

**Product Name**

DYNAFLEX  
Expanded Polystyrene Compressible Fill

**Associated Specification Section**

MasterFormat 2004 # 07 97 13

**Manufacturer's Name**

Beaver Plastics

November 17, 2015

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- DESCRIPTION
  - Expanded (EPS) polystyrene fill, with compressible properties to protect grade beams, structural slabs, pile caps and other concrete structural elements from the forces of swelling of clay soils or freezing of subgrade materials and subsequent uplift.
  - Available in three densities.
- USES
  - Geotechnical and other near grade applications:
    - Thermal and physical protection of structural foundation and perimeter materials.
    - Placing compressible insulation under building structural members at or near grade for frost protection.
    - Closed cellular compressible foam accepts structural stresses without damage.
- PRODUCT ATTRIBUTES AND CHARACTERISTICS
  - Closed cell expanded polystyrene (EPS) providing all-weather performance.
  - Resistant to freeze/thaw cycles.
  - Low moisture absorption properties.
  - Protection achieved via compression before heaving or cracking of structural components occur.
  - Does not contain CFCs, HCFCs, or other refrigerant gases.
  - EPS is 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. Does not off-gas.
- SELECTION CRITERIA
  - Suitable for colder climate applications, where sub-soil is prone to frost heaving.
  - Available in several standard board sizes, in any thickness up to 610 mm (24 inches).
  - Available in custom profiles to suit project component configuration.
- SUSTAINABILITY CRITERIA
  - Manufactured at Edmonton AB and Vancouver BC, Canada

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- Contains no CFC or HCFC gasses; does not contribute to ozone depletion.
- Non-toxic; does not irritate skin on exposure.
- Biologically inert and will not support mould, mildew or fungus growth or pests.
- **APPLICABLE STANDARDS, RELATED REFERENCES**
  - ASTM D1621 (Modified) - Test Method for Long Term Compressive Properties of Rigid Cellular Plastics.
  - CAN/ULC S701 - Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
  - Manufactured in accordance with CAN/ULC S701.
- **PACKAGING, HANDLING, PROTECTION, AND DELIVERY INSTRUCTIONS**
  - Must be protected from damage during transit.
  - Must be protected from UV degradation during storage and after erection.
  - Do not expose to volatile hydrocarbons, such as fuel oils, gasoline, alcohols.
- **LIMITATIONS**
  - Degrades with lengthy exposure to ultra-violet rays or direct sunlight.
  - 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 or appointed distributors
- **COST**
  - Varies with substrate condition and configuration, and relative size of building.
  - Consult manufacturer or distributors for specific product costs or relative costs.

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### PRODUCT PROPERTIES

- MATERIALS, COMPOSITION, PROPERTIES
  - Technical Properties
    - Rigid, closed cell, expanded polystyrene (EPS) board and custom profiled components.
    - Profiles: Bevelled edges and other custom profiles can be produced.
  - Recommended Maximum Concrete Placing Loads:
    - DYNAFLEX High Density: 95 kPa (4.0 m concrete thickness).
    - DYNAFLEX Medium Density: 60 kPa (2.5 m concrete thickness).
    - DYNAFLEX Standard Density: 35 kPa (1.5 m concrete thickness).
- ACCESSORIES
  - Adhesives and/or fasteners.
- DIMENSIONS
  - Thickness: Any thickness up to a maximum of 610 mm (24 inches).
  - Minimum thickness of DYNFLEX can be calculated utilizing engineering values and product limitation parameters. Refer to calculation guide lines offered by Beaver Plastics. Refer also to Beaver Plastic web site at: <http://www.beaverplastics.com/beavercurrent/dynaflex.html>
  - Profiles: Flat sheet and custom profiles to suit grade beam or pile cap shapes can be provided.

### PRODUCT PLACEMENT

- PREPARATION
  - Provide a level grade before installing DYNFLEX.
- INSTALLATION
  - Install products in accordance with the manufacturer's instructions for each specific application.
- MAINTENANCE INSTRUCTIONS AND PROCEDURES
  - Product should not be exposed to volatile hydrocarbons which may attack the expanded polystyrene.

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**Corporate Identification**

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**Technical Services Available**

Phone toll free or e-mail (see above)

**Classification and Filing**

OmniClass Table 23 - Products  
Omniclass 2006:  
23-10 10 11 35 - Expanded Polystyrene Compressible Fill  
  
MasterFormat 2004:  
07 97 13 – Compressible Board Fill (for at and below grade applications)

**END**