



DECLARATION OF PERFORMANCE BRICK SIZE 220 MM Model: N° 001-KC-23/08/2017			
(1) Product group	Clay facing brick		(4) Klinker Covadonga S.L. Barrio Los Coteros N° 3 39600 Muriedas (Cantabria)
(2) Product type	KLINKER CLAY BRICK HD KLINKER R-55 220 x 105 x 48		Spain
(3) Intended use or uses of the construction product			HD units for unprotected masonry walls, columns and partitions
(5) System of assessment and verification of constancy of performance			2+
(6) Notified body			AENOR C/GENOVA 6 28004 MADRID ESPAÑA N°0099
Work performed			0099/CPR/A73/0112
(i) Initial inspection of the manufacturing plant and of the factory production control			
(ii) Continuous surveillance, evaluation and approval of factory production control			
(7) Declared performance			
Essential technical characteristics		Performance	
Exfoliation / lamination		No exfoliated or laminated bricks	
Fissures		0 fissured bricks	
Chipping (medium individual dimensions)		No bricks between 7 and 15mm	
		No bricks > 25 mm	
Dimensional tolerances (mm)	Average value	length (l)	± 4
		width (a)	± 3
		height (h)	± 2
	Range	largo (l)	4
		width (a)	3
		height (h)	2
Wall thickness (mm)	Face wall		≥ 15
	Non-face wall		≥ 10
	Interior wall		≥ 5
Parallelism of bed faces (mm)	N/A		
Flatness of bed faces (mm)	Diagonals	l > 300 mm	N/A
		300 ≥ l ≥ 250 mm	≤ 3
		l ≤ 250 mm	≤ 2
Percentage of holes (%)	Declared value (%)		≤ 38
	Tolerance (%)		Min: 34 - Max: 42
Volume of largest holes (% del gross value)		≤ 8,5	
Combined thickness of walls (%)		≥ 20	
Water absorption in exterior elements (%)		≤ 5	
Anticapillary barrier absorption in units (%)		N/A	
Suction (Kg/(m ² x min))		≤ 0,4	
		≥ 55	
Standard normalised compressive strength (N/mm ²)		Perpendicular to bed faces	
Density	Absolute (Kg/m ³)		2.300
	Apparent (Kg/m ³)		1.450
	Tolerance (%)		± 10
Mass (g)	Reduction due to	Guaranteed minimum value:	
		NO	1.380
Efflorescence		Nil efflorescence	

EN 771-1:2011+A1:2015

Freeze/thaw resistance		F2 (25 cycles)	
		Test carried out in chamber with forced ventilation	
Thermal properties (Method)		Tabulated value from the Catalogue of Constructive Elements	
λpieza (W/m x k)		0,35	
Rmuro (m ² x k/w)		0,18	
Water vapour permeability - μ		50/100	
Active soluble salts content		S2	
Expansion by humidity (mm/m)		≤ 0,25	
Reaction to fire	(%organic material < 1 %)	CLASS A1	
Adherence (N/mm ²)		0,15	
Surface colour		Bricks are produced with or without surface colour	
Hidrofuged		NO	
Special shapes		SI	
Manufactured with different surface finishes (smooth, sandfaced, rusticated etc). This brick does not need to be hidrofuged due to its exceptionally low water absorption and suction. SPECIAL SHAPES: All special shapes are guaranteed by this certificate. COVADONGA KLINKER BRICK SLIPS, size 220 x 26 x 48mm, are included in the Technical Certificate and are subject to control by the certifying body AENOR.			
(8) The performance of the product identified in (1) and (2) is in conformity with the declared performance (7).			
This declaration of performance is issued under the sole responsibility of the manufacturer (4).			
Fernando Jerez Alonso, Managing director		 KLINKER COVADONGA, S.L. C. I. F. B 85577346 Teléf. +34 942 251 600	
Signed for and on behalf of the Manufacturer in Muriedas: August 23rd, 2017			