

# Product Information Bulletin

# 228

## **PlastiSpan M-24 Insulation Board**

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## PlastiSpan® M-24 Insulation Board

**PlastiSpan M-24** insulation meets or exceeds the requirements of CAN/ULC-S701-11, **Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering**. It is listed by the Canadian Construction Materials Centre (CCMC) for compliance with CAN/ULC-S701, Type 2 under CCMC evaluation listing number 12425-L.

**PlastiSpan M-24** insulation is a closed cell expanded polystyrene (EPS) insulation that retains its R-value and resists water absorption for long term performance. A shiplap joint on all four edges is incorporated as part of the manufacturing process.



Material Property	Test Method	Units	Values
<b>Compressive Resistance</b> <i>Minimum @ 10% Deformation</i>	ASTM D1621	kPa (psi)	110 (16)
<b>Compressive Modulus</b> <i>Minimum</i>		kPa (psi)	4,000 (580)
<b>Thermal Resistance</b> <i>Minimum per 25 mm (1 inch)</i>	ASTM C518	m <sup>2</sup> •°C/W (ft <sup>2</sup> •h•°F/BTU)	0.70 (4.04)
<b>Flexural Strength</b> <i>Minimum</i>	ASTM C203	kPa (psi)	240 (35)
<b>Water Vapour Permeance</b> <i>Maximum</i>	ASTM E96	ng/(Pa·s·m <sup>2</sup> ) (Perms)	200 (3.5)
<b>Dimensional Stability</b> <i>Maximum (7 Days @ 70 ± 2 °C)</i>	ASTM D2126	% Linear Change	1.5
<b>Water Absorption</b> <i>Maximum</i>	ASTM D2842	% By volume	4.0
<b>Limiting Oxygen Index</b> <i>Minimum</i>	ASTM D2863	%	24
<b>Standard Dimensions</b>			
<b>Width</b>	<b>Length</b>	<b>Thickness</b>	
610 mm (2 ft.)	2440 mm (8 ft.)	25, 38, 50 or 75 mm (1, 1 ½, 2 or 3 in.)	

### **PlastiSpan M-24 Insulation Specification:**

The following specification is basic and must be adapted to suit the requirements of individual projects. It is written in accordance with the Construction Specifications Canada three-part section format and should be included as a separate section under Division 7 – THERMAL AND MOISTURE PROTECTION.

#### **Part 1 – General**

##### *1.01 Related Documents:*

Drawings and general provisions of the contract, including general and supplementary conditions and Division-1 Specification Sections, apply to this Section.

##### *1.02 Submittals*

- A. Manufacturer's product literature, including specified physical properties.
- B. Installation instructions.
- C. Confirmation that product complies with specification requirements and is compatible with the roofing membranes and adhesives.

##### *1.03 Quality Assurance*

Provide proof of compliance with quality requirements in the form of an Evaluation Listing in the Canadian Construction Materials Centre (CCMC) Registry of Product Evaluations and/or third party certification of product quality by an accredited body.

##### *1.04 Product Handling*

- A. Protect insulation from physical damage. Provide adequate protection of materials and work of this trade from damage by weather, traffic and other causes.
- B. Protect work of other trades from damage resulting from work of this trade. Make good such damage at own expense to satisfaction of owner's representative.
- C. Comply with manufacturer's recommendations for handling, storage and protection. Handle boards carefully so corners are not broken off or boards otherwise damaged.

##### *1.05 Warranty*

Where required, provide written warranty that the long term thermal resistance of the insulation will not vary from its published thermal resistance based upon installation in accordance with manufacturer's recommendations.

#### **Part 2 – Products**

##### *Materials*

##### *2.01 Insulation*

**PlastiSpan M-24** insulation manufactured by Plasti-Fab conforming to CAN/ULC-S701, Type 2; thermal resistance - RSI 0.70 per 25 mm (R-4.04 per inch) of thickness; thickness as shown on the drawings (or specify).

##### *2.02 Adhesives*

Adhesive compatible with expanded polystyrene insulation.

#### **Part 3 – Execution**

##### *3.01 Inspection*

Sweep areas clean to receive insulation board prior to commencing installation. Check that concrete surfaces are level, straight and clean and that fins or projections left after stripping of concrete forms have been removed.

##### *3.02 Application*

Workmanship shall be the best standard practice for this type of work.

##### *3.03 Clean Up*

Clean up and remove from the site all debris and surplus materials from the work of this trade promptly as the work proceeds and on completion.