

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

Rustic

Rectified

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:

10mm

OF FACES:

40: 24x48
110: 12x24
200: 3x12

Slip Resistance

DCOF

0.44

Values

0.42

0.65

Applications

Recommended Standard DCOF value for wet/dry commercial flooring

Recommended Standard DCOF value for ADA ramps

ASTM C-1028

ANSI A137.1

DIN 51097/51130

DIN 51130

☒ R9* (3-10°)

☐ R10 (10-19°)

☐ R11** (19-27°)

☐ R12 (27-35°)

☐ 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)

2. Gypsum (Fingernail)

3. Calcite (Penny)

4. Flourite (Some Marbles)

5. Apatite (Knife Blade)

6. Microline (Glass, Glazed Tile)

7. Quartz (Unglazed Porcelain)

8. Topaz (Granite)

9. Corundum (Ruby)

10. Diamond (Diamond)

Industry standard ≤175mm²

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

3-5

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%

☐ 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

ASTM C648

UNI EN ISO 10545.4

>45 n/mm²

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

Facial Dimension

ASTM c499-09

UNI EN ISO 10545.02

flatness

thickness

straightness

squareness

sides L/W

Standard

Tolerance

Result

Chemical Resistance

ASTM C650

UNI EN ISO 10545.13

Allowances for:

result

Acid

Bases

Chemicals

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.

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

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

M&R CREDIT 2

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

1 Point

2 Points

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

ID CREDIT 1

Innovation in Design

Measurable exemplary environmental performance.

1-5 Points

Type:

Porcelain Stoneware (Matte Finish)

Product Line:

LIVORNO

The marketing name for this product is property of Cancos Tile & Stone. This same product may be marketed under different names.