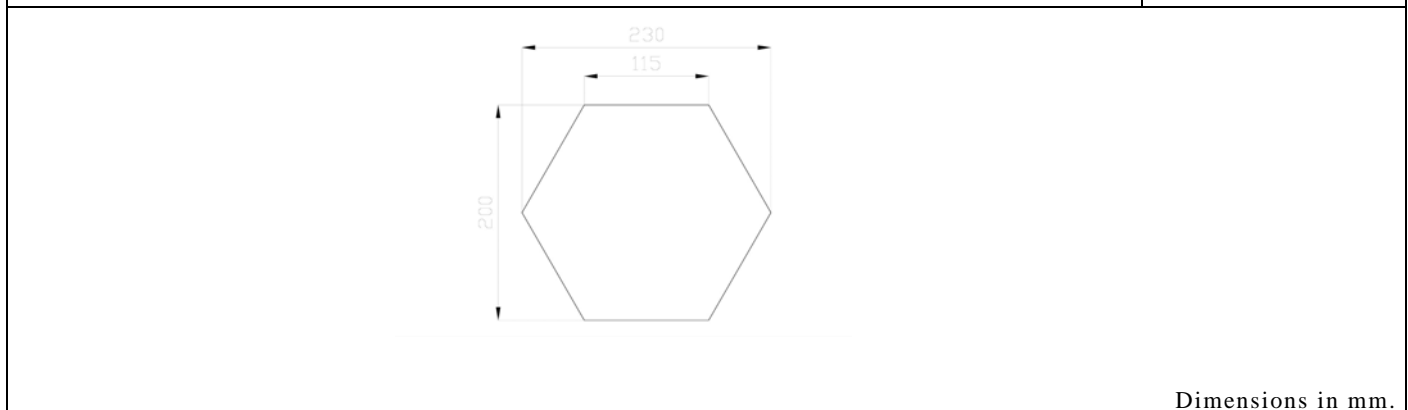


<b>CERÁMICAS CALAF S.A</b>	<b>PRODUCT SHEET</b>	
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MANUFACTURER: <b>CERÁMICAS CALAF, S.A.</b>	P.S. 051H00
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Locality: 08280 CALAF (Barcelona)	Date: 24-05-12
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SERIES	<b>BARCELONA ROSADO</b>
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PRODUCT DESIGNATION	<b>HEXAGON 20x20x1.4 cm. (M1)</b>
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Natural extruded ceramic tile (not glazed), under Annex F,  
E>10%, Group AIII of the Standard EN-14411:2003

For internal and/or external floorings

Characteristics	Declared value		Tests UNE-EN ISO
Dimensions	Length	198 mm	10.545-2
	Width	198 mm	
	Thickness	14 mm	
Dimensional tolerances Length and width (1)	Average of each tile	± 2% and max. 4 mm	
	Average of ten tiles	± 1.5%	
Dimensional tolerances - Thickness (1)	Average of each tile	± 10%	
Straightness of sides (1)	Maximum deviation	± 1%	
Orthogonality (1)	Maximum deviation	± 1%	
Surface flatness (1)	Central curvature with respect to the diagonal	± 1.5%	
	Lateral curvature	± 1.5%	
	Warping with respect to the diagonal	± 1.5%	
Surface appearance	Tiles free of visible defects that could damage the appearance of a larger area of tile	95%	
Water absorption	Average	E>10%	10.545-3
	Individual maximum value	15%	
Breaking strength	Minimum value	800 N	10.545-4
Flexion resistance	Individual minimum value	16 N/mm <sup>2</sup>	
	Average minimum value	19 N/mm <sup>2</sup>	
Abrasion resistance	Maximum value	690 mm <sup>3</sup>	10.545-6
Linear thermal expansion	Value	<4x10 <sup>-6</sup> /°C	10.545-8
Thermal shock resistance	Without visible defects	Correct	10.545-9
Moisture expansion	Maximum value	≤ 0.6 mm/m	10.545-10
Chemical resistance	Cleaning products	UA	10.545-13
	Salts of swimming pools	UA	
	Acids and bases with weak concentration	ULA	
	Acids and bases with strong concentration	UHA	
Slipperiness	Average - CRD	35 < R <sub>d</sub> < 45 (Class 2)	NLT 175/98 (UNE-ENV 12633:2003)
Reaction to fire	Euroclass	A1	