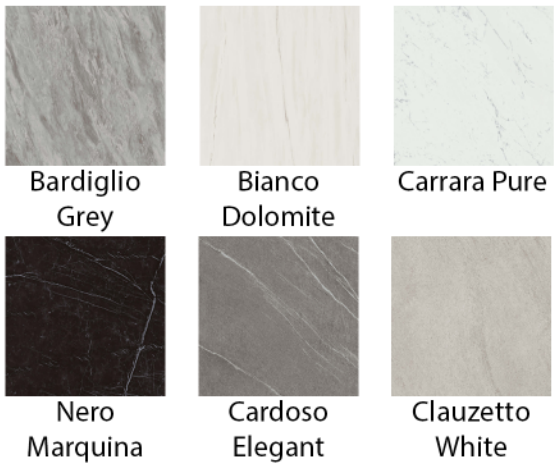


MARVEL STONE



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*	± 0,3% ± 1,0mm	± 0,3% ± 1,0mm
Thickness		± 0,5**	± 5**	± 0,5**	± 5% ± 0,5mm	± 5% ± 0,5mm
Straightness of Sides		± 0,75***	± 0,5***	± 1,5***	± 0,3% ± 0,8mm	± 0,3% ± 0,8mm
Rectangularity		± 0,75****	± 0,5****	± 2****	± 0,3% ± 1,5mm	± 0,3% ± 1,5mm
Surface Flatness		c.c. ± 0,75	c.c. ± 0,5	c.c. ± 2,0	± 0,4% ± 1,8mm	± 0,3% ± 1,5mm
		e.c. ± 0,75	e.c. ± 0,5	e.c. ± 2,0		
		w ± 0,75	w ± 0,5	w ± 2,0		

Structural Characteristics

Technical Features	Norms	Required Standards		Matte	Lappato
		EN 14411 annex G	ISO 13006 annex G		
Water Absorption	ASTM C373	Requirement ANSI A 137.1 Water absorption max ≤ 0,5%		≤ 0,5%	≤ 0,5%

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 ≥ 40 N/mm ²	R ≥ 40 N/mm ²	R ≥ 40 N/mm ²	
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 ³	≤ 150 mm ³	≤ 150 mm ³	
Bond strength/adhesion for improved cementitious adhesives	EN 1348	Declared Value	-	≥ 1,0 N/mm ² (Class C2 - EN 12004)	≥ 1,0 N/mm ² (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 ⁻¹	≤ 7 MK ⁻¹
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	Test Method Available	≤ 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	≥ 0,42 WET	> 0,42 WET	< 0,42 WET
Static Coefficient of Friction	ASTM C 1028-2007	≥ 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 < 24 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 P0

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

Stocked Sizes (Nominal)

Dimensions	Available Colors
12"x24"x10mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Matte, Lappato), Cardoso Elegant, Clauzetto White (Matte)
18"x36"x10mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Matte, Lappato), Cardoso Elegant, Clauzetto White (Matte)
48"x95"x9mm Field Tile	Bianco Dolomite, Carrara Pure (Lappato)
3"x24"x10mm Bullnose	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Matte, Lappato), Cardoso Elegant, Clauzetto White (Matte)
1 3/8"x1 3/8" on 12"x12" Mosaic	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina, Cardoso Elegant, Clauzetto White (Matte)
8 3/4"x9" Chevron	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Lappato)
12"x12" Twist Mosaic	Bianco Dolomite, Carrara Pure (Lappato)
12"x12" Cold Basket Weave Mosaic	Carrara Pure & Nero Marquina Mix (Lappato)

Special Order Sizes* (Nominal)

Dimensions	Available Colors
120x240 - 47 1/4"x 94 1/2"x9mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Lappato), Cardoso Elegant, Clauzetto White (Matte)
120x120 - 47 1/4"x 47 1/4"x9mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Lappato), Cardoso Elegant, Clauzetto White (Matte)
75x150 - 29 1/2"x 59"x10mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Lappato), Cardoso Elegant, Clauzetto White (Matte)
75x75 - 29 1/2"x29 1/2"x10mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Lappato), Cardoso Elegant, Clauzetto White (Matte)
60x60 - 23 5/8"x23 5/8"x10mm Field Tile	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina (Matte, Lappato), Cardoso Elegant, Clauzetto White (Matte, Paver 20mm)
30x60 - 11 3/4"x23 5/8"x10mm Field Tile	Cardoso Elegant, Clauzetto White (Textured)
30,5x30,5 - 12"x12" Twist Mosaic	Bardiglio Grey, Nero Marquina (Lappato)
30x35 - 11 3/4"x13 3/4" Esagono	Bardiglio Grey, Bianco Dolomite, Carrara Pure, Nero Marquina, Geo Cold, Geo Warm (Lappato)

* 12 - 14 Week Lead Time. Additional wall tile, trim and decor pieces are available.

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

Recycled Content

