

# TILE INSTALLED IN STEAM ROOMS

## 321SR-2019-2021

 Please refer to page 7.

### DETAIL A – CONCRETE OR MASONRY CONSTRUCTION

#### SUITABLE SUBSTRATES

- Frame construction, masonry or concrete backing.

#### MATERIALS

- TILE
- MORTAR BED AND BOND COAT – Single or two component liquid latex-Portland cement mortar (minimum acceptable standard ANSI A118.4 or ISO 13007 C2S1).
- GROUT – per manufacturer's recommendations.

#### APPLICATION

- Tie wire spaced at 300 mm vertically and 406 mm to 600 mm horizontally. Attach to 6 mm steel pencil rods vertically over insulation; attach metal lath to pencil rods. Install scratch coat (see Tile Guide Specification Section Mixes 2.9.2.1), mortar bed (see Tile Guide Specification Section Mixes 2.9.2.3 and 2.9.2.5) and bond coat as per detail 307W-2019-2021 or 308W-2019-2021 (walls), Detail 310F-2019-2021 A (floors) and 315C-2019-2021 (ceilings).

#### LIMITATIONS

- Waterproofing membrane must be suitable for operating temperatures.

#### OTHER CONSIDERATIONS

- Detail 311F-2019-2021 may be used for floor installation provided that proper slope to drain is in the substrate.
- Drains should be designed to permit drainage of water at the tile surface and the surface of the waterproofing membrane. A drainage layer may be incorporated over the waterproofing membrane as recommended by the manufacturer. For drainage see Detail 326DR-2019-2021.
- Refer to Notes For The Professional and 301MJ-2019-2021.
- For high use showers and wet areas (hotels, gang showers, sports facilities etc.) a waterproofing membrane shall be used.\*
- All openings and cuts must be treated to ensure waterproof integrity.
- Refer to Detail 319B-2019-2021 for drainage detail.
- If waterproofing membrane is not specified a slurry bond coat must be applied to concrete slab.
- Slope ceilings 150 mm per 1000 mm and floors 20 mm per 1000 mm.
- Considering that tile installation in Steam Rooms are very detailed. The installation shall be performed by skilled mechanics trained and experienced in tile work with a minimum of five years of proven experience in projects of similar size and scope. If requested by Consultant, installer shall provide a listing of previously completed projects of similar size and scope. If using Natural Stone consult manufacturer or supplier for suitability.
- A water test is strongly recommended before setting tile to verify a successful installation. Wait 24 hours minimum after the membrane installation is complete to allow for final set of thin-set mortar and ensure waterproof performance at seams and connections.

\* For continuous steamrooms if the waterproofing membrane is acting as both the waterproofing membrane and the vapor retarder the waterproofing membrane must have a perm rating of .5 or less using ASTM E96 Procedure E with 90 % humidity. If the waterproofing membrane has a perm rating higher than .5 then a vapor retarder should be used that has a perm rating 1.0 or less when tested with ASTM E96 Procedure A.

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