

Suggested Applications



Floor



Wall



Residential



Light Commercial



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



Exterior



Pools

Installation Suggestions



Plank Installation*



Modular Setting



Joint Size
3mm

*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:



FINISH:

Matte

Polished

Structured

Honed

Semi-Polished

Porcelain Type

☐ through-body

☐ color-bodied

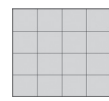
☒ glazed

☐ unglazed

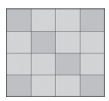
☐ double-loaded

☐ other _____

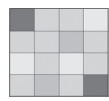
Shade Variation



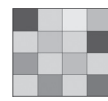
☐ V1
Uniform
Appearance



☐ V2
Slight
Variation



☐ V3
Moderate
Variation



☒ V4
Substantial
Variation

THICKNESS:

9mm

OF FACES:

3x3=40
3x10=90
5x10=84
10x10=50
Hex=80

Slip Resistance

DCOF

>0.42



Values

0.42

0.65

Applications

Recommended Standard DCOF value
for wet/dry commercial flooring

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°)

ASTM C-1028

ANSI A137.1

DIN 51097/51130

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&B areas)

≥24°

Scratch Resistance

MOH'S SCALE

UNI EN ISO

10545.6

8

MINERAL

1. Talc (Talc)
2. Gypsum (Fingernail)
3. Calcite (Penny)
4. Fluorite (Some Marbles)
5. Apatite (Knife Blade)

Industry standard ≤175mm²

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

5

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%

Impervious
Interior/Exterior
Frost Resistant



☐ Absorbs .5-3%

Vitreous
Interior/Exterior
Frost Resistant



☐ Absorbs 3-7%

Semi-Vitreous
Indoor Use Only



☐ Absorbs 7% +

Non-Vitreous
Indoor Use Only

Breaking Strength

ASTM C648

UNI EN ISO

10545.4

48



Industry standard
should be greater than

250 lbs

or

50 N/MM²

Facial Dimension

ASTM c499-09

UNI EN ISO

10545.02

flatness

Standard
±5mm

Tolerance
±.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

GLA

Bases

GHA

Chemicals

GA

Leed Information



REQUIREMENTS
FOR COMMERCIAL
INTERIORS/NEW
CONSTRUCTION

Sustainable Sites

Site selection

1 Point

SS CREDIT 1

Heat Island Effect-non roof

☐

Material with a solar reflectant index of at least 29.

Energy & Atmosphere

1 Point

EA CREDIT 4

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

☐

Indoor Environmental Quality

Low-Emitting Materials-Flooring Systems

1 Point

IEQ CREDIT 3.1-7

Green Cleaning: Reducing occupants exposure
to hazardous cleaning chemicals.

☒

IEQ CREDIT 4.1

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

☒

IEQ CREDIT 4.3

Low Emitting Materials: Flooring systems.

☒

Materials & Resources

1 Point

2 Points

M&R CREDIT 2

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

50% ☒

70% ☐

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% ☐

20% ☒

M&R CREDIT 5

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

10% ☐

20% ☐

Innovation in Design

1-5 Points

ID CREDIT 1

Innovation in Design
Measurable exemplary environmental performance.

☒

Type:
Porcelain Stoneware

Product Line:
Piccolo

*The marketing name for this product is property of Colsa-USA. This same product may be marketed under different names. *