

**1.0 SCOPE**

- 1.1** Installation and material of tile-lined shower receptors shall comply with this standard and the current edition of the Uniform Plumbing Code [UPC]<sup>TM</sup>, published by the International Association of Plumbing and Mechanical Officials (IAPMO).

**Note:** The following sections of the Uniform Plumbing Code shall apply.

- 411.1 Floor drains
- 411.5 Shower receptors
- 411.6 Shower receptor approval
- 411.7 Shower compartments
- 411.8 On-site built-up shower
- 411.9 Floors of public shower rooms

**2.0 GENERAL REQUIREMENTS**

- 2.1 Inspection of Work.** All surfaces prepared by others shall be inspected by the tile installer before starting tile work and all unsatisfactory conditions reported to the Administrative Authority. Starting tile work by the tile installer shall be considered as acceptance of surfaces prepared by others.

- 2.2 Surface.** All surfaces to receive tile work shall be clean, structurally sound, and conform in every way to the local building code.

(**Note:** No tile work shall proceed until the pan and drain construction has been inspected and approved by the Administrative Authority, where required.)

**3.0 PRODUCT REQUIREMENTS****3.1 Materials**

- 3.1.1 Tile Quality and Grade** – Tile shall comply with American National Standard Specification for Ceramic Tile, A137.1 (equivalent to and incorporating U.S. Dept. of Commerce Simplified Practice Recommendation, R61-61 and Federal Specification SS-T-308b, Tile, Floor, Wall, and Trim Units, Ceramic), or CTI 69.5.
- 3.1.2 Cement.** Cement shall be portland cement type I or type II, conforming to ASTM C150.
- 3.1.3 Sand.** Sand shall be damp, clean and graded ASTM C 778.
- 3.1.4 Water.** Water shall be potable.

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- 3.1.5 Reinforcing** shall be 2.5 lbs. per sq. yard (1.1 kg per m<sup>2</sup>) or greater galvanized metal lath conforming to ANSI A42.3 or 2 inches x 2 inches (51 mm x 51 mm), 16/16 gage or 3 inches x 3 inches (76 mm x 76 mm) mesh, 13 x 13 gage or 1-1/2 inches x 2 inches (38 mm x 51 mm) mesh, 16 x 13 gage steel, wire conforming to ASTM A82 and A 185.

- 3.1.6 Asphalt** shall conform to Federal Specification A-A-50694 OR ASTM D1227.

- 3.1.7 Plastic Roof Cement** shall conform to Federal Specifications SS-C-153.

- 3.1.8 Water Resistant Felt Membrane.** The water resistant felt membrane shall be at least 15 lb. (6.8 kg) asphalt saturated felt conforming to ASTM D2626.

- 3.1.9 Plastic Membrane** shall comply with ANSI A118.10.

- 3.1.10 Other Membranes** – Where the Administrative Authority approves their use, non-metallic sub-pans or linings or lead sheets weighing not less than 4 lbs. per sq. foot (191.5 Pa) and copper pans of at least No. 24 B & S gage (Brown & Sharp 0.0201 inches) or greater in thickness may be used.

- 3.1.11 Waterproofing Admixture** – The mortar bed of the receptor shall be mixed with a waterproof admixture approved by the Administrative Authority in the amounts allowed by such approval.

**3.2 CURRENTLY APPROVED MORTAR ADDITIVES**

Anti-Hydro—1 qt. (0.95 I) per sack of cement

Plastiment—1 lb. (0.5 kg) of powder per sack of cement

Plastiment—2 oz. (56.7 g) of fluid per sack of cement

Sika 3A—1 qt. (0.95 I) per sack of cement

Suconem (Red Label)—1 pint (0.47 I) per sack of cement

**4.0 INSTALLATION REQUIREMENTS**

- 4.1 Shower Drains** – An approved type shower floor drain with sub-drain shall be installed with every such shower membrane. Flange of each sub-drain shall be accurately set exactly level with sloping sub-floor and shall be equipped with a clamping ring or other approved device to make a tight connection between the membrane and the sub-drain. The sub-drain shall have weep holes into the waste