



Slow

COLLECTION SUMMARY			
SIZE (cm)	THICKNESS	GROUP	USE
60x60	9 mm	Bla UGL EN14411/G	FLOOR/WALL
60x120	9 mm	Bla UGL EN14411/G	FLOOR/WALL
75x75	9 mm	Bla UGL EN14411/G	FLOOR/WALL
75x150	9 mm	Bla UGL EN14411/G	FLOOR/WALL
120x120	9 mm	Bla UGL EN14411/G	FLOOR/WALL

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Slow

Compliant with standard EN 14411:2016 annex G group Bla UGL

Compliant with standard ISO 13006:2018 annex G group Bla UGL

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
	RECTIFIED		±0,4 mm	±0,3 %	±1,0 mm	
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	THICKNESS					Compliant
	RECTIFIED		±0,5 mm	±5 %	±0,5 mm	
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	STRAIGHTNESS OF SIDES					Compliant
	RECTIFIED		±0,4 mm	±0,3 %	±0,8 mm	
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	RECTANGULARITY					Compliant
	RECTIFIED		±0,4 mm	±0,3 %	±1,5 mm	
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	SURFACE FLATNESS C.C.- E.C.- W.					Compliant
	RECTIFIED		±0,6 mm	±0,4 %	±1,8 mm	
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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% HP*** Eb ≤ 0,05%
	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 HP*** Thickness ≥ 7,5 mm: S ≥ 1300 N R ≥ 45 N/mm²
			---	---
			---	---
	RESISTANCE TO DEEP ABRASION	EN ISO 10545-6	≤ 175 mm³	≤ 175 mm³ HP*** 120-150 mm³
	LINEAR THERMAL EXPANSION COEFFICIENT	EN ISO 10545-8	Declared value (EN 14411:2016) Test method available (ISO 13006:2018)	$\leq 9 \left(\frac{x(10)^{-6}}{^{\circ}\text{C}} \right)$
	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	Declared value (EN 14411:2016) Test method available (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	60x60	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			60x60	9 mm	Structured Surface	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			60x120	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			60x120	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA TAPIS	Class H
			75x75	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			75x75	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA RAFIA	Class H
			75x150	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			120x120	9 mm	Natural	ARGILLA, CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H
			120x120	9 mm	Structured Surface	CALCE, COCCIO, COTTO, POMICE, SABBIA	Class H

* 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: $\pm 2\%$ (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)		Compliant
		MAX 0,25% or 0,03 (0,8 mm) (1)		
WEDGING	ASTM C502	MIN - 0,25% or -0,03 in (-0,8 mm)		Compliant
		MAX 0,25% or 0,03 (0,8 mm)		
WARPAGE EDGE	ASTM C485	MIN - 0,40% or -0,05 in (-1,3 mm) (3) or -1,8 mm (4)		Compliant
		MAX 0,40% or 0,05 in (1,3 mm) (3) or 1,8 mm (4)		
WARPAGE DIAGONAL	ASTM C485	MIN - 0,40% or -0,07 in (-1,8 mm)		Compliant
		MAX 0,40% or 0,07 in (1,8 mm)		
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)		≥ 400
		Individual ≥ 250 lbf (1,11 kN)		
DEEP ABRASION (7)	ASTM C1243	≤ 175 mm³ (0,011 in³)		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
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	$\mu > 0,40$	Interior Dry (ID) $\geq$ 0.42 dry, Interior Wet (IW) $\geq$ 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	60x60 9 mm	CALCE	Bla UGL	MFSG	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x60 9 mm	COTTO	Bla UGL	MFSN	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x60 9 mm	COCCIO	Bla UGL	MFSL	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x60 9 mm	POMICE	Bla UGL	MFSE	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x60 9 mm	SABBIA	Bla UGL	MFSJ	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x60 9 mm	ARGILLA	Bla UGL	MFSR	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Structured Surface	60x60 9 mm	CALCE	Bla UGL	MFSU	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	60x60 9 mm	COTTO	Bla UGL	MFSZ	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	60x60 9 mm	COCCIO	Bla UGL	MFSX	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	60x60 9 mm	POMICE	Bla UGL	MFST	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	60x60 9 mm	SABBIA	Bla UGL	MFSV	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	60x60 9 mm	ARGILLA	Bla UGL	MFUS	R11	A+B	> 0.40	≥ 0.42	>36 low slip potential slider 96	Class 3	---
Natural	60x120 9 mm	CALCE	Bla UGL	MFS2	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	CALCE TAPIS	Bla UGL	MM6V	R10	A+B	> 0.40	---	---	Class 1	---
Natural	60x120 9 mm	COTTO	Bla UGL	MFS8	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	COTTO TAPIS	Bla UGL	MM70	R10	A+B	> 0.40	---	---	Class 1	---
Natural	60x120 9 mm	COCCIO	Bla UGL	MFS6	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	COCCIO TAPIS	Bla UGL	MM6Z	R10	A+B	> 0.40	---	---	Class 1	---
Natural	60x120 9 mm	POMICE	Bla UGL	MFS1	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	POMICE TAPIS	Bla UGL	MM6R	R10	A+B	> 0.40	---	---	Class 1	---
Natural	60x120 9 mm	SABBIA	Bla UGL	MFS4	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	SABBIA TAPIS	Bla UGL	MM6W	R10	A+B	> 0.40	---	---	Class 1	---
Natural	60x120 9 mm	ARGILLA	Bla UGL	MFSC	R9	---	> 0.40	≥ 0.42	---	Class 1	---
Natural	60x120 9 mm	ARGILLA TAPIS	Bla UGL	MM7S	R10	A+B	> 0.40	---	---	Class 1	---

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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	75x75 9 mm	CALCE	Bla UGL	MFNC	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	CALCE RAFIA	Bla UGL	MKGV	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	COTTO	Bla UGL	MFPT	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	COTTO RAFIA	Bla UGL	MKGZ	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	COCCIO	Bla UGL	MFNU	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	COCCIO RAFIA	Bla UGL	MKGY	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	POMICE	Bla UGL	MFN3	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	POMICE RAFIA	Bla UGL	MKGU	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	SABBIA	Bla UGL	MFNS	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	SABBIA RAFIA	Bla UGL	MKGW	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	ARGILLA	Bla UGL	MFRS	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x75 9 mm	ARGILLA RAFIA	Bla UGL	MKH1	R10	A+B	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	CALCE	Bla UGL	MNEC	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	COTTO	Bla UGL	MNE3	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	COCCIO	Bla UGL	MNDV	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	POMICE	Bla UGL	MNE1	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	SABBIA	Bla UGL	MNDU	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	75x150 9 mm	ARGILLA	Bla UGL	MNE2	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	CALCE	Bla UGL	MFKG	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	COTTO	Bla UGL	MFKP	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	COCCIO	Bla UGL	MFKR	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	POMICE	Bla UGL	MFKE	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	SABBIA	Bla UGL	MFKM	R9	---	> 0.40	>= 0.42	---	Class 1	---
Natural	120x120 9 mm	ARGILLA	Bla UGL	MFKV	R9	---	> 0.40	>= 0.42	---	Class 1	---
Structured Surface	120x120 9 mm	CALCE	Bla UGL	MFZS	R11	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	120x120 9 mm	COTTO	Bla UGL	MP3J	R11	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	120x120 9 mm	COCCIO	Bla UGL	MG01	R11	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	120x120 9 mm	POMICE	Bla UGL	MP3H	R11	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---
Structured Surface	120x120 9 mm	SABBIA	Bla UGL	MFZW	R11	A+B	> 0.40	>= 0.42	>36 low slip potential slider 96	Class 3	---