

AENOR

AENOR Product Certificate Clay products for construction



034/001084

AENOR certifies that the organization

INDUSTRIAS CERAMICAS DIAZ, S.A.

registered office	CR COBEJA - PANTOJA, Km. 1 45291 COBEJA (Toledo - España)
supplies	U Units Category I for unprotected masonry
in compliance with	UNE-EN 771-1:2011+A1:2016 (EN 771-1:2011+A1:2015)
Nº Technical Form	0080120 (see annex)
Production site	CR COBEJA - PANTOJA, Km. 1 45291 COBEJA (Toledo - España)
Certification scheme	This Certificate has been granted in accordance with the stipulations of the Specific Rules RP 034.01
	This certificate supersedes 034/001084, dated 2018-01-30
First issued on	2009-07-09
Modified on	2019-07-09
Validity date	2024-07-09

A handwritten signature in blue ink, appearing to read 'Rafael García Meiro'.

Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

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Product certification body accredited by ENAC, number 01/C-PR271

U UNITS CATEGORY I FOR UNPROTECTED MASONRY

TECHNICAL FORM N°: 0080120

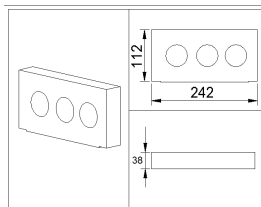
MANUFACTURER - MADE IN:	INDUSTRIAS CERÁMICAS DÍAZ S.A. - COBEJA (TOLEDO)
PRODUCT DESCRIPTION:	U CLAY UNIT R-17,5 OF 242 x 112 x 38
DESIGNATION CODE:	CL U I 17,5 1545(D2) 242x112x38 C L0,350 T2 R2 E(3,2) PL≤2 N1940(D2) G1 B0,3 W≤6 I≤0,1 S0 M≤0,6
BRAND NAME:	RÚSTICO
SURFACE COLOURS:	WITHOUT SURFACE COLOUR
MASS COLOURS:	BROWN, SAGRA, DUNE, HAZELNUT, ORANGE AND VANILLA

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Certified Product

PIECE SKETCH



TECHNICAL CHARACTERISTICS

Characteristic		Test method	Manufacturer ensured values	AENOR required values	
Appearance and structure	flakings and delaminations	Visual over 6 pieces	No pieces with flakings/delaminations		
	cracked units		0 cracked pieces	≤ 1 cracked piece	
	chip units	UNE 67039 EX	≤ 1 piece with m.i.d between 7/15 mm	≤ 1 piece with m.i.d between 7/15 mm	
No pieces with chips upper to 25 mm					
Dimensional tolerances	Mean value	EN 772-16	T2	± 4	± 4
				± 3	± 3
			± 2	± 2	
	Range		R2	± 5	± 5
				± 3	± 3
			± 2	± 2	
Wall thickness (mm)	unprotected face shells	≥ 15,0	≥ 15,0		
	protected face shells	≥ 10,0	≥ 10,0		
	webs	≥ 5,0	≥ 5,0		
Plane parallelism of bed faces (mm)			≤ 2,0		
Flatness of bed faces (mm)	Diagonals	EN 772-20	N/A		
			≤ 3		
			≤ 2		
Percentage of voids (%)	Stated value (%)	EN 772-3	20		
	Tolerance (%)		Min: 18 - Máx: 22		
Volume of the largest void (% of (l x w x h))		EN 772-9	≤ 12,5	≤ 12,5	
Combined thickness of webs and shells (%)		EN 772-16	≥ 37,5	≥ 37,5	
Water absorption (%)		EN 772-21	≤ 6	≤ 6	
Water repellent treatment			YES		
			Water absorption without water repellent treatment: ≤ 17%		
Initial rate of water absorption (Kg/(m ² x min))		EN 772-11	≤ 0,1		
Damp proof courses (%)		EN 772-7	N/A		
Characteristic normalized compressive strength (N/mm ²)		EN 772-1	≥ 0,0	≥ 10,0	
			Orientation loading: Bed		
Density	Gross dry (Kg/m ³)	EN 772-13	1.940		
	Net dry (Kg/m ³)		1.545		
	Tolerance (%)		± 5	± 10	
Weight (g)	Reduction for density:	NO	Annex D RP 34.01	Minimum value ensured: 1.090	
				Minimum value required: 1.090	
Efflorescences		UNE 67029 EX	No efflorescent	Slightly efflorescent	
Durability (Freeze/thaw)		UNE 67028 EX	F2 (25 cycles)		
			Test carried out by cold store with forced ventilation		
Thermal properties (Method)		Catalog CTE	Constructive Elements Catalog Value		
λ _{piece} (W/m x k)			0,35		
R _{wall} (m ² x k/w)			0,180		
Water vapour permeability - μ		Annex A EN 1745	50/100		
Content of active soluble salts		EN 772-5	S0		
Moisture movement (mm/m)		UNE 67036	≤ 0,60		
Fire reaction	(% organic materials < 1 %)	EN 13501-1	CLASS A1		
Bond strength (N/mm ²)		Annex C EN 998-2	≥ 0,30		
Accessory units			YES		

Remarks:
 Combined thickness declared corresponding at heat flow direction in the masonry
 Manufactured in diferent surface finishings

 Stamp and signature:
 Details from the construction where it's placed the material named in this technical form:
 (For the final qualification, this technical form should be stamped and signed by the manufacturer)