

LARGE FORMAT (FUSED) GLASS TILE ON INTERIOR WALLS

328GTW-2019-2021



Please refer to page 7.

SUITABLE SUBSTRATES

- For installation on the following stable substrates: Gypsum Board, CBU, Fiber Cement Underlayment, Coated Glass Mat Water Resistant Gypsum Boards or Cured Mortar Bed.
- Gypsum Board for dry interiors only.
- Over dry, well-braced wood studs or furring.
- Over well-braced metal studs.

MATERIALS

- Gypsum board – ASTM C36 or C630.
- CBU – ANSI A118.9, installed in accordance with ANSI A108.9.
- Fibre Cement Underlayment – ASTM C1288.
- Cured mortar bed, lath and membrane – ANSI A108.1B.
- Crack Isolation Membrane – ANSI A118.12 (follow membrane manufacturer's instructions for use on vertical surfaces).
- Waterproofing Membrane – ANSI A118.10. Follow manufacturer's recommendations.
- Vapor/moisture barrier membrane (when required) to be 15 lb. roofing felt or minimum 4-mil polyethylene film.
- TILE*
- BOND COAT – White, rapid curing, two component latex-Portland cement mortar (minimum acceptable standard ANSI A118.4 or ISO 13007 C2S1).
- GROUT – Polymer modified tile grout per manufacturer's recommendation.

APPLICATION

- Crack Isolation Membrane – ANSI A108.17 or follow the CIM manufacturer's recommendations – to provide complete coverage of the substrate in the area on which the large format glass tile is to be installed.
- Waterproofing membrane – ANSI A108.3 or follow the CIM manufacturer's recommendations.
- Since many large format glass tiles are somewhat translucent it is very important that complete coverage be achieved by back buttering each piece of tile with white thin-set mortar immediately prior to setting the tile to ensure that no voids or bubbles are visible against the back of the glass tile.
- Install tile in accordance with ANSI A108.5 – use the minimum thickness of thin-set mortar that is recommended by the thin-set manufacturer – the maximum mortar thickness between the tile and C.I.M. is to be no greater than 3 mm after the tile has been beaten into place. An adequate thickness of thin-set mortar can generally be applied with a 5 mm V-notched trowel.
- Cutting of glass tile for any cuts other than those that are hidden in inside corners should be performed using a diamond blade designed for cutting glass on a wet saw – glass tile should be cut with the rotation of the saw blade into the glazed (back) side of the tile – on most saws this is face down.

LIMITATIONS

- This method is suitable only for large format glass tiles which are manufactured by fully fusing the colors/glazes/finishes with the glass body at temperatures above 550°C.
- Do not use regular gypsum board in wet areas such as tub & shower enclosures.
- Do not use in areas where gypsum board is exposed to temperatures above 52°C.

OTHER CONSIDERATIONS

- Maximum stud spacing – 406 mm o.c.
- Minimum recommended metal stud depth 92 mm.
- Metal studs – 20 gauge or heavier.
- Movement Joint (architect must specify type of joint and show location and details on drawings).
- Movement joints – mandatory, according to Detail 301MJ-2019-2021.
- Large Format Glass Tile with a facial surface area > 57.76 cm² and a surface area not greater than or equal to 3721 cm² (not greater than or equal to 930 cm² for cast glass) and such that the longest side is not greater than 4.25 times the shortest side.
- Use of a Lippage Control device may be required.

