

 NIRO GRANITE
THE SWISS QUALITY TILE

FULL BODY PORCELAIN TILE

Gradino

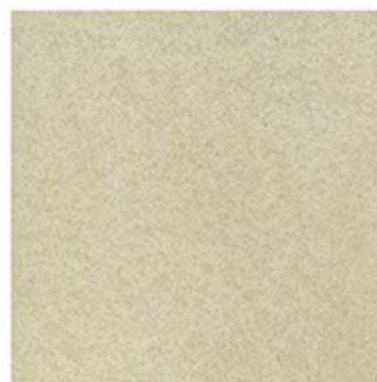
GRADINO • for every steps in steady pace



Gradino

GRADINO · for every steps in steady pace

Presenting Gradino, the masculine series of Niro Granite that emphasizes on authenticity and realism. At every steady step, these 4 exquisite sandy colours marked a strong grip for every pace with its rough surfaces. Offering 300x300mm in size, Gradino manifest the confidence in every step we take.



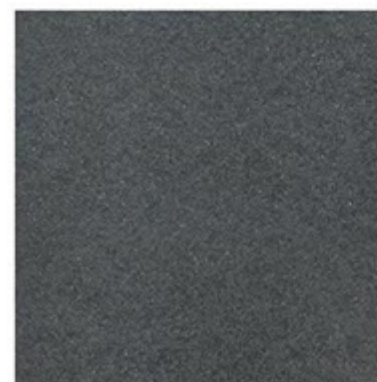
GGR01 · BEIGE | 30x30cm



GGR02 · MARRONE | 30x30cm



GGR03 · GRIGIO | 30x30cm

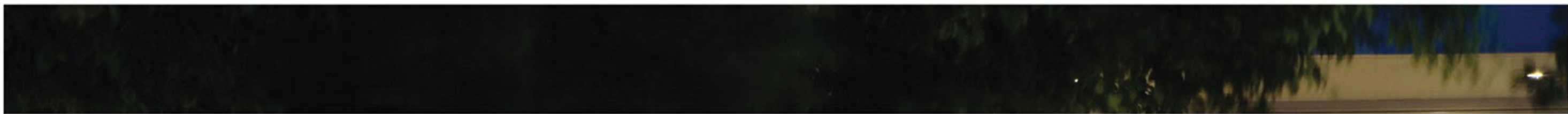


GGR04 · NERO | 30x30cm



Gradino

GRADINO - for every steps in steady pace



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Gradino
GRADINO - for every steps in steady pace

CUT TILE 30 x 15cm

GGR01 • BEIGE



TILE 30 x 30cm

GGR02 • MARRONE



TILE 30 x 30cm

GRADINO • FOR EVERY STEPS IN STEADY PACE

GGR03 • GRIGIO

TECHNICAL SPECIFICATIONS				
DESCRIPTION	STANDARD TEST	MEASUREMENT UNIT	ISO STANDARD REQUIREMENT	NIRO GRANITE
Length & Width	ISO 10545 -2	mm	±0.6% Max	±0.30% Max
Thickness	ISO 10545 -2	mm	±5.0% Max	±5.0% Max
Sides Straightness	ISO 10545 -2	mm	±0.5% Max	±0.25% Max
Rectangularity	ISO 10545 -2	mm	±0.5% Max	±0.25% Max
Flatness: a) Centre Curvature b) Edge Curvature c) Warpage	ISO 10545 -2 ISO 10545 -2 ISO 10545 -2	mm mm mm	±0.5% Max ±0.5% Max ±0.5% Max	±0.20% Max / Max 2.0mm ±0.20% Max / Max 2.0mm ±0.20% Max / Max 2.0mm
Surface Quality	ISO 10545 -2	One Major Area of Tiles	≥ 95% free from visible defect	Comply
Water Absorption	ISO 10545 -3	Mass	≤0.5%	≤0.20%
Breaking Strength	ISO 10545 -4	N	≥ 1300 N	≥ 1300 N
Modulus of Rupture	ISO 10545 -4	N/mm ²	≥ 35 N/mm ² Individual ≥ 32 N/mm ²	≥ 35 N/mm ² Individual ≥ 32 N/mm ²
Abrasion Resistance a) Deep Abrasion for unglazed tiles b) Surfaces Abrasion for glazed tiles	ISO 10545 -6 ISO 10545 -7	mm ³ Visual Check	≤ 175 mm ³ Manuf. to state abrasion class, cycle and passed	≤ 160 mm ³ ≥ PEI 3 (Dependent on product type)*
Crazing Test (glazed tiles)	ISO 10545 -11	Visual Check	No Sign of Crazing	No Sign of Crazing
Frost Resistance	ISO 10545 -12	Visual Check	Required	No Visible Crack
Chemical Resistance a) Low concentrations b) Household chemicals and swimming pool salts	ISO 10545 -13 ISO 10545 -13	Visual Check Visual Check	Manuf. To State ≥ Class B	Class A Class B (For Polished Tile) Class A Class B (For Polished Tile)
Stain Resistance a) For unglazed tiles b) For glazed tiles	ISO 10545 -14 ISO 10545 -14	Visual Check Visual Check	Manuf. to State ≥ Class 3	≥ Class 3 ≥ Class 3
Slip Resistance (Excluding Polished, Lappato and Matt Sain finishing)	AS/NZS 4586 App. A	P0 to P5	Manuf. to State	Wet Pendulum ≥ P2 (Dependent on product type)*

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

Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.



Colour Variations: Since the colour reproduction in this printed piece will vary from the actual tile colours, final selection should be made from the samples. Colour, shade and glaze variations may exist due to the inherent characteristics of porcelain tile.

Due to the low porosity of porcelain tiles, an Improved High Performance Cementitious adhesive in accordance to BS EN 12004 & ISO 13007-1 is highly recommended for proper installation. Products that meet this standard are available amongst leading adhesive manufacturers. Please seek expert advice from adhesive manufacturers for proper selection and application.

SHADE AND TONALITIES

V1 UNIFORM FROM TILE TO TILE	V2 SLIGHTLY NOTICEABLE FROM TILE TO TILE	V3 MODERATELY NOTICEABLE FROM TILE TO TILE	V4 DISTINCTLY NOTICEABLE FROM TILE TO TILE
V1 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.	V2 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 variation or slight change in colour tones.	V3 Moderately noticeable from tile to tile The range of colours and tones within the same shade is moderately noticeable from tile to tile. Clearly distinguishable differences in design or pattern.	V4 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 clearly different colour from that of other tiles. Final installation can be uneven.

