MARAZZI

D_Segni Blend

COLLECTION SUMMARY			
SIZE (cm)	**THICKNESS**	**GROUP**	**USE**
10x10	10 mm	BIa GL EN14411/G	FLOOR/WALL
20x20	10 mm	BIa GL EN14411/G	FLOOR/WALL

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Share Capital Euro 102,232,000 fully paid-up VAT and Intrastat Code IT00611410374 Tax Code and Modena companies register reg. no. 00611410374 R.E.A. Modena No. 49219 Meccanografico No. MO 041028 Company subject to the direction and coordination of Mohawk Industries, Inc.

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Compliant with standard EN 14411:2016 annex G group BIa GL
Compliant with standard ISO 13006:2018 annex G group BIa GL

TECHNICAL FEATURES		TESTING METHOD	ESTABLISHED LIMITS			AVERAGE TYPICAL VALUE
DIMENSIONAL PROPERTIES AND SURFACE QUALITY						
			Nominal side length N (cm) 7≤N<15	Nominal side length N (cm) N≥15		
	LENGTH AND WIDTH (*)	ISO 10545-2				Compliant
	---		---	---	---	
	NOT RECTIFIED		±0,9 mm	±0,6 %	±2,0 mm	
	THICKNESS					Compliant
	---		---	---	---	
	NOT RECTIFIED		±0,5 mm	±5 %	±0,5 mm	
	STRAIGHTNESS OF SIDES					Compliant
	---		---	---	---	
	NOT RECTIFIED		±0,75 mm	±0,5 %	±1,5 mm	
	RECTANGULARITY					Compliant
	---		---	---	---	
	NOT RECTIFIED		±0,75 mm	±0,5 %	±2,0 mm	
	SURFACE FLATNESS C.C.- E.C.- W.					Compliant
	---		---	---	---	
	NOT RECTIFIED		±0,75 mm	±0,5 %	±2,0 mm	
	SURFACE QUALITY		≥95 %			Compliant

PHYSICAL AND CHEMICAL PROPERTIES				
	WATER ABSORPTION	EN ISO 10545-3	Eb ≤ 0,5% (maximum individual value 0,6%)	Eb ≤ 0,5%

	FLEXURAL STRENGTH (S) AND MODULUS OF RUPTURE (R)	EN ISO 10545-4	---	---
				---
			Thickness ≥ 7,5 mm: S ≥ 1.300 N R ≥ 35 N/mm² (min individual value 32 N/mm²)	Thickness ≥7,5 mm: S ≥ 1300 N R ≥ 35 N/mm²

			---	---
	CRAZING RESISTANCE	EN ISO 10545-11	Pass according to EN ISO 10545-1(EN 14411:2016) Required (ISO 13006:2018)	Complies with the standards
	LINEAR THERMAL EXPANSION COEFFICIENT	EN ISO 10545-8	Declared value (EN 14411:2016) Test method available (ISO 13006:2018)	≤ 9 $(\frac{x(10)^{-6}}{°C})$
	THERMAL SHOCK RESISTANCE	EN ISO 10545-9	Pass according to EN ISO 10545-1 (EN 14411:2016)** Test method available (ISO 13006:2018)	Complies with the standards
	FROST RESISTANCE***	EN ISO 10545-12	Pass according to EN ISO 10545-1 (EN 14411:2016) Required (ISO 13006:2018)	Complies with the standards
	REACTION TO FIRE	---	Class A1 or Class A1 FL******	Floor/wall: class A1 FL/ A1

	COLOR RESISTANCE TO LIGHT EXPOSURE	DIN 51094	The samples must not show any appreciable color variations	Complies with the standards
	CHEMICAL RESISTANCE**	EN ISO 10545-13	Minimum B (EN 14411:2016) Minimum B (ISO 13006:2018)	A
			Declared value (EN 14411:2016) Test method available (ISO 13006:2018)	LA-LB
			Declared value (EN 14411:2016) Test method available (ISO 13006:2018)	HA-HB
	STAIN RESISTANCE	EN ISO 10545-14	Minimum Class 3 (EN 14411:2016) Minimum Class 3 (ISO 13006:2018)	Class 5

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	TECHNICAL FEATURES	STANDARDS	SIZE (cm)	THICKNESS	SURFACE	COLOR	DECLARED VALUE
	Resistance to surface abrasion (only for tiles intended use on floors)	INTERNAL TEST METHOD	10x10	10 mm	Natural	AZZURRO, CARBONE, GRIGIO, OSSO, TERRA, VERDE	Class G
			20x20	10 mm	Natural	AZZURRO, CARBONE, GRIGIO, MIX AZZURRO, MIX CARBONE, MIX GRIGIO, MIX OSSO, MIX TERRA, MIX VERDE, OSSO, TAPPETO 1, TAPPETO 10, TAPPETO 11, TAPPETO 12, TAPPETO 2, TAPPETO 3, TAPPETO 4, TAPPETO 5, TAPPETO 6, TAPPETO 7, TAPPETO 8, TAPPETO 9, TERRA, VERDE	Class G
			20x20	10 mm	Natural	AZZURRO, CARBONE, GRIGIO, MIX AZZURRO, MIX CARBONE, MIX GRIGIO, MIX OSSO, MIX TERRA, MIX VERDE, OSSO, TAPPETO 1, TAPPETO 10, TAPPETO 11, TAPPETO 12, TAPPETO 2, TAPPETO 3, TAPPETO 4, TAPPETO 5, TAPPETO 6, TAPPETO 7, TAPPETO 8, TAPPETO 9, TERRA, VERDE MIX	Class G

* The deviation, in percent, of the average size for each tile (2 or 4 sides) from the work size. Regarding the deviation between nominal size and work size, the work size shall be chosen, for non-modular tiles, so that the difference between the work size and the nominal size is: ±2% (max 5 mm)
** See Table 2 EN 14411:2016 for uses where it is applicable
*** High Performance product
**** Resistance to household chemicals and pool salts (from A to C); Resistance to low-concentration acids and bases (from LA to LC); Resistance to high-concentration acids and bases (from HA to HC)
c.c. Centre curvature, related to diagonal calculated from the work sizes
e.c. Edge curvature, related to the corresponding work sizes
w. Warpage, related to diagonal calculated from the work sizes
***** Not valid for interior wall tiles
****** This requirement refers to the ceramic tiles only

Class D: Tiles suitable only for residential bathrooms and bedrooms; any type of abrasion must be avoided
Class E: Tiles suitable for any room of a house except for entrance areas and kitchens. Low stress abrasive wear
Class F: Tiles suitable for any room of a house without direct access from the outside or access not protected by doormats. Average stress abrasive wear
Class G: Materials suitable for rooms subject to medium-heavy abrasion, such as detached houses and light-traffic commercial buildings
Class H: Materials suitable for situations of relatively hard abrasion in environments without protection against scratching, both public and private

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ASTM COMPLIANT				
TECHNICAL FEATURES	**STANDARDS**	**ESTABLISHED LIMITS**		**AVERAGE TYPICAL VALUE**
NOMINAL SIZE	ASTM C499	MIN - 3,00%	MAX 2,00%	Compliant
CALIBER RANGE	ASTM C499	MIN - 0,25% or -0,03 in (-0,8 mm) (1) MAX 0,25% or 0,03 (0,8 mm) (1)		Compliant
WEDGING	ASTM C502	MIN - 0,25% or -0,03 in (-0,8 mm) MAX 0,25% or 0,03 (0,8 mm)		Compliant
WARPAGE EDGE	ASTM C485	MIN - 0,40% or -0,05 in (-1,3 mm) (3) or -1,8 mm (4) MAX 0,40% or 0,05 in (1,3 mm) (3) or 1,8 mm (4)		Compliant
WARPAGE DIAGONAL	ASTM C485	MIN - 0,40% or -0,07 in (-1,8 mm) MAX 0,40% or 0,07 in (1,8 mm)		Compliant
WATER ABSORPTION	ASTM C373	MIN 0,00%	MAX 0,50%	Compliant
THICKNESS (2)	ASTM C499	Range: 0,040 in (1,02 mm)		Not affected
COLOR UNIFORMITY (8)	ASTM C609	V0 - 3 Judds		Compliant
BREAKING STRENGTH	ASTM C648	Average ≥ 275 lbf (1.22 kN) Individual ≥ 250 lbf (1,11 kN)		≥ 400
THERMAL SHOCK (5)	ASTM C484	Passed		Compliant
RESISTANCE TO FREEZE/THAW CYCLING (6)	ASTM C1026	Declared value		No damage
STAIN RESISTANCE	ASTM 1378	As reported		Not affected
CHEMICAL RESISTANCE	ASTM C650	As reported		Not affected
CRAZING RESISTANCE (5)	ASTM C424	Passed		Not affected
BOND STRENGTH	ASTM C482	≥ 50 psi (0,34 Mpa)		Compliant

(1) Whichever is less.
(2) May not apply to textured surfaces or tiles with uneven back patterns.
(3) Whichever is less, for tiles up to 24” (610 mm) on any side
(4) Applies to tiles larger than 24” (610 mm) on any side
(5) Glazed tiles only
(6) When installation subject to freeze/thaw conditions.
(7) For level interior spaces expected to be walked upon when wet (see section 6.2.2.1.10)
(8) Class V0 Tile Only

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Antislippery Properties (only for tiles intended for floor use)											
						DIN EN 16165 Annex B (ex DIN 51130); ASR A1.	DIN EN 16165 Annex A (ex DIN 51097) DGUV Information 207-006	D.M. N. 236 14/6/89 BCR-A	ANSI 326:3:2021 D-COF	BS EN 16165:2021 Annex C (ex BS 7976-2:2002 / BS EN 13036-4:2011) - UK PTV	UNE EN 16165 Annex C (ex UNE 41901:2017 EX - DB SUA) - Spain PTV	AS 4586-2013 Annex A Australian PTV
Established limits						from R9 to R13	from A to C	μ> 0,40	Interior Dry (ID) ≥ 0.42 dry, Interior Wet (IW) ≥ 0.42 wet, Interior Wet+ (IW+): Declared value, Exterior Wet (EW): Declared value	0 - 24 Slippery; 25 - 35 Moderate slipperiness; 36+ Low risk of slipping	from class 0 to class 3	from P0 to P5
Surface	**Size (cm) Thickness**	**Color**	**Group**	**Catalog code**		**DIN EN 16165 Annex B (ex DIN 51130); ASR A1.**	**DIN EN 16165 Annex A (ex DIN 51097) DGUV Information 207-006**	**D.M. N. 236 14/6/89 BCR-A**	**ANSI 326:3:2021 D-COF**	**BS EN 16165:2021 Annex C (ex BS 7976-2:2002 / BS EN 13036-4:2011) - UK PTV**	**UNE EN 16165 Annex C (ex UNE 41901:2017 EX - DB SUA) - Spain PTV**	**AS 4586-2013 Annex A Australian PTV**
Natural	10x10 10 mm	AZZURRO	Bla GL	M612		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	10x10 10 mm	CARBONE	Bla GL	M61F		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	10x10 10 mm	GRIGIO	Bla GL	M615		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	10x10 10 mm	OSSO	Bla GL	M61G		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	10x10 10 mm	TERRA	Bla GL	M614		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	10x10 10 mm	VERDE	Bla GL	M613		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	AZZURRO	Bla GL	M5ZN		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	CARBONE	Bla GL	M603		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	GRIGIO	Bla GL	M602		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX AZZURRO MIX	Bla GL	M607		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX CARBONE MIX	Bla GL	M60C		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX GRIGIO MIX	Bla GL	M60A		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX OSSO MIX	Bla GL	M60D		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX TERRA MIX	Bla GL	M609		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	MIX VERDE MIX	Bla GL	M608		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	OSSO	Bla GL	M605		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 1	Bla GL	M60F		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 10	Bla GL	M60W		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 11	Bla GL	M60X		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 12	Bla GL	M60Y		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 2	Bla GL	M60G		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 3	Bla GL	M60H		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 4	Bla GL	M60L		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 5	Bla GL	M60P		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 6	Bla GL	M610		R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---

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Surface	Size (cm) Thickness	Color	Group	Catalog code	DIN EN 16165 Annex B (ex DIN 51130); ASR A1.	DIN EN 16165 Annex A (ex DIN 51097) DGUV Information 207-006	D.M. N. 236 14/6/89 BCR-A	ANSI 326:3:2021 D-COF	BS EN 16165:2021 Annex C (ex BS 7976-2:2002 / BS EN 13036-4:2011) - UK PTV	UNE EN 16165 Annex C (ex UNE 41901:2017 EX - DB SUA) - Spain PTV	AS 4586-2013 Annex A Australian PTV
Natural	20x20 10 mm	TAPPETO 7	Bla GL	M60S	R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 8	Bla GL	M60U	R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TAPPETO 9	Bla GL	M60V	R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	TERRA	Bla GL	M600	R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Natural	20x20 10 mm	VERDE	Bla GL	M5ZS	R10	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---