

## Series: Craft Technical Data

USA porcelain stoneware tiles for walls and floors.

### Product characteristics

A full body porcelain stoneware tiles, glazed, composed of a very fine mixture of quality clay with the addition of feldspar, quartz and kaolin, manufactured by dry pressing of atomized powders and subsequently sintered by industrial firing at temperatures above 1200°C.

The complete vitrification of the tiles allows for a compact, non-absorbent, frost-proof product, resistant to bending, impacts, staining, chemical attack and thermal shock.

### Compliance with ANSI A 137.1

The Craft collection is in compliance with the regulations required for first quality products in USA ANSI A137.1 – Table 10: Porcelain tile.

### Quality and environmental certifications

The collection helps to meet the criteria for obtaining LEED credits. The content of "pre-consumer" recycled material is 40%, as certified by a qualified external body (LEED V4 Regulations - MR Credit). The product contains no VOC (volatile organic compounds) and has obtained the GREENGUARD GOLD certification. The Environmental Product Declaration (EPD) is available, this tool communicates clearly the environmental performances of the Craft collection based on its Cycle Assessment (LCA).

The collection is certified by Green Squared, a TCNA initiative aimed to recognize and certify sustainable products according to the ANSI 138.1 law.

### Antibacterial properties

Thanks to Protect antibacterial technology, the tiles from the Craft collection have continuous, effective and durable protection against the proliferation of bacteria, tested and certified in accordance with ISO 22196 and ASTM E3031.

Commercial description of the product			
Company	Legacy Tile - Distributor		
Country of origin	USA		
Collection	CRAFT		
Colours	Cotton, Yarn, Rope, Wool, Quilt		
Nominal Sizes	24"x24" RECT	12"x24" RECT	8"x24" RECT
Surface Finish	GLAZED		
Surfaces Processing	NATURAL		
Edges	RECTIFIED (RECT)		
Thickness	10 mm		



LEED

LEED

40%

GREENGUARD  
GOLD

TCNA Environmental  
product certification

ANTIMICROBIAL

Water absorption ≤ 0.5 %

## Series: Craft Technical Data

### Technical features

Product type: Porcelain stoneware – Class P1 (GL)  
According to: ANSI A137.1



Technical characteristics	Test method	Value required for Porcelain Tile ANSI A137.1: Table 10	Average Values CRAFT
Water absorption	ASTM C373	≤ 0.5 %	Conforms
Breaking strength	ASTM C648	≥ 250 lbf	425 lbf
Surface abrasion resistance	ASTM C1027	As indicated by manufacturer	PEI 5 (Cotton, Yarn, Rope, Wool) PEI 4 (Quilt)
Linear thermal expansion	ASTM C372	not required	$\alpha \leq 4.4 \times 10^{-6} \text{ } ^\circ\text{F}^{-1}$
Thermal shock resistance	ASTM C484	no sample must show visible signs	Conforms
Chemical resistance (*)	ASTM C650	As indicated by manufacturer	A Resistant
Stain resistance	ASTM C1378	As indicated by manufacturer	A Resistant
Freeze/Thaw resistance	ASTM C1026	no sample must show visible signs	Resistant
Bond strength	ASTM C482	≥ 50 PSI (0.34 MPa)	Conforms
Crazing resistance	ASTM C424	As reported	Pass
Warpage edge	ASTM C485 Porcelain	Rectified: max ±0.40% or max ±0.05" up to 24x24"; max ±0.07" for tiles larger than 24x24"	Conforms
Warpage diagonal	ASTM C485 Porcelain	Rectified: max ±0.40% or max ±0.07"	Conforms
Nominal dimensions	ASTM C499 Porcelain	Rectified: -3.0%/+2.0% of nominal dimensions	Conforms
Caliber range	ASTM C499 Porcelain	Rectified: max ±0.25% or max ±0.03"	Conforms
Wedging	ASTM C502 Porcelain	Rectified: max ±0.25% or max ±0.03"	Conforms
Thickness	ASTM C499	Max range 0.040 inch (1.02 mm)	max ± 0.030 inch
Surface Hardness	Mohs Scale	As reported	Mohs 7
Dynamic Coefficient of Friction (DCOF)	ANSI A326.3	≥ 0.42 (internal wet environments)	≥ 0.42
Shade variation	ANSI A137.1	As indicated by manufacturer	V2
Flame spread	ASTM E84	-	Class A

(\*) Excluding hydrofluoric acid and its derivatives



LEED



LEED



40%



GREENGUARD



TCNA Environmental  
product certification



ANTIMICROBIAL



Water absorption ≤ 0.5 %

## Series: Craft Technical Data

### Dimensional Specifications

24"x24" Rectified Linear Size (mm)	
Caliber	Avg. Size
X	596.5
Y	592

12"x24" Rectified Linear Size (mm)	
Caliber	Avg. Size
X	596.5 x 297.0
Y	592 x 292.0

8"x24" Rectified Linear Size (mm)	
Caliber	Avg. Size
X	197.5x596.5

### Recommendations

#### Grout Joint Recommendations

Per TCNA Handbook, the minimum required joint width for ceramic tile and natural stone is 1/16th". Setting ceramic or stone without a grout joint of a least 1/16th", 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 3/16th grout joint for all ceramic tile and natural stone installations and 1/8th grout joint for rectified tiles.

#### Offset Installations (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. It is recommended that some 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. We 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 1/8th grout joint for rectified tiles and a minimum 3/16th grout joint for calibrated tiles. We recommend a wider (3/16" minimum) grout joint for this type of installation and it is important to avoid 'wash' lighting that is set close to the tiled surface which can aggravate the appearance of lippage due to shadows. Care must be taken to follow the subfloor flatness and installation guidelines in the TCNA Handbook for a successful installation.

#### Wet Area Applications

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.












## Series: Craft Technical Detail

### COLOURED-BODY GLAZED STONEWARE

#### TECHNICAL FEATURES

COLOURED-BODY GLAZED STONEWARE according to ANSI A137.1 (Glazed Porcelain Tiles - P1 Class)

TECHNICAL FEATURES	TEST METHOD	REQUIRED VALUES	CRAFT AVERAGE VALUES
 <b>WATER ABSORPTION</b>	ASTM C373	≤ 0,5%	<b>CONFORMS</b>
 <b>BREAKING STRENGTH</b>	ASTM C648	≥ 250 lbf	<b>350 lbf 9 mm</b>
 <b>SURFACE ABRASION RESISTANCE</b>	ASTM C1027	As indicated by manufacturer	<b>PEI 5: COTTON, YARN, ROPE, WOOL</b> <b>PEI 4: QUILT</b>
 <b>LINEAR THERMAL EXPANSION</b>	ASTM C372	No provision	$\alpha \leq 4,4 \times 10^{-6} \text{ } ^\circ\text{F}^{-1}$ $\alpha \leq 8 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
 <b>STAIN RESISTANCE</b>	ASTM C1378	As indicated by manufacturer	<b>A RESISTANT</b>
 <b>CHEMICAL RESISTANCE<sup>(*)</sup></b>	ASTM C650	As indicated by manufacturer	<b>A RESISTANT</b>
 <b>FROST RESISTANCE</b>	ASTM C1026	As indicated by manufacturer	<b>RESISTANT</b>
 <b>BOND STRENGTH</b>	ASTM C482	≥ 50 PSI	<b>CONFORMS</b>
 <b>SLIP RESISTANCE</b>	DIN EN 16165 - Annex B	-	<b>R11 Anti-Slip****</b>
	DIN EN 16165 - Annex A	-	<b>C (A+B+C) Anti-Slip****</b>
	ANSI A326.3	-	<b>ID - DCOF ≥ 0.42 (dry) Natural</b> <b>IW - DCOF ≥ 0.42 (wet) Natural</b> <b>IW+ Natural**** - Anti-Slip****</b> <b>EW Anti-Slip****</b>
 <b>SHADE VARIATION</b>	ANSI A137.1	As indicated by manufacturer	<b>V2 Slight variation</b>
 <b>FLAME SPREAD</b>	ASTM E84	-	<b>Class A</b>
 <b>THERMAL CONDUCTIVITY</b>	EN 12524	-	$\lambda = 1,3 \text{ W/m } ^\circ\text{K} / 0.7 \text{ BTU/ft h } ^\circ\text{F}$
 <b>RECOMMENDED MINIMUM JOINT<sup>(**)</sup></b>	RECT (INDOOR)	-	<b>1/8" - 3.2 mm approx.</b>
	OUTDOOR	-	<b>3/16" - 4.7 mm approx.</b>
 <b>THICKNESS</b>	<b>SIZES</b>		
	24"x24" Rect - 60x60 cm	-	<b>9 mm</b>
	12"x24" Rect - 30x60 cm	-	
	8"x24" Rect - 20x60 cm	-	

(\*) Excluding hydrofluoric acid and its derivatives.

(\*\*) Grout Joint Recommendations. Per TCNA Handbook, the minimum required joint width for ceramic tile and natural stone is 1/16". Setting ceramic or stone without a grout joint of a least 1/16", 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.

(\*\*\*) With the exception of areas characterized by a higher risk of slipping (such as public showers, indoor swimming pools, locker rooms and steam rooms) for which an Anti-Slip surface is recommended.

(\*\*\*\*) Anti-Slip surface special order only.

#### PACKINGS AND WEIGHTS

SIZES	SF / CTN	LINEAR FT / CTN	PIECES / CTN	CTN / PALLET	SF / PALLET	LBS / CTN	LBS / PALLET
24"x24" Rect Natural / Anti-Slip	15.61	-	4	36	561.96	64.49	2,321.63
12"x24" Rect Natural / Anti-Slip	15.61	-	8	32	499.45	64.48	2,063.38
8"x24" Rect Natural / Anti-Slip	11.95	-	9	36	430.20	48.28	1,737.89
MOSAIC BASKET WEAVE 12"x12" Rect Natural	4.84	-	5	90	435.60	19.40	1,746.06
HERRINGBONE MODULUS A-B 10"x24" Rect Natural	5.54	-	6	35	193.90	24.91	872
COVE BASE 6"x12" Natural	3.87	-	8	108	417.96	16.53	1,785.24
BULLNOSE 3" <sup>thick</sup> x12" Rect Natural	5.17	19.69	20	112	579.04	19.84	2,222.08

## Series: Craft Product Detail

**PROTECT**

ANTIMICROBIAL SURFACE  
with MICROBAN®

COLOURED-BODY GLAZED STONEWARE

INTENDED USE: NATURAL    ANTI-SLIP 

COTTON



YARN



**Special Order**

24"x24" Rect - 60x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

24"x24" Rect - 60x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Stocked**

12"x24" Rect - 30x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



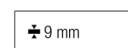
**Stocked**

12"x24" Rect - 30x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

8"x24" Rect - 20x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

8"x24" Rect - 20x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only

**Stocked**



MOSAIC BASKET WEAVE  
COTTON  
12"x12" Rect - 30x30 cm  
NATURAL  
± 9 mm

**Special Order**



HERRINGBONE MODULUS A-B  
COTTON  
10"x24" Rect - 24.4x60 cm  
NATURAL  
± 9 mm

**Stocked**



MOSAIC BASKET WEAVE  
YARN  
12"x12" Rect - 30x30 cm  
NATURAL  
± 9 mm

**Special Order**



HERRINGBONE MODULUS A-B  
YARN  
10"x24" Rect - 24.4x60 cm  
NATURAL  
± 9 mm

\* No antimicrobial protection

Stocked 3x 12" Bullnose Available...see detail on the Quilt page.

## Series: Craft Product Detail

**P R ( ) T E C T**

ANTIMICROBIAL SURFACE  
with Microban®

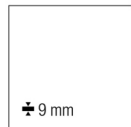
COLOURED-BODY GLAZED STONEWARE

INTENDED USE: NATURAL    ANTI-SLIP 

ROPE



WOOL



**Special Order**

**24"x24" Rect** - 60x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

**24"x24" Rect** - 60x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Stocked**

**12"x24" Rect** - 30x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Stocked**

**12"x24" Rect** - 30x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

**8"x24" Rect** - 20x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

**8"x24" Rect** - 20x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only

**Stocked**



**MOSAIC BASKET WEAVE ROPE**  
**12"x12" Rect** - 30x30 cm  
NATURAL  
± 9 mm

**Special Order**



**HERRINGBONE MODULUS A-B ROPE**  
**10"x24" Rect** - 24.4x60 cm  
NATURAL  
± 9 mm

**Stocked**



**MOSAIC BASKET WEAVE WOOL**  
**12"x12" Rect** - 30x30 cm  
NATURAL  
± 9 mm

**Special Order**



**HERRINGBONE MODULUS A-B WOOL**  
**10"x24" Rect** - 24.4x60 cm  
NATURAL  
± 9 mm

\* No antimicrobial protection

Stocked 3x 12" Bullnose Available...see detail on the Quilt page.

# Series: Craft Product Detail

**PROTECT**

ANTIMICROBIAL SURFACE  
with MICROBAN®

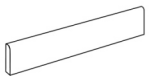
COLOURED-BODY GLAZED STONEWARE

INTENDED USE: NATURAL    ANTI-SLIP 

QUILT

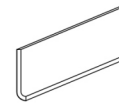


**Stocked**  
**TRIM PIECES**



**BULLNOSE**  
3<sup>1/8</sup>"x12" Rect - 8x30 cm  
NATURAL  
± 9 mm  
All colors available

**Special Order**



**COVE BASE**  
6"x12" - 15x30 cm  
NATURAL  
± 9 mm  
Special order only



**Special Order**

24"x24" Rect - 60x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Stocked**

12"x24" Rect - 30x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only



**Special Order**

8"x24" Rect - 20x60 cm  
NATURAL  
ANTI-SLIP\*  
Anti-Slip surface special order only

**Stocked**



**MOSAIC BASKET WEAVE QUILT**  
12"x12" Rect - 30x30 cm  
NATURAL  
± 9 mm

**Special Order**



**HERRINGBONE MODULUS A-B QUILT**  
10"x24" Rect - 24.4x60 cm  
NATURAL  
± 9 mm



COLOURED-BODY GLAZED STONEWARE

## Series: Craft Product Detail

### INTENDED USE

#### KEY



#### RESIDENTIAL

Kitchens, bathrooms, living rooms and other residential environments.



#### LIGHT COMMERCIAL

Offices, offices open to the general public, waiting rooms, shops, public bathrooms, common apartment block areas, restaurant dining rooms, car showrooms, bars, cinemas, surgeries/clinics, hotel rooms and bathrooms.



#### INTENSIVE COMMERCIAL

Common areas of shopping centres, hotel foyers, canteens, fast food restaurants, dance clubs, hospitals, schools, museums, places of worship, airports, stations.



#### OUTDOOR

Mainly for external areas that require flooring with anti-slip characteristics.

### CERTIFICATIONS



**THIS CERAMIC FACTORY** is a member of the U.S. Green Building Council: this is an organization that promotes buildings that are environmentally responsible, profitable and healthy places to live and work. LEED card CRAFT series is available on request.



**GREENGUARD CERTIFICATION** CRAFT series is made in a production plan GOLD GREENGUARD certified.



**ENVIRONMENTAL PRODUCT DECLARATION** This Environmental Product Declaration is provided by Tile Council of North America (TCNA).

*Product designed in Italy and made in USA*

### THE ENVIRONMENT



#### 100% REUSE OF UNFIRED TILES

Crude waste generated by the process is reintegrated in the production cycle with no costs for the environment. This contributes to the safeguard of natural resources.



#### 100% REUSE/RECYCLING OF THE INDUSTRIAL WASTE - FIRED TILES

The waste-fired tiles are fully reused in the production cycle. In addition, at the end of life, the tiles can be recycled as materials for substrates for roads and buildings, thus reducing the use of gravel and natural aggregates commonly used in building.



#### 100% WATER RECYCLING

The water used in the production process is recycled. The water demand is strongly reduced by this mean.



#### 100% OF NON CERAMIC WASTE

Is differentiated and recycled in other production cycles.



#### LOW EMISSIONS IN THE ATMOSPHERE

Production plant strictly complies to US Standards with a very small amount of gas emissions in the atmosphere.



#### SAFETY REQUIREMENTS: NO FIRE REACTION

All ceramic tile products are Class A building materials as described in ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials. This is due to the flame spread rating of (0) and smoke developed rating of (0) falling within the ranges of a Class A material. Other building codes refer to this as a Type I material in accordance with NFPA 255.



#### PANARIA PACKING MATERIAL IS 100% RECYCLABLE

Carton boxes, plastic packaging materials, wooden pallets, straps, etc.



#### METHANE CONSUMPTION IS HIGHLY REDUCED

By the use of up to date technologies and customized installations.





**Series: Craft**

