



PlastiSpan™ M Insulation

Plasti-Fab PlastiSpan M insulation is a moulded insulation product manufactured to standard sizes and thicknesses. The moulding process provides greater flexibility to produce boards with the required compressive strength and other physical properties suited to an application. The moulding process also provides a convenient method of incorporating ship lapping on the edges of the board for thicknesses greater than one inch.

PlastiSpan M insulation is a rigid expanded polystyrene (EPS). The closed cell structure provides excellent resistance to moisture, and because it contains no HCFCs, long term thermal resistance is not subject to thermal drift – i.e., there is no loss of R-Value.

PlastiSpan M insulation can be used in a variety of applications.

Applications:

1. Above Grade Projects
2. Below Grade Projects
3. Foundation Walls – Interior or Exterior
4. Frost Protected Shallow Foundations
5. Utility Line Insulation
6. Insulating Sheathing
7. Cathedral Ceilings

PlastiSpan M Insulation Product Line

R-VALUE	THICKNESS	WIDTH / LENGTH	SQ.FT / PER BAG
4	1"*	24" x 96"	384 / 24
6	1-1/2"	24" x 96"	256 / 16
8	2"	24" x 96"	192 / 12
10	2-1/2"	24" x 96"	160 / 10
12	3"	24" x 96"	128 / 8

*1 inch product is a butt end joint.

Advantages:

1. Ship Lap Joint
2. Easy to Install
3. Excellent Compressive Strength
4. No loss of R-Value
5. Environmentally Friendly – No HCFCs
6. Excellent Resistance to Moisture

PlastiSpan M Insulation Properties

PROPERTIES	TEST METHOD ¹	UNITS	CAN/ULC-S701
Thermal Resistance Minimum	ASTM C518 @ Mean Temperature 24 °C (75° F)	$\frac{m^2 \cdot ^\circ C}{W \cdot 25 \text{ mm}}$	0.70
		$\frac{ft^2 \cdot hr \cdot ^\circ F}{BTU \cdot in}$	4.04
Compressive Strength Minimum @ 10% Deformation	ASTM D1621 Procedure A	kPa	110
		psi	16
Compressive Modulus	ASTM D1621 Procedure A	kPa	4000
		psi	580
Flexural Strength	ASTM C203 Procedure B	kPa	240
		psi	35
Water Absorption Maximum	ASTM D2842	% by volume	<4.0

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

Related Documents

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

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 other materials it is in contact with (e.g. adhesives).

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.

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 the 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.

Warranty

Where required, provide written warranty that the long term thermal resistance of the insulation in accordance with manufacturer's recommendations.

Part 2 – Products

MATERIALS

Insulation

PlastiSpan M Insulation manufactured by Plasti-Fab Ltd. conforming to CAN/ULC-S701, Type 2, PlastiSpan M24; thermal resistance – RSI 0.70 per 25 mm (R-4.04 per inch) of thickness; thickness as shown on the drawings (or specify).

Adhesive

Adhesive compatible with expanded polystyrene insulation.fibre washers.

Part 3 – Execution

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.

Application

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

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.