

Suggested Applications

Floor Wall Residential Light Commercial Heavy Commercial Exterior Pools

*Wear can vary greatly. please consult with a professional.

Installation Suggestions

Plank Installation* Modular Setting Joint Size 2mm

*Install the offset the width of the plank. For professional installation, the use of leveling spacers for all plank and rectangular (ie. 12x24) format tiles is recommended.

EDGE: Straight/Pressed Rustic Rectified

FINISH: Matte Polished Structured Honed Semi-Polished

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: 10mm # OF FACES:

Slip Resistance

DCOF	Values	Applications
<input checked="" type="checkbox"/> .50	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
	0.65	Recommended Standard DCOF value for ADA ramps

DIN 51130 *R9: Industry Standard/ADA Requirements **R11: Recommended For Exteriors

R9* (3-10°) R10 (10-19°) R11** (19-27°) R12 (27-35°) R13 (>35°)

Class	Typical Applications	Critical Angle
<input type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input checked="" type="checkbox"/> B	Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)	≥18°
<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)	≥24°

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

Scratch Resistance

MINERAL	1-5	6-10
1. Talc (Talc)	6. Microline (Glass, Glazed Tile)	
2. Gypsum (Fingernail)	7. Quartz (Unglazed Porcelain)	
3. Calcite (Penny)	8. Topaz (Granite)	
4. Fluorite (Some Marbles)	9. Corundum (Ruby)	
5. Apatite (Knife Blade)	10. Diamond (Diamond)	

Industry standard ≤175mm²

MOH'S SCALE
 UNI EN ISO
 10545.6

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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
- *Wear can vary greatly. please consult with a professional.

Stain Resistance

- 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

ASTM C1378-04
 UNI EN ISO
 10545.14

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Water Absorption

ASTM C-373
 UNI EN ISO
 10545.3

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

Breaking Strength

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

ASTM C648
 UNI EN ISO
 10545.4

Facial Dimension

ASTM c499-09
 UNI EN ISO
 10545.02

	Standard	Tolerance	Result
flatness	±5mm	±.5%	PASS
thickness	±6mm	±.5%	PASS
straightness	±4.5mm	±.5%	PASS
squareness	±5.4mm	±.6%	PASS
sides L/W	±1.1mm / ±4.5mm	±.5%	PASS

Chemical Resistance

ASTM C650
 UNI EN ISO
 10545.13

Allowances for:

	result
Acid	PASS
Bases	PASS
Chemicals	PASS

Leed Information

Sustainable Sites	1 Point
Site selection	1 Point
SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29.	<input checked="" 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 checked="" type="checkbox"/>
Indoor Environmental Quality	1 Point
Low-Emitting Materials-Flooring Systems	1 Point
IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.	<input checked="" type="checkbox"/>
IEQ CREDIT 4.1 Low Emitting Adhesives: Products less than 65 G/L VOC	<input checked="" type="checkbox"/>
IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems.	<input checked="" type="checkbox"/>

Materials & Resources	1 Point	2 Points
M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials.	50% <input type="checkbox"/>	70% <input checked="" 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 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"/>
Innovation in Design	1-5 Points	
ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance.	<input type="checkbox"/>	

REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

Type: **Matte Porcelain**

Product Line: **MARCEL**

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