

# 2022 CATALOG





## INDEX

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- 04** Le-Pedra
- 06** Naturalz
- 08** B2
- 10** B5
- 12** B9
- 14** D2
- 16** H5
- 18** I5
- 20** I7
- 22** I9
- 24** R7
- 26** Y6

Portino is inspired by a fishing village called Portus Delphini (Port of Dolphin) or better known now as Portofino in Italy. The village is named after the dolphins that frolicked in the waters of the Tigullian Gulf.

Today, the fishing village is famed for its scenic harbour, glittering blue-green waters and multicoloured pastel houses that line the seafront. It has a mix of charming yet modern architecture that leaves a sensual experience to its visitors.

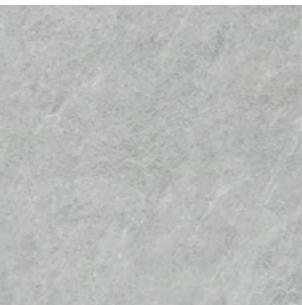
Portino by Niro Ceramic Group was established in 2015 and offers tiles that are timeless in design – visually, it consists of natural colours in a variety of sizes, adopting inspiration from the natural environment around the fishing village. It is the perfect choice for anyone who wants to add creative and imaginative design elements to any space.

### DISCLAIMER

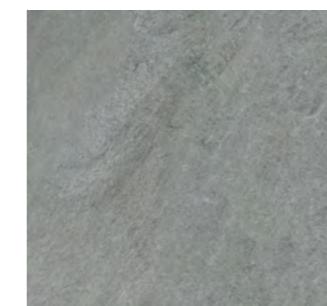
Colour reproductions in this printed piece may vary from actual tile. Please view actual tile samples before making decision.



**PED01** Sand



**PED02** Light



**PED03** Smoke



**PED04** Dim

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
6 Faces

**P RATING**  
P1

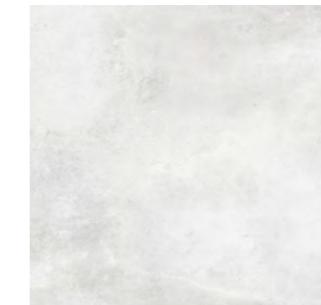
**SHADE VARIATION**

Moderately noticeable  
from tile to tile

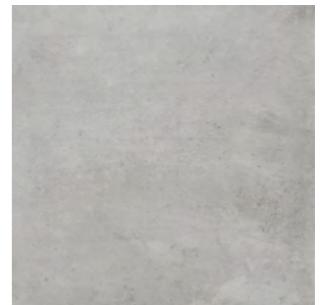


SCAN FOR MORE  
INFORMATION





**PNZ01** Silver



**PNZ02** Ash



**PNZ03** Iron

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
6 Faces

**P RATING**  
P1

**SHADE VARIATION**

Moderately noticeable  
from tile to tile



SCAN FOR MORE  
INFORMATION





**PB201** Weiss



**PB202** Braun



**PB203** Grau

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
1 Face

**P RATING**  
P1

**SHADE VARIATION**

**Uniform**  
from tile to tile

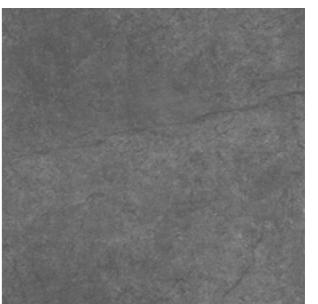


SCAN FOR MORE  
**INFORMATION**




**PB501** White

**PB502** Beige

**PB503** Grey

**PB504** Graphite

**PB505** Brown

**SIZE**  
30x60cm . 60x60cm

**WORKING SIZE**  
297x597mm . 597x597mm

**SURFACE**  
Matt . Structured

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
15 Faces (30x60cm)  
10 Faces (60x60cm)

**P RATING**  
P1

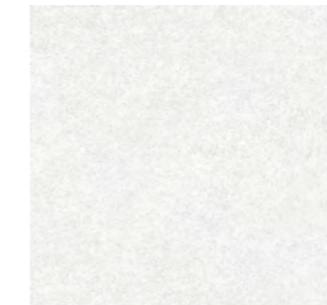
**SHADE VARIATION**



Moderately noticeable  
from tile to tile

SCAN FOR MORE  
INFORMATION





**PB901** White



**PB902** Brown



**PB903** Grey

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
1 Face

**P RATING**  
P1

**SHADE VARIATION**

Moderately noticeable  
from tile to tile



SCAN FOR MORE  
INFORMATION





**PD201** Frost



**PD202** Granola



**PD203** Slate

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
1 Face

**P RATING**  
P1

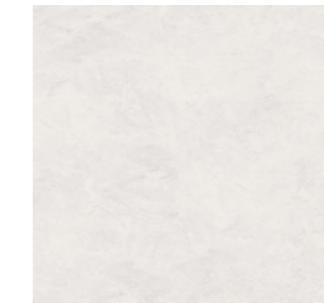
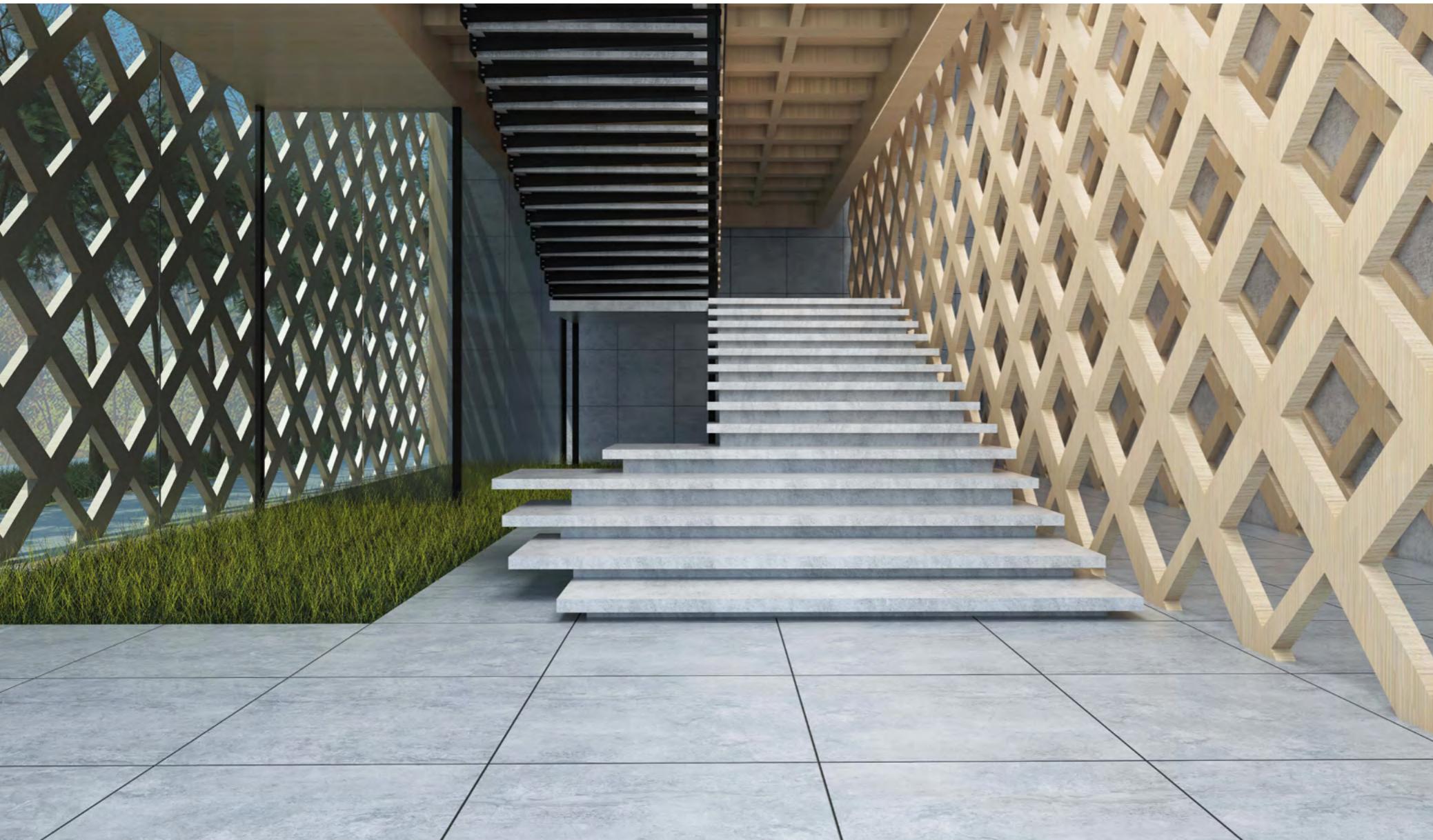
**SHADE VARIATION**

**Uniform**  
from tile to tile



SCAN FOR MORE  
**INFORMATION**




**PH501** White

**PH502** Beige

**PH503** Grey

**PH504** Graphite

**SIZE**  
30x60cm . 60x60cm

**WORKING SIZE**  
297x597mm . 597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
18 Faces (30x60cm)  
9 Faces (60x60cm)

**P RATING**  
P1

**SHADE VARIATION**

Moderately noticeable  
from tile to tile



SCAN FOR MORE  
**INFORMATION**

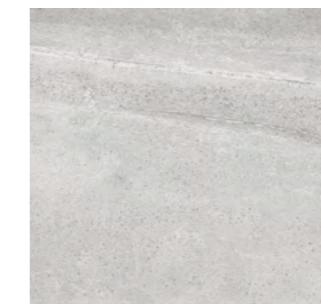




**PI501** White



**PI502** Beige



**PI503** Grey



**PI504** Graphite

**SIZE**  
30x60cm . 60x60cm

**WORKING SIZE**  
297x597mm . 597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
12 Faces (30x60cm)  
6 Faces (60x60cm)

**P RATING**  
P1

**SHADE VARIATION**

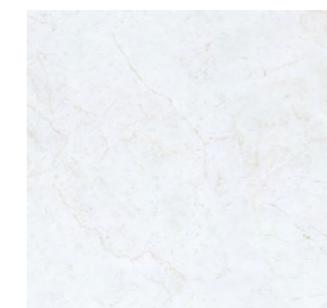
Moderately noticeable  
from tile to tile



SCAN FOR MORE  
INFORMATION




**PI701** Beige

**PI703** Dark Brown

**PI704** Grey

**PI705** Graphite

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**SHADE VARIATION**

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
9 Faces

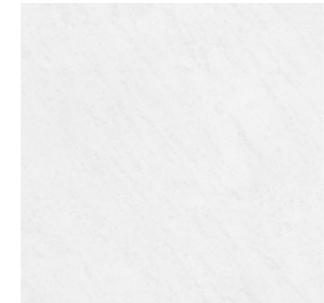
**P RATING**  
P1

**Moderately noticeable**  
from tile to tile



SCAN FOR MORE  
**INFORMATION**




**PI901** White

**PI902** Beige

**PI903** Grey

**SIZE**  
60x60cm

**WORKING SIZE**  
597x597mm

**SURFACE**  
Matt

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
Non Fixed Faces

**P RATING**  
P1

**SHADE VARIATION**

 Moderately noticeable  
from tile to tile

 SCAN FOR MORE  
INFORMATION




**PR701** Vanilla



**PR702** Cinnamon



**PR703** Espresso

**SIZE**  
30x60cm

**WORKING SIZE**  
297x597mm

**SURFACE**  
Matt

**SHADE VARIATION**

**THICKNESS**  
8.5mm

**NUMBER OF FACES**  
6 Faces

**P RATING**  
P1

**Distinctly noticeable**  
from tile to tile



SCAN FOR MORE  
**INFORMATION**




**PY602** Beige

**PY603** Oak

**PY604** Marrone

**PY605** Dark Oak

**PY606** Grey

**SIZE**  
 15x60cm . 30x60cm  
 60x60cm (except PY606)

**WORKING SIZE**  
 147x597mm . 297x597mm  
 597x597mm

**SURFACE**  
 Matt

**THICKNESS**  
 8.5mm

**NUMBER OF FACES**  
 24 Faces (15x60cm)  
 18 Faces (30x60cm)  
 7 Faces (60x60cm)

**P RATING**  
 P1

#### SHADE VARIATION

Distinctly noticeable  
from tile to tile



SCAN FOR MORE  
INFORMATION



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**TILE INSTALLATION**

The surface must be clean, smooth, dry and free of wax and grease. Areas that damaged or uneven must be patched or leveled. Layout mark the center point of all four walls or the floor. First of all, layout the tiles to minimize the number of cut tiles.

Use tile spacers for each tile set to leave equal joints between tiles. We recommend a minimum tiling gap of 3 mm. The setting time will vary from a few hours to few days and depends on the type of material or adhesive used for installation.

When grouting, remove tile spacers and spread grout on the tile surface using a rubber grout float or squeegee. Important that you refer to adhesive package to specific instructions or precautions.

Remove excess grout from surface immediately after grouting. Wait for a couple of minutes, depending on the specific instructions, and then remove excess grout from surface with damp sponge, clean grout residue and smooth the grout joints.

**TILE CARE AFTER INSTALLATION**

Initial cleaning immediately after floor installation is essential and important to remove all mortar, sand and grout residues that may be left. Portino can be cleaned by scrubbing the installation with clean water and a neutral detergent and with a thorough rinsing.

If grout residue still remains, further cleaning of the tile can be accomplished by using a grout remover. Equipment recommended for more aggressive cleaning are floor scrubbers or floor buffering machines equipped with a nylon pad or brush. A wet vacuum should be used to pick up suspended grout residue and construction dirt completely.

Caution should be exercised when using acid or acid-based cleaners as they can adversely affect the grout. Avoid using hydrofluoric acid to its compounds, according to UNI-EN 176.

If acid is used for cleaning the installation, caution to use diluted sulfuric acid or diluted hydrochloric acid mixed in a correct mixture or concentration. It is important that before the acid solution is placed on the floor, the grout joints be thoroughly saturated with water first. Installers should wait until the grout joint has fully cured, usually 7 to 10 days before using acidic cleaners.

**TILE CARE**

	STAIN	RECOMMENDATION
Food Groups	Soy sauce, Coke, Coffee / Tea, Juice, Beer / Wine, Ice Cream, Ketchup	Alkaline base detergent.
Oil & Grease	Vegetable, Mineral, Petroleum	Alkaline base detergent.
	Wax, Rubber	Scrape off then use solvent turpentine follow by alkaline base detergent
	Lipstick / Shoe Polish	Alkaline base detergent.
	Paint (oil based)	Turpentine or thinner
	Ink	Solvent such as turpentine or thinner
	Mortar	Acidic base detergent
	Rust stains	Diluted Hydrochloride acid or acidic base detergent
Marker	Felt Pen	Thinner
	Methylene Blue	Alkaline base detergent
	Crayon	Scrape off then use solvent turpentine follow by alkaline base detergent
Tile Grout	Cement	Diluted Hydrochloride acid
	Latex or Polymer	Solvent such as turpentine or thinner
	Epoxy	Scraper to scrape it off

**INFORMATION**  
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**DAILY MAINTENANCE**

General maintenance and cleaning of Portino tile will vary depending on the surface texture and soil load.

Generally, the cleaning should be performed by:

1. Sweeping or vacuuming to remove loose soil, sand or dirt contaminants.
2. Use damp mop with clean water.
3. Depending on the soil load, a more aggressive cleaning process may be required by using a neutral cleaner or a general household cleaner then followed by a thorough rinsing.

There are five steps that are critical and should always be remembered for the successful maintenance of porcelain tiles:

1. All spills should be cleaned as quickly as possible.
2. Use only the recommended dilution of detergent.
3. Allow proper dwelling of the detergent solution to act on the soil load. Generally 5-10 minutes is sufficient.
4. Scrub with a nylon pad or bristle brush.
5. Rinse thoroughly with clean, clear water to remove the dirty detergent solution and emulsified soil.

Rinsing is a critical step in the maintenance procedure. Use a wet vacuum, dry mop or toweling if necessary.

If dirty detergent solution is not removed and is allowed to dry on the surface, a coating will form which will be very difficult to remove.

**FOR MATT AND STRUCTURED SURFACE TILES**

1. Sweep or vacuum the floor of all loose dirt, sand and other foreign materials.
2. If there is difficulty to remove contaminants on the surface of the tile, firstly identify the specific spill or contaminant as different surface contaminants require different cleaning methods and chemicals.
3. Saturate the floor with a mild cleaning solution and water, and allow it to dwell for 5-10 minutes. Do not allow cleaning solutions to dry. It may be best to complete small areas at a time.
4. Ensure detergent does not contain 'hydrofluoric acid' or its compounds, according to UNI-EN 176.
5. Remove the dirty cleaning solution and rinse the surface with clean, clear water and buff with a dry mop or towel.
6. For the difficult-to-remove contaminants, scrub the cleaning solution with a floor machine equipped with a nylon pad or bristle brush. For residential applications and small areas, use a hand brush or nylon pad. Remove the dirty cleaning solution and rinse the surface with clean, clear water. Use a mop or a wet vacuum.

## TECHNICAL SPECIFICATION

DESCRIPTION	STANDARD TEST	MEASUREMENT UNIT	PORCELAIN (Group Bia)			
			mm	Rectified	mm	Non Rectified
Length & Width	ISO 10545-2	mm	±1.0	±0.30%	±2.0	±0.60%
Thickness	ISO 10545-2	mm	±0.5	±5.00%	±0.5	±5.00%
Sides Straightness	ISO 10545-2	mm	±0.8	±0.30%	±1.5	±0.50%
Rectangularity	ISO 10545-2	mm	±1.5	±0.30%	±2.0	±0.50%
Flatness:						
a. Centre Curvature	ISO 10545-2	mm	±1.8	±0.40%	±2.0	±0.50%
b. Edge Curvature	ISO 10545-2	mm	±1.8	±0.40%	±2.0	±0.50%
c. Warpage	ISO 10545-2	mm	±1.8	±0.40%	±2.0	±0.50%
Surface Quality	ISO 10545-2	One Major Area of Tiles	Min. 95% free from defects			
Water Absorption	ISO 10545-3	Mass	Ev ≤ 0.5%			
Breaking Strength						
a. Thickness ≥ 7.5mm	ISO 10545-4	N	Not less than 1300			
b. Thickness < 7.5mm	ISO 10545-4	N	Not less than 700			
Modulus of Rupture						
a. Thickness ≥ 7.5mm	ISO 10545-4	N/mm <sup>2</sup>	Minimum 35 Individual Minimum 32			
b. Thickness < 7.5mm						
Abrasion Resistance Surfaces Abrasion for glazed tiles	ISO 10545-7	Visual Check	≥ PEI 3 (Dependent on product type)*			
Crazing Test (glazed tiles)	ISO 10545-11	Visual Check	Required			
Frost Resistance	ISO 10545-12	Visual Check	Required			
Chemical Resistance						
a. Low concentrations	ISO 10545-13	Visual Check	Manuf. To State			
b. Household chemicals and swimming pool salts	ISO 10545-13	Visual Check	Minimum B			
Stain Resistance For glazed tile	ISO 10545-14	Visual Check	Minimum class 3			
Slip Resistance (Excluding Polished, Lappato and Matt Satin finishing)	AS/NZS 4586 App. A	Visual Check	Wet Pendulum ≤ P2			

The technical specifications is only for rectified tiles. \* Refer to test report for specific test result.

## SHADE VARIATION



### UNIFORM FROM TILE TO TILE

The range of colours and tones within the same shade is relatively uniform from tile to tile.

Minimal to no difference among pieces from the same production run.



### SLIGHTLY NOTICEABLE FROM TILE TO TILE

The range of colours and tones within the same shade is slightly noticeable from tile to tile.

Clearly distinguishable differences in design or pattern with similar or slight change in colour tones.



### MODERATELY NOTICEABLE FROM TILE TO TILE

The range of colours and tones within the same shade is moderately uniform from tile to tile.

Clearly distinguishable differences in design or pattern.



### DISTINCTLY NOTICEABLE FROM TILE TO TILE

The range of colours and tones within the same shade is distinctly different from tile to tile.

Random colour differences from tile to tile so that one tile may have totally different colour from that on other tiles. Final installation can be unique.

## FACTORY

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