.

Styrobar GFS is suitable for interior and exterior sheathing.

Note: wood strapping not included. For wood strapping included see our Halo IS (Internal Strapping).



Product Features

- Stable long term thermal resistance (LTTR)
- Environmentally responsible
- Cost-effective insulation

Environmental & Sustainability

- Styrobar products are produced without the use of chlorofluorocarbon (CFCs), hydrochlorofluorocarbon (HCFCs) or formaldehyde. As a result, Styrobar® products will not produce harmful emissions to the environment.
- Styrobar products are non-toxic, will not irritate skin on exposure and contains no nutrients for pests or mould.

Performance Criteria

				Styrobar 16 Type I	Styrobar 22 Type II	Styrobar 16 Type 1	Styrobar 22 Type 2
				ASTM C578		CAN/ULC S701-2011	
THERMAL RESISTANCE[a]	Min. at 1" (25 mm) Thickness,	ASTM C518	75°F (24°C)	R-3.85	R-4	RSI 0.68	RSI 0.70
			40°F (4.4°C)	R-4.2	-	RSI 0.74	-
PHYSICAL	Compressive Strength at 10% deformation, Min.	ASTM D1621		10 psi	16 psi	70 kPa	110 kPa
	Flexural Resistance Min.	ASTM C203		30 psi	35 psi	170 kPa	240 kPa
	Dimensional Stability Max.	ASTM D2126		2%		1.5%	
MOISTURE	Water Vapor Permeance Max.	ASTM E96		5 perms	3.5 perms	300 ng/Pa•s•m²	200 ng/Pa•s•m²
	Water Absorption Max.	ASTM C272		4%	3%	6%	4%
FIRE	Flame Spread Index, Max.	ASTM E84 CAN/ULC S102.2		< 25 (< 230)			
	Smoke Developed Index, Max.			< 450 (> 500)			
	Max Thickness			4" (102mm)			
	Density, Max.			2.2 pcf (32 kg/m³)			
	Oxygen Index, Min.	ASTM D2863		24%			

Technical Information

- EPS should not be exposed to volatile hydrocarbons such as fuel oils, gasoline, and some alcohols. Anhydrous acids such as sulfuric and formic acid may also attack EPS.
- Styrobar products contain flame retardants. This, however, will not prevent burning when the material is exposed to a large fire source or intense heat.
- Observe normal fire precautions and good housekeeping methods during application, and provide a protective barrier, such as a thermal barrier, to protect from high heat sources, as required by local building codes.

Sizes

Styrobar GFS panels are available in thicknesses from 1.25" - 4", in 4' x 8' or 2' x 8' sheets. Styrobar products are manufactured with a standard butt edge. Shiplap, or tongue and groove is available upon special order.

Packaging

Styrobar GFS 16 and 22 are packaged in bundles measuring 4' x 8' x 2'.

Manufacturer

AMC Foam Technologies Inc.
35 Headingley St.
Headingley Manitoba, R4H 0A8
877-789-7622

Applications

- Exterior Wall
- Foundation Interior

Applicable Standards

ASTM C578	Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
ASTM C518	Standard Test Method for Steady-state Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
ASTM D1622	Standard Test Method for Apparent Density of Rigid Cellular Plastics.
ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics.
ASTM E96	Standard Test Methods for Water Vapor Transmission of Materials.
ASTM C203	Standard Test Methods for Breaking Load and Flexural Properties of Block-Type Thermal Insulation.
ASTM D2863	Standard Test Method for Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index).
CAN/ULC-S701	Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.

Disclaimer of Liability

The manufacturer and distributors of this building product shall not be liable for any loss, costs, or damage resulting from uses of this product in systems which are not constructed in the strict compliance with the most exacting design and construction standards (Including appropriate venting, drainage, flashing, etc.) contemplated by the National building Code of Canada or by the more rigorous practices or standards enforced at the place of use.

Technical Support

For North American technical inquires please contact AMC Foam at 1-877-789-7622 or by email at info@amcfoam.com

Code Evaluation Approvals

Styrobar 16 CCMC Listing No. 13217-L
Styrobar 22 CCMC Listing No. 13218-L
QAI Certification Listing No. B1088-1