

**Product Name**

FROST CUSHION®

**Associated Specification Section**

MasterFormat 1995 # 03116

MasterFormat 2004 # 03 11 24

**Manufacturer's Name**

Beaver Plastics

November 18, 2015

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- BASIC USES / RELATED USES
  - An expanded polystyrene (EPS) void form material for use under grade beams and other concrete elements to compensate for frost and moisture-induced swelling of underlying soils that might otherwise lift or fracture concrete foundations.
  - FROST CUSHION reacts to subgrade uplift by deforming and collapsing at a much lower stress than “solid” void form products and therefore is an excellent choice for protecting grade beams under lighter wood frames and metal structures.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
  - Static compressible inclusion, where the weight of a structure will compress the void material to protect the grade beam against frost uplift or clay soil swell.
  - Absorbs frost and moisture induced swelling of underlying soil.
  - Structural capacity to adequately support concrete placing, finishing, and weight of the concrete element itself.
  - Freeze/thaw resistant and low moisture absorption.
  - Contains no CGCs, HCFCs, or other refrigerant gasses.
  - Biologically inert and will not support mould, mildew or fungus growth.
  - Contains a chemical additive to inhibit accidental ignition from a small fire source.
  - Non-toxic and hypo-allergenic.
  - Non-biodegradable and has no pest nutrient value.
- SELECTION CRITERIA
  - Product is available in two depths and four standard widths, with custom sizes available on request.
- APPLICABLE STANDARDS, RELATED REFERENCES
  - ASTM E84 – Standard Test Methods for Surface Burning Characteristics of Building Materials.
- PACKAGING, HANDLING, PROTECTION, AND DELIVERY INSTRUCTIONS
  - FROST CUSHION boards must be protected from damage during transit.
  - Pile void form material on raised platforms and protect from UV degradation during storage and after erection, if product is to be exposed for one month or more.

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**PRODUCT DESCRIPTION**

- **LIMITATIONS**
  - Product will burn when exposed to large continuous flame.
- **SAFETY PRECAUTIONS**
  - Normal fire precautions and good housekeeping methods must be followed during storage and application.
- **AVAILABILITY**
  - Available direct from Beaver Plastics.
- **COST**
  - Varies with substrate condition and configuration, and relative size of building.
  - Consult manufacturer national and regional offices for specific product costs or relative costs.

**PRODUCT PROPERTIES**

- **MATERIALS, COMPOSITION, PROPERTIES**
  - Technical Properties
    - Rigid closed cell, expanded polystyrene (EPS) board.
    - Flame Spread Index/Smoke Developed Index: Less than 25/450 to ASTM E84.
    - At 50% compression Frost Cushions uplift force is less than 30 kPa (4.4 psi).
- **DIMENSIONS**
  - Standard sizes available:

THICKNESS	NOMINAL WIDTHS*	LENGTHS
100 mm (4")	200 mm (8")	2440 mm (8')
	250 mm (10")	
	300 mm (12")	
	1220 mm (48")	
150 mm (6")	200 mm (8")	2440 mm (8')
	250 mm (10")	
	300 mm (12")	
	1220 mm (48")	

\* Unless otherwise specified at time of purchase, FROST CUSHION is supplied 5 mm (1/4") narrower than stated width, in order to facilitate placement inside standard formwork.

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## PRODUCT DESCRIPTION

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### PRODUCT PLACEMENT

- PREPARATION
  - Surface to receive FROST CUSHION must be prepared and level.
- INSTALLATION
  - Place FROST CUSHION at bottom of form with flat surface facing upwards.
  - Plywood overlay or alternative material may be used to distribute stresses from point loads.
- MAINTENANCE INSTRUCTIONS AND PROCEDURES
  - Product should not be exposed to volatile hydrocarbons which may attack the expanded polystyrene.

**Corporate Identification**

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**Technical Services Available**

Phone toll free or e-mail

**Classification and Filing**

MasterFormat 2004:  
03 11 24 – Concrete Forms and Accessories

MasterFormat 1995:  
03116 – Concrete Forms and Accessories

UniFormat 1998:  
A1030 – Concrete Forms and Accessories

**END**