

**Installation Standard
For
TILE-LINED SHOWER RECEPTORS (and Replacements)**

IAPMO IS 4-2006

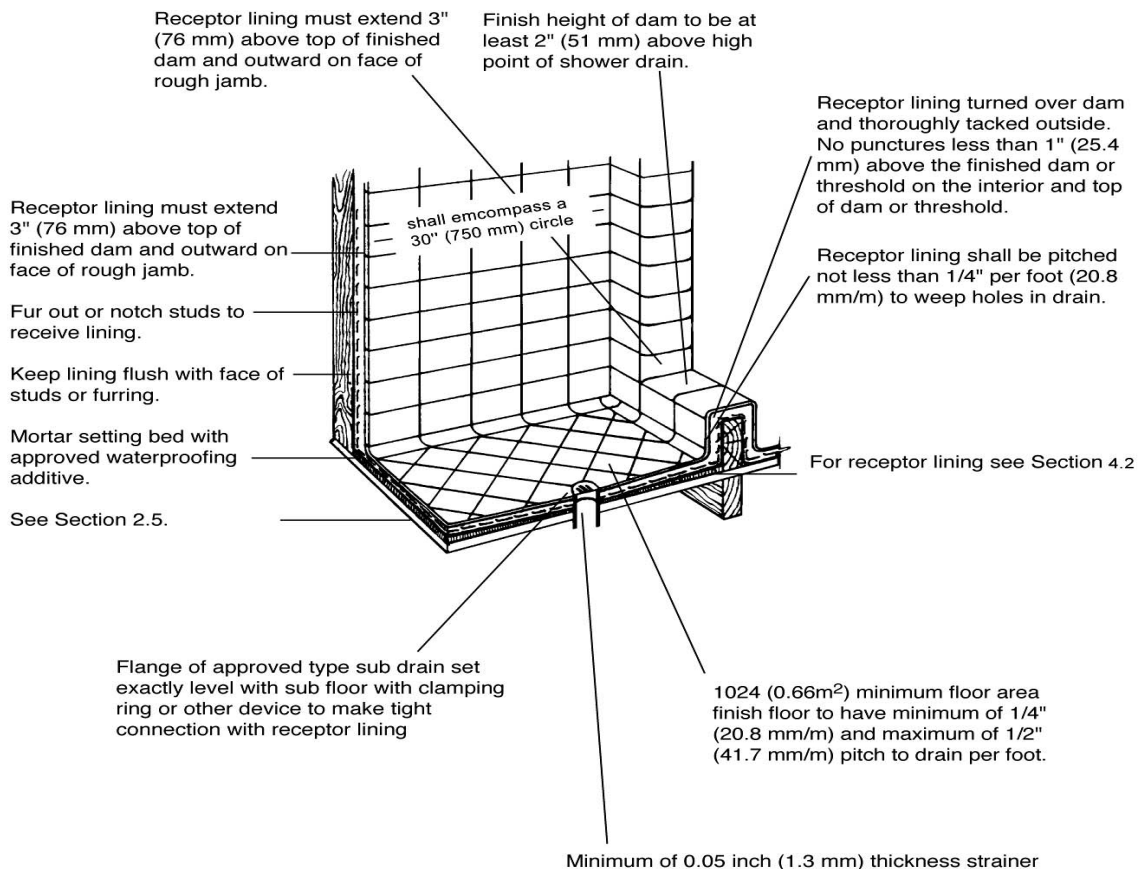
FORWARD

This standard specification for the installation of tile-lined shower receptors is the result of extensive study and research by the following:

Ceramic Tile Institute of America
Associated Tile Contractors of Southern California, Inc.
Tile Layers Local No. 18 of I.U.B.A.C, United

States and Canada
Tile Helpers Local No. 18 of I.U.B.A.C., of the United States and Canada

**APPROVED CONSTRUCTION OF TILE-LINED SHOWER RECEPTORS
STANDARD SPECIFICATION FOR THE INSTALLATION OF
TILE-LINED SHOWER RECEPTORS**



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]TM, published by the International Association of Plumbing and Mechanical Officials (IAPMO).

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

- 412.1 Floor drains
- 412.5 Shower receptors
- 412.6 Shower receptor approval
- 412.7 Shower compartments
- 412.8 On-site built-up shower
- 412.9 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 C 150.
- 3.1.3 **Sand.** Sand shall be damp, clean and graded ASTM C 778.
- 3.1.4 **Water.** Water shall be potable.
- 3.1.5 **Reinforcing** shall be 2.5 lbs. per sq. yard (1.1 kg per m²) 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 A 82 and A 185.

- 3.1.6 **Asphalt** shall conform to Federal Specification A-A-50694 OR ASTM D 1227.
- 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 D 2626.
- 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 l) 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 l) per sack of cement
Suconem (Red Label)—1 pint (0.47 l) 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 line. The weep holes located in the subdrain clamping ring shall be protected from becoming clogged during the