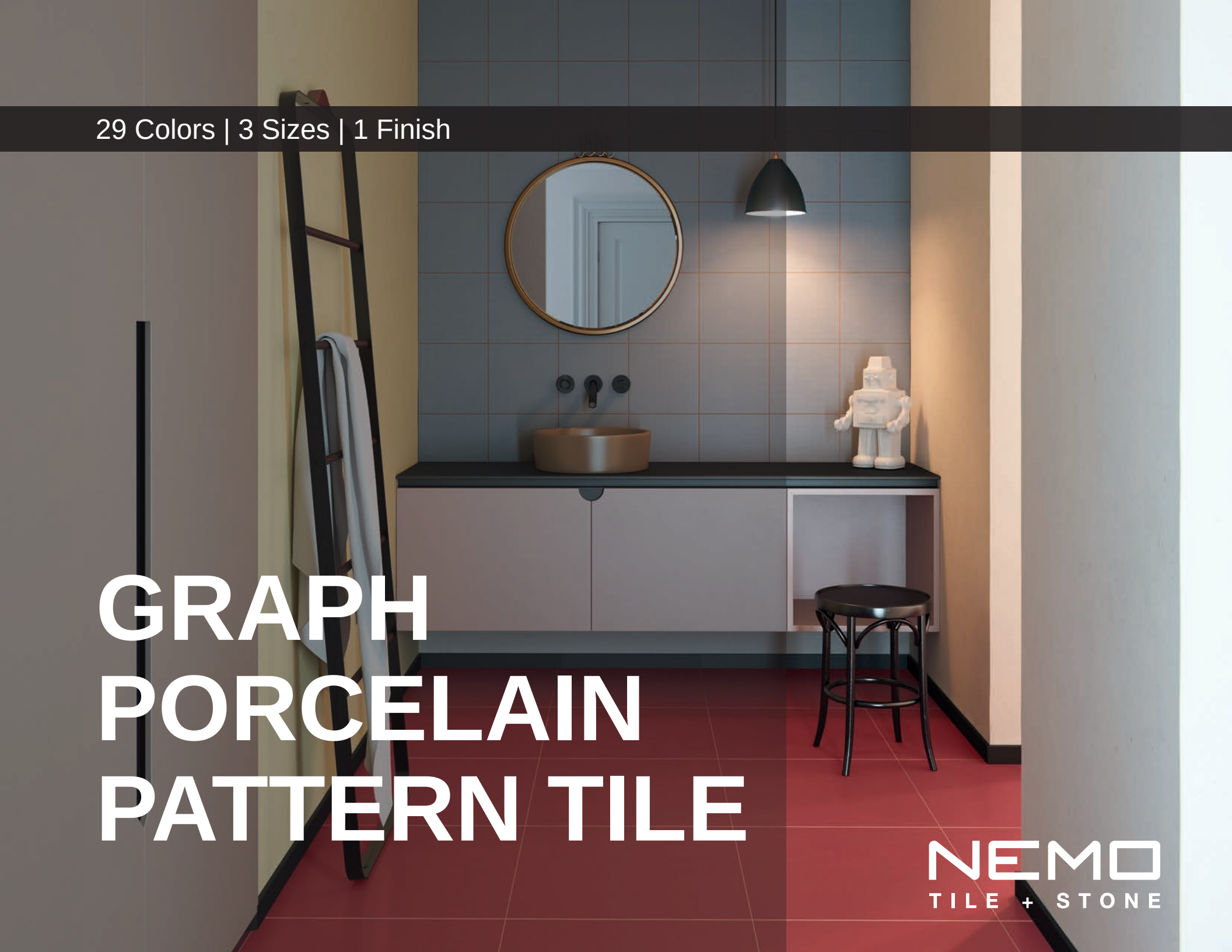

29 Colors | 3 Sizes | 1 Finish

GRAPH PORCELAIN PATTERN TILE

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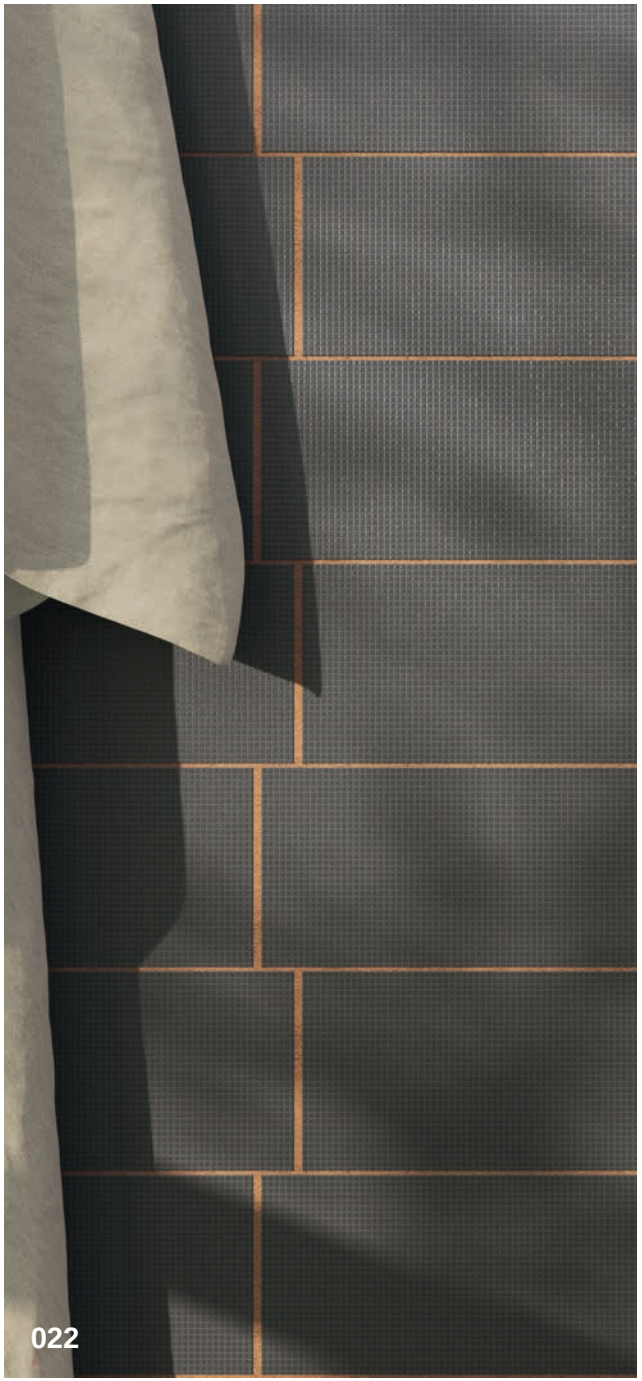
TILE + STONE



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PORCELAIN PATTERN TILE

V1 Variation | Matte Finish

GRAPH

The collection of rectified glazed stoneware tiles named Graph reflects, in its very name, the aim of being adopted by designers and end users as a drawing tool for vertical and horizontal surfaces. The three available sizes and the 29 colors can be matched with colored grouts to create countless combinations suiting every environment in which Graph is to be used. Its easy-to-clean, non-slip surface is suitable for residential and non-residential applications, such as offices, restaurants, schools, hospitals and sports facilities. With its micro patterns and color contrasts, Graph makes its mark on any room. At the same time, its discreet design makes it easy to pair with other materials and furnishings.

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PORCELAIN PATTERN TILE

Dimensions and surface quality

nominal shape	actual size		test methods	requirements		results	
50x50 cm (20"x20") 25x25 cm (10"x10") 10x25 cm (4"x10")	sides	500x500 mm 249x249 mm 98x249 mm	EN ISO 10545-2	sides	± 0,6%	sides	± 0,3%
	thickness	10 mm		thickness	± 5%	thickness	± 4%
Straightness of sides (working surface)			EN ISO 10545-2	± 0,5%		± 0,4%	
Squareness			EN ISO 10545-2	± 0,5%		± 0,4%	
Flatness			EN ISO 10545-2	± 0,5%		± 0,4%	
Surface quality			EN ISO 10545-2	min. 95%		min. 95%	

Physical properties

test		test methods	requirements	results
Water absorption (%)		EN ISO 10545-3	0,5% < E_b ≤ 3,0 %	1,5 %
Tensile strength	thickness ≥ 7,5 mm	EN ISO 10545-4	1.100 N min.	> 1.700 N
Modulus of rupture		EN ISO 10545-4	30 N/mm2 min.	> 40 N/mm2
P.E.I. Abrasion resistance (P.E.I.)		EN ISO 10545-7	quote the abrasion class	refer to product page
Coefficient of linear thermal expansion		EN ISO 10545-8	test method available	< 6,9x10^{-6}/°C
Thermal shock resistance		EN ISO 10545-9	test method available	guaranteed
Crazing resitance		EN ISO 10545-11	required	guaranteed
Frost resistance		EN ISO 10545-12	test method available	guaranteed
Expansion to humidity		EN ISO 10545-10	test method available	< 0,04%
Impact resistance		EN ISO 10545-5	test method available	> 0,6 (see P appendix)

Chemical properties

test	test methods	requirements	results
Stain resistance	EN ISO 10545-14	classe 3 min.	3 min. (see P appendix)
Resistance to chemical products for housekeeping and to the additives used in swimming-pools	EN ISO 10545-13	GB min.	GB min.
Resistance to acids and bases at low concentrations	EN ISO 10545-13	indicated by the producer	GLB min.
Resistance to acids and bases at high concentrations	EN ISO 10545-13	test method available	GHB min.
Pb Cd Lead and cadmium losses	EN ISO 10545-15	test method available	available if required

Non-slip properties (except GP 015 - GP 020 - GP 025)

test	test methods	requirements				results
Determination of the anti-slip characteristics:	DIN 51130 non-skid characteristics	R9 normal adhesion 6° ≤ a tot≤ 10°	R10 medium adhesion 10° ≤ a tot≤ 19°	R11 high adhesion 19° ≤ a tot≤ 27°	a = inclination angle	R10
Determination of the anti-slip characteristics for barefoot wet areas:	DIN 51097 inclination angle (°)	A medium adhesion ≥ 12 <18	B high adhesion ≥ 18 < 24	C strong adhesion ≥ 24		A
Pendulum test UK	BS 7976-2:2002	test method available				dry >36 wet -
DCOF – Dynamic Coefficient of Friction (Wet Areas Only)	ANSI A 137.1.:2012					> 0,42
Coefficient of friction: (1) dry (leather) | (2) wet (Rubber)	B.C.R.A.	μ ≤ 0,19 dangerous slipperiness	0,20 ≤ μ ≤0,39 extreme slipperiness	0,40 ≤ μ ≤0,74 satisfactory friction	μ ≥ 0,75 excellent friction	(1) μ>0,45 (2) μ>0,52

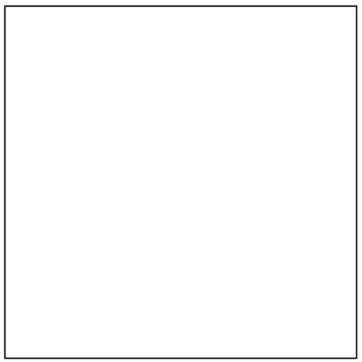
Other tests

test	test methods	requirements	results
Colour resistance to light	DIN 51094	not foreseen	guaranteed
Reaction to the fire	without test	decision 96/603/CE	classe A1

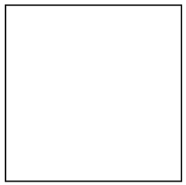
Modularity and laying

To obtain a correct laying result the material should be laid with joints of no less than 2 mm (UNI 11493:2013).

Sizes



20" X 20"



10" X 10"

4" X 10"

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