

 **NIRO GRANITE**
THE SWISS-QUALITY TILE



MARMO
black & white



MARMO

black & white

A TOAST TO TIMELESS, EXQUISITE TASTE

This elegant line of exceptional tiles is redolent with the classical flavours of ancient Italy, yet is infused with an unmistakably modern, cosmopolitan taste. Its enchanting coalescence of the antique and the contemporary is inspired by the epoch-defining, classic films of Old Hollywood – including the sensational concoctions of Italy's own maestro of movies, Federico Fellini – and the pantheon of inimitable silver screen deities, such as Audrey Hepburn. Imbued with timeless sophistication, style, glamour and gloss, the black and white images of the Golden Age of Cinema carry a magical, eternal allure that continue to inspire, awe and move contemporary audiences.

The embodiment of a number of dichotomies, including the sophisticated and the simple, the classical and the modern, the traditional and the new, the black and the white, Marmo similarly incorporates a range of polar opposites with singular style – making it a marvel of design and aesthetic balance.

The Marmo series, full body porcelain tile is exclusively represented by the duality of black and white. Two colours that symbolise opposite extremes in the spectrum of time – day and night – black and white symbolise the breadth of history, in which the passage of time is signified by the cycles of light and darkness. It also artfully expresses the complexity of time – how every moment we experience is comprised of black and white, of complexity and simplicity, of what is seen and what is hidden.





MARMO WHITE

GMA24 | Polished

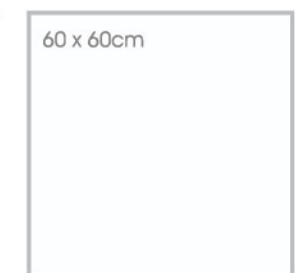
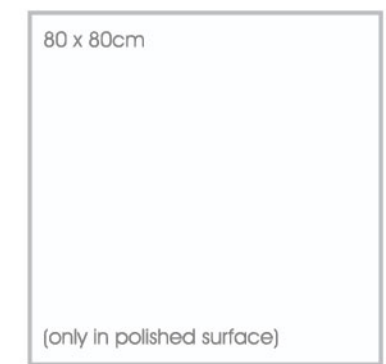


NANO TECHNOLOGY
EASIER TO CLEAN AND WITH BRILLIANT EVER-LASTING SHINE



MARMO BLANC

GMA25 | Matt | Polished



NANO TECHNOLOGY
EASIER TO CLEAN AND WITH BRILLIANT EVER-LASTING SHINE



MARMO BEIGE

GMA26 | Polished



NANO TECHNOLOGY
EASIER TO CLEAN AND WITH BRILLIANT EVER-LASTING SHINE



MARMO WINTER WHITE

GMA40 | Polished

60 x 60cm

NANO TECHNOLOGY
EASIER TO CLEAN AND WITH BRILLIANT EVER-LASTING SHINE



MARMO NOIR

GMA31 | Polished



NANO TECHNOLOGY
EASIER TO CLEAN AND WITH BRILLIANT EVER-LASTING SHINE

GMA24 WHITE



60 x 60cm
Polished

GMA25 BLANC



60 x 60cm
Matt , Polished

GMA26 BEIGE



60 x 60cm
Polished

GMA40 WINTER WHITE

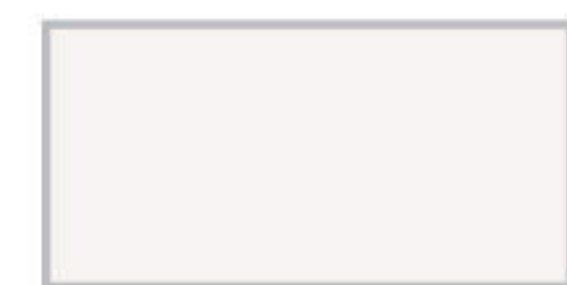


60 x 60cm
Polished

GMA31 NOIR



60 x 60cm
Polished



60 x 30cm
Polished



60 x 30cm
Matt , Polished



60 x 30cm
Polished



60 x 30cm
Polished



80 x 80cm
Polished



80 x 80cm
Polished



80 x 80cm
Polished



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

	V1 UNIFORM FROM TILE TO TILE		V2 SLIGHTLY NOTICEABLE FROM TILE TO TILE		V3 MODERATELY NOTICEABLE FROM TILE TO TILE		V4 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.



PASSIONATE ABOUT LIFE



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