

 **NIRO GRANITE**
THE SWISS QUALITY TILE

PASSIONATE ABOUT LIFE



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RF 180430

MURALE

STATE OF THE ART – MURALE MARRIES NATURAL AND ARTISTIC IMPRESSIONS



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STONE IS AN ENDLESSLY GORGEOUS MATERIAL AND THE WORLD IS NOW SEEING AN EVEN GREATER VARIETY IN ITS APPEARANCE AND APPLICATIONS. MURALE BY NIRO GRANITE IS A COLLECTION OF TILES INSPIRED BY THE NATURAL TREND.

SPORTING THE APPEARANCE OF QUARTZITE STONES, MURALE BRINGS A MODERN AESTHETIC WITH TIMELESS APPEAL. THE PATTERN IS SIMILAR TO THAT OF MARBLE'S SWIRLS, BUT WITH A STREAKIER TEXTURE THAT IS SURE TO GARNER VISUAL INTEREST NO MATTER WHERE IT IS APPLIED.

WITH ITS MESMERIZING VEINS OF GREY WINDING THROUGH TOPRISTINE WHITEAND MOODY DARK, MURALE IS SOME KIND OF MAGIC. IT REFLECTS A UNIQUE APPROACH TO SHOWING OFF YOUR TASTE IN STONES AS IT BRINGS ALL THE PATTERN THE HOME NEEDS.

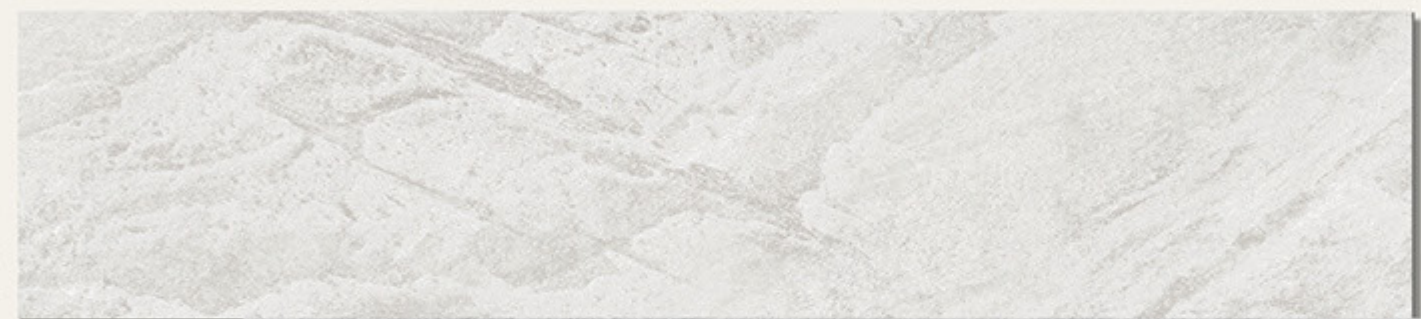
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GML01
CAMEO
WHITE



GML02
OPAL
GRAY



GML03
QUARRY
GRAY



GML04
CAVIAR
BLACK



4 COLOUR
GML01 CAMEO WHITE
GML02 OPAL GRAY
GML03 QUARRY GRAY
GML04 CAVIAR BLACK

2 SURFACE
MATT
STRUCTURED

3 size
30x60cm
60x60cm
60x120cm

GML01

CAMEO WHITE

There is something easygoing about Cameo White. The humble, milky hue is compatible with almost any interior surroundings, injecting a much-needed dose of serenity most spaces crave for. At the same time, the patterns do a reliably fantastic job of keeping things looking chic instead of spare or sterile.

SURFACE

matt
structured

SIZE

60x120cm
60x60cm
30x60cm



GML01 CAMEO WHITE 60x120cm + 30x60cm matt



CAMEO WHITE

GML01

GML01 CAMEO WHITE 60x120cm + 30x60cm structured + GML03 QUARRY GRAY 60x60cm matt

GML02

OPAL GRAY

Opulence doesn't necessarily equal to brash, gilded bling, as proven by Opal Gray. While it may seem to favour a minimalistic aesthetic, Opal Gray – like its gemstone namesake – is also equipped to make a glamorous statement especially when paired with other luxurious materials and finishes. It instantly lifts up any room with a lavish design language and character.

SURFACE

matt
structured

SIZE

60x120cm
60x60cm
30x60cm



GML02 **OPAL GRAY** 60x120cm + 30x60cm structured



OPAL GRAY

GML02

GML02 OPAL GRAY 60x120cm + 30x60cm matt

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GML03

QUARRY GRAY

Not only does its name reminds us of the ritzy, extravagant Victorian era when quarry tiles were a popular pick, Quarry Grey is robust to add a distinctive touch of class to areas in modern properties. Whether you are looking to the past for inspiration or simply adore a more timeless style, this makes a good choice.

SURFACE

matt
structured

SIZE

60x120cm
60x60cm
30x60cm



GML03 QUARRY GRAY 60x120cm matt



QUARRY GRAY

GML03

GML03 QUARRY GRAY 60x120cm + 60x60cm structured

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GML04

CAVIAR BLACK

It is apparent that Caviar Black has a grand aptitude for statement design. The noir hue can be grounding and, at the same time, inject a sense of boldness and a fresh new attitude to a place. What is more, it got just enough sultry appeal to elicit a seductive vibe, enticing you to take the plunge into the inky depths.

SURFACE

matt
structured

SIZE

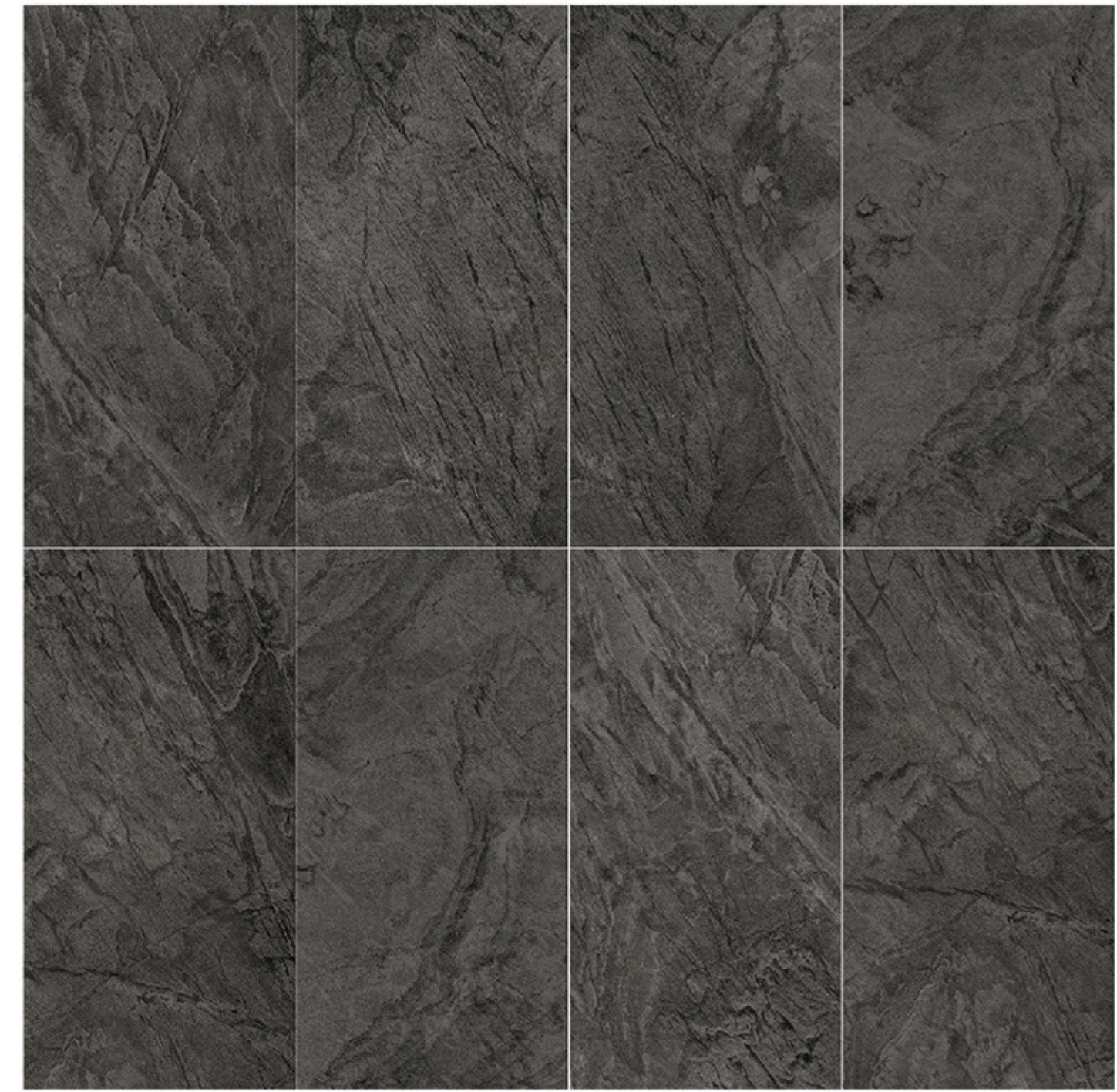
60x120cm
60x60cm
30x60cm



GML04 CAVIAR BLACK 60x120cm + 30x60cm structured



GML04 CAVIAR BLACK 60x120cm matt



CAVIAR BLACK

GML04

GML01 CAMEO WHITE



60x120cm | MATT . STRUCTURED



60x60cm | MATT . STRUCTURED



30x60cm | MATT . STRUCTURED

GML02 OPAL GRAY



60x120cm | MATT . STRUCTURED



60x60cm | MATT . STRUCTURED



30x60cm | MATT . STRUCTURED

GML03 QUARRY GRAY



60x120cm | MATT . STRUCTURED



60x60cm | MATT . STRUCTURED



30x60cm | MATT . STRUCTURED

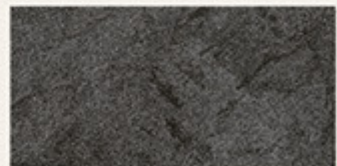
GML04 CAVIAR BLACK



60x120cm | MATT . STRUCTURED



60x60cm | MATT . STRUCTURED



30x60cm | MATT . STRUCTURED

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

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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