

Suggested Applications

floor wall residential light commercial heavy commercial exterior pools

Installation Suggestions

joint size modular setting plank installation edge: straight 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: **10mm** # of faces:

Slip Resistance



| COF | WET | | DRY | | DCOF | DIN 51130 | DIN 51097 Class | Typical Applications | Critical Angle |
|-------------------|-----------|--------|-----------|--------|------|---|---------------------------------------|---|----------------|
| | standard* | result | standard* | result | | | | | |
| accessible routes | .6 | .78 | .6 | .69 | .54 | <input checked="" type="checkbox"/> R9* 3-10° | <input checked="" type="checkbox"/> A | Barefoot, but mainly dry aisles and walkways, dry changing areas | ≥12° |
| ramps | .8 | | .8 | | | <input type="checkbox"/> R10 10-19° | <input checked="" type="checkbox"/> B | Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas) | ≥18° |
| | | | | | | <input type="checkbox"/> R11 19-27° | <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° |
| | | | | | | <input type="checkbox"/> R12 27-35° | | | |
| | | | | | | <input type="checkbox"/> R13 >35° | | | |

*Industry Standard/ADA Requirements

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

ASTM C-1028
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. Flourite (Some Marbles) | 9. Corundum (Ruby) |
| 5. Apatite (Knife Blade) | 10. Diamond (Diamond) |

Industry standard ≤175mm²

MOH'S SCALE
UNI EN ISO 10545.6 ≤175

Wear Resistance



PEI RATING
UNI EN ISO 10545.7

- Class 1: Walls only
- Class 2: Resid. floors w/minimal abrasive traffic.
- Class 3: Resid. interiors normal use and foot traffic.
- Class 4: Light-medium commercial applications.
- Class 5: Commercial applications.

Stain Resistance

ASTM C1378-04
UNI EN ISO 10545.14 4

- 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 <0.5

| | | | |
|---|---|---|--|
| <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

ASTM C648
UNI EN ISO 10545.4 >35

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

Facial Dimension

ASTM c499-09
UNI EN ISO 10545.02

| | Standard | Tolerance | Result |
|--------------|------------------|-----------|----------------------|
| flatness | ±5mm | ±.5% | <input type="text"/> |
| thickness | ±6mm | ±.5% | <input type="text"/> |
| straightness | ±4.5mm | ±.5% | <input type="text"/> |
| squareness | ±5.4mm | ±.6% | <input type="text"/> |
| sides L/W | ±1.1mm ±4.5mm | ±.5% | <input type="text"/> |

Chemical Resistance

ASTM C650
UNI EN ISO 10545.13

Allowances for:

| | result |
|-----------|----------------------|
| acid | <input type="text"/> |
| bases | <input type="text"/> |
| chemicals | <input type="text"/> |

Leed Information



REQUIREMENTS FOR COMMERCIAL INTERIORS/NEW CONSTRUCTION

| Sustainable Sites | 1 Point | Materials & Resources | 1 Point | 2 Points |
|---|--------------------------|---|-------------------------------------|------------------------------|
| Site selection SS CREDIT 1 Heat Island Effect-non roof Material with a solar reflectant index of at least 29. | <input type="checkbox"/> | M&R CREDIT 2 Construction Waste Management: Recycling salvaged construction waste in to new reusable materials. | 50% <input type="checkbox"/> | 70% <input type="checkbox"/> |
| Energy & Atmosphere 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 Low-Emitting Materials-Flooring Systems IEQ CREDIT 3.1-7 Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals. | <input 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"/> | Innovation in Design ID CREDIT 1 Innovation in Design Measurable exemplary environmental performance. | 1-5 Points <input type="checkbox"/> | |
| IEQ CREDIT 4.3 Low Emitting Materials: Flooring systems. | <input type="checkbox"/> | | | |

Type: **Porcelain Stoneware**

Product Line: **Santa Magdalena**

2) WEAR RESISTANCE: Differs according to surface color

Class 4: Beige, Grigio, Tortora | Class 5: Bianco

3) LEED INFORMATION: All Cerindustries products comply with many of LEED's requirements and porcelain stoneware are made up of a percentage of recycled and recovered material (pre-consumer), that does exceed 40% of the total quantity of clays employed. Cerindustries products do not release VOC and are manufactured in production facilities environmental friendly certified. *Points must be assigned by the architect and builder according to selections and LEED procedures.*