

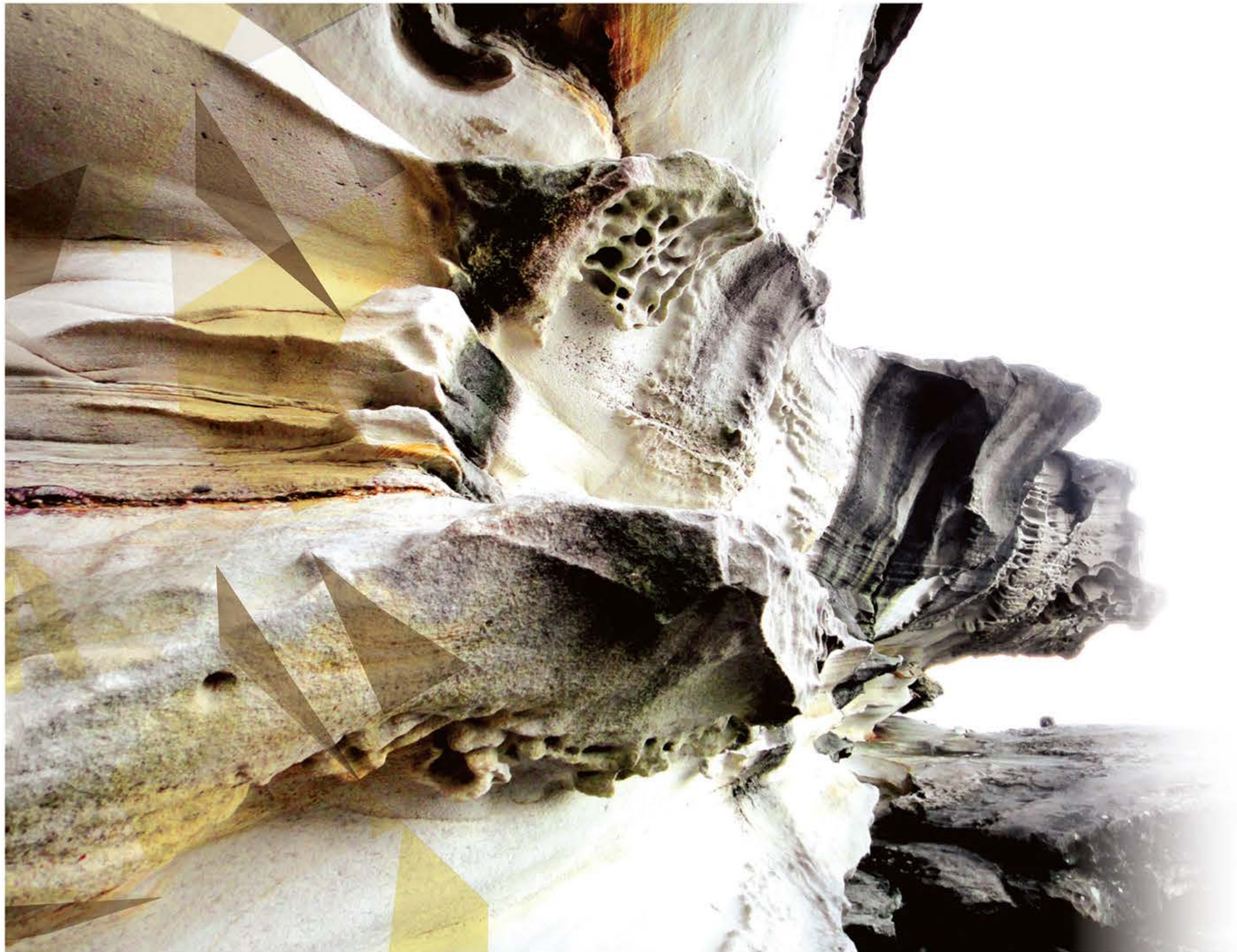


Elmina
THE BOLD PLETHORA



NIRO GRANITE
THE SWISS QUALITY TILE

DIGITAL
SUPERLATTI E LEMME EDIZIONE DIGITALE



Elmina

— THE BOLD PLETHORA

Elmina is the porcelain tile series enthused by gold limestone originally used by Spanish and Portuguese conquerors in their construction of castles and fortresses all across the Atlantic Coast of Africa. Mottles of orange and yellow add brilliance while tonal veins of ivory and gold soothing tones add feature to the gold limestone inspired design of Elmina.

Dubbed after the oldest fortress of the Atlantic Coast, the comfortable yet regal opulence of Elmina is the perfect fit for any space which needs the temperate charm of its soothing tones.

Elmina by Niro Granite consists of 4 bold tones with formats of 30x60cm, 60x60cm and 60x120cm. The structured and lappato surfaces allow for a smooth continuity in both internal and external environments. Embolden your surrounding space with specks of gold to the bold plethora of Elmina.

The background of the advertisement features a collage of four different tile samples. In the top left, there is a light beige tile with a subtle, organic pattern. In the top right, a dark grey tile with a textured, almost stone-like appearance. In the bottom left, a medium grey tile with a fine, uniform texture. In the bottom right, a dark charcoal grey tile with a more pronounced, pebbled texture. The tiles are arranged in a layered, overlapping fashion, creating a sense of depth and showcasing the variety of the collection.

Elmina
— THE BOLD PLETHORA

4 colours
GEL01 Fuji White
GEL02 Sierra Beige
GEL03 Yukon Grey
GEL04 Rocky Grey

2 surfaces
Lappato
Structured

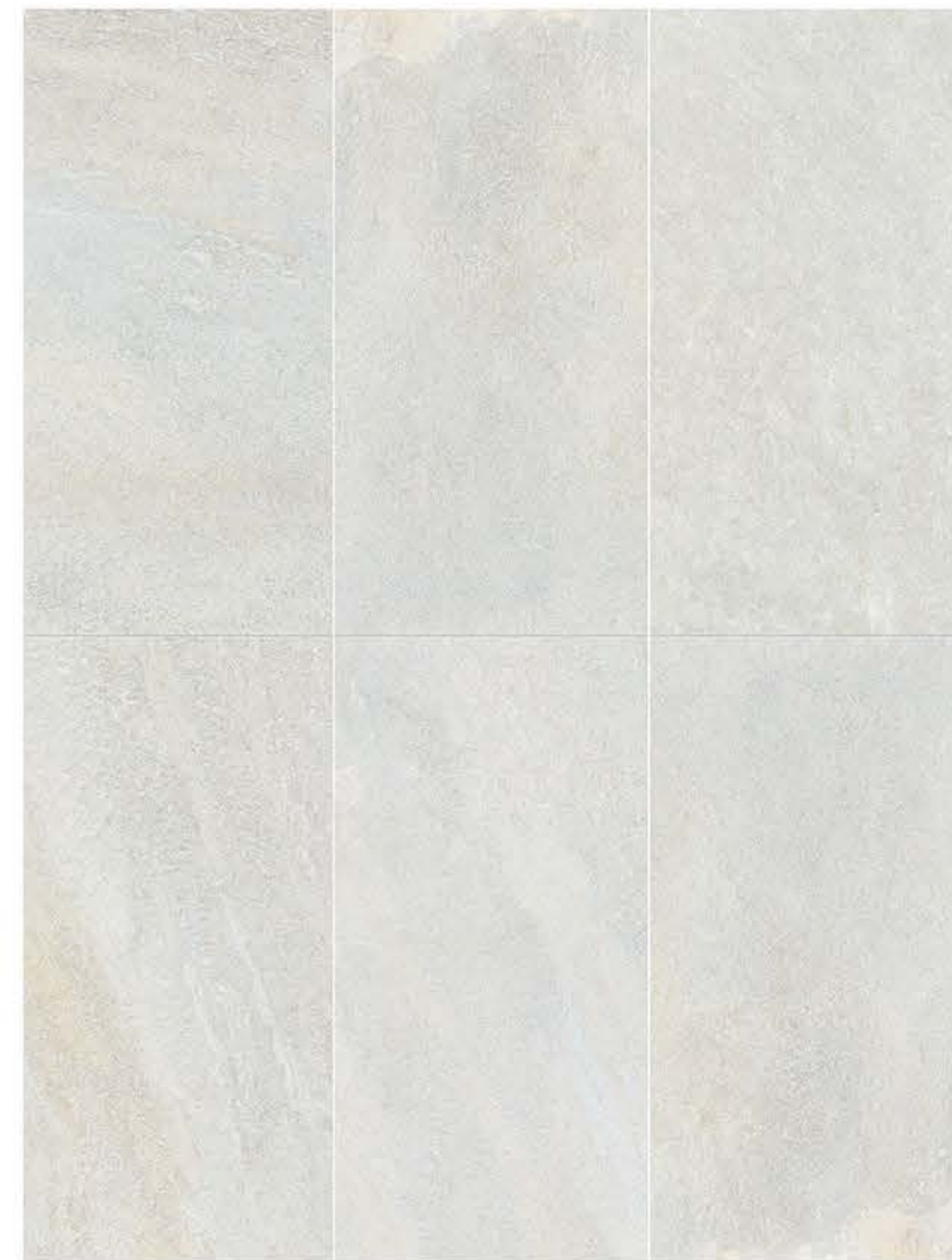
3 sizes
60x120cm
60x60cm
60x30cm*
* only for structured surface



FLOOR: Fuji White 120x60cm Lappato / WALL: Fuji White Illustration 60x60cm Lappato / GEL01

FUJI WHITE GEL01

Elmina
THE BOLD DILETTANTE





FUJI WHITE 120x60

GEL01



FUJI WHITE 60x60

GEL01



ILLUSTRATION 60x60

GEL01



FUJI WHITE 60x30*

GEL01

* only for structured surface

FUJI WHITE

GEL01

Be enthralled by the venerable and revered Fuji White that will highlight the splendiddness of your living space, whether for work or play.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR: Fuji White 120x60cm Structured + Illustration 60x60cm Lappato / WALL: Fuji White 60x30cm Structured / GEL01



FLOOR: Sierra Beige 120x60cm Structured + Illustration 60x60cm Lappato / GEL02

SIERRA BEIGE GEL02 **Elmina**
THE BOLD PLETHORA





SIERRA BEIGE 120x60

GEL02



SIERRA BEIGE 60x60

GEL02



ILLUSTRATION 60x60

GEL02



SIERRA BEIGE 60x30*

GEL02

* only for structured surface

SIERRA BEIGE

GEL02

Empower the eminence of Sierra Beige to reveal gratification and sovereignty in any sanctuary that you desire.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



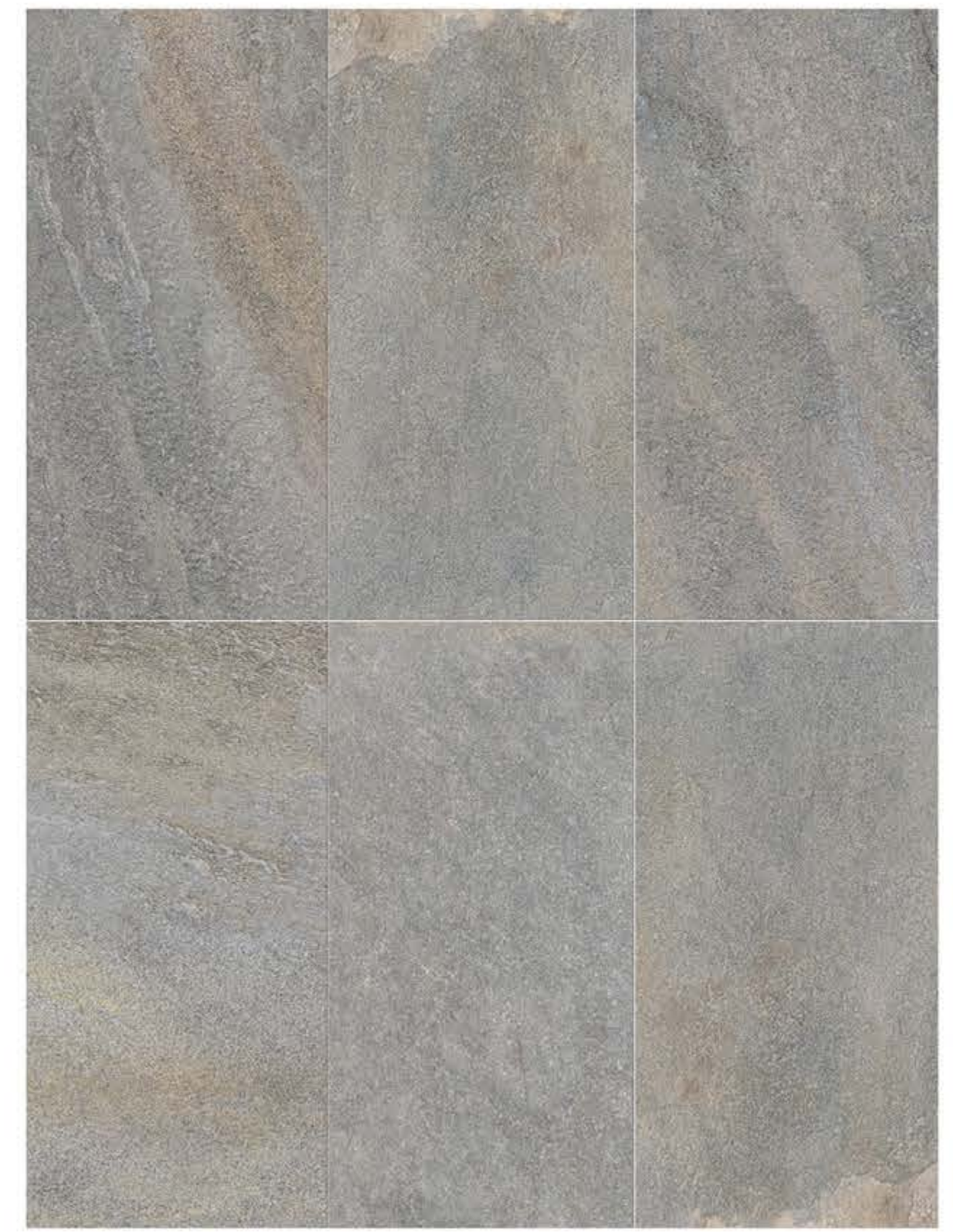
FLOOR: Sierra Beige 120x60cm Lappato / GEL02



FLOOR: Yukon Grey 120x60cm Lappato + Illustration 60x60cm Lappato / GEL03

YUKON GREY GEL03

Elmina
THE BOLD DILETTANTE





YUKON GREY 120x60

GEL03



YUKON GREY 60x60

GEL03



ILLUSTRATION 60x60

GEL03



YUKON GREY 60x30*

GEL03

* only for structured surface

YUKON GREY

GEL03

The magnificence of the pristine yet wild Yukon Grey embraces the lush fundamentals for that absolute impeccable ardour.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR. Yukon Grey 120x60cm Structured / GEL03



FLOOR Rocky Grey 60x60cm Lappato / WALL Rocky Grey 120x60cm Lappato / GEL04

ROCKY GREY GEL04

Elmina
THE BOLD PLETHORA





ROCKY GREY 120x60

GEL04



ROCKY GREY 60x60

GEL04



ILLUSTRATION 60x60

GEL04



ROCKY GREY 60x30*

GEL04

* only for structured surface

ROCKY GREY

GEL04

Rocky Grey is the sturdy and valiant charmer that will affirm the tenacious gallantry of any humble abode.

SURFACE AVAILABLE

Lappato
Structured

Elmina
THE BOLD PLETHORA



FLOOR: Rocky Grey 120x60cm Structured / WALL: Rocky Grey 60x30cm Structured + Illustration 60x60cm Lappato / GEL04



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	U2 SLIGHTLY NOTICEABLE FROM TILE TO TILE	U3 MODERATELY NOTICEABLE FROM TILE TO TILE	U4 DISTINCTLY NOTICEABLE FROM TILE TO TILE
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 pattern 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 colors from that on other tiles. Final installation can be unique.



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