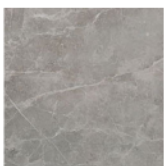
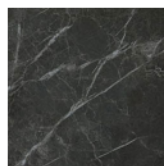


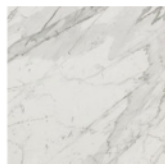
Crema Delicato



Grey Fleury



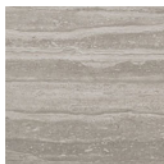
Noir St. Laurent



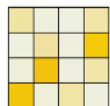
Statuario Select



Travertino Alabastrino



Travertino Silver



V3 Moderate Variation

# MARVEL PRO

## Regularity Characteristics

Technical Features	Norms	Required Standards			Matte	Lappato
		7cm ≤ N < 15 cm	N ≥ 15cm (%)	N ≥ 15cm (mm)		
Length & Width	ISO 10545-2	± 0,9*	± 0,6*	± 2,0*	± 0,2% ± 0,8mm	± 0,2% ± 0,8mm
Thickness		± 0,5**	± 5**	± 0,5**	± 5% ± 0,5mm	± 5% ± 0,5mm
Straightness of Sides		± 0,75***	± 0,5***	± 1,5***	± 0,2% ± 0,8mm	± 0,2% ± 0,8mm
Rectangularity		± 0,75****	± 0,5%****	± 2%****	± 0,2% ± 0,8mm	± 0,2% ± 0,8mm
Surface Flatness		c.c. ± 0,75 e.c. ± 0,75 w ± 0,75	c.c. ± 0,5 e.c. ± 0,5 w ± 0,5	c.c. ± 2,0 e.c. ± 2,0 w ± 2,0	± 0,3% ± 1,5mm	± 0,3% ± 1,3mm

## Structural Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
		EN 14411 annex G	ISO 13006 annex G		
Water Absorption	ISO 10545-3	EB ≤ 0,5% Individual Maximum 0,6%		≤ 0,1%	≤ 0,1%

## Bulk Mechanical Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
Breaking Strength	ISO 10545-4	S ≥ 1300 N		S ≥ 1500 N	S ≥ 1500 N
Modulus of Rupture		R ≥ 35 N/mm <sup>2</sup>		R ≥ 40 N/mm <sup>2</sup>	R ≥ 40 N/mm <sup>2</sup>
Impact resistance, as coefficient of restitution	ISO 10545-5	Declared Value	Test Method Available	≥ 0,55	≥ 0,55

## Surface Mechanical Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
Mohs Hardness	EN 101	≥ 6 (UGL)		Suitable for	5
Resistance to Deep Abrasion	ISO 10545-6	≤ 175 mm <sup>3</sup>		≤ 150 mm <sup>3</sup>	≤ 150 mm <sup>3</sup>
Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared Value	-	≥ 1,0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥ 1,0 N/mm <sup>2</sup> (Class C2 - EN 12004)

## Thermal and Hygrometric Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
Coefficient of Thermal Linear Expansion	ISO 10545-8	Declared Value	Test Method Available	≤ 7 MK <sup>-1</sup>	≤ 7 MK <sup>-1</sup>
Thermal Shock Resistance	ISO 10545-9	Pass according to ISO 10545-1	Test Method Available	Resistant	Resistant
Moisture expansion (in mm/m)	ISO 10545-10	Declared Value	Required	≤ 0,01% (0,1mm/m)	≤ 0,01% (0,1mm/m)
Resistance to Frost	ISO 10545-12	Pass according to ISO 10545-1	Required	Resistant	Resistant

## Safety Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
Dynamic Friction Coefficient	ANSI A137.1-2012 (D.C.O.F.)	≥ 0,42 WET		≥ 0,58 WET	< 0,42 WET
Static Coefficient of Friction	ASTM C 1028 (S.C.O.F.)	≥ 0,60		≥ 0,60 DRY ≥ 0,60 WET	≥ 0,60 DRY 0,50-0,60 WET
Barefoot Ramp Test	DIN 51097	Declared Value		A	0
Shod Ramp Test	DIN 51130	Declared Value		R9	N.C.
Pendulum Friction Test	UNE-ENV 12633	Declared Value		Class 1	Class 0
	BS 7976-2002	Declared Value		PTV > 36 DRY PTV = 25+35 WET	PTV > 36 DRY PTV < 24 WET
	AS/NZS 4586-2013, Appendix A	Declared Classification of pedestrian surface materials according to Wet Pendulum Test		Class P2	Class P1

## Chemical Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
Resistance to Household Chemicals and Swimming Pool Salts	ISO 10545-13	Class UB min.		UA	UA
Resistance to High and Low Concentrations of Acids and Alkalis		Declared Class	Test Method Available	ULA UHA	ULA -
Resistance to Staining	ISO 10545-14	Minimum Class 3		5	5

## Stacked Sizes (Nominal)

Dimensions	Available Colors
12"x24"x10mm Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte, Lappato)
18"x36"x10mm Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte, Lappato)
24"x24"x10mm Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte, Lappato)
48"x95"x9mm Field Tile	Crema Delicato, Statuario Select (Lappato)
3"x24"x10mm Bullnose	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte, Lappato)
12"x12"x10mm Mosaic	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte)
12"x12"x10mm Mosaic 3D	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Matte)

## Special Order Sizes\* (Nominal)

Dimensions	Available Colors
75x150 - 29 1/2"x59" Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Lappato)
75x75 - 29 1/2"x29 1/2" Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Lappato)
60x60 - 23 5/8"x23 5/8" Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Satin)
60x60 - 23 5/8"x23 5/8" Field Tile	Crema Delicato, Grey Fleury, Statuario Select (Satin, Lastra 20mm)
45x90 - 17 3/4"x35 3/8" Field Tile	Crema Delicato, Grey Fleury, Noir St. Laurent, Statuario Select, Travertino Alabastrino, Travertino Silver (Satin)
45x90 - 17 3/4"x35 3/8" Field Tile	Crema Delicato, Grey Fleury, Statuario Select (Satin, Lastra 20mm)
30x60 - 11 3/4"x23 5/8" Field Tile	Crema Delicato, Grey Fleury, Statuario Select (Textured)

\* 12 - 14 Week Lead Time. Some additional trim and decor pieces are available.

\*\*Lappato (Polished Surface) is often referred to as "Honed/Lappato" in Manufacturer catalogs.

## Recycled Content



Not Provided By Manufacturer