



 **NIRO GRANITE**
THE SWISS-QUALITY TILE

digital
PORCELAIN CILES COURAGE PERFECTION

ecoFORESTA

BE ECOLOGICAL • BE TRENDY • THE DEFINED DIGITAL COLLECTION

ecoFORESTA

BE ECOLOGICAL • BE TRENDY • THE DEFINED DIGITAL COLLECTION

Presenting Eco-Foresta, it's the latest inclination of today's world. The glazed porcelain tiles by Niro Granite reflect the prefix of ecology yet resembles the splendour of the Mother Nature's wood through the advancement of digital technology.

Apprising Eco-Foresta; Niro Granite's 100% ultra-fine and high resolution printing technology produces authentic and magnificent images that manifest the signature of genuineness with each images' individuality.

Exemplifying Eco-Foresta, be ecological, be trendy, be Eco-Foresta, the defined digital collection by Niro Granite... Just try to spot the difference between natural wood and Eco-Foresta...

digital
porcelain tiles towards perfection



GDW10 ALBERO BIANCO
GDW12 ALBERO BEIGE
GDW15 ROSSO ALBERO
GDW16 MARRONE ALBERO
GDW88 PIANTA MARRONE



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100% ultra-fine and
high resolution printing technology



signature of genuineness
with each images' individuality



GDW10 ALBERO BIANCO 60cm x 15cm • 90cm x 15cm | slightly structured



GDW12 ALBERO BEIGE 60cm x 15cm • 90cm x 15cm | slightly structured



GDW15 ROSSO ALBERO 60cm x 15cm • 90cm x 15cm | slightly structured



GDW16 MARRONE ALBERO 60cm x 15cm • 90cm x 15cm | slightly structured



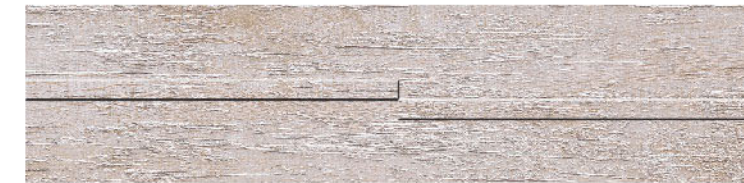
GDW88 PIANTA MARRONE 60cm x 15cm • 90cm x 15cm | slightly structured



ACCESSORIES AVAILABLE



GDW10 DECO A | 60cm x 15cm



GDW10 DECO B | 60cm x 15cm



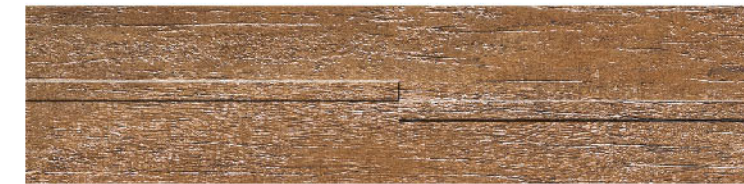
GDW12 DECO A | 60cm x 15cm



GDW12 DECO B | 60cm x 15cm



GDW15 DECO A | 60cm x 15cm



GDW15 DECO B | 60cm x 15cm



GDW16 DECO A | 60cm x 15cm



GDW16 DECO B | 60cm x 15cm



GDW88 DECO A | 60cm x 15cm



GDW88 DECO B | 60cm x 15cm

DIGITAL

porcelain tiles towards perfection



HI-DEFINITION PRINTING

- + Realistic and ultra-fine looking product.
- + Capturing the finest details of the design and the authentic image.



MINIMAL-REPETITIVE PRINTING

- + Each tile has its own uniqueness that can bring out it's natural individualistic look.



COLOUR & TONE

- + A lifelike design style product.



CUSTOMIZATION

- + Design and concept can be tailored made.



UNLIMITED PRINTABLE SURFACES

- + Ability to print on all surfaces to make a genuine looking product.



PRODUCTION CONSISTENCY

- + From time to time, shade variation is stable.



PRODUCT DEVELOPMENT EFFICIENCY

- + More trendy product in a quicker time.



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/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2
Abrasion Resistance a) Deep Abrasion for unglazed tiles b) Surfaces Abrasion for glazed tiles	ISO 10545 -6 ISO 10545 -7	mm3 Visual Check	≤ 175 mm3 Manuf. to state abrasion class, cycle and passed	≤ 160 mm3 ≥ 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 Satin 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.

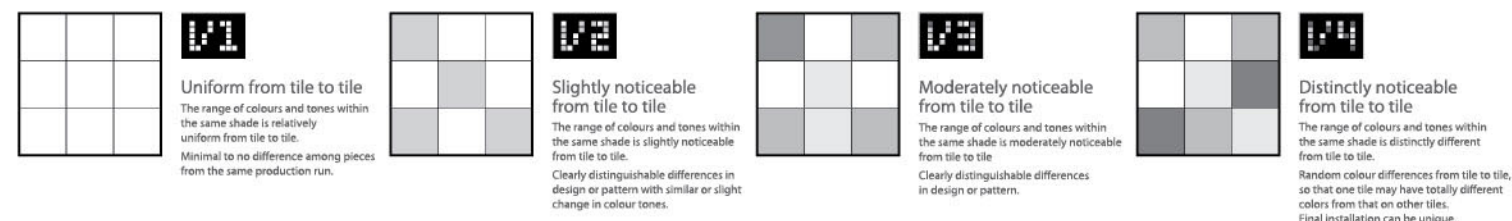
Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.

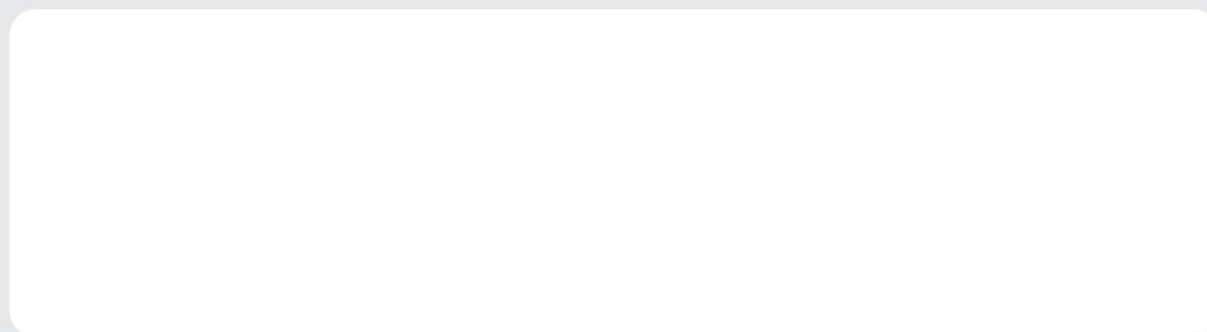
Colour Variations: Since the colour reproduction in this printed piece will vary from the actual tile colours, final selection should be made from tile samples. Colour, shade and glaze variations may exist due to the inherent characteristics of porcelain tile.



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





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