

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 12x24 Rustic Rectified 24x48

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: 12x24 = 8mm, 24x48 = 9mm
 # OF FACES: 12x24=28, 24x48=8

Slip Resistance

DCOF	Values	Applications
0.60	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°)

DIN 51097

Class	Typical Applications	Critical Angle
<input checked="" type="checkbox"/> A	Barefoot, but mainly dry aisles and walkways, dry changing areas	≥12°
<input 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. 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

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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

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

Breaking Strength

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

ASTM C648
 UNI EN ISO
 10545.4

PASS

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	A
Bases	A
Chemicals	A

LEED V4.1 BD+C

MATERIAL AND RESOURCES

ID	Requirement/Criteria	Potential Score
MRp1	Storage and Collection of Recyclables	Required
MRC5	Construction and Demolition Waste Management	2 points ✓
MRC1	Building Life-Cycle Impact Reduction	4 points ✓
MRC2	Building Product Disclosure and Optimization - Environmental Product	1 point ✓
MRC3	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2 points ✓

INDOOR ENVIRONMENTAL QUALITY

ID	Requirement/Criteria	Potential Score
IEQc2	Low-Emitting Materials	3+ points ✓

Type: **Porcelain Stoneware**

Product Line: **PORTLAND**

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