

This section includes a manufacturer's guide specification for EPS Frost Cushion® concrete void form material. Refer also to manufacturer's Product Description for detailed product properties, options, and other technical information. This section includes performance, proprietary, and descriptive type specifications; edit to avoid conflicting requirements.

Part 1 General

1.1 SECTION INCLUDES

In this article, select the components that are intended to be part of the content of this section and will not be included in other sections. Keep the statements brief and concise.

- .1 Expanded polystyrene void form material for use under concrete grade beams and other concrete structures.

1.2 RELATED SECTIONS

- .1 Section [03200] [03 20 00] – Concrete Reinforcement.
- .2 Section [03300] [03 30 00] - Cast-in-place Concrete: Supply of concrete.

1.3 REFERENCES

List reference standards that are included within the text of this section. Edit the following as required to parallel any reference standards statements within this section. Acronyms used for well known standards (first example) and defined text for less or named standards (second example).

- .1 ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

1.4 SUBMITTALS

Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings, thereby increasing the Specifier's liability. The following submittals are intended for review and acceptability.

- .1 Section [01300] [01 33 00]: Submission procedures.
- .2 Product Data: Submit product data sheets in accordance with Section [01300] [01 33 00].
- .3 Samples:
 - .1 Submit samples for verification in accordance with Section [01300] [01 33 00].
 - .2 Submit 200 mm (8 inch) square pieces of void-form material.
- .4 Installation Data: Special installation requirements.

1.5 QUALITY ASSURANCE

- .1 Manufacturer: ISO 9001:2000 registered company.
- .2 Perform Work in accordance with manufacturer's instructions.

1.6 DELIVERY, STORAGE, AND PROTECTION

- .1 Section [01600] [01 61 00]: Transport, handle, store, and protect products.
- .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .3 Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- .4 Store materials off ground, protected from direct sunlight if product is to be exposed for one month or more.
- .5 Remove damaged or deteriorated Products from site.

1.7 ENVIRONMENTAL REQUIREMENTS

- .1 Section [01600] [01 61 00]: Environmental conditions affecting products on site.

Part 2 Products

2.1 MANUFACTURERS:

- .1 Beaver Plastics: Product "FROST CUSHION".
- .2 Substitutions: [Refer to Section 01600.] [Not permitted.] [Refer to Instructions to Bidders.]

2.2 MATERIALS

- .1 Void forms: Rigid closed cell, expanded polystyrene (EPS).
 - .1 Flame Spread Index/ Smoke Developed Index: Less than 25/450 to ASTM E84.
 - .2 Compressive Strength: 27.5 kPa (4 psi).
 - .3 Panel size:
 - .1 Thickness: <[100 mm]> <<[4"]>> <[150 mm]> <<[6"]>>
 - .2 Width: <[200] [250] [300] [1220] mm> <<[8"] [10"] [12"] [48"]>> panels.
 - .3 Length: <2440 mm> <<8 feet>>.

2.3 FABRICATION

- .1 Configure void form material to compress from weight of structure.
- .2 Fabricate material to support concrete placing, finishing, and weight of the slab.

Part 3 Execution

3.1 PREPARATION

- .1 Verify that concrete forms are in place and site conditions are ready to receive work.

- .2 Beginning of installation implies acceptance of site conditions.

3.2 INSTALLATION

- .1 Install void forms to manufacturer instructions.
- .2 Protect forms from damage.
- .3 Place void forms at bottom of formwork with flat surface facing upwards.
- .4 Use plywood overlay or alternative material to distribute stresses from point loads.
- .5 Use hardboard or fibreboard to distribute point loads, if required.

3.3 PROTECTION OF FINISHED WORK

- .1 Section [01700] [01 45 00]: Protecting installed work.
- .2 Protect finished Work from damage.

END OF SECTION