

Technical Data Sheet

SILESTONE® XM
FAMILIES B - C

Family B

Ocean Jasper F.

Family C

Arcilla Red, Bohemian Flame, Cala Blue, Camden, Cincel Grey, Corktown, Faro White, Nolita 23, Parisien Bleu, Poblenu, Posidonia Green, Raw A, Raw D, Raw G, Seaport 23.



According to EN 15285, EN 15286, ASTM, ANSI

All the data collected in this document are based on the results of periodic tests on representative products of each Technical Family carried out in accredited external laboratories.

Name and address of manufactures

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**TECHNICAL
CONTENT**

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	Thickness	Unit	Family B	Family C
Weight	12 mm		28 [5,80]	26 [5,40]
	20 mm	Kg/m ² [lb/ft ²]	46 [9,50]	43 [8,80]
	30 mm		69 [14,20]	64 [13,20]

Test Standard	Determination	Unit	Family B	Family C
Adherence for cementitious adhesives EN 1348	Initial adhesion	N/mm ²	3,5	3,5
	Standard deviation		0,20	0,20
Thermal conductivity EN 10456	Thermal conductivity	W/m · K	1,3	1,3
Water absorption, densities EN 14617-1	Apparent density	Kg/m ³	2.287	2.133
	Water absorption	%	≤ 0,05 W ₄	≤ 0,05 W ₄
Flexural strength EN 14617-2	Flexural strength	MPa	≥ 40 F ₄	≥ 40 F ₄
Resistance to abrasion EN 14617-4	Resistance to abrasion	mm	≤ 29 A ₄	≤ 33 A ₃
Thermal shock resistance EN 14617-6	Change in dynamic elastic mod.	%	2	- 3,1
	Change in mass		0,0	0,0
Resistance to impact EN 14617-9	Resistance to impact	cm / J	66 / 6,5	151 / ≥ 14,8
Thermal expansion coefficient EN 14617-11	Thermal expansion coefficient	10 ⁻⁶ · °C ⁻¹	34	45
Electric resistivity EN 14617-13	Volume	TΩ · m (1.000V)	19,7	400
	Surface		670	790
Slip resistance (Polished) EN 14231	PTV wet	-	8	5
	PTV dry		43	37
Slip resistance (Suede) EN 14231	PTV wet	-	9	10
	PTV dry		40	40
Absorption and bulk gravity ASTM C97	Water absorption	%	0,02	0,04
	Bulk specific gravity	lb/ft ³	149,8	136,4
Modulus of rupture ASTM C99	Dry conditions (d/thickness)	psi	7.478	9.570
	Wet conditions (d/thickness)		7.549	12.889
Compressive strength ASTM C170	Compressive strength	psi	33.961	36.300

→ (A) Affected.

(NA) Not affected.

(*) Ongoing test.

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Test Standard	Determination	Unit	Family B	Family C
Density ASTM C373	Average water absorption	-	*	*
Thermal shock resistance ASTM C484	Defects	-	No defects	No defects
Breaking strength ASTM C648	Average breaking strength	lbf	12.716	15.426
Resistance to common household and cleaning chemicals ASTM C650-04	Acetic acid, 3% (v/v)		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Acetic acid, 10% (v/v)		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Ammonium chloride, 100 g/L		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Citric acid solution, 30 g/L		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Citric acid solution, 100 g/L	-	Visual: NA Pencil: NA	Visual: A Pencil: NA
	Lactic acid, 5% (v/v)		Visual: NA Pencil: NA	Visual: A Pencil: NA
	Phosphoric acid, 3% (v/v)		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Phosphoric acid, 10% (v/v)		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Sulfamic acid, 30 g/L		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Sulfamic acid, 100 g/L		Visual: NA Pencil: NA	Visual: NA Pencil: NA
Resistance to chemicals: acids and bases ASTM C650-04	Hydrochloric acid sol., 3% (v/v)		Visual: NA Pencil: NA	Visual: NA Pencil: NA
	Hydrochloric acid sol., 18% (v/v)	-	Visual: A Pencil: NA	Visual: NA Pencil: NA
	Potassium hydroxide, 30 g/L		Visual: A Pencil: NA	Visual: A Pencil: NA
	Potassium hydroxide, 100 g/L		Visual: A Pencil: NA	Visual: A Pencil: NA
Flexural properties white ceramic materials ASTM C674	-	psi	7.805	10.986
Flexural strength ASTM C880	Dry conditions		5.857	7.570
	Wet conditions	-	7.887	11.815
Resistance to abrasion ASTM C1353	Average index of abrasion, lw	-	179	111,8

→ (A) Affected.

(NA) Not affected.

(*) Ongoing test.

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Test Standard	Determination	Unit	Family B	Family C
Resistance to staining ASTM C1378-04	Contrasting grout		Not affected	Not affected
	Back carbon lamp		Not affected	Not affected
	Waterproof black ink	-	Not affected	Not affected
	Washable ink		Not affected	Not affected
	Potassium permanganate sol., 1% (v/v)		Not affected	Not affected
	Methylene blue sol., 1% (v/v)		Not affected	Not affected
Lineal thermal expansion ISO 10545-8	-	-	$2,73 \cdot 10^{-5}$	$3,48 \cdot 10^{-5}$
Dynamic coefficient of friction ANSI A326.3	-	DCOF	0,51	0,46

→ (A) Affected. (NA) Not affected. (*) Ongoing test.

Silestone® XM Fire Reaction

According to EN 13501-1 standard

Test Standard	Determination	Applicable colors
Fire reaction EN 13501-1	Class	B Arcilla Red, Bohemian Flame, Cala Blue, Camden, Cincel Grey, Corktown, Faro White, Nolita 23, Ocean Jasper F, Parisien Blue, Poblenu, Posidonia Green, Raw A, Raw D, Raw G, Seaport 23.