



PASSIONATE ABOUT LIFE



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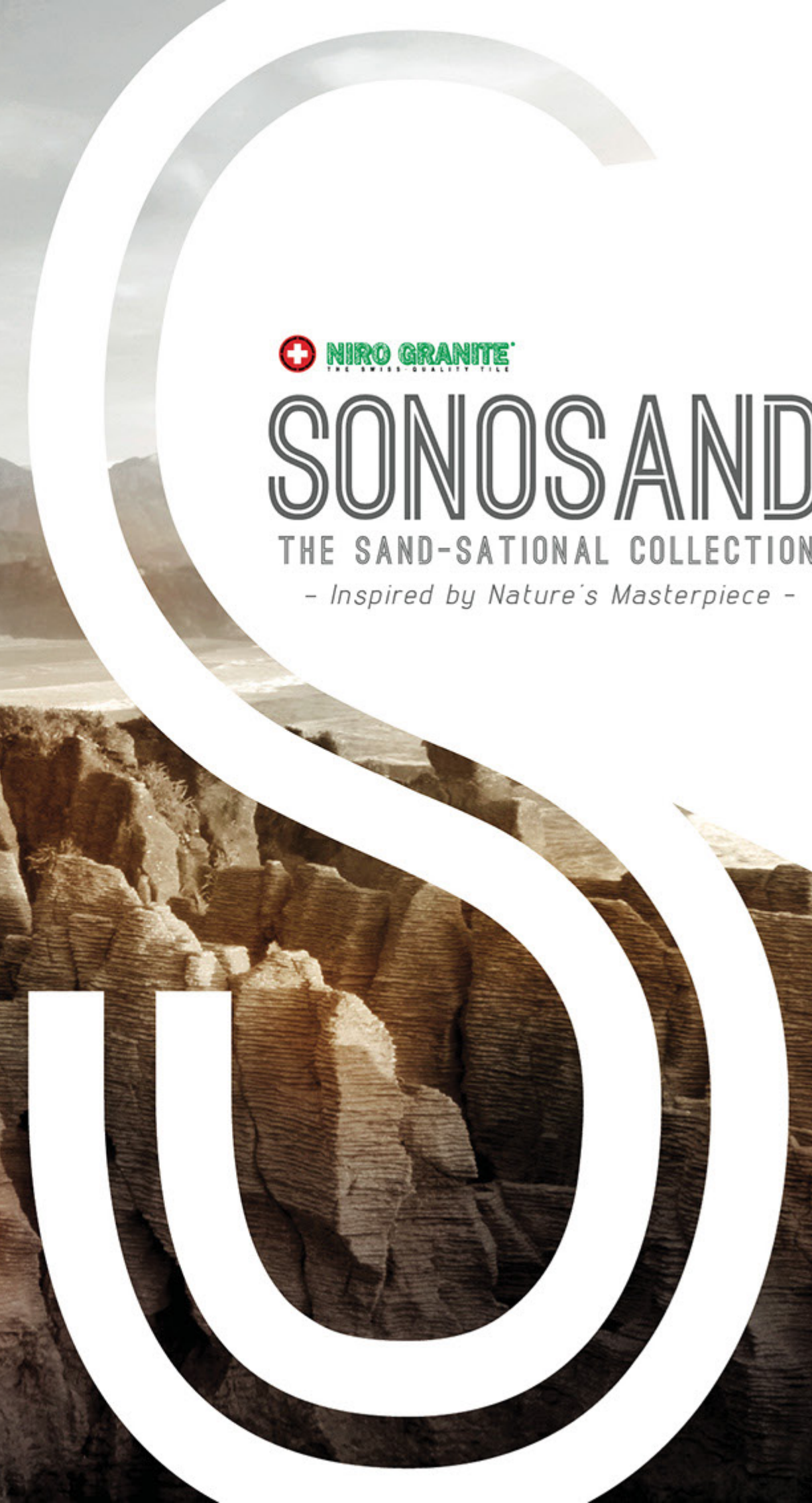
RF 180910



SONOSAND

THE SAND-SATIONAL COLLECTION

- Inspired by Nature's Masterpiece -





“
*Close your eyes.
Feel the warmth of the sun
caresses your skin.
Breathe in the clean briny smell
that rises with the waters as you listen
to the song of the lark,
the lapping of the waves on the shore.
Your heartbeats gradually steady.*”

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That is the magic of Sonosand, a new series of technical porcelain tiles that has gripped our imaginations as much as it draws inspiration from the beautiful sandy bays and beaches. Its swirling patterns simulate those formed on the soft sand fringed by the sea: constantly shifting under pressure – stirred by the ebb and flow of tides and swinging winds – the sand often sports carefree strokes that are distinctive to the nautical landscapes. No matter your address, Sonosand promises to deliver a beauty and laid-back vibe unique to the coastal setting to you and your home.

 **NIRO GRANITE**
THE EXTRA QUALITY TILE

NIRO GRANITE

SONOSAND

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— Inspired by Nature's Masterpiece —

GSA01 SHELLY WHITE

Imagine the joy as you frolic on the sandy white beach in search for the perfect shell specimen. Shelly White is a reflection of such wonder and innocence. Just as it awakens a sense of playfulness and curiosity, the soft, off-white shade also gives any urban home a romantic, bohemian flair.

60x120cm | 60x60cm | 30x60cm
matt | structured



NIRO GRANITE
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SONOSAND GSA01 SHELLY WHITE 60x120cm structured + **GSACA COMBO A** 29.4x27.2cm



SONOSAND GSA01 SHELLY WHITE 60x60cm matt

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GSA02 POWDERY SHORE

Powdery Shore is a versatile option with a sunny disposition. Its earthy neutral hue easily fits into any interior concept – bold or monochromatic – establishing its status as an evergreen favourite. Mimicking the golden shorelines, it lights up your space with a warm glow that endures even after the sun has long set.

60x120cm | 60x60cm | 30x60cm
matt | structured



 NIRO GRANITE

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SONOSAND GSA02 POWDERY SHORE 60x120cm structured + 30x60cm matt



GSA03 SILVERY ROCK

Having taken cue from the geological formation of layered rock and sedimentary that shapes the irregular outlines and contours of many coastal regions, Silvery Rock naturally stands out. The pale grey makes a luxe, sophisticated backdrop and creates interesting contrasts when paired with brighter, lighter palettes.

60x120cm | 60x60cm | 30x60cm
matt | structured





MIRO GRANITE
SONOSAND
THE SAND-SATIONAL COLLECTION
Inspired by Nature's Masterpiece

SONOSAND GSA03 SILVERY ROCK 60x120cm matt



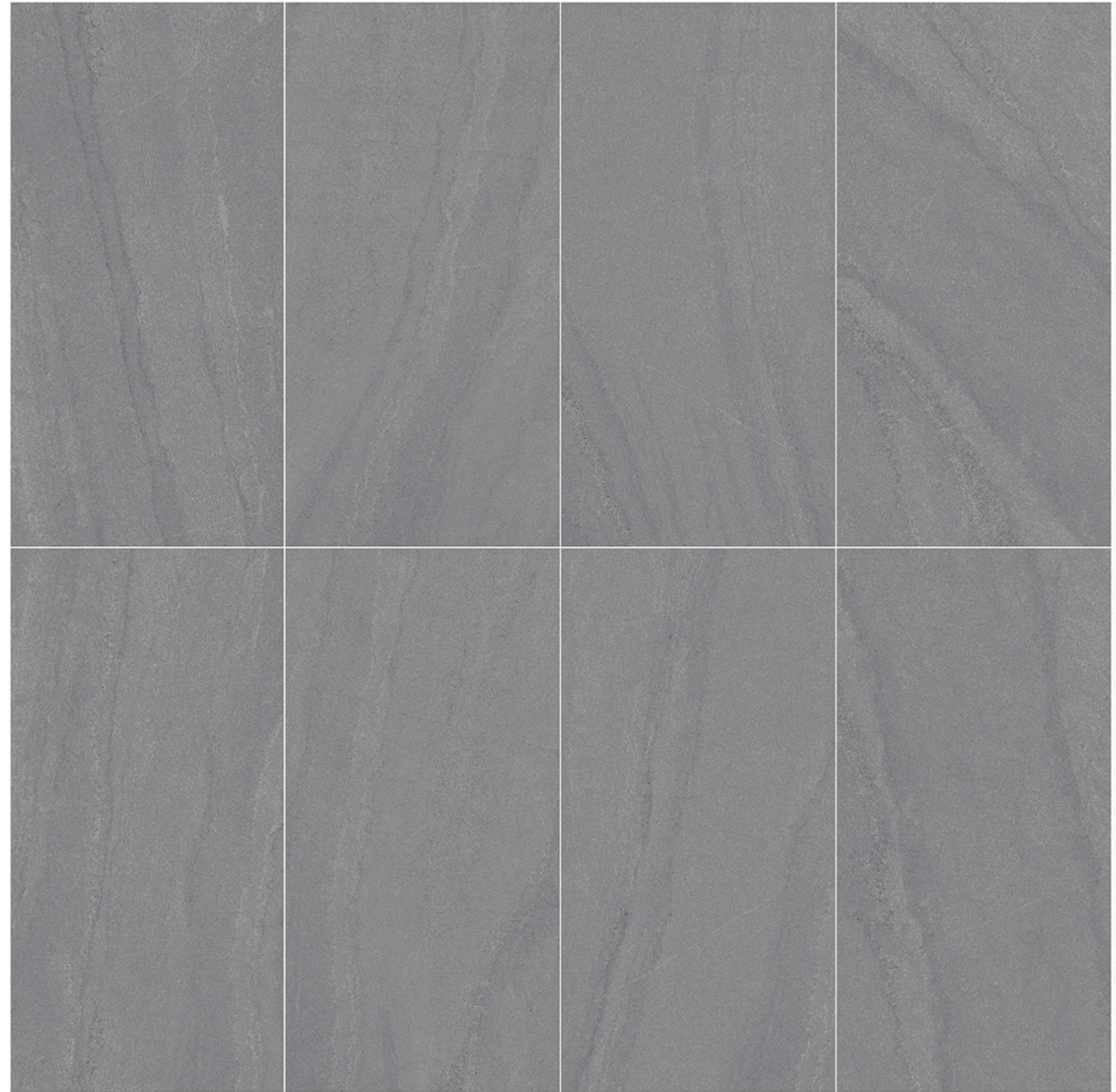
SONOSAND GSA03 SILVERY ROCK 60x120cm matt




GSA04 DEEP DUSK

When the last rays of the setting sun disappear over the horizon and the copper hues give way to a dusty grey, a peace and quiet falls upon the water and its adjacent land. Deep Dusk radiates such air of serenity. Offering a refuge from the clamour of the outside world, it is sure to revive any flagging city spirits.

60x120cm | 60x60cm | 30x60cm
matt | structured



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SONOSAND GSA04 DEEP DUSK 60x120cm matt + GSA01 SHELLY WHITE 30x60cm matt



SONOSAND GSA04 DEEP DUSK 60x120cm Structured + G3AGA COMBO A 27.2x 29.4cm

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GSA05 CHARCOAL BAY

As trends delve into the deeper end of the colour spectrum, Charcoal Bay is emerging as the new neutral. The dark hue sets a dramatic stage for sensuous lustre, ideal for homeowners seeking a more dynamic and moodier interior solution. Its profound visual presentation and soft emanations are even conducive to a rich, cosy environment.

60x120cm | 60x60cm | 30x60cm
matt | structured



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SONOSAND GSA05 CHARCOAL BAY 60x60cm structured



SONOSAND GSA05 CHARCOAL BAY 60x120cm matt

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GSA01 **SHELLY WHITE**



60x120cm
matt . structured



60x60cm
matt . structured



30x60cm
matt . structured

GSA02 **POWDERY SHORE**



60x120cm
matt . structured



60x60cm
matt . structured

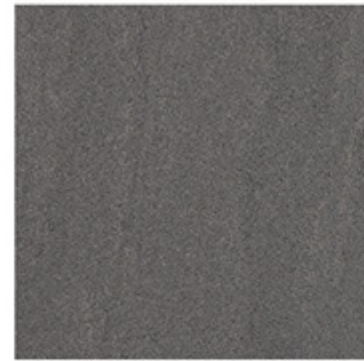


30x60cm
matt . structured

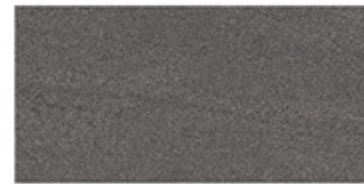
GSA05 **CHARCOAL BAY**



60x120cm
matt . structured



60x60cm
matt . structured



30x60cm
matt . structured

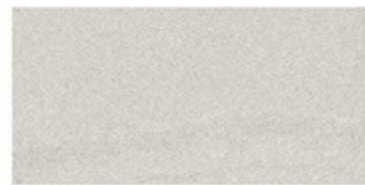
GSA03 **SILVERY ROCK**



60x120cm
matt . structured



60x60cm
matt . structured



30x60cm
matt . structured

GSA04 **DEEP DUSK**



60x120cm
matt . structured

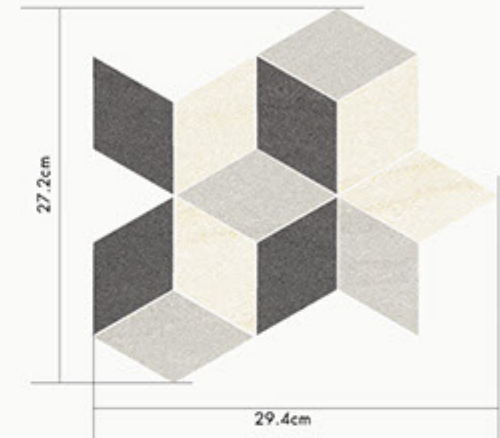


60x60cm
matt . structured

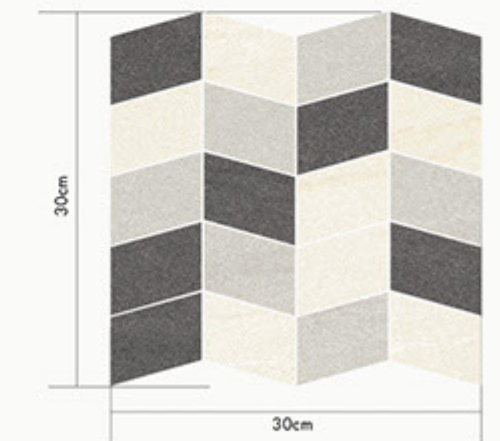


30x60cm
matt . structured

GSACA **COMBO A** 27.2x29.4cm



GSACB **COMBO B** 30x30cm



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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	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/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2	≥ 35 N/mm2 Individual ≥ 32 N/mm2
Abrasion Resistance				
a) Deep Abrasion for unglazed tiles	ISO 10545 -6	mm3	≤ 175 mm3	≤ 160 mm3
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.





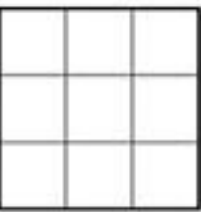

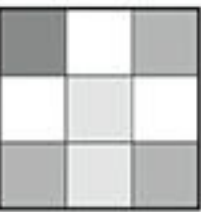

Each different tiles series are produced to meet different performance requirements. For specific product technical performance, please request from Niro Granite sales team or their agent or distributor.

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

	UNIFORM FROM TILE TO TILE		SLIGHTLY NOTICEABLE FROM TILE TO TILE		MODERATELY NOTICEABLE FROM TILE TO TILE		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 similar 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 totally different colors from that on other tiles. Final installation can be unique.



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