

# AENOR

## AENOR Product Certificate Clay products for construction



**034/001924**

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	0080127 (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 034/001924, dated 2017-06-29
First issued on	2016-02-18
Modified on	2019-04-05
Validity date	2024-04-05

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

Rafael GARCÍA MEIRO  
Chief Executive Officer

Original Electronic Certificate

**AENOR INTERNACIONAL S.A.U.**  
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Product certification body accredited by ENAC, number 01/C-PR271

## U UNITS CATEGORY I FOR UNPROTECTED MASONRY

### TECHNICAL FORM N°: 0080127

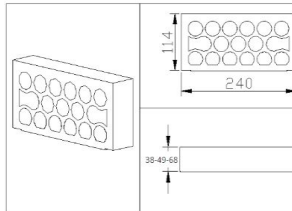
MANUFACTURER - MADE IN:	INDUSTRIAS CERÁMICAS DÍAZ S.A. - COBEJA (TOLEDO)
PRODUCT DESCRIPTION:	U CLAY UNIT (G2) R-17,5 OF 240 x 114 x 38-49-68
DESIGNATION CODE:	CL - U - I - 17,5 - 1040(D2) - 240x114x38-49-68 - C - L0,350 - T2 - R2 - E(3, 2) - PL≤ 2 - N1810(D2) - G2 - FR41 - B0,3 - W≤6 - L≤0,1 - S0 - M≤0,2
BRAND NAME:	DUNA, VISÓN
SURFACE COLOURS:	WITHOUT SURFACE COLOUR
MASS COLOURS:	CREAM

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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		≤ 1 piece with m.i.d between 7/15 mm	≤ 1 piece with m.i.d between 7/15 mm	
Dimensional tolerances	Mean value	UNE 67039 EX	No pieces with chips upper to 25 mm		
			length (l)	± 4	± 4
			width (w)	± 3	± 3
	height (h)		± 2, ± 2, ± 2	± 2, ± 2, ± 2	
	Range		length (l)	± 5	± 5
			width (w)	± 3	± 3
height (h)		± 2, ± 2, ± 2	± 2, ± 2, ± 2		
Wall thickness (mm)	unprotected face shells	EN 772-16	≥ 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		
			l > 300 mm	≤ 3	≤ 3
			300 ≥ l ≥ 250 mm	≤ 2	≤ 2
Percentage of voids (%)	Stated value (%)	EN 772-3	41	≤ 45	
	Tolerance (%)		Min: 37 - Máx: 45		
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	≥ 20	≥ 20	
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 <sup>2</sup> x min))		EN 772-11	≤ 0,1		
Damp proof courses (%)		EN 772-7	N/A		
Characteristic normalized compressive strength (N/mm <sup>2</sup> )		EN 772-1	≥ 17,5 Orientation loading: Bed	≥ 10,0	
Density	Gross dry (Kg/m <sup>3</sup> )		1.810		
	Net dry (Kg/m <sup>3</sup> )		1.040		
	Tolerance (%)		± 5	± 10	
Weight (g)	Reduction for density:	YES	Annex D RP 34.01	Minimum value ensured: 1.040 - 1.340 - 1.860 Minimum value required: 1.040 - 1.340 - 1.860	
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 <sub>piece</sub> (W/m x k)			0,35		
R <sub>wall</sub> (m <sup>2</sup> x k/w)			0,180 - 0,180 - 0,210		
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	≤ 0,20		
Fire reaction	(% organic materials < 1 %)	EN 13501-1	CLASS A1		
Bond strength (N/mm <sup>2</sup> )		Annex C EN 998-2	≥ 0,30		
Accessory units			YES		
Remarks:					

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)

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

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