

**Product Name**

TERRAFOAM® PLATINUM® 3000

**Associated Specification Section**

MasterFormat 2011 # 07 21 13

**Manufacturer's Name**

Beaver Plastics

August 29, 2011

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## PRODUCT DESCRIPTION

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### PRODUCT FEATURES

- DESCRIPTION

- Closed cell expanded polystyrene (EPS) insulation.

- USES

- Below grade applications:
  - Perimeter insulation for grade beams and foundation walls.
  - Insulation under concrete slabs and crawlspaces.
  - Frost protected shallow foundations.
  - Ice arenas and snow melt systems.
- Above grade applications:
  - Masonry and other cavity wall construction assemblies.
  - Roof insulation, including sloped, flat, and tapered applications.
  - Coolers, freezers, and ice arenas.

- PRODUCT ATTRIBUTES AND CHARACTERISTICS

- Excellent resistance to freeze/thaw cycles.
- Low moisture absorption.
- Contains no CFCs, HCFCs, or other refrigerant gases. Does not lose insulation value over time.
- Biologically inert. Will not support mould, mildew or fungus growth. Not a food source for pests.
- Contains a chemical additive to inhibit accidental ignition from a small fire source.
- Non-toxic and hypo-allergenic. Does not off-gas.
- The insulation value (R-Value) increases as temperature decreases.

- SELECTION CRITERIA

- Suitable for cold climate applications, where soil is prone to heaving.

- SUSTAINABILITY CRITERIA

- Manufactured near Acheson, AB and Chilliwack, BC, Canada.
- Contains no CFC or HCFC gasses; does not contribute to ozone depletion or global warming (contains only air).
- Non-toxic; does not irritate skin.

- APPLICABLE STANDARDS, RELATED REFERENCES

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- ASTM C272 – Standard Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions.
- ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials. Transmission Properties by Means of the Guarded-Hot-Plate Apparatus.
- ASTM D1621 - Standard Test Method for Compressive Properties of Rigid Cellular Plastics.
- ASTM D2842 - Standard Test Method for Water Absorption of Rigid Cellular Plastics.
- CAN/ULC-S701 – Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.
- **QUALITY STATEMENT, TESTS, CERTIFICATIONS, AND APPROVALS**
  - Canadian Construction Materials Centre (CCMC): CCMC #12982-L.
  - Performance tests certified by Intertek Testing Services Ltd.
  - ISO 9001:2000 Registered Company
- **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**
  - Slowly degrades after lengthy exposure to ultra-violet rays.
  - Product will burn when exposed to large continuous flame.
  - Anhydrous acids (such as sulphuric and formic acid) may degrade product.
- **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.

## PRODUCT PROPERTIES

- **MATERIALS, COMPOSITION, PROPERTIES**

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## ○ Technical Properties

- Rigid, closed cell, expanded polystyrene (EPS) board with integral radiant barrier, to ASTM C578 Type IX, and similar to CAN/ULC S701 Type 4.

PHYSICAL PROPERTY	ASTM TEST PROCEDURE	TERRAFOAM PLATINUM® 3000
Thermal Resistance (minimum)	m <sup>2</sup> C W/25mm @ 5 C	RSI 0.87 (R-5.0)
Compressive Strength (minimum)	ASTM C165	210 kPa (30 psi)
Flexural Strength (minimum)	ASTM C203	350 kPa (50 psi)
Water Vapour Permeance	ASTM E96M	130 ng/Pa.s.m <sup>2</sup> (2.3 perm-inch)
Water absorption (maximum)	ASTM C272	2%
Capillary Action		None

## ● ACCESSORIES

- Adhesives, insulation fasteners.

## ● DIMENSIONS

- Thickness: Any thickness from 12 mm to 762 mm (1/2" – 30").
- Standard board sizes:
  - 610 x 1220 mm (2' x 4') panels.
  - 1220 x 2440 mm (4' x 8') panels.
- Profiles: Square or shiplap edges, drainage slots, furring slots, and other custom profiles can be provided.

**PRODUCT PLACEMENT**

## ● INSTALLATION

- Install products in accordance with the manufacturer's instructions for each specific application.
- Cover exposed insulation with a finish acceptable to local building authorities.

## ● MAINTENANCE INSTRUCTIONS AND PROCEDURES

- Product incompatible with aromatic, aliphatic hydrocarbons, esters, amines, or anhydrous acids, which could cause degradation.

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**Corporate Identification**

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**Technical Services Available**

Phone toll free or e-mail

**Classification and Filing**

UniFormat 2010	
A2010	Walls for Subgrade Enclosures
A2010.90	Subgrade Enclosure Wall Supplementary Components
A4090.10	Perimeter Insulation
B1010	Floor Construction
B1010.90	Floor Construction Supplementary Components
B1020	Roof Construction
B1020.90	Roof Construction Supplementary Components
B2010	Exterior Walls
B2010.10	Exterior Wall Veneer
B2010.20	Exterior Wall Construction
B2010.40	Fabricated Exterior Wall Assemblies
B2010.80	Exterior Wall Supplementary Components
B3010	Roofing
B3010.10	Steep Slope Roofing
B3010.50	Low-Slope Roofing
B3010.90	Roofing Supplementary Components
B3040	Traffic Bearing Horizontal Enclosures
B3040.30	Horizontal Waterproofing Membrane
B3040.90	Horizontal Enclosure Supplementary Components
B3080	Overhead Exterior Enclosures

OmniClass 2010 Table 23 - Products

23-13 25 19

Thermal Insulation

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23-13 25 19 11	Slab and Board Thermal Insulation
23-13 25 19 11 11	Polystyrene Slab and Board Thermal Insulation
23-13 25 19 11 11 11	Expanded Polystyrene Slab and Board Thermal Insulation
23-13 39 31	Roof Membranes
23-35 20 21 11	Single Layer Roof Membranes
23-35 20 21 13	Multi Layer Roof Membranes
23-19 31 19 13	Insulated Rooms
23-19 31 19 13 11	Cold Storage Rooms

MasterFormat 2011:

- 07 21 13 – Board Insulation
- 07 21 13.13 – Foam Board Insulation
- 07 22 00 – Roof and Deck Insulation
- 07 50 00 – Membrane Roofing
- 07 51 00 – Built-Up Roofing
- 07 52 00 – Modified Bituminous Membrane Roofing
- 07 53 00 – Elastomeric Membrane Roofing
- 07 54 00 – Thermoplastic Membrane Roofing
- 07 55 00 – Protected Membrane Roofing
- 07 55 63 – Vegetated Protected Membrane Roofing

MasterFormat 1995:

- 07213 – Board Insulation

**END**