

CERAMIC INSTALLATION GUIDELINES-SHINJU

Please read carefully before beginning installation.

We recommend the hiring of a licensed professional tile installer who is experienced with the installation of ceramic tile.

The owner or owner's representative is responsible for determining the acceptability of the product prior to installation. Upon delivery, open and inspect each piece of tile to verify order accuracy and tile-to-tile color consistency, keeping in mind that due to the handmade, artistic nature of this product, variation in color, shade, tone, shape and size should be expected. Any discrepancies should be communicated immediately to the point of purchase.

Installation Constitutes Acceptance

SUBSTRATE PREPARATION

Concrete slabs (on grade) cured a minimum of 28 days, free of cracks, curing agents and any signs of laitance.

Well cured mortar beds (ANSI A108.1B Standards-cured a minimum 7 days).

Cement Board/backer units (CBU) to ANSI A118.9 Standards (Note: An ANSI A108A-2.1.8 membrane is required behind all CBU installations in wet areas).

Gypsum board (dry areas only) installed to ASTM C1396 or ASTM C1396M-04 Standards.

Do not install ceramic tile directly over Particle Board or Plywood!

The tile installation's substructure, location and substrate type (e.g. CBU or concrete) will influence the details of how the substrate should be prepared. Appropriate substrate preparation methods are detailed in the Tile Council of North America's "2015 TCNA Handbook for Ceramic, Glass, and Stone Tile Installation" (or current version) and are organized by alphanumeric designation (e.g. W243-15). Refer to the TCNA Handbook for details. The TCNA Handbook is available for purchase at www.tcnatile.com.

ACCEPTABLE ADHESIVES

Use Mastic or Thin-set to install ceramic tiles. Follow the adhesive manufacturer's recommendation for ceramic tile installations and usage requirements.

PROCESS

Key or apply adhesive into substrate evenly with a v-notch trowel. Work in sections of approximately 2 square feet at a time. A 3/16"x 1/4" V-Notch trowel is recommended for installation. Check periodically during installation to verify proper coverage. Clean back of tile prior to installation.

Before grouting, allow adhesives to cure for the timeframe recommended by the manufacturer. Typically cure times will vary from 24-48 hours.

MEMBRANES

There are a wide variety of anti-fracture and waterproofing membranes available for use in tile installations. Membranes will vary in type, installation method and performance. Depending on the application, installing Ceramic tile over an anti-fracture membrane may be beneficial. Consult the membrane manufacturer for specific recommendations and limitations.

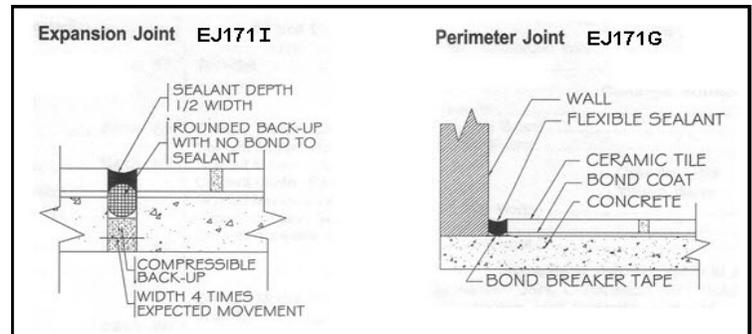
MOVEMENT JOINTS EJ-171

Movement joints are essential for the success of most tile installations. Follow recommendations on Movement Joints EJ171-15 in the "2015 TCNA Handbook for Ceramic, Glass and Stone Tile Installation (or current version)." Movement joint requirements will vary based on substrata, climate and size of installation. An architect or design professional should be consulted when specifying the exact number and location of each movement joint.

Movement/Expansion Joints: Refer to TCNA - EJ171

A soft joint is required between any change of material within the tile installation (tile to tile, tile to metal, tile to wood).

Additional movement provisions may be required based on the conditions of the project.



GROUTING

We recommend using standard sanded grout with our ceramic tile. Apply grout following the material manufacturer's instructions, and let dry 10-20 minutes. Using a slightly damp sponge, wipe diagonally across the tile to remove grout film and haze from the surface. Let dry, then wipe with a lint free cloth as a final step, buffing away all residual grout from the surface of the tile.

*Note on Grout Color: Since many of our Shinju patterns have a textured or ribbed surface, we recommend using a similar/complementary grout color to the tile color and to avoid use of a high contrast grout color to minimize the effect of any grout that may remain on the surface after cleaning. If you do choose a contrasting grout color, we recommend that your professional installer pre-seal or use grout release on the tiles to avoid staining. The sealer and grout release should be tested on a sample tile before application on the entire installation.

GROUT HAZE

Do not allow grout to fully dry on the surface! Grout haze is a very thin layer of grout which results from allowing the grout to fully dry on the surface of the tile. **During installation** the grout must be completely wiped from the tile surface followed by buffing with a soft cloth to remove any residual grout film. Once the grout dries overnight there is little that can be done to remove grout haze, aside from washing the tile with one of the commercial acid grout haze removers.

CUTTING

Our ceramic tile can be cut and meet jobsite dimensions with the use of a high-quality wet tile saw equipped with a continuous, smooth-rim, diamond glass tile blade. To minimize chipping of tile, fully support the tile during cutting, and cut tile with liberal water flow. Edges which have been cut should be smoothed with diamond hand pad or other similar smoothing tool.

If it is necessary to drill holes in the tile we recommend doing so with a low speed drill equipped with a diamond tipped core bit **BEFORE** installation. Water must be sprayed on the surface and drill bit continuously during drilling.

RESOURCES & INDUSTRY GROUPS

(NTCA) National Tile Contractors Association	www.tile-assn.com
(TCNA) Tile Council of North America	www.tcnatile.com
(TTMAC) Terrazzo Tile and Marble Assoc. of Canada	www.ttmac.com
(CTIOA) Ceramic Tile Institute of America, Glass Field Reports	www.ctioa.org

www.LunadaBayTile.com

Lunada Bay Tile provides product information and information concerning installation procedures and maintenance practices to assist each of its customers in making selection, usage, installation and maintenance decisions. Customer's selection and usage of Lunada Bay Tile products and the installation procedure and maintenance practice employed by each customer are outside the direction and control of Lunada Bay Tile and are strictly and completely the choice and responsibility of each customer and their installer. Lunada Bay Tile does not warrantee any product for any specific use, nor any installation procedure or maintenance practice, and expressly disclaims all asserted claims after installation of Lunada Bay Tile products.