

# AENOR

## AENOR Product Certificate Clay products for construction



**034/001409**

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 1311402 (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 034/001409, dated 2018-01-12

First issued on 2009-11-26

Modified on 2021-04-05

Validity date 2026-04-05



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 1/C-PR271

## P UNITS FOR PROTECTED MASONRY

### TECHNICAL FORM: 1311402

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 190 x 190

DESIGNATION CODE: CL - P - I - 10 - 825(D2) - 300x190x190 - A - L0,320 - E(4,4,4) - N1770(D2) - G3 - FR55 - B0,15 - I≤4,5 - M≤0,5

BRAND NAME: TERMOBRICK DE 19

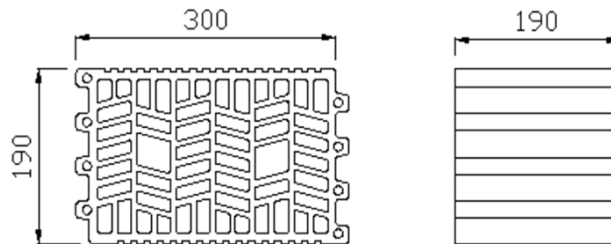
INTENDED USES: EXTERNAL/INTERNAL ELEMENTS WITH ACOUSTIC, THERMAL INSULATION AND FIRE REQUIREMENTS; STRUCTURAL MASONRY SUSTAINING; COMMON LAYER MORTAR

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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)	± 8	± 8
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	EN 772-20	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: 52 - Máx: 58		
Volume of the largest void (% of (l x w x h))		EN 772-3/9/16	≤ 4,5	≤ 12,5	
Combined thickness of webs and shells (%)		EN 772-16	≥ 20	≥ 20	
Initial rate of water absorption (Kg/(m <sup>2</sup> x min))		EN 772-11	≤ 4,5	≤ 4,5	
Characteristic normalized compressive strength (N/mm <sup>2</sup> )		EN 772-1	≥ 10,0	≥ 10,0	
Density	Net dry (Kg/m <sup>3</sup> )	EN 772-13	1.770		
	Gross dry (Kg/m <sup>3</sup> )		825		
	Tolerance (%)		D2	D2 (± 5%)	
Weight (g)		Annex D RP 34.14	Minimum value ensured: 8.450		
Durability (Freeze/thaw)		UNE 67028 EX	F0		
Thermal properties (Method)		EN 1745 (UNE 136021)	Finite Element Method according to UNE 136021		
λ <sub>piece</sub> (W/m x k)			According to Technical Report		
R <sub>wall</sub> (m <sup>2</sup> x k/w)			According to Technical Report		
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 performance	% organic materials ≤ 1 %	EN 13501-1	A1		
Bond strength (N/mm <sup>2</sup> )		Annex C EN 998-2	0,15		
Accessory units			YES		

Remarks:

Combined thickness declared corresponding at heat flow direction in the masonry

SPECIAL PIECES: Corners, Middle, Zunchos, Fitting Parts and Finishes.

"Thermal values of the uncoated wall and without considering surface resistance"

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