

Product Name

FROST CUSHION®

Associated Specification Section

MasterFormat 1995 # 03116

MasterFormat 2004 # 03 11 24

Manufacturer's Name

Beaver Plastics

Sept 30, 2004

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PRODUCT DESCRIPTION

PRODUCT FEATURES

- **BASIC USES / RELATED USES**
 - An expanded polystyrene (EPS) void form material for use under grade beams and other concrete elements, where the weight of the concrete component plus the weight of the supported structure will cause void material compression, preventing damage from subgrade expansion.
- **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 CFCs, HCFCs, or other refrigerant gases.
 - 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.
- **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 Method for Surface Burning Characteristics of Building Materials.
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
 - ISO 9001:2000 Registered Company (Quality Certification Bureau #94-41).
- **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 or 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.
 - Configured to support a maximum load of 27 kPa (4 psi) at 5% strain.
- DIMENSIONS
 - Standard sizes available:

THICKNESS	NOMINAL WIDTHS*	LENGTH
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

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 and anhydrous acids, which may attack the expanded polystyrene.

Corporate Identification

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Classification and Filing

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PRODUCT DESCRIPTION

END