



 **NIRO GRANITE**
THE SWISS-QUALITY FILE

digital
BORDERLINE-ELIM. EQUADORA DE PRESSION

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



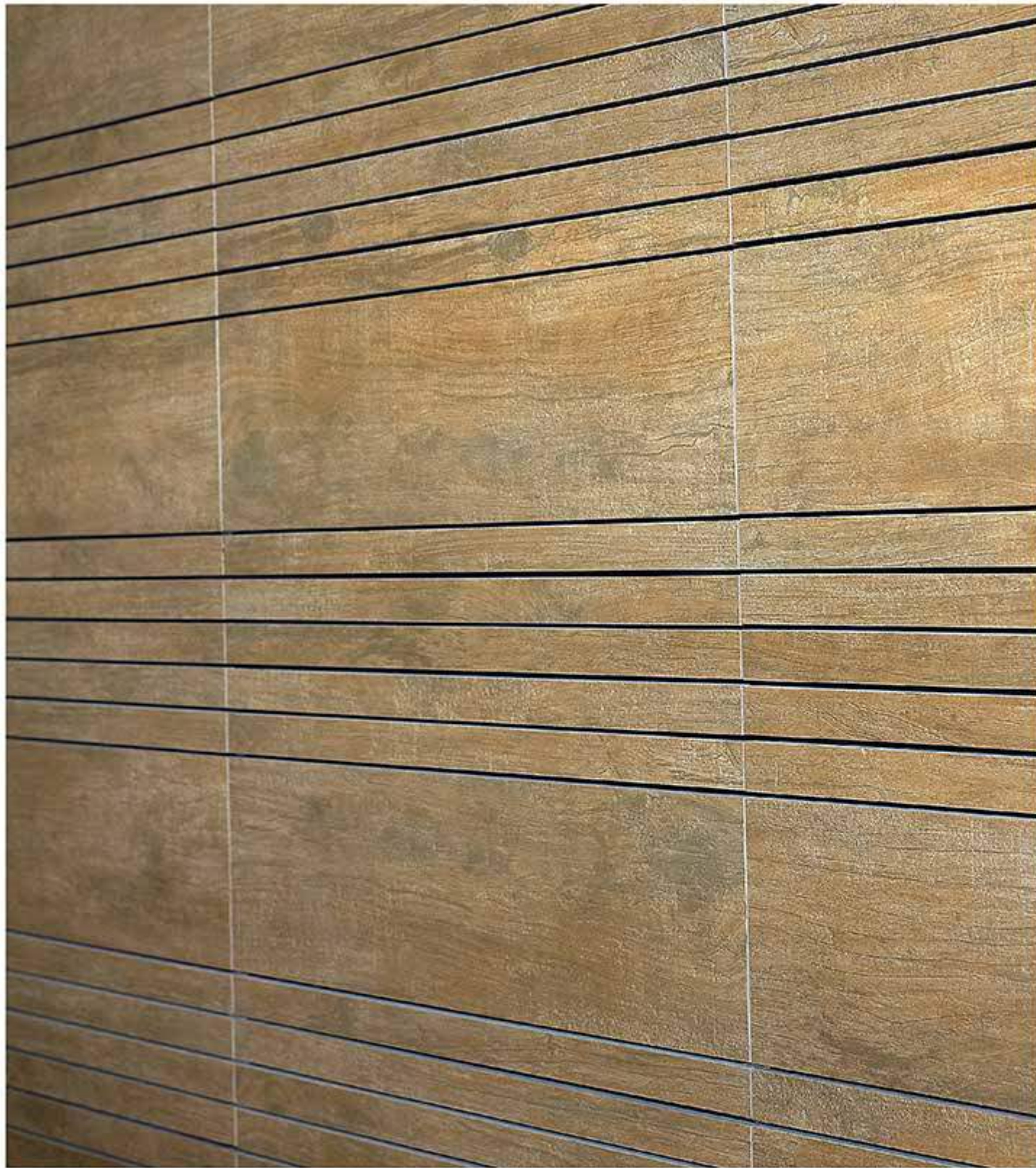
GDW10 ALBERO BIANCO	GDW12 ALBERO BEIGE	GDW15 ROSSO ALBERO	GDW16 MARRONE ALBERO	GDW83 PIANTE BEIGE	GDW88 PIANTA MARRONE
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ecoFORESTA
BE ECOLOGICAL - BE TRENDY - THE DEFINED DIGITAL COLLECTION

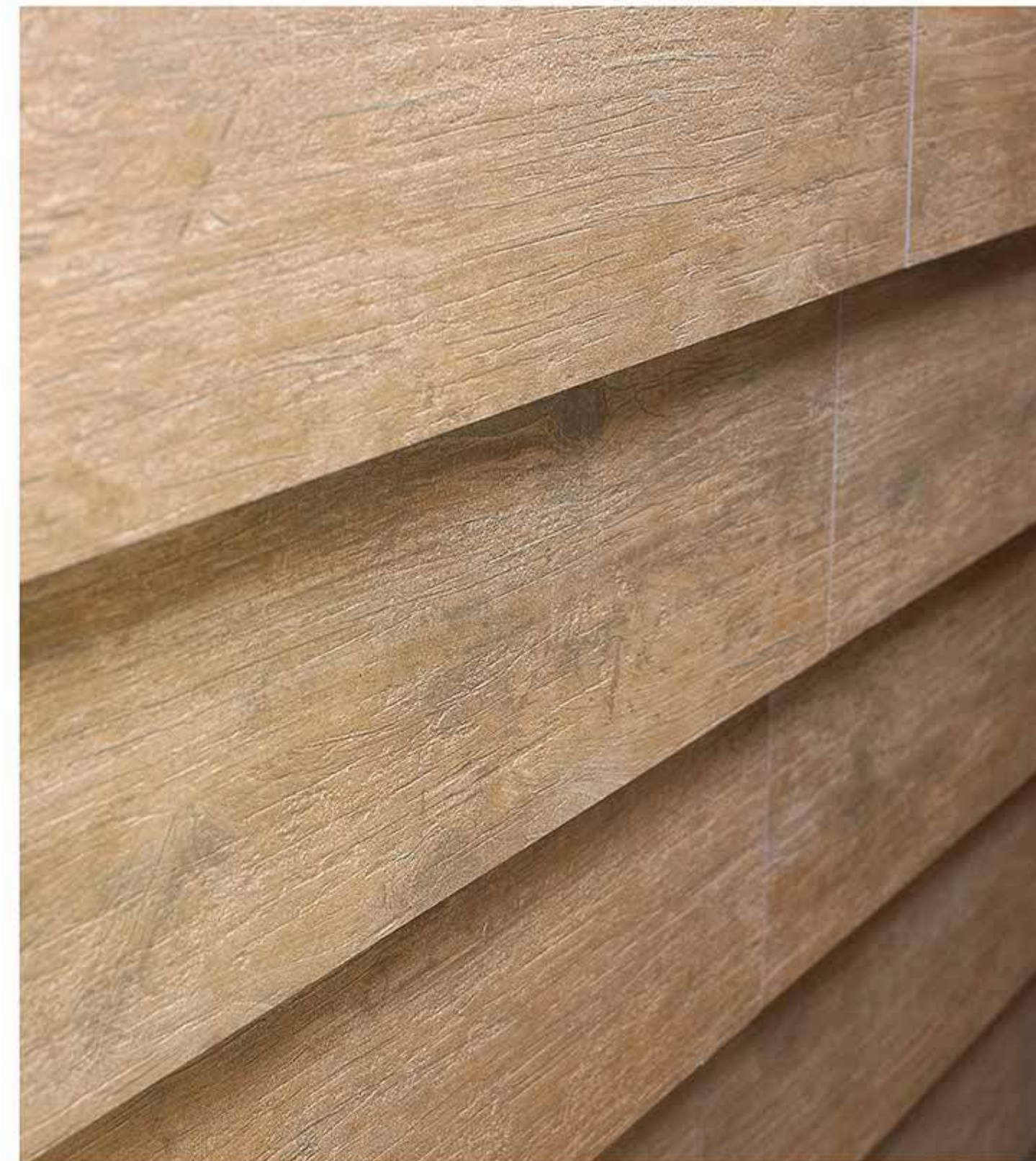
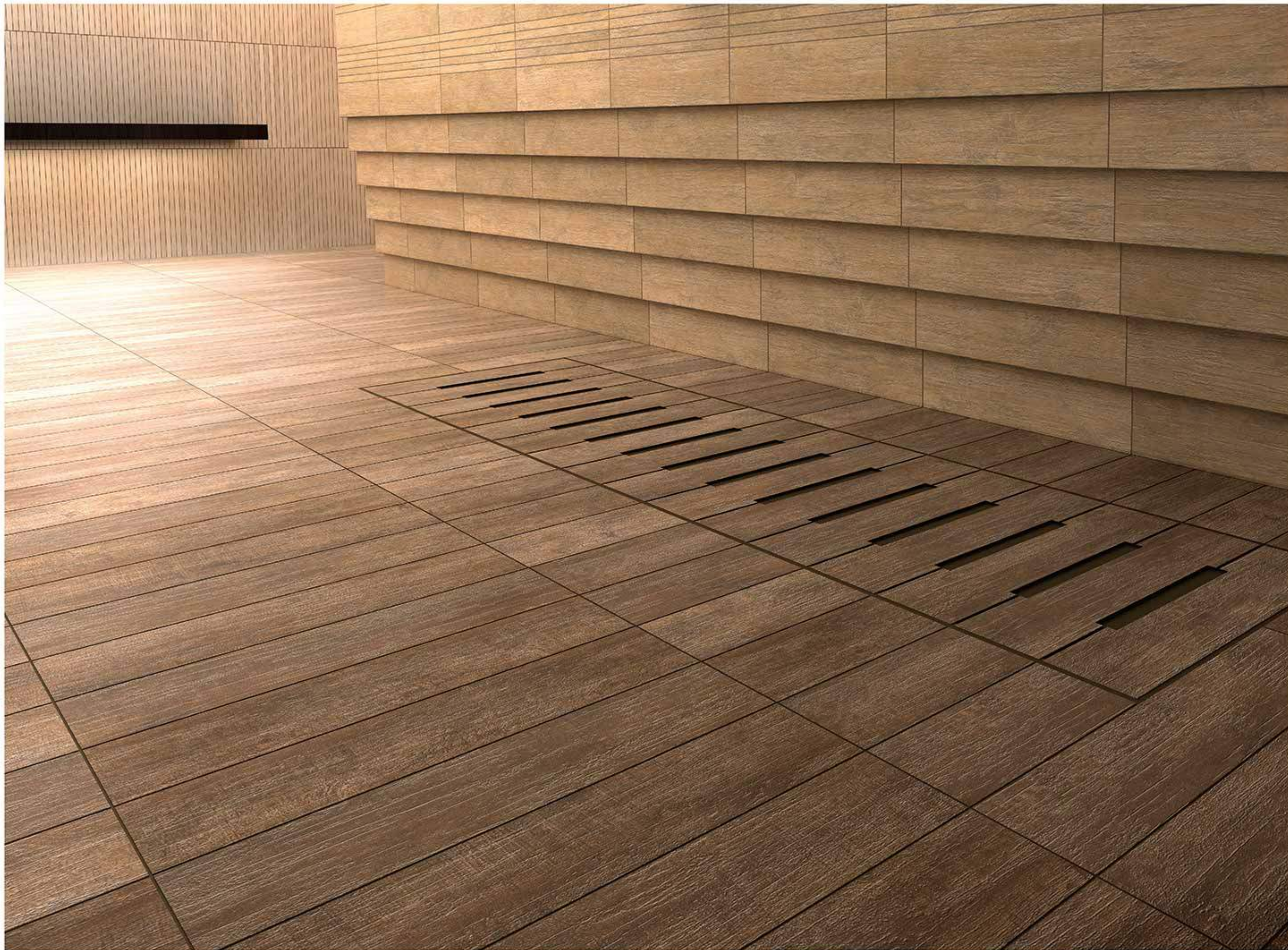


100% ultra-fine and
high resolution printing technology



signature of genuineness
with each images' individuality





design and concept can be
tailored made for your requirement and taste



GDW88 Pianta Marrone 15cm x 60cm • 15cm x 90cm | slightly structured



GDW83 Pianta Beige 15cm x 60cm • 15cm x 90cm | slightly structured



GDW16 Rosso Albero 15cm x 60cm • 15cm x 90cm | slightly structured



GDW15 Albero Beige 15cm x 60cm • 15cm x 90cm | slightly structured



GDW12 Albero Bianco 15cm x 60cm • 15cm x 90cm | slightly structured



GDW10 Albero Bianco 15cm x 60cm • 15cm x 90cm | slightly structured

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 its 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	MS ISO 10545 - 2	mm	± 0.5% Max	± 0.25% Max
Thickness	MS ISO 10545 - 2	mm	± 5.0% Max	± 2.50% Max
Sides Straightness	MS ISO 10545 - 2	mm	± 0.5% Max	± 0.25% Max
Rectangularity	MS ISO 10545 - 2	mm	± 0.6% Max	± 0.30% Max
Flatness: a) Centre Curvature b) Edge Curvature c) Warpage	MS ISO 10545 - 2 MS ISO 10545 - 2 MS ISO 10545 - 2	mm mm mm	± 0.5% Max ± 0.5% Max ± 0.5% Max	± 0.25% Max ± 0.25% Max ± 0.25% Max
Surface Quality	MS ISO 10545 - 2	One major area of tiles	≥ 95% free from visible defect	Comply
Water Absorption	MS ISO 10545 - 3	Mass	≤ 0.5%	≤ 0.25% Max
Modulus of Rupture	MS ISO 10545 - 4	N/mm ²	≥ 35 N/mm ²	≥ 35 N/mm ²
Deep Abrasion	MS ISO 10545 - 6	mm ³	≤ 175 mm ³	≤ 160 mm ³
Surface Abrasion PEI ASTM C1027	MS ISO 10545 - 7	Visual Check	Manuf. to State Abrasion Class, Cycle Passed	Min PEI 3
Crazing Test	MS ISO 10545 - 11	Visual Check	Not Applicable for porcelain tiles	Not Applicable
Frost Resistance	MS ISO 10545 - 12	Visual Check	Required	No Visible Crack
Chemical Resistance (Low Cons.)	MS ISO 10545 - 13	Visual Check	Manuf. to State	Max Visible Change On Cut Side
Chemical Resistance (Household/Swimming Pool)	MS ISO 10545 - 13	Visual Check	Max Visible Change On Cut Side	Max Visible Change On Cut Side
Stain Resistance	MS ISO 10545 - 14	Visual Check	Class 3 Min	Class 3 Min
Coefficient of Friction AS/NZS 4586-1999 App.D.	MS ISO 10545 - 17	Manuf. to State	Manuf. to State	Oil /Wet Ramp (R9 Min)

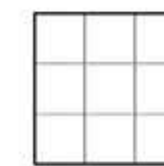
Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.

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.

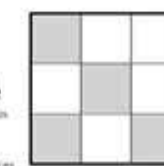


Due to the low porosity of porcelain tiles, an improved High Performance Cementitious adhesive in accordance to BS EN 12004 & ISO 13007-1 is highly recommended for proper installation. Products that meet this standard are available amongst leading adhesive manufacturers. Please seek expert advice from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

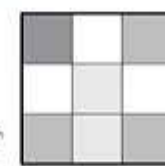
SHADE AND TONALITIES



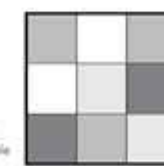
U1
Uniform from tile to tile
The range of colours and tones within the same shade is relatively uniform from tile to tile.
Minimal to no difference among pieces from the same production run.



U2
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 patterns with similar or slight change in colour tones.



U3
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.



U4
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 colours from that on other tiles.
Final installation can be unique.



PASSIONATE ABOUT LIFE



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