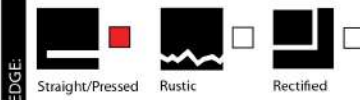


## Suggested Applications



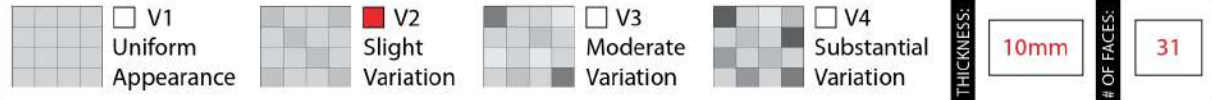
## Installation Suggestions



## Porcelain Type



## Shade Variation



## Slip Resistance

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

| DCOF | Values | Applications  |
|------|--------|---|
|      | 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

|   |                                       |   |
|---|---------------------------------------|---|
| <input checked="" type="checkbox"/> R9* (3-10°) | <input type="checkbox"/> R10 (10-19°) | <input type="checkbox"/> R11** (19-27°) |
| <input type="checkbox"/> R12 (27-35°)           | <input type="checkbox"/> R13 (>35°)   |   |

DIN 51097

| Class                      | Typical Applications  | Critical Angle |
|----------------------------|---|----------------|
| <input 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°           |

## Scratch Resistance

MOH'S SCALE  
UNI EN ISO  
10545.6

### 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>

## 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

ASTM C1378-04  
UNI EN ISO  
10545.14

- 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

|  |  |                                       |                                       |
|--|--|---------------------------------------|---------------------------------------|
|  |  |                                       |                                       |
| <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<br>Interior/Exterior<br>Frost Resistant | Vitreous<br>Interior/Exterior<br>Frost Resistant | Semi-Vitreous<br>Indoor Use Only      | Non-Vitreous<br>Indoor Use Only       |

## Breaking Strength

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<br>± 4.5mm | ± .5%     | PASS   |

## Chemical Resistance

ASTM C650  
UNI EN ISO  
10545.13

| Allowances for: | result |
|-----------------|--------|
| Acid            | B      |
| Bases           | B      |
| Chemicals       | A      |

## 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  |                          | 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  | <input type="checkbox"/> | 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  |                          | 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 | <input type="checkbox"/> | Innovation in Design  |                              | 1-5 Points                   |
| Indoor Environmental Quality   | 1 Point                  | ID CREDIT 1   |                              |                              |
| Low-Emitting Materials-Flooring Systems  |                          | Innovation in Design  |                              |                              |
| IEQ CREDIT 3.1-7   |                          | Measurable exemplary environmental performance.   | <input type="checkbox"/>     |                              |
| Green Cleaning: Reducing occupants exposure to hazardous cleaning chemicals.                                   | <input type="checkbox"/> |   |                              |                              |
| IEQ CREDIT 4.1   |                          |   |                              |                              |
| Low Emitting Adhesives: Products less than 65 G/L VOC  | <input type="checkbox"/> |   |                              |                              |
| IEQ CREDIT 4.3   |                          |   |                              |                              |
| Low Emitting Materials: Flooring systems.  | <input type="checkbox"/> |   |                              |                              |