

Streamline®

Collection Sheet

10-12-20 Rev. B

Product Description

Streamline from Florida Tile combines classic shapes and colors with an immense decorative offering. Intended to coordinate with popular glass and stone collections in today's eclectic looks, this signature wall tile line is the optimal choice for any wall application. Whether designing for residential or commercial spaces, you will find the right elements to build a space with enduring elegance. Available formats are 3x6, and 4x16 along with trim shapes to complete any installation. This includes bullnose, bullnose corner, cove base, cove base corners, quarter round, and quarter round corners. The 4x16 are modular to each other and the 3x6 size coordinates with our glass and stone product offerings.



Product Group: Ceramic: Suitable for wall application

Surface Finish: Matte, Glossy

Edge Finish: Pressed

Country of Origin: Spain (Field Tile)

Corporate Contact Information

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Format, Thickness

Thickness [mm]	
7.3 mm	8 mm
3x6, 4x4	4x16

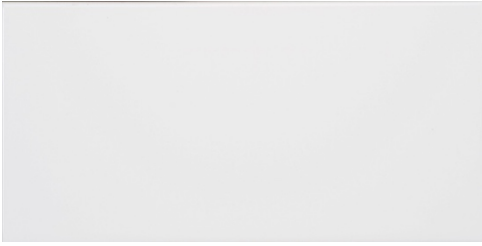
Type	Shape	SKU	Size
Bullnose		S44G9-STM	4x16
Outside Corner		SN4449-STM	4x4
Bullnose		S4449-STM	4x4
Bullnose		S4369-STM	3x6
Bullnose		S4639-STM	6x3
Outside Corner		SN4339-STM	3x3
Cove Base		S3689-STM	6x8
Cove Base Corner		OC3169-STM	6x1
Quarter Round		A106-STM	0.75x6
Quarter Round Corner		AZ106-STM	0.75x0.75

Technical Data

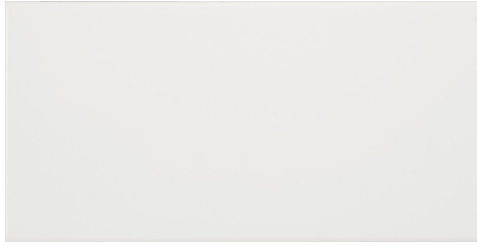
Technical Characteristics	Test Method (ASTM)	ANSI A137.1	Series Average Values
Water Absorption	C373	$\leq 0.5\%$ (Porcelain)	Conforms
		$7.0\% < \text{Value} \leq 20.0\%$ (Ceramic)	Conforms
Breaking Strength	C648	$\geq 125\text{lb}_f$ (Ceramic)	$\geq 150\text{lb}_f$
Linear Thermal Expansion	C372	Not Required	Conforms
Thermal Shock Resistance	C484	No sample must show visible signs	Conforms
Chemical Resistance	C650	Not Required	Conforms
Stain Resistance	C1378	Not Required	Conforms
Freeze/Thaw Resistance	C1378	No sample must show visible signs	Conforms
Bond Strength	C482	$\geq 50\text{ PSI (0.34 MPa)}$	Conforms
Shade Variation	ANSI 137.1	Manufacturer Statement	V1 Uniform Appearance
Thickness	C499	Max Range 0.040" (1.02 mm)	max ± 0.030 inch
Surface Hardness	Mohs Scale	As Reported	5 Mohs
Warpage Edge	C485	Porcelain	Conforms
		Ceramic	Conforms
Warpage Diagonal	C485	Porcelain	Conforms
		Ceramic	Conforms

Collection Color Variations

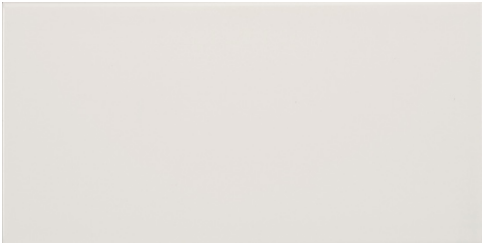
Arctic 310



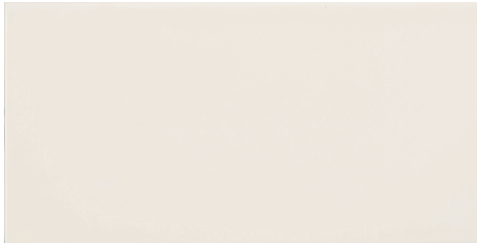
Arctic Matte 410



Buff 320



Buff Matte 420



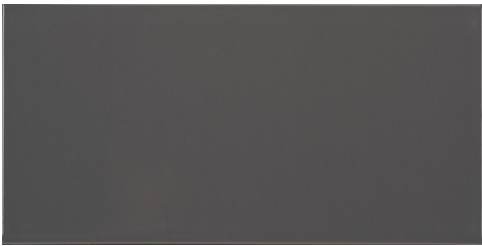
Dorain 311



Dorian Matte 411



Gunmetal 312



Wave Listellos

Arctic 310L



Arctic Matte 410L



Buff 320L



Buff Matte 420L



Dorain 311L



Dorian Matte 411L



Gunmetal 312L



Gemstone Listellos

Cool



Certifications

- Recycle Content: 40% pre consumer
- Greenguard Gold Certification
- Safety Data Sheet



General Tile Installation

The following information is a general ceramic tile installation guide. Every application is unique to the end user's desire. For specific guideline on a particular application, please consult an experienced tile installer or the TCNA handbook.

Substrate Requirements

- Maximum Allowable Deflection for Floor Systems and Substrates
 - Floor systems, whether wood framed or concrete, over the tile will be installed using the appropriate TCNA method, according to the "Floor Tiling Installation Guide" shall be in conformance with the International Residential Code (IRC) for residential application and International Building Code (IBC) for commercial applications.
 - For ceramic tile installations over framed floors, the maximum live load and concentrated load allowable deflection should not exceed $L/360$.
 - L is the clear span length of the supporting member per applicable building code
 - For natural stone installations over framed floors, the maximum live load and concentrated load allowable deflection should not exceed $L/720$.
- Natural Stone Tile Installations on Post-Tensioned Concrete
 - TCNA installation method is the only method for installing natural stone tile over post-tensioned slabs, above ground or on ground since dynamic movement of post-tensioned slabs have been proven to be problematic for directly bonded natural stones.
- Proper Spacing for Wood Subflooring and Wood Underlayment
 - Plywood subflooring, OSB subflooring, and plywood underlayment should be installed with proper spacing between the sheet (usually $1/8^{\text{th}}$ in., unless specified otherwise per wood manufacturer).
- Natural Stone Tile Installations Over Wood Substrates
 - Two layers of structural wood panels are required on floors to receive stone tiles when backer board will be used as the tile substrate. The Marble Institute of America (MIA) prohibits installation of stones over single-layer wood floor systems under backer board because of the discontinuity of the system seams between subfloor panels.
- Natural Stone Tile Installation Over Frame Construction
 - Strongbacks, bridging, or other load-sharing members may be required within a wood framed system to reduce differential deflection between adjacent framing members. Project design professionals are responsible for determining the necessity of such.

- Suitable substrate
 - Plywood
 - Manufactured with fully waterproof adhesive and with an exposure durability rate of Exposure 1 of Exterior may be used on residential horizontal surface. Wood based substrates failing to meet the requirement risk expansion and contraction based on water content which can be detrimental to tile installation and are not recommended.
 - Gypsum Board
 - A membrane and metal lath to cover the backing is recommended when specifying gypsum for setting tile in Portland cement mortar.
 - Gypsum board should NEVER be used in wet area applications except for interior application where water exposure is minimum.
 - Concrete
 - Provide properly located control joints or other effective measures (uncoupling membrane) to prevent cracking
 - Cementitious Backer Unit (CBU)

Substrate Tolerances

- Flatness for Ceramic Tile and Stone Tile Installations
 - To facilitate a tile installation that will meet ANSI finish flatness requirements or a stone installation that will meet MIA finish flatness requirements, the installation substrate must meet ANSI A108.02 and MIA's DSDM.
- General Substrate Tolerance
 - The finish flatness allowable deviation for ceramic tile installation is 1/4th inch in 10 feet from the required plane according to ANSI. For stone installation, the allowable deviation is 1/8th inch in 10 feet from the required plane according to MIA.
- Substrate Tolerance for Thin-Bed Methods
 - For cementitious bonding material, including mortar for large and heavy tiles, for tiles with edges shorter than 15 inches, the maximum allowable deviation in the tile substrate is 1/4th in 10 feet with no more than 1/16th inch variation in 12 inches when measured from the high points in the surface.
 - For tiles with at least on edge longer than 15 inches, the maximum allowable deviation is 1/8th inch in 10 feet with no more than 1/16th inch variation in 24 inches when measured from the high points in the surface.
 - For organic/epoxy bonding material, the maximum allowable deviation in the tile substrate is 1/16th in 3 feet with no abrupt irregularities greater than 1/32 inch.

Installation

- Cutting Instructions
 - Florida Tile recommends all cuts to be made with a wet saw or manual cutting. Dry cutting is inadvisable due to improper use of PPE could expose the installer to harmful silica dust.
- Setting Material
 - Portland Cement Mortar Bed
 - Refer to ANSI A108.1A-C and follow setting material manufacturer instructions.
 - Thin Set Method
 - Refer to ANSI A108.4, A108.5, A108.9, A108.12, A108.13, and A108.17 and follow setting material manufacturer instructions.

- Minimum Mortar Thickness: 3/32 inch
- Maximum Mortar Thickness: 3/16 inch
- Grout Joint
 - Per TCNA Handbook, the minimum required joint width for ceramic tile and natural stone is 1/16 inch. Setting ceramic or stone without a grout joint of a least 1/16 inch, often referred to as a butt joint, does not provide sufficient accommodation for dynamic building movement, differential thermal expansion, or allowable variation in fabrication or manufacturing. Florida Tile recommends a minimum 3/16-inch grout joint for all calibrated, ceramic tile and natural stone installations and 1/8^{-inch} grout joint for rectified tiles.
- Offset (Brick) Patterns
 - The TCNA Handbook recommends no more than a 33% offset and a wider grout joint for offset installations of tile larger than 15" on the longest side. This is because all tiles are higher in the middle than at the edges. When the highest point (middle) of one tile is next to the lowest point (edge) of the tile next to it, unacceptable lippage can result. Florida Tile is aware that many installers wish to use tiles (especially 12"x24" tiles) in brick patterns with a 50% offset. Typically, our tiles are flatter than those of our competitors and better suited for this type of application. Florida Tile encourages installers to follow the TCNA Handbook recommendations. If an offset greater than 33% is specified, specifier and owner must approve mock-up and lippage. TCNA handbook recommends a minimum 1/8^{-inch} grout joint for rectified tiles and a minimum 3/16^{-inch} grout joint for calibrated tiles.
- Wet Area Applications
 - For grouting tiles in wet area applications, epoxy grout or polymer modified grout is highly recommended.
 - Unmodified grout is NOT recommended since water can penetrate the grout and get into the body of the tile. This is particularly a nuisance for non-porcelain tile since the body of the tile will get wet and darken.
 - Due to the nature of the material, ceramic and porcelain tile will absorb water. The structure of the tile determines the amount of water the material will absorb. Thus, proper waterproofing methods and drainage systems need to be in place for a successful wet area installation. If water penetrates behind shower tiles, it soaks into the body and changes the color of the tile. This is common for ceramic tile due to its high absorption rate. Water penetration could be the result of a leak in the shower, damaged corner joints, leaking taps, or missing grout (grout not being flushed with the surface of the tile). A leak in the shower is a serious problem and can quickly get worse. Once repaired, the tiles will dry naturally, and the tile color will return to normal
- Sealer/Impregnators
 - It is not recommended to seal glazed tile. However, grout joints should be sealed to prevent staining.
 - It is common practice to treat natural stone tile with impregnators. Impregnators and sealers are not the same. Impregnators are formulated to allow the transmission of vapor, which maintains the breathability of the stone. Sealers form a protective layer on the surface of the stone tile. Sealers and impregnators can cause undesirable color alteration, usually darkening. Please refer the manufacturer's instructions when applying either the sealer or impregnator solution. Always test a small area to make sure desired results can be obtained.

Care and Maintenance

Initial Cleaning

The most important cleaning a tile will receive is during installation. The number one issue with cleaning tile is grout haze which is caused when water that contains trace amounts of grout or setting material is allowed to dry on the surface of the tile. Grout haze can be recognized when the installed tile has varying amounts of gloss when viewed from an angle or when dirt adheres to the tile easily and is difficult to remove.

Care must be taken to completely remove all traces of grout from the surface of the tile during installation. When being installed, use a diluted, neutral pH detergent cleaner followed by a thorough rinse with water until no cloudiness is apparent. When the tile is dirt-free, dry the surface with a clean towel.

Once this grout haze has been allowed to cure on the surface of the tile, it will not be removed with damp mopping or steam cleaning. Additional scrubbing using a nylon scrubbing pad or, a rotary buffer with a nylon pad for large areas, and a grout haze remover is recommended.

It is imperative to follow the manufacturer's instructions when using a grout haze remover. Florida Tile does not advise the use of "acid washing" for cleaning grout haze. Acid can react with the grout and leave a white film that is very difficult to remove and may structurally weaken the grout joint. If the use of a nylon scrubbing pad is not sufficient to remove the grout haze, a mild solution of sulfamic or phosphoric acid (NOT hydrofluoric) will not harm the tile and can be used for cement-based (non-epoxy) grouts by closely following the manufacturer's recommendations, including thorough rinsing. If an epoxy-based grout is used, the grout manufacturer will have suggestions for removing epoxy grout haze.

After installation, tile should be protected from foot traffic until grout has had time to fully cure. Consult grout packaging or the grout manufacturer for specific time required to set. Typically, this is done using cardboard, construction paper, plywood, or similar covering to shield tile. Florida Tile does not recommend plastic for this purpose as it does not allow air to reach the surface of the grout and can become slippery when wet.

Routine Maintenance

It is important to clean up spills and stains quickly. For routine maintenance, vacuum, dry mop, or sweep debris from the tile to prevent surface abrasion on the tile. Routine sponging or wet mopping with a diluted neutral pH detergent is usually sufficient for cleaning tile. Do not use cleaners with oils, soaps, or fats in the ingredients as these can build up on the surface of the tile over time and attract more dirt.

Mechanically remove sticky residue such as chewing gum or stickers with a putty knife or spatula before cleaning. For food or grease stains, de-greasing cleaners are accepted but should be tested on a small surface area prior to use. This will ensure the cleaner does not react with the tile or grout as they are alkaline in composition. Abrasive cleaners should be used sparingly and rinsed thoroughly with clean water after use.

Florida Tile recommends using commercial cleaners specifically designed for porcelain tiles and/or natural stone, depending on the installation type, for routine maintenance. Refer to manufacturer's instructions for concentration of each product and when/how to use them.

Heavy Duty Maintenance

Tougher stains such as lipstick, oil-based paint, wax, etc., may require the use of a poultice which contains gentle abrasives that can remove the stain. A poultice is available at most tile retailers and is made into a paste with the

addition of water. Care must be taken to ensure that the area where the poultice was applied is thoroughly rinsed. A nylon scrubbing pad or soft bristle brush can assist removing stubborn stains in combination with these cleaners.

Hard water deposits can form on tile when it is routinely in contact with water containing minerals. The best way to prevent hard water buildup is by using a squeegee to remove water and then drying with a towel. Once hard water stains form, a chemical cleaner designed for hard water must be used.

Florida Tile has not tested all chemical cleaners with tile; before any cleaner is used for the first time, it is recommended to try it in an inconspicuous location on the tile to make sure it does not harm the tile or the grout. Porcelain is very durable and should not react to most chemical cleaners.

Commercial Cleaning Techniques

Properly maintained tile floors should not require the use of rotary buffing or polishing equipment. This equipment can wear the surface of the floor over time and should not be a part of a regular cleaning regimen. Steam cleaners can be used on particularly dirty floors and should not harm the tile. Be mindful, however, that steam cleaning will not remove chemically attached stains like grout haze and hard water deposits. Consult a knowledgeable tile-cleaning specialist for unusual cleaning situations.

Warranty

Florida Tile, Inc. warrants that our products will meet or exceed the latest requirements of American National Specifications Institute, Specification ANSI 137.1. We also warrant our tile and stone to conform to any specific physical properties stated in our product literature and to be reasonably free from manufacturing defects. Shade variation is not a manufacturing defect.

Residential lifetime warranty:

Florida Tile, Inc. warrants to the original purchaser that it will provide replacement tile or refund the purchase price at our discretion of any product that fails to meet the requirements above. Labor costs for removal of existing product and installation of replacement product are not included. Shade match of the replacement product to that being replaced cannot be guaranteed. This lifetime warranty against manufacturing defects on Florida Tile products purchased will remain in effect for as long as you own your home and is non-transferable.

Commercial warranty:

Florida Tile, Inc defines a commercial installation as any structure other than a dwelling occupied by the owner of the tile. We warrant that we will provide replacement tile or refund the purchase price at our discretion of any product that fails to meet the requirements above for a period of 18 months from the date of shipment of the product. Labor cost for removal of existing product and installation of replacement product are not included. Shade match of the replacement product to that being replaced cannot be guaranteed.

Warranty limitations:

Florida Tile, Inc. makes no other warranties, expressed or implied, including merchantability or fitness for a particular purpose. Purchaser's remedy is limited to replacement as described above, and under no circumstances shall the manufacturer be liable for any loss or damage arising from the purchase, use, or inability to use this

product, or for any special, indirect, incidental, or consequential damages. No installer, dealer, agent, or employee of a manufacturer has the authority to modify the obligations or limitations of this warranty.

These warranties provide specific legal rights. Since some states have laws governing consumer rights and damages, some of the above limitations may not apply to you, and you may have other rights which vary from state to state. Except for these other rights, the remedy provided under these warranties state the limit of the Manufacturer's responsibilities.