

AENOR

AENOR Product Certificate Clay products for construction



034/001404

AENOR certifies that the organization

CERANOR, S.A.

registered office CL GENERAL ARRANDO, 9 B BAJO 28010 MADRID (España)

supplies P Units for protected masonry

in compliance with UNE-EN 771-1:2011+A1:2016 (EN 771-1:2011+A1:2015)

Nº Technical Form 1311403 (see annex)

Production site PI EL TESORO, CR. DE MAYORGA, S/N 24200 VALENCIA DE DON JUAN
(Leon - España)

Certification scheme This Certificate has been granted in accordance with the stipulations of the
Specific Rules RP 034.14

This certificate supersedes 034/001404, dated 2017-12-11

First issued on 2009-11-26

Modified on 2018-01-12

Validity date 2023-01-12

Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

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

P UNITS FOR PROTECTED MASONRY

TECHNICAL FORM: 1311403

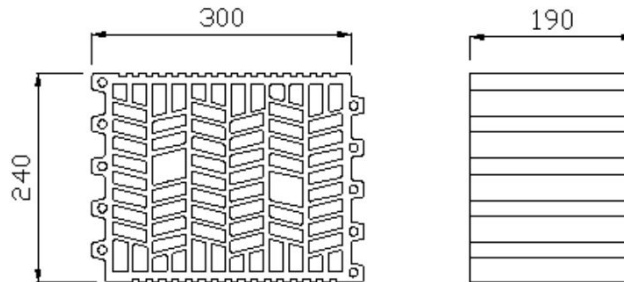
MANUFACTURER - MADE IN: CERANOR, S.A. - Valencia de Don Juan -LEÓN-
 PRODUCT DESCRIPTION: LIGHTENED (G3) P UNIT CAT I R-10,0 of 300 x 240 x 190
 DESIGNATION CODE: CL - P - I - 10 - 815(D2) - 300x240x190 - A - L0,280 - E(4,4,4) - N1770(D2) - G3 - FR55 - B0,15 - I≤4,5 - M≤0,5
 BRAND NAME: TERMOBRICK DE 24
 INTENDED USES: EXTERNAL/INTERNAL ELEMENTS WITH ACOUSTIC, THERMAL INSULATION AND FIRE REQUIREMENTS; STRUCTURAL MASONRY SUSTAINING; COMMON LAYER MORTAR

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Certified Product

PIECE SKETCH



TECHNICAL CHARACTERISTICS

Characteristic		Test method	Manufacturer ensured values	AENOR required values	
Appearance and structure	exfoliations and stratifications	Visual over 6 pieces	None		
	cracked units		≤ 2 unit of 6	≤ 2 unit of 6	
	chip units	UNE 67039 EX	≤ 1 unit of 6	≤ 1 unit of 6	
Dimensional tolerances (mm)	Mean value	EN 772-16	Chips in perforated faces with mean dimension < 15 mm		
			length (l)	± 7	± 7
	width (w)		± 6	± 6	
	height (h)		± 6	± 6	
	Range		length (l)	± 10	± 10
			width (w)	± 9	± 9
height (h)	± 8	± 8			
Wall thickness (mm)	protected face shells	≥ 6,0	≥ 6,0		
	webs	≥ 3,0	≥ 3,0		
Plane parallelism of bed faces (mm)		N/A			
Flatness of bed faces (mm)	Diagonals	l > 300 mm	≤ 4,0	≤ 4,0	
		300 ≥ l ≥ 250 mm	≤ 4,0		
		l ≤ 250 mm	≤ 4,0		
Percentage of voids (%)		EN 772-3	55	> 25; ≤ 60	
Tolerance (%)		Min: 50 - Máx: 60			
Volume of the largest void (% of (l x w x h))		EN 772-3/9/16	≤ 4,0	≤ 12,5	
Combined thickness of webs and shells (%)		EN 772-16	≥ 20,0	≥ 20,0	
Initial rate of water absorption (Kg/(m² x min))		EN 772-11	≤ 4,5	≤ 4,5	
Characteristic normalized compressive strength (N/mm²)		EN 772-1	≥ 10,0 Orientation loading: Bed	≥ 10,0	
Density	Gross dry (Kg/m³)	EN 772-13	1.770		
	Net dry (Kg/m³)		815		
	Tolerance (%)		D2	D1 (± 10%)	
Weight (g)		Annex D RP 34.14	Minimum value ensured: 10.550		
Durability (Freeze/thaw)		UNE 67028 EX	F0		
Thermal properties (Method)		Constructive Elements Catalog Value			
λ _{piece} (W/m x k)		Catalog CTE	0,280		
R _{wall} (m² x k/w)			0,570		
Water vapour permeability - μ		EN 1745	5/10		
Content of active soluble salts		EN 772-5	S0		
Moisture movement (mm/m)		UNE 67036	≤ 0,5		
Fire reaction		EN 13501-1	A1		
% organic materials ≤ 1 %		EN 13501-1	A1		
Bond strength (N/mm²)		Annex C EN 998-2	0,15		
Accessory units		SI			
Remarks:					

Combined thickness declared corresponding at heat flow direction in the masonry

 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)

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