


















TECHNICAL SHEET



REFERENCED RULES:	ISO-13006:2012 and UNE EN 14411:2013
TYPE OF PRODUCT:	DRY-PRESSED CERAMIC TILES, WITH WATER ABSORPTION $E_b \leq 0,5\%$ TYPE POCELAIN
NAME:	MICROCEMENT GREY NATURAL
SIZE (cm):	59,55 x 59,55
THICKNESS: (mm)	10,3
GROUP:	B1a – UGL
USE:	FOR WALLS AND FLOORING, INTERNAL AND EXTERNAL



PRODUCTION BATCH: 08/05/19

	Characteristics	Test Method	Requirements	Values Compliance By APAVISA
DIMENSIONAL AND SURFACE QUALITY				
	LENGTH AND WHIDTH	EN ISO 10545-2	$\pm 0,6\%$ ó $\pm 2,0$ mm	$\pm 0,2 \%$
	STRAIGHTNESS OF SIDES	EN ISO 10545-2	$\pm 0,5\%$ ó $\pm 1,5$ mm	$\pm 0,2 \%$
	RECTANGULARITY	EN ISO 10545-2	$\pm 0,5\%$ ó $\pm 2,0$ mm	$\pm 0,2 \%$
	SURFACE FLATNESS	EN ISO 10545-2	$\pm 0,5\%$ ó $\pm 2,0$ mm	$\pm 0,2 \%$
	THICKNESS	EN ISO 10545-2	$\pm 5,0\%$ ó $\pm 0,5$ mm	$\pm 5,0 \%$
PHYSICAL PROPERTIES				
	WATER ABSORPTION	EN ISO 10545-3	$E_b \leq 0,5\%$	$E_b \leq 0,1\%$
	BREAKING STRENGTH	EN ISO 10545-4	Mínimum 1.300 N	≥ 2800 N
	FLESURAL TENSILE STRENGTH	EN ISO 10545-4	Mínimum 35 N/mm ²	≥ 48 N/mm ²
	DEEP ABRASION RESISTANCE	EN ISO 10545-6	Declared Value	≤ 131 mm ³
	LINEAR THERMAL EXPANSION	EN ISO 10545-8	Declared Value	$6.1-6.9 \times 10^{-6}$ (°C ⁻¹)
	THERMAL SHOCK RESISTANCE	EN ISO 10545-9	Required	PASS
	FROST RESISTANCE (Internal and external use)	EN ISO 10545-12	Required	PASS
	SLIP RESISTANCE	DIN 51130	-	R10
	BOND STRENGTH / ADHESION (Cementitious adhesives)	EN 12004:2007 + A1:2012, 4.1	Declared Value	Type C2 >1 N/mm²
	REACTION TO FIRE		Clase A1 _{FL} /A1	A1_{FL}/A1
CHEMICAL PROPERTIES				
	CHEMICAL RESISTANCE - household chemicals and swimming pool slats	EN ISO 10545-13	Mínimum UB	UA
	RESISTANCE TO STAINING - Unglazed tiles	EN ISO 10545-14	Declared Value	5

It is advisable to follow the instructions for fixing and cleaning maintenance published by APAVISA PORCELANICO, S.L. fulfilling the legal or regulatory requirements that may exist for each area of use in any case. Tests values on the indicated production batch.