

# 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:**  **# OF FACES:**

# Slip Resistance

DCOF	Values	Applications
<input checked="" type="checkbox"/> $\geq 0.42$	0.42	Recommended Standard DCOF value for wet/dry commercial flooring
<input type="checkbox"/> $\geq 0.65$	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°)

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

DIN 51097		Critical Angle
Class	Typical Applications	
<input type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	$\geq 12^\circ$
<input checked="" 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, included pool surrounds, jacuzzis (plus all Class A&B areas)	$\geq 24^\circ$

# Scratch Resistance

**MINERAL**

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  $\leq 175\text{mm}^2$

MOH'S SCALE  
 UNI EN ISO 10545.6

**7**

# 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

**5**

# Water Absorption

ASTM C-373  
 UNI EN ISO 10545.3

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

# Breaking Strength

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

ASTM C648  
 UNI EN ISO 10545.4

**>35**

# 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 **GLA**

Bases **GHA**

Chemicals **GA**

# Leed Information

  
 REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

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