

# AENOR

## AENOR Product Certificate Clay products for construction



**034/001922**

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	0080125 (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 034/001922, dated 2017-06-29
First issued on	2016-02-18
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

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

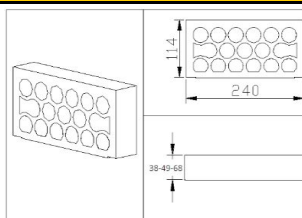
## U UNITS CATEGORY I FOR UNPROTECTED MASONRY

### TECHNICAL FORM N°: 0080125

MANUFACTURER - MADE IN:	INDUSTRIAS CERAMICAS 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 - 1135(D2) - 240x114x38-49-68 - C - L0,350 - T2 - R2 - E(3, 2) - PL≤ 2 - N2020(D2) - G2 - FR41 - B0,3 - W≤6 - I≤0,1 - S0 - M≤0,6
BRAND NAME:	TOLEDO, GRANA
SURFACE COLOURS:	WITHOUT SURFACE COLOUR
MASS COLOURS:	RED



#### 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		
			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		
Initial rate of water absorption (Kg/(m <sup>2</sup> x min))		EN 772-11	Water absorption without water repellent treatment: ≤ 17%		
Damp proof courses (%)		EN 772-7	≤ 0,1		
Characteristic normalized compressive strength (N/mm <sup>2</sup> )		EN 772-1	N/A		
Density	Gross dry (Kg/m <sup>3</sup> )		≥ 17,5		
	Net dry (Kg/m <sup>3</sup> )		Orientation loading: Bed		
	Tolerance (%)		≥ 10,0		
Weight (g)	Reduction for density:	NO	Annex D RP 34.01		
			Minimum value ensured: 1.090 - 1.405 - 1.950		
Efflorescences		UNE 67029 EX	No efflorescent	Slightly efflorescent	
Durability (Freeze/thaw)		UNE 67028 EX	F2 (25 cycles)		
Thermal properties (Method)			Test carried out by cold store with forced ventilation		
λ <sub>piece</sub> (W/m x k)		Catalog CTE	Constructive Elemens Catalog Value		
R <sub>wall</sub> (m <sup>2</sup> x k/w)			0,35		
Water vapour permeability - μ		Annex A EN 1745	0,180 - 0,180 - 0,210		
Content of active soluble salts		EN 772-5	50/100		
Moisture movement (mm/m)		UNE 67036	S0		
Fire reaction performance (% organic materials < 1 %)		EN 13501-1	≤ 0,60		
Bond strength (N/mm <sup>2</sup> )		Annex C EN 998-2	CLASS A1		
Accessory units			≥ 0,30		

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)