

## Suggested Applications



Floor



Wall



Residential



Light Commercial

Heavy Commercial  
\*Wear can vary greatly, please consult with a professional.

Exterior



Pools

## Installation Suggestions



Plank Installation\*  
\*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.

Joint Size  
3mm

EDGE:



Straight/Pressed



Rustic



Rectified

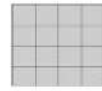
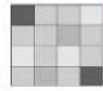
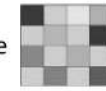
FINISH:

☐ Matte☐ Polished☐ Structured☐ Honed☐ Semi-Polished☒ satin

## 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:

12x24=50  
24x48=22

## Slip Resistance



DCOF

.44



Values

0.42

0.65

Applications

Recommended Standard DCOF value  
for wet/dry commercial flooringRecommended 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

☐ A

Barefoot, but mainly dry aisles and walkways, dry changing areas

≥12°

☐ B

Shower rooms, pool surrounds, wet changing areas, disinfectant spray areas (plus all Class A areas)

≥18°

☐ C

Areas constantly under water, e.g. steps into pools, foot baths, inclined pool surrounds, jacuzzis (plus all Class A&amp;B areas)

≥24°

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

## Scratch Resistance

MOH'S SCALE  
UNI EN ISO  
10545.6

6

MINERAL

1. Talc (Talc)
  2. Gypsum (Fingernail)
  3. Calcite (Penny)
  4. Fluorite (Some Marbles)
  5. Apatite (Knife Blade)
- Industry standard ≤175mm<sup>2</sup>

6. Microline (Glass, Glazed Tile)
7. Quartz (Unglazed Porcelain)
8. Topaz (Granite)
9. Corundum (Ruby)
10. Diamond (Diamond)

## 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

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

Absorbs 0-5%



Absorbs .5-3%



Absorbs 3-7%



Absorbs 7%+

Impervious  
Interior/Exterior  
Frost ResistantVitreous  
Interior/Exterior  
Frost ResistantSemi-Vitreous  
Indoor Use OnlyNon-Vitreous  
Indoor Use Only

## Breaking Strength

ASTM C648  
UNI EN ISO  
10545.440 N/MM<sup>2</sup>

Industry standard  
should be greater than  
250 lbs  
or  
50 N/MM<sup>2</sup>

## Facial Dimension

ASTM C499-09  
UNI EN ISO  
10545.02

flatness

Standard  
± 5mmTolerance  
± .5%Result  
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 Information

REQUIREMENTS  
FOR COMMERCIAL  
INTERIORS/NEW  
CONSTRUCTION

### Sustainable Sites

Site selection

SS CREDIT 1

Heat Island Effect-non roof

Material with a solar reflectant index of at least 29.

1 Point

### Energy & Atmosphere

EA CREDIT 4

Green Power: Products that optimize energy  
performance for floors and walls using thermal  
conductivity. BTU-FT

1 Point

### Indoor Environmental Quality

Low-Emitting Materials-Flooring Systems

IEQ CREDIT 3.1-7

Green Cleaning: Reducing occupants exposure  
to hazardous cleaning chemicals.

1 Point

IEQ CREDIT 4.1

Low Emitting Adhesives: Products less than  
65 G/L VOC

1 Point

IEQ CREDIT 4.3

Low Emitting Materials: Flooring systems.

1 Point

### Materials & Resources

M&amp;R CREDIT 2

Construction Waste Management:  
Recycling salvaged construction  
waste in to new reusable materials.

1 Point

2 Points

M&amp;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%

20%

M&amp;R CREDIT 5

Regional Materials: Materials  
manufactured within 500 miles  
of the project site.

10%

20%

### Innovation in Design

ID CREDIT 1

Innovation in Design

Measurable exemplary environmental performance.

1-5 Points

1 Point