



GLASS TILE CHARACTERISTICS

Our material is made of clear and transparent glass. The back of the glass tile is coated with the desired pigment(s) and a white protective coating visible from the back of the tile. The multi-layered protective coating is fired with the tile and ensures that the thin-set mortars will not be visible after installation. The pigments and glass are made from natural minerals and as such the firing process will cause slight variations in shades and size. All material is sorted according to ANSI standard A137 size tolerances and packaging is clearly marked with caliber and shade/tone/dye-lot. Mosaic formats are fiberglass mesh-mounted.

GLASS INSTALLATION INSTRUCTIONS

These instructions are meant to be a guide for most installations, under normal conditions. Please follow best practice instructions found in the Tile Council of North America (TCNA) 09300 Handbook for specific installation types.

MATERIAL INSPECTION

Verify all products before installation for any damage or defects such as chipped edges, scratched surfaces. Confirm the caliber and dye-lot shade, all packaging is clearly marked with shade (overall color tone) and caliber (allowable size variation). It is not recommended to mix dye lots or calibers.

Due to the nature of the material and production process it may be possible to “see through” the clear glass on certain angles which can appear as a lighter line along the edges of the glass. This is not a factory defect or deficiency of any kind in the material and should be expected by the end consumer. No adjustment will be made after installation.

**Always use appropriate personal protective safety equipment when handling, drilling, cutting or grinding glass tile such as (but not limited to) eye, ear and hand protection.*

SUBSTRATE

Before you start tiling, make sure that whatever surface the tiles are being installed to will be strong and structurally sound. Cement board, concrete or drywall is best, as these surfaces can handle the moisture of the tiling process. Plywood should be avoided, since the wood will warp with the added moisture and it will also be less waterproof, even after tiling.



INSTALLATION MATERIAL

Thin-Set

When setting glass tiles and mosaics we recommend the use of polymer or latex modified thin set or medium bed mortar compliant with ANSI standard A118.4 and is recommended for use with glass tile. We recommend using white modified thin-set, which will allow the true color of the glass to come true. *The color of the thin-set will affect the final appearance of the glass color.*

Tools

3/16" or 1/4" square notch trowel should be used when installing our glass material and ridges should be smoothed down with the flat side of the trowel prior to fixing the tiles in the mortar bed. Tiles larger than 3"x3" should be "back-buttered" with a thin continuous layer of the thin set applied with the flat side of the trowel.

Drying Time

Glass tiles are non-porous: the moisture in the setting materials cannot migrate through the glass and must evaporate slowly through the joints. All setting material, even rapidest mortars need a longer time to cure. Allow thin-set mortar to **dry completely** for a minimum of 48 hours prior to grouting or otherwise interfering with the fresh installation.

Cutting

Use a glasscutter (score and snap) with a new diamond wheel for best results when cutting our glass tiles. Wetting the diamond wheel with oil before cutting will produce the smoothest cuts. In some cases it may be possible to use a wet-saw with a new, continuous rim diamond blade specifically designed for cutting glass. Do not use "turbo" or other notched blades designed for use with porcelain or ceramic as the teeth can cause a coarse cut, resulting in a heavily chipped edge.

To cut angles without a wet saw or grinder, drill a small hole at the apex of the angle prior to cutting. In most cases, this will allow the use of a score and snap cutter and avoid small cracks that can happen at the angle.

Cut edges and corners will be sharp. Always be sure to smooth the cut edges manually with a diamond hand pad or ceramic dressing stone.



Drilling

If possible, drill holes before installing tile. Drilling from both sides can ensure a cleaner finish if the hole will be visible after installation. Using a new diamond coring bit (for large holes) or spade bit (for small holes) with a diamond tip made for glass drilling will give the best results. Lubricating the bit and tile surface with a continuous spray of oil/water mix will prolong the life of bits and provide a better-finished edge. When possible, the use of a jig will ensure precise placement of holes to be drilled.

When drilling holes for anchoring bolts, plumbing or any other dissimilar material always ensure a minimum of 1/8" clearance around the item is provided to avoid cracking due to disparate expansion and contraction rates or stress transfer.

GROUTING

Non-sanded grout that is latex or polymer modified and compliant with A118.4 should be used for our glass material. If sanded grout must be used for technical or aesthetic reasons, gentle application of grout with a soft rubber float is recommended to minimize the possibility of surface scratching. A "mock up" or testing installation should be executed to ensure results are acceptable.

After grouting, wipe of excess surface grout with a slightly damp sponge - **do not over wash**. After initial wash has been allowed to haze, wipe once with minimal pressure at a 45-degree angle to joints and rinse sponge after wiping once with each side. Any remaining haze can be buffed off with a dry towel or cheesecloth after grout surface has dried sufficiently.

CARE AND MAINTENANCE

For normal care and maintenance of glass tile, wiping the surface with a damp sponge or clothe with water or a light vinegar solution is sufficient. If stronger cleaning is needed, a nonabrasive, neutral pH cleaner can be used.

Glass tile may be damaged from impact with hard or heavy objects, which can lead to chipping or breakage causing sharp cutting edges that can lead to injuries. Always replace any damaged glass tiles immediately.