

# TILE INSTALLED ON COATED GLASS MAT BACKER BOARD 305W-2019-2021

## DETAIL B - INTERIOR WET/DRY AREAS

### SUITABLE SUBSTRATES

- Wood or metal studs, maximum 406 mm o.c.

### MATERIALS

- Coated glass mat backer board – minimum 13 mm thick. (ASTM C1178).
- TILE
- TAPE – 51 mm fibre-mesh.
- BOND COAT – Latex-Portland cement grout (minimum acceptable standard ANSI A118.6 or ISO 13007 CG1) Type 1 organic adhesive (for porosity only) (minimum acceptable standard ANSI A136.1 or ISO 13007 D1).
- GROUT – Latex-Portland cement grout (minimum acceptable standard ANSI A 118.6 or ISO 13007 CG1), epoxy grout (minimum acceptable standard ANSI A 118.3 or ISO 13007 RG).

### APPLICATION

- Attach coated glass mat backer board to studs with corrosion resistant fasteners and shall be spaced 150 mm o.c. with coated grey side away from the studs. Drive fasteners flush with coated surface. Do not countersink. Surface variation in the backing not to exceed 6 mm in 3000 mm or 2 mm in 300 mm and can be applied either parallel or perpendicular to framing. For large format tile where any side is greater than 380 mm surface variation should not exceed 3 mm in 3000 mm and 1.5 mm in 600 mm. Apply bond coat to mortar bed surface. Use proper notched trowel to ensure adequate bond. Place the tiles firmly into the wet bond coat. Push the tiles back and forth in a direction perpendicular to trowel lines, to collapse the mortar ridges and to help achieve maximum coverage. Ensure proper contact between mortar, tile and substrate by periodically lifting a few tiles to check for acceptable coverage. Use sufficient bond coat to ensure minimum 80% contact. Remove excess mortar from the joint areas so that at least 2/3 of the tile depth is available for grouting. Allow bond coat to cure. Force grout into the joints with a rubber grout float. Make sure all joints are well-compacted and free of voids and gaps. Remove excess grout from the tile surface and clean.

### LIMITATIONS

- Follow manufacturer's recommendations. Coated glass mat backer board not to be used where prolonged exposure to heat exceeds 52°C and not to be used for exterior use unless recommended by the manufacturer. It is not recommended for use with passive solar heat systems. Maximum tile size is 356 mm x 356 mm x 10 mm thick. Do not apply directly over concrete or masonry block.
- Do not use paper back or mesh back mounted tile in wet areas unless the manufacturer guarantees that the material is suitable for this type of installation.

### OTHER CONSIDERATIONS

- Movement joints, spacing and minimum gauge of steel studs as per manufacturer's instructions of coated glass mat backer board.
- Waterproofing membrane if required must be specified. (ANSI A118.10) Follow manufacturer's recommendations.
- All openings and cuts must be treated to ensure waterproof integrity.
- Tile used on exterior applications must be frost resistant.
- It is recommended to back butter stone or agglomerated stone in wet indoor or exterior installations.
- Refer to Notes For The Professional and 301MJ-2019-2021.
- A waterproofing membrane or vapour retarder not to be used behind coated glass mat backer board.
- For high use showers (hotels, gang showers, sports facilities, etc.) a waterproofing membrane shall be used on the side to receive tile. Refer to Detail 319SR-2019-2021.
- Do not apply coated glass mat backer board over a vapour barrier or water-proof membrane.
- Latex Portland cement mortars may require 14 – 60 days cure before exposure to water. Verify with the manufacturer the correct cure time required. Alternatively, to reduce the curing time required, a rapid set mortar may be more suitable.

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