

# 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=24, 24x48=8

# Slip Resistance

DCOF Values Applications  
 0.54  
 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, included 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 ≤175mm<sup>2</sup>

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

Absorbs 0-.5%  Absorbs .5-3%  Absorbs 3-7%  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/MM<sup>2</sup>

ASTM C648  
 UNI EN ISO  
 10545.4

**PASS**

# Facial Dimension

ASTM c499-09  
 UNI EN ISO  
 10545.02

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

# Chemical Resistance

ASTM C650  
 UNI EN ISO  
 10545.13



Allowances for:

	result
Acid	<b>A</b>
Bases	<b>A</b>
Chemicals	<b>A</b>

## 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: **CRETE**

\*The marketing name for this product is property of CTS Pro. This same product may be marketed under different names.\*