

## SECTION 093000 – PRE-SLOPE COMPOSITE FOR USE IN FULL MORTAR BED SHOWER INSTALLATION

### PART 1 - GENERAL

This specification should include a sheet membrane for waterproofing the sloped shower base with tile installations and floor drains. The content of this section should be combined with the specification for the tile finishes including the setting materials required to complete the sheet membrane shower base installation.

#### 1.1 SUMMARY

Typical Floors: **PRO-SLOPE™** creates the code required pre-slope in full mortar bed tile installation.

Acceptable Floor Substrates: Concrete, plywood, backer board.

##### A. Section Includes:

1. Pre-sloped base for tile shower installations.
  - a. Composite made from Expanded Polystyrene with fiber board cutting template.

#### 1.2 REFERENCES

- A. ASTM D1621 Compression Deformation Value Test
- B. UPC 412.4 to 412.8
- C. TCNA Handbook - TCNA Handbook for Ceramic, Glass, and Stone Tile Installation.

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each specified product.
- B. LEED Submittals:

Include the next paragraph for LEED NC, LEED CS, and LEED for Schools.

1. Certificates for Credit MR 5: For regional materials, indicating location of manufacturer and point of extraction, harvest, or recovery. Include distance to Project, cost, and fraction by weight for regional components.

Include the next paragraph for LEED CI, only.

2. Certificates for Credit MR 5: For regionally manufactured [**and regionally extracted and manufactured**] materials indicating location of manufacturer [**and point of extraction, harvest, or recovery**]. Include distance to Project, cost, [**and fraction by weight**] for regional components.

- C. Shop Drawings:
  - 1. Include details of sheet membrane waterproofing installation with flashings and terminations.

#### 1.4 INFORMATIONAL SUBMITTALS

- A. Field quality-control reports.

### **PART 2 - PRODUCTS**

#### 2.1 PRE-SLOPED COMPOSITE FOR FULL MORTAR BED SHOWER INSTALLATION

- A. Materials: Composite made from Expanded Polystyrene with reinforced fiber cutting template on one side, tapered ¼ inch per foot (20.8 mm/m) slope.
  - 1. Basis of Design Manufacturer: Noble Company.
  - 2. Basis of Design Product: Pro-Slope.
  - 3. Performance:
    - a. Compressive Deformation Value Test: ASTM D1621: greater than 500 psf.
    - b. Slope ¼ inch per foot (20.8 mm/m).

#### 2.2 ACCESSORIES

- A. Chloraloy®: ASTM D4068, composite sheet membrane made from an alloy of non-plasticized Chlorinated Polyethylene (CPE) listed by IAPMO (UPC #4036).
  - 1. Basis of Design Manufacturer: Noble Company.
  - 2. Basis of Design Product: Chloraloy.
- B. Kit Accessories:
  - 1. Weep Hole Protector: Clear rigid PVC, 0.20 inch thick (5.08 mm).
    - a. Basis of Design Manufacturer: Noble Company.
    - b. Basis of Design Product: Positive Weep Protector®, patented weep hole protector (U.S. Patent #5,022,430).

### **PART 3 - EXECUTION**

#### 3.1 EXAMINATION

- A. Examine substrates for unacceptable conditions affecting pre-slope installation. Substrate must be smooth, solid, flat, and acceptable for shower application.

- B. Examine actual locations of piping connections before installation of pre-slope.
- C. Correct unacceptable conditions before installing pre-slope.

### 3.2 PREPARATION

Consider requiring more restrictive substrate tolerances when installing large format tile. Verify acceptable limits with tile manufacturer.

- 1. Surface Tolerance: Maximum variation from plane of 3/16 inch (4.5 mm) in 10 feet (3000 mm).

### 3.3 INSTALLATION – PRE-SLOPE FOR FULL MORTAR BED INSTALLATION

Include the next paragraph for full mortar bed applications.

- A. Installation notes (read all instructions prior to commencing work):
  - 1. Substrate must meet industry standards.
  - 2. Installer should follow industry standards, local building codes, and TCNA recommendations.  
  
For tub replacement use a PRO-SLOPE 4080 Tub Replacement which consists of: One PRO-SLOPE 4040, one PRO-SLOPE Small (thin) Tapered Extension, and one PRO-SLOPE Large (thick) Tapered Extension.
  - 3. If you are installing a PRO-SLOPE and the distance from the center of the drain to the wall exceeds the size of the PRO-SLOPE, choose one of the following options:
    - a) Use a PRO-SLOPE Tapered Extension.
    - b) Extend the slope to the wall with mortar.
- B. Select the PRO-SLOPE size best suited for your project: PS4040 (40" x 40"), PS6060 (60" x 60"), or PS4080 Tub Replacement.
- C. Unfold and place PRO-SLOPE outside the shower (in the same position as if PRO-SLOPE was in the shower) with cardboard facing upward.
- D. Measure shower from the center of the drain to each wall.
- E. Mark measurements on PRO-SLOPE and trim to fit if necessary. Follow this procedure for each wall to drain measurement.  
  
Note: A utility knife can be used to trim PRO-SLOPE.
- F. Install PRO-SLOPE with the printed side facing upwards.

NOTE: Do not remove the cardboard cutting template from the EPS.

- G. Install sheet waterproofing membrane (e.g. Chloraloy) per the manufacturer's instructions over PRO-SLOPE).
- H. Place a POSITIVE WEEP PROTECTOR (PWP) over the clamping ring on the threaded neck of the strainer.

### 3.4 FIELD QUALITY CONTROL

Include this article for flood testing floor waterproofing installations, only.

- A. Upon completion of sheet membrane installation, plug drains, dam perimeter of waterproofing, fill with water, and test per code.
  - 1. Inspect waterproofing for leaks.
  - 2. Repair leaks and re-test until watertight.
- B. Prepare test and inspection reports. Indicate corrective measures required to make installation watertight.

### 3.5 PROTECTION

- A. Protect pre-slope from pedestrian and vehicular traffic until membrane and mortar bed have been installed.

END OF SECTION 093000



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