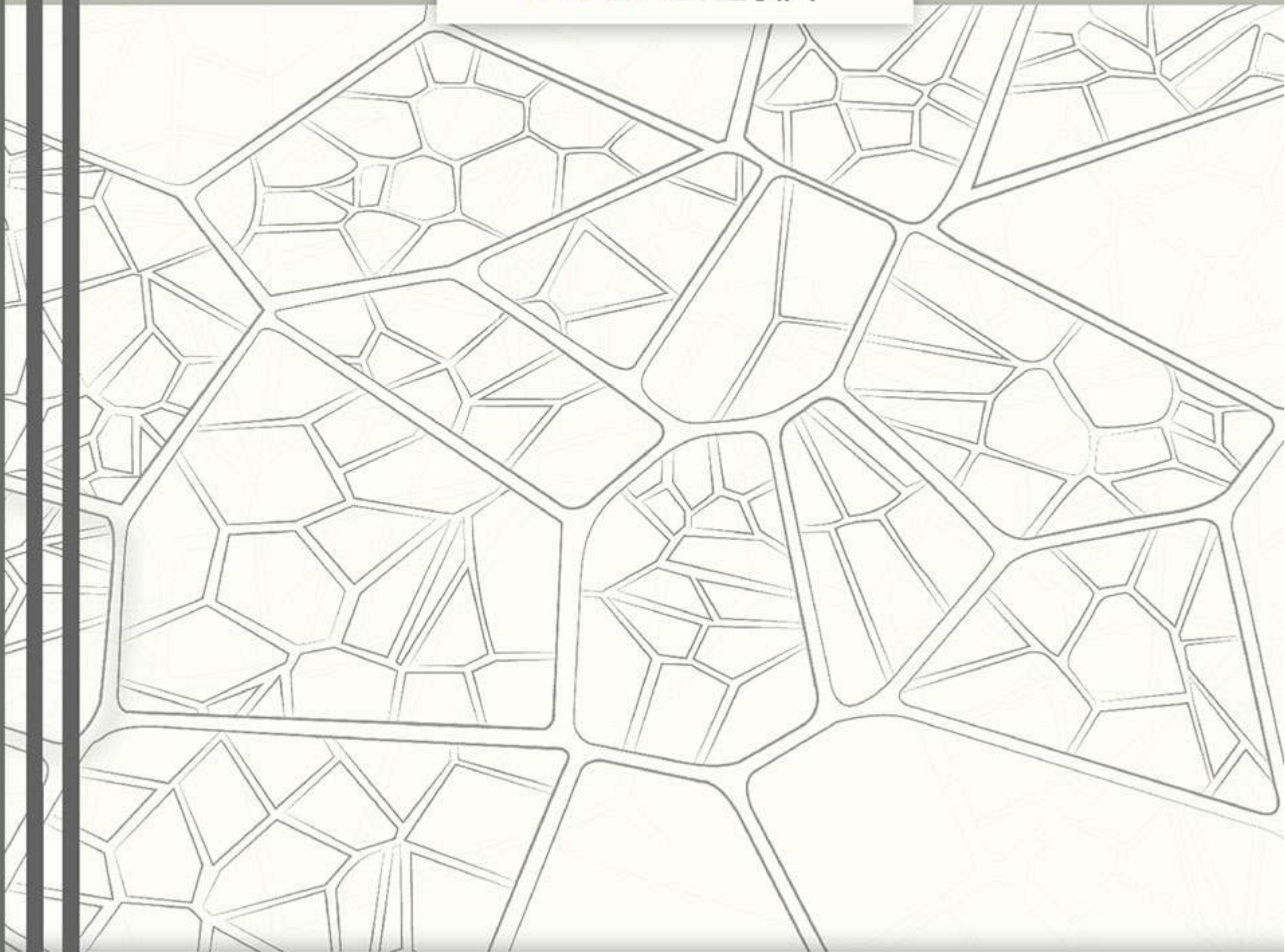


# SOFTWOOD

BE ECOLOGICAL | BE TRENDY

ecoFORESTA





SOFTWOOD // INDEX

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BE ECOLOGICAL | BE TRENDY



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SOFTWOOD  
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## SOFTWOOD // INTRODUCTION

*Presenting EcoForesta, the latest inclination of today's world. The glazed porcelain tile by Niro Granite reflects the prefix of ecology yet personifies the splendour of Mother Nature's wood work through the advancements of digital technology.*

*Presented in size of 20x120cm and 15x60cm with 4 astounding colours of Legna Bianco, Legno Beigo, Marrone Legno, Legna Castano, the authenticity of the woodland serenity is perfectly manifested through Niro Granite's 100% ultra-fine and high resolution printing technology.*

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

**ecoforesta**

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**SOFTWOOD**  
FLOOR LEGNA BIANCO GDW01  
WALL LEGNA BIANCO LISTELLO A  
120x20cm

LEGNA **BIANCO**  
GDW01

**SIZE**

15x60cm  
20x120cm

**SURFACE**

MATT  
SLIGHTLY STRUCTURED

**DECOR**

LISTELLO A,B,C







**SOFTWOOD**  
LEGNA BIANCO GDW01  
120x20cm

LEGNA **BIANCO**  
GDW01



LEGNA BIANCO GDW01 | 120x20cm • 15x60cm



LEGNA BIANCO GDW01 LISTELLO A | 120x20cm • 15x60cm



LEGNA BIANCO GDW01 LISTELLO B | 120x20cm • 15x60cm



LEGNA BIANCO GDW01 LISTELLO C | 120x20cm • 15x60cm

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LEGNO **BEIGO**  
GDW02

**SIZE**

15x60cm  
20x120cm

**SURFACE**

MATT  
SLIGHTLY STRUCTURED

**DECOR**

LISTELLO A,B,C



**SOFTWOOD**  
FLOOR LEGNO BEIGO GDW02  
WALL LEGNO BEIGO + LISTELLO A  
120x20cm





SOFTWOOD  
LEGNO BEIGO GDW02  
120x20cm

LEGNO **BEIGO**  
GDW02



LEGNO BEIGO GDW02 | 120x20cm • 15x60cm



LEGNO BEIGO GDW02 LISTELLO A | 120x20cm • 15x60cm



LEGNO BEIGO GDW02 LISTELLO B | 120x20cm • 15x60cm



LEGNO BEIGO GDW02 LISTELLO C | 120x20cm • 15x60cm

SOFTWOOD  
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MARRONE **LEGNO**  
GDW03

**SIZE**  
15x60cm  
20x120cm

**SURFACE**  
MATT  
SLIGHTLY STRUCTURED

**DECOR**  
LISTELLO A,B,C



**SOFTWOOD**  
FLOOR MARRONE LEGNO GDW03  
WALL MARRONE LEGNO LISTELLO C  
120x20cm



**SOFTWOOD**  
MARRONE LEGNO GDW03 + LISTELLO B  
120x20cm



MARRONE LEGNO GDW03 | 120x20cm • 15x60cm



MARRONE LEGNO GDW03 LISTELLO A | 120x20cm • 15x60cm



MARRONE LEGNO GDW03 LISTELLO B | 120x20cm • 15x60cm



MARRONE LEGNO GDW03 LISTELLO C | 120x20cm • 15x60cm

**SOFTWOOD**  
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LEGNA **CASTANO**  
GDW04

**SIZE**

15x60cm  
20x120cm

**SURFACE**

MATT  
SLIGHTLY STRUCTURED

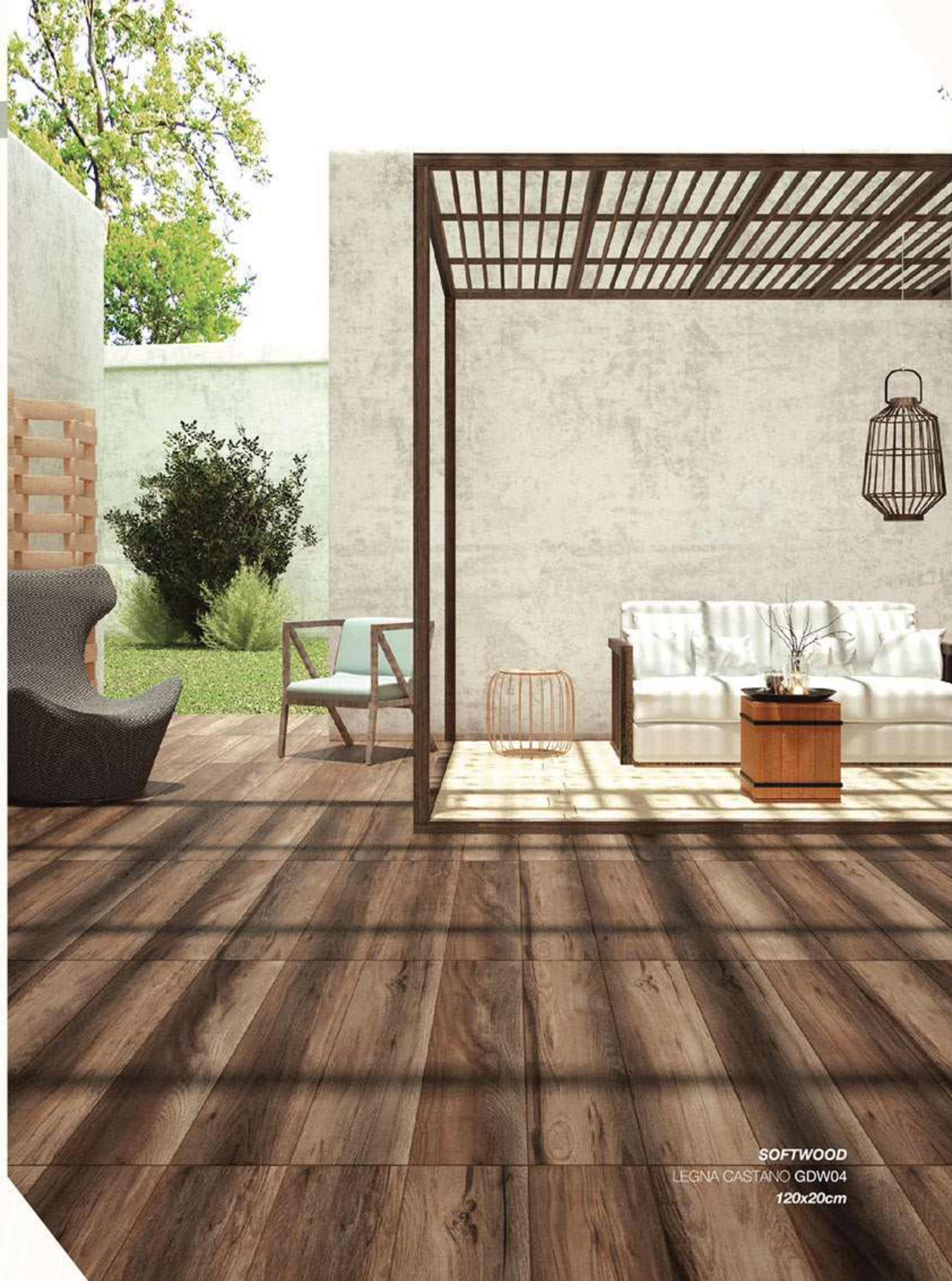
**DECOR**

LISTELLO A,B,C



**SOFTWOOD**  
LEGNA CASTANO GDW04 + LISTELLO C  
120x20cm





**SOFTWOOD**  
LEGNA CASTANO GDW04  
120x20cm

LEGNA **CASTANO**  
GDW04



LEGNA CASTANO GDW04 | 120x20cm • 15x60cm



LEGNA CASTANO GDW04 LISTELLO A | 120x20cm • 15x60cm



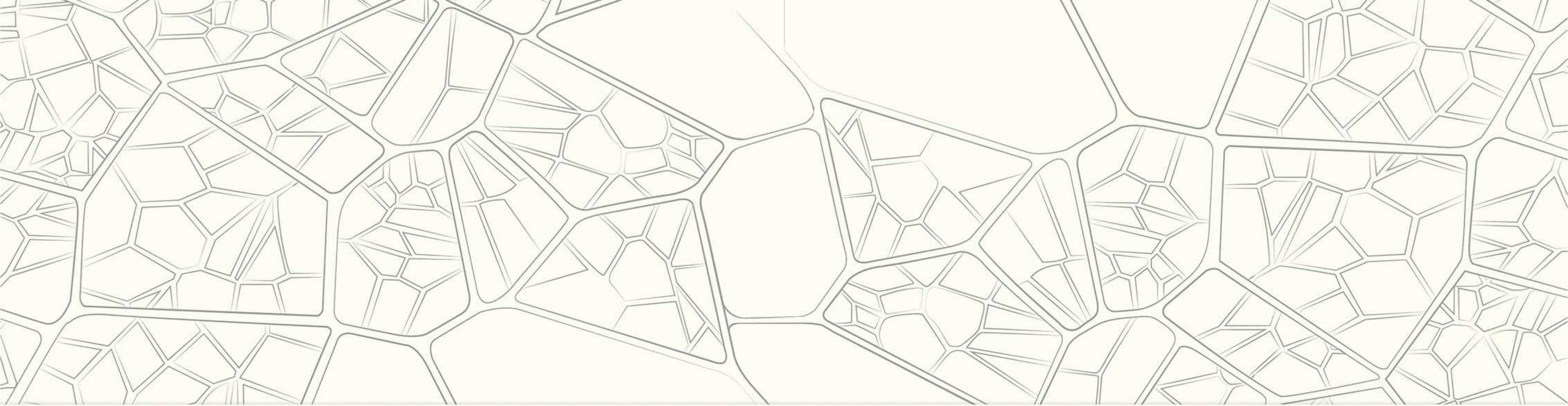
LEGNA CASTANO GDW04 LISTELLO B | 120x20cm • 15x60cm



LEGNA CASTANO GDW04 LISTELLO C | 120x20cm • 15x60cm

**SOFTWOOD**  
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## TECHNICAL SPECIFICATIONS

2020-11-26

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	ISO 10545 -2	mm	±0.5% Max	±0.20% Max / Max 2.0mm
b) Edge Curvature	ISO 10545 -2	mm	±0.5% Max	±0.20% Max / Max 2.0mm
c) Warpage	ISO 10545 -2	mm	±0.5% Max	±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 <sup>2</sup>	≥ 35 N/mm <sup>2</sup> Individual ≥ 32 N/mm <sup>2</sup>	≥ 35 N/mm <sup>2</sup> Individual ≥ 32 N/mm <sup>2</sup>
Abrasion Resistance				
a) Deep Abrasion for unglazed tiles	ISO 10545 -6	mm <sup>3</sup>	≤ 175 mm <sup>3</sup>	≤ 160 mm <sup>3</sup>
b) Surfaces Abrasion for glazed tiles	ISO 10545 -7	Visual Check	Manuf. to state abrasion class, cycle and passed	≥ 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	ISO 10545 -13	Visual Check	Manuf. To State	Class A Class B (For Polished Tile)
b) Household chemicals and swimming pool salts	ISO 10545 -13	Visual Check	≥ Class B	Class A Class B (For Polished Tile)
Stain Resistance				
a) For unglazed tiles	ISO 10545 -14	Visual Check	Manuf. to State	≥ Class 3
b) For glazed tiles	ISO 10545 -14	Visual Check	≥ 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.






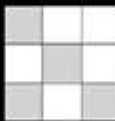
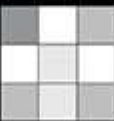
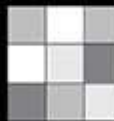
Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.

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

 <b>U1</b> UNIFORM FROM TILE TO TILE	 <b>V2</b> SLIGHTLY NOTICEABLE FROM TILE TO TILE	 <b>V3</b> MODERATELY NOTICEABLE FROM TILE TO TILE	 <b>U4</b> DISTINCTLY NOTICEABLE FROM TILE TO TILE
 <b>U1</b> 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.	 <b>V2</b> 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.	 <b>V3</b> 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.	 <b>U4</b> 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 some tile may have totally different colours from that of other tiles. Final installation can be unique.



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