

CONCRETE TILE: INSTALLATION GUIDELINES

Please read carefully before beginning installation.

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

The owner or owner's representative is responsible for determining the acceptability of the product. Prior to installation OPEN AND INSPECT ALL BOXES to verify that product is correct series, size/pattern and color. Notify your tile dealer immediately of any damage, defect or other issue. Damaged or scratched tiles should be replaced prior to installation. Variation in color, shade, shape, finish and size are inherent in artistic hand-cast Concrete Tile. Lunada Bay Tile recommends a random sampling be taken from multiple boxes, inspected and blended prior to and throughout the installation process. Installation constitutes acceptance.

USAGE AND LIMITATIONS

Our concrete tiles 8mm edge thickness coordinates with our standard ceramic and glass tile, extending design opportunities with the ability to easily combine with other Lunada Bay Tile collections.

- **Contourz** is suitable for indoor and outdoor use on walls, backsplashes, shower walls and low traffic residential interior floors.
- **Tommy Bahama - Kapa** is suitable for indoor walls, backsplashes, and shower walls. The Kapa series is not acceptable for use on floors.

In general, concrete tile has similar characteristics and care requirements as natural stone (marble or limestone).

CONCRETE TILE IS NOT RECOMMENDED FOR SUBMERGED WATER APPLICATIONS SUCH AS POOLS/SPAS, OR IN STEAM SHOWERS.

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 concrete tiles 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 current version of the **"TCNA Handbook for Ceramic, Glass, and Stone Tile Installation"** 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

Make sure you choose an adhesive recommended for the specific type of area where the product is being installed. In general, we recommend using a modified Portland cement-based product for installation of our concrete products. Please check with manufacturer of setting material prior to installation for acceptability.

PROCESS

Key or apply adhesive into substrate evenly with a square notch trowel. Work in sections of approximately 2 square feet at a time. A ¼" x ¼" square-notch trowel is recommended for installation. Check periodically during installation to verify proper coverage. Clean and wipe back of tile prior to installation.

Recommended spacing for grouted installations is 1.5mm, and 0.5mm if installation is left un-grouted.

Before grouting, allow adhesives to cure for the timeframe recommended by the manufacturer. Typically cure times will vary from 24-48 hours. (See section on GROUTING)

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 concrete tile over an anti-fracture membrane may be beneficial. Consult the membrane manufacturer for specific recommendations and limitations.

Cutting Guidelines

- We recommend **WET** cutting **ONLY**
- Do **NOT** dry cut using power tools
- Improper cutting techniques could expose installer to harmful dust

California Residents Only - Prop 65

- **WARNING:** This product can expose you to chemicals that are known to the State of California as harmful. Airborne particles of respirable size are created when product is dry cut or ground. Please strictly adhere to the cutting guidelines. For more information, please visit www.P65Warnings.ca.gov.

Cutting Concrete Tile

- Use **ONLY** a **WET** saw with a diamond blade designed for porcelain and ceramic material
- Do **NOT** dry cut using power tools
- To prevent rough edges, tile must be cut slowly with a liberal water flow
- To minimize chipping, tile must be fully supported during cutting
- Cut edges should be smoothed with a diamond hand pad or similar tool as needed

Drilling Holes

- **WET** drill tile *before* installation. Drilling from both sides will minimize chipping and cracking
- Use a diamond core bit at low speed (250 to 300rpm)
- Constantly wet the tile and drill bit with water during drilling to prevent tile from cracking
- Openings should be 1/8" larger than fixture fittings to avoid stress transfer to the tile

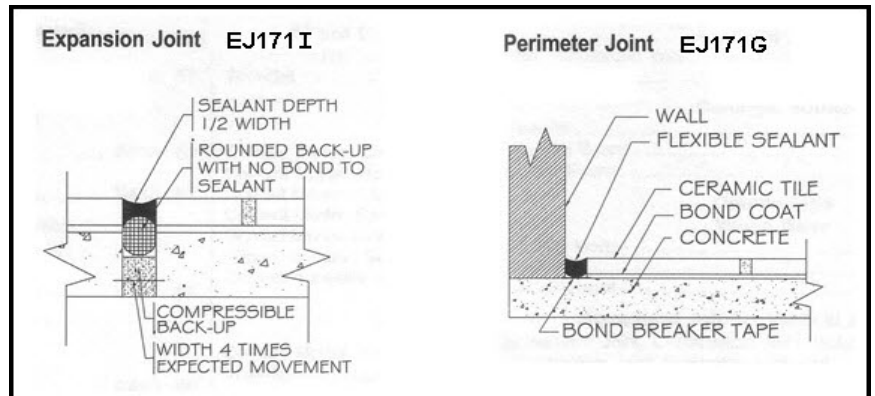
MOVEMENT JOINTS EJ-171

Movement joints are essential for the success of most tile installations. Follow recommendations on Movement Joints EJ171-18 in the current version of the "**TCNA Handbook for Ceramic, Glass, and Stone Tile Installation.**" Movement joint requirements will vary based on substrate, 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 in direction or 90-degree angle and any dissimilar 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 a non-sanded grout and clean cotton cloth for damp cleanup. Also, where tile-contractor is familiar with grout bag techniques, it is recommended as the method to target competent and successful grout application. Illustrated below.



*** Contourz Only:** If installation is an area where material is not exposed to moisture, grouting is optional. We recommend the use of 0.5 mm spacers if installation will not be grouted.

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 dry on the surface of the tile. During installation the grout must be completely removed from the tile surface to eliminate haze, followed by a final 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 without damaging the surface of the tile. When cleaning the grout, avoid harsh chemicals such as lacquer-based thinners, acetone, denatured alcohol, ammonia or bleach, as well as abrasive cleaners and scrubbing pads. Do not use acidic haze removers as they may affect the factory applied sealer. Non-abrasive, mild pH neutral cleaners are the best way to clean the tile.

GROUT SEALING

Kapa and Contourz (sealed version) are pre-sealed at the factory. If additional sealing is contemplated or required, we recommend using only a water-based sealer.

CARE & MAINTENANCE

Additional information on Care and Maintenance can be found on our website.

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

Questions? Please contact our Technical Services Department at TechnicalServices@LunadaBayTile.com

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 warrant 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. See website for specific warranty.