

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 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

AENOR INTERNACIONAL S.A.U.
Génova, 6. 28004 Madrid. España
Tel. 91 432 60 00.- www.aenor.com

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

P UNITS FOR PROTECTED MASONRY

TECHNICAL FORM: 1311402

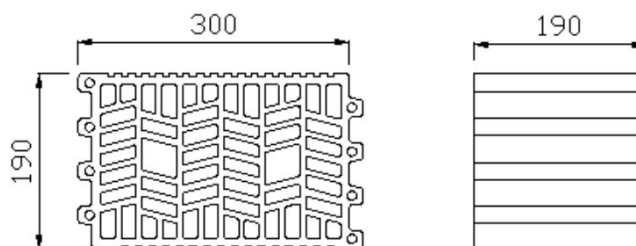
MANUFACTURER - MADE IN: CERANOR, S.A. - Valencia de Don Juan -LEÓN-
 PRODUCT DESCRIPTION: LIGHTENED (G3) P UNIT CAT I R-10,0 of 300 x 190 x 190
 DESIGNATION CODE: CL - P - I - 10 - 825(D2) - 300x190x190 - A - L0,280 - E(4,4,4) - N1770(D2) - G3 - FR55 - B0,15 - I≤4,5 - M≤0,5
 BRAND NAME: TERMOBRICK DE 19
 INTENDED USES: EXTERNAL/INTERNAL ELEMENTS WITH ACOUSTIC, THERMAL INSULATION AND FIRE REQUIREMENTS; STRUCTURAL MASONRY SUSTAINING; COMMON LAYER MORTAR

AENOR



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		
Chips in perforated faces with mean dimension < 15 mm						
Dimensional tolerances (mm)	Mean value	EN 772-16	T1	± 7	T1	± 7
				± 6		± 6
	Range			± 6		± 6
				± 10	R1	± 10
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: 50 - Máx: 60			
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	≥ 20,0	≥ 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	≥ 10,0		
Density	Gross dry (Kg/m³)	EN 772-13	1.770			
	Net dry (Kg/m³)		825			
	Tolerance (%)		D2	D1 (± 10%)		
Weight (g)		Annex D RP 34.14	Minimum value ensured: 8.450			
Durability (Freeze/thaw)		UNE 67028 EX	F0			
Thermal properties (Method)		Catalog CTE	Constructive Elements Catalog Value			
λpiece (W/m x k)			0,280			
Rwall (m² x k/w)			0,440			
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			
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

AENOR