

Product Name**TERMINATOR™****Associated Specification Section**

MasterFormat 1995 # 02541

MasterFormat 2004 # 33 36 13

Manufacturer's Name

Beaver Plastics

Sept 30, 2004

Page 1

PRODUCT DESCRIPTION

PRODUCT FEATURES

- **BASIC USES / RELATED USES**
 - Insulated effluent disposal (leaching) chambers manufactured of high density expanded polystyrene (EPS), used in trenches to distribute effluent flows from the septic tank into the soil.
 - For use in absorption trenches in gravity fed or pressure distribution septic systems.
- **PRODUCT ATTRIBUTES AND CHARACTERISTICS**
 - High-density expanded polystyrene material.
 - Contains no side vents and thus keeps soil out, eliminating the need for geo-cloth barriers.
 - Air-permeable, but restricts heat loss.
 - Resists freezing during low snow and cold.
 - 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**
 - Three profiles:
 - Type A Chamber: Large fluid capacity, for typical field trenches, minimum 600 mm (2 ft) depth.
 - Type LP (low profile) Chamber: For shallow bury trenches and mounds, 300 mm (1 ft) depth.
 - Type AG (at grade) Chamber: Installed at grade level.
 - Type A and LP chambers:
 - For gravity fed or pressure distribution septic systems in trench-style fields and mounds.
 - Provides 25% more distribution area than conventional chambers; a full 600 mm (24") coverage.
 - Provides 40 times the distribution volume of traditional rock-filled trenches.

Product Name

TERMINATOR™

Associated Specification Section

MasterFormat 1995 # 02541

MasterFormat 2004 # 33 36 13

Manufacturer's Name

Beaver Plastics

Sept 30, 2004

Page 2

PRODUCT DESCRIPTION

- **APPLICABLE STANDARDS, RELATED REFERENCES**
 - ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
 - ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
 - ASTM D1621 - Standard Test Method for Compressive Properties Of Rigid Cellular Plastics.
 - ASTM D1623 - Standard Test Method for Tensile And Tensile Adhesion Properties Of Rigid Cellular Plastics.
 - ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics.
 - ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
 - ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
 - CAN/ULC-S701 – Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
 - ISO 9001:2000 Registered Company (Quality Certification Bureau #94-41).
 - American Association of State Highway and Traffic Officials (AASHTO)
 - Standard for strength, AASHTO H-10, supporting a 16,000-pound load.
 - International Association of Plumbing and Mechanical Officials (IAMPO)
 - Meets requirements for IAMPO PS 63-99A Material and Property Standard for Plastic Leaching Chambers.
 - Product Approval Letters: Alberta, Saskatchewan, Manitoba, Ontario, Yukon and Alaska.
 - Research report by EBA Engineering: Geothermal Analysis of the Terminator™ and Conventional Sewage Effluent Disposal Chambers, dated February 8, 2002.
- **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 from many plumbing wholesalers and septic equipment suppliers.

Product Name

TERMINATOR™

Associated Specification Section

MasterFormat 1995 # 02541

MasterFormat 2004 # 33 36 13

Manufacturer's Name

Beaver Plastics

Sept 30, 2004

Page 3

PRODUCT DESCRIPTION

- **COST**
 - Varies with substrate condition and configuration, and relative size of building.
 - Consult manufacturer for specific product costs or relative costs.

PRODUCT PROPERTIES

- **MATERIALS, COMPOSITION, PROPERTIES**
 - Material: Rigid closed cell, expanded polystyrene (EPS) board, Structural Grade.
 - Performance:
 - Flame Spread / Smoke Developed Index: Less than 25/450 to ASTM E84.
 - Thermal Resistance: RSI-0.78 (R-4.5), to ASTM C177.
 - Water absorption (by volume): Maximum 1.0 percent, to ASTM D2842.
 - Water vapour permeance: Maximum 160 ng/Pa.s.q m (2.8 Perm-inch), to ASTM E96.
 - Compressive Strength: Minimum 206 kPa (30.0 psi), to ASTM D-1621, Proc. A.
 - TERMINATOR chambers are fabricated in slide/snap-together sections.
- **ACCESSORIES**
 - End caps, splash pads and pipe supports.
- **DIMENSIONS**
 - Three standard profiles:
 - Type A (standard): 2400 mm (96") long x 650 mm (26") wide x 300 mm (12") high.
 - Type LP (low profile): 2400 mm (96") long x 650 mm (26") wide x 175 mm (7") high.
 - Type AG (at-grade): 2400 mm (96") long x 300 mm (12") wide x 175 mm (7") high.

PRODUCT PLACEMENT

- **PREPARATION**
 - Prepare trenches and filter beds.

Product Name

TERMINATOR™

Associated Specification Section

MasterFormat 1995 # 02541

MasterFormat 2004 # 33 36 13

Manufacturer's Name

Beaver Plastics

Sept 30, 2004

Page 4

PRODUCT DESCRIPTION

- **INSTALLATION**
 - Install insulated chambers in accordance with manufacturer's instructions for installation in absorption trenches, for gravity fed or pressurized distribution systems.
 - Install chambers level over length of trench, securely connected, chamber to chamber.
 - Install end caps and splash pan at inlet end of each chamber line.
 - Backfill with leaching bed fill or soil, not containing heavy clay, silt or debris.
 - Coordinate the work with connections to building sanitary sewer piping outlet.

Corporate Identification

Beaver Plastics
12150 – 160 Street
Edmonton, Alberta, Canada T5V 1H5

Phone 1-780-453-5961 (International)
Toll free: 1-888-453-5961 (U.S. and Canada)
Fax 1-780-453-3955
Internet web site: <http://www.beaverplastics.com>
E-mail: techsupport@beaverplastics.com

Technical Services Available

Phone toll free or e-mail

Classification and Filing

MasterFormat 2004:
33 36 13 - Utility Septic Tank and Effluent Wet Wells

MasterFormat 1995:
02541 – Septic Tank Systems

UniFormat 1998:
G3020 – Septic Systems, Drainage Field

END