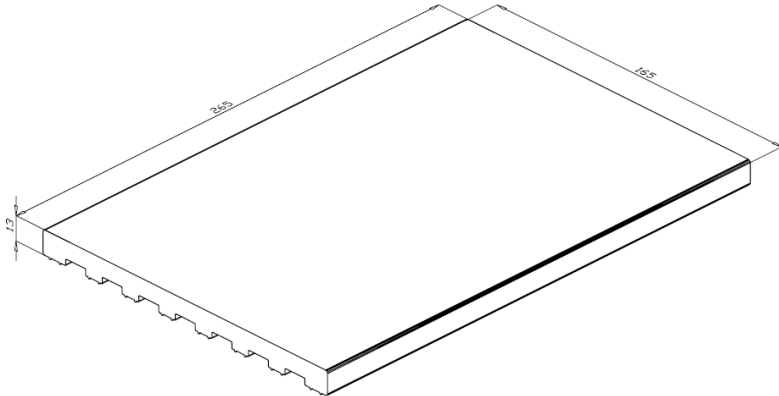


CERÁMICAS CALAF S.A		PRODUCT SHEET		CE	
MANUFACTURER: CERÁMICAS CALAF, S.A.				P.S. 09030	
Address: Ctra. Folquer a Jorba, km.38,200 – 08280-CALAF (SPAIN)				Date: 01-10-14	
					
Dimensions in mm.					
SERIES			MONTSERRAT ROJO		
PRODUCT DESIGNATION			Rasilla 16,5x26,5x1,3 cm. (M1)		
Natural extruded ceramic tile, not glazed (UGL), slip resistant, under natural classification of Annex C Part 2, $3\% < E_b \leq 6\%$, Group AII _{a-2} of the Standard EN-14411:2012					
For internal and/or external floorings					
Characteristics		Declared value		Tests EN ISO	
Dimensions	Length	265 mm		10.545-2	
	Width	165 mm			
	Thickness	13 mm			
Dimensional tolerances Length and width (1)	Average of each tile	$\pm 2\%$ and max. ± 4 mm			
	Average of ten tiles	$\pm 1,5\%$			
Dimensional tolerances - Thickness (1)	Average of each tile	$\pm 10\%$			
Straightness of sides (1)	Maximum deviation	$\pm 1\%$			
Orthogonality (1)	Maximum deviation	$\pm 1\%$			
Surface flatness (1)	Central curvature with respect to the diagonal	$\pm 1,5\%$			
	Lateral curvature	$\pm 1,5\%$			
	Warping with respect to the diagonal	$\pm 1,5\%$			
Surface appearance	Tiles free of visible defects that could damage the appearance of a larger area of tile	95%			
Water absorption	Average	$3\% < E_b \leq 6\%$		10.545-3	
	Individual maximum value	5,8%			
Breaking strength	Minimum value	850 N		10.545-4	
Flexion resistance	Individual minimum value	19 N/mm ²			
	Average minimum value	21 N/mm ²			
Abrasion resistance	Maximum value	400 mm ³		10.545-6	
Linear thermal expansion	Value	$< 4 \times 10^{-6} / ^\circ\text{C}$		10.545-8	
Thermal shock resistance	Without visible defects	Correct		10.545-9	
Frost resistance	Without visible defects	Correct		10.545-12	
Chemical resistance	Cleaning products	UA (no visible change)		10.545-13	
	Salts of swimming pools	UA (no visible change)			
	Acids and bases with weak concentration	ULA (no visible change)			
	Acids and bases with strong concentration	UHA (no visible change)			
Slipperiness	Average – R _d (Pendulum, slider 57)	> 45 (Class 3)		CEN/TS 16165:2011 Annex C	
Reaction to fire	Euroclass	A1 _{FL}			