



INFORMATION & GUIDELINES FOR THE INSTALLATION OF CONSTANTINE GLASS

RECOMMENDED INSTALLATION

Constantine Glass tiles are designed for almost any commercial and residential interior and exterior application including walls, ceilings, countertops, backsplashes and more. It is not recommended for areas that may be subject to heavy impact, heavy abrasion, and areas where temperatures can exceed 130 degrees Fahrenheit.

This mosaic is also suitable for all water features, including fountains, pools, spas, showers and steam rooms.

We always recommend dry-fitting your pattern first to think about your cuts in advance and to make sure you like the pattern. This will also help you choose which pieces go where, which is especially helpful with tiles that have a lot of variation.

NOTE: this document contains only guidelines for the installation process. A professional installer should always be consulted to discuss the specific parameters surrounding your project.

SUBSTRATES

All substrates should be firmly fixed, flat, clean, dry and free of contaminants such as dust, oil, paint, sealers etc. to ensure proper adhesion. Painted surfaces must be scuffed or sanded for the product and adhesive to bond correctly. Wet areas need special attention and require appropriate substrates, e.g. concrete, cement boards (compressed sheet), and/or treated plywood. The use of reinforced waterproof membranes is suggested, and in the case of floors, a fall to the drainage point of no less than two inches.

WATERPROOF MEMBRANES

Waterproof membranes prevent leakage of water through to the sub-floor framing and/or habitable spaces below. Particular attention must be paid to: carrying the membrane up the wall, outside shower boxes, installation of bond breakers, and sealing around penetrations. It is strongly recommended that membrane systems be used in all wet areas. Some systems may involve the use of a primer.

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 is to 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.

ADHESIVE

Follow the adhesive manufacturer's instructions carefully. We do not recommend one brand of adhesive over another. Please check with your local tile supply store for alternative and comparable products.

The manufacturer's literature will explain if the adhesive product is suitable for interiors and/or exteriors, as well as walls and floors. Most thinset mortars with a latex additive (multi-purpose and polymer modified thinsets) are adequate for installing glass. A cement-based adhesive is generally suitable on masonry substrates where no movement is anticipated. Where slight movement could occur through thermal or pedestrian loads, a modified cement adhesive should be used as a minimum. A 1/4" – 1/8" notch trowel is recommended for most applications. Set the tile in place gently tapping it in with a grout float to ensure 100% adhesive coverage.

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 (such as with mosaics with larger grout joints), gentle application of grout with a soft rubber float is recommended to minimize the possibility of surface scratching.

SEALANTS

The glass tiles do not have to be sealed but we strongly recommend sealing the grout after installation to help prevent it from absorbing stains.



CARE & CLEANING

Constantine Glass tiles must be regularly cleaned and maintained to extend the life and beauty of the tile. For normal care and maintenance of glass tile, wiping the surface

with a damp sponge or cloth with water or a light vinegar solution is sufficient. If stronger cleaning is needed, a nonabrasive, neutral pH cleaner can be used.

Glass tiles 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.