

Suggested Applications

Floor
 Wall
 Residential
 Light Commercial
 Heavy Commercial
 Exterior
 Pools

Installation Suggestions

Joint Size
 Modular Setting
 Plank Installation
 EDGE: Straight/Pressed
 Rustic
 Rectified
 FINISH: Matte
 Polished
 Structured
 Honed
 Semi-Polished
 Other

Porcelain Type

through-body
 color-bodied
 glazed
 unglazed
 double-loaded
 other

Shade Variation

V1 Uniform Appearance
 V2 Slight Variation
 V3 Moderate Variation
 V4 Substantial Variation
 THICKNESS: 9mm
 # OF FACES: 15

Slip Resistance

DCOF .67
 Values: ≥ 0.42 Standard Commercial Slip Resistance for both wet and dry areas
 ≥ 0.65 Standard ADA Slip Resistance for Ramps

COF
 WET
 standard .6
 result .77
DRY
 standard .6
 result .88

ASTM C-1028
ANSI A137.1
DIN 51097/51130

DIN 51130
 R9* (3-10°)
 R10 (10-19°)
 R11** (19-27°)
 R12 (27-35°)
 R13 (>35°)
*R9: Industry Standard/ADA Requirements
 **R11: Recommended For Exteriors

| DIN 51097 Class | Typical Applications | Critical Angle |
|---------------------------------------|---|-----------------|
| <input checked="" type="checkbox"/> A | Barefoot, but mainly dry aisles and walkways, dry changing areas | $\geq 12^\circ$ |
| <input type="checkbox"/> B | Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) | $\geq 18^\circ$ |
| <input type="checkbox"/> C | Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&B areas) | $\geq 24^\circ$ |

Tile Classification
 0 - 0.50 Questionable
 0.50 - 0.60 Conditionally Slip Resistant
 > 0.60 Slip Resistant

Scratch Resistance

MOH'S SCALE 7
UNI EN ISO 10545.6

Mineral
 1. Talc (Talc)
 2. Gypsum (Fingernail)
 3. Calcite (Penny)
 4. Flourite (Some Marbles)
 5. Apatite (Knife Blade)
 6. Microline (Glass, Glazed Tile)
 7. Quartz (Unglazed Porcelain)
 8. Topaz (Granite)
 9. Corundum (Ruby)
 10. Diamond (Diamond)
 Industry standard $\leq 175\text{mm}^2$

Wear Resistance
PEI RATING
UNI EN ISO 10545.7

- Class 1: Walls only
- Class 2: Residential floors w/minimal abrasive traffic
- Class 3: Residential interiors/light commercial traffic
- Class 4: Medium commercial applications
- Class 5: All commercial applications/heavy traffic

Stain Resistance

ASTM C1378-04
UNI EN ISO 10545.14 5

5: Removed after 5 minutes (hot water running)
 4: Removed by manual cleaning (weak detergent)
 3: Removed by mechanical cleaning (strong detergent)
 2: Removed by immersion (24 hrs in suitable solvent)
 1: Stain not removed

Water Absorption
ASTM C-373
UNI EN ISO 10545.3

| Water Absorption | Impervious | Vitreous | Semi-Vitreous | Non-Vitreous |
|-------------------------------------|-----------------------------------|--------------------------|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Absorbs 0-.5% | Absorbs .5-3% | Absorbs 3-7% | Absorbs 7% + | |
| Interior/Exterior Frost Resistant | Interior/Exterior Frost Resistant | Indoor Use Only | Indoor Use Only | |

Breaking Strength

ASTM C648
UNI EN ISO 10545.4

Industry standard should be greater than 250 lbs or 50 N/MM2

Facial Dimension
ASTM c499-09
UNI EN ISO 10545.02

| Property | Standard | Tolerance | Result |
|--------------|--|------------|--|
| flatness | $\pm 5\text{mm}$ | $\pm .5\%$ | <input checked="" type="checkbox"/> -0.08% |
| thickness | $\pm 6\text{mm}$ | $\pm .5\%$ | <input checked="" type="checkbox"/> -4% |
| straightness | $\pm 4.5\text{mm}$ | $\pm .5\%$ | <input checked="" type="checkbox"/> -0.05% |
| squareness | $\pm 5.4\text{mm}$ | $\pm .6\%$ | <input checked="" type="checkbox"/> -0.10% |
| sides L/W | $\pm 1.1\text{mm}$ $\pm 4.5\text{mm}$ | $\pm .5\%$ | <input checked="" type="checkbox"/> -0.05% |

Chemical Resistance
ASTM C650
UNI EN ISO 10545.13

Allowances for: acid result
 bases
 chemicals

Leed Information

REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

| Sustainable Sites | Materials & Resources | Innovation in Design |
|---|--|--|
| Site selection: 1 Point SS CREDIT 1 Heat Island Effect-non roof: <input type="checkbox"/> Material with a solar reflectant index of at least 29. | M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials: 50% <input checked="" type="checkbox"/> 70% <input type="checkbox"/> | Innovation in Design: 1-5 Points ID CREDIT 1 Innovation in Design: Measurable exemplary environmental performance: <input type="checkbox"/> |
| Energy & Atmosphere: 1 Point EA CREDIT 4 Green Power: Products that optimize energy performance for floors and walls using thermal conductivity. BTU-FT: <input type="checkbox"/> | M&R CREDIT 4.1-4.2 Recycled Content: The sum of post consumer plus 1/2 of the pre consumer reps at least 10-20% of total value of materials: 10% <input type="checkbox"/> 20% <input type="checkbox"/> | |
| Indoor Environmental Quality: 1 Point Low-Emitting Materials-Flooring Systems IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals: <input checked="" type="checkbox"/> | M&R CREDIT 5 Regional Materials: Materials manufactured within 500 miles of the project site: 10% <input type="checkbox"/> 20% <input type="checkbox"/> | |
| IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC: <input type="checkbox"/> | | |
| IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems: <input checked="" type="checkbox"/> | | |

Type: **Porcelain Stoneware**
 Product Line: **Barnyard**

The marketing name for this product is property of Cancos Tile & Stone. This same product may be marketed under different names.