

AENOR

AENOR Product Certificate Clay products for construction



034/001980

AENOR certifies that the organization

CERAMICA MALPESA, S.A.

registered office	AUTOVIA A-4, KM 303 23730 VILLANUEVA DE LA REINA (Jaen - 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	0830145 (see annex)
Production site	AUTOVIA A-4, KM 303 23730 VILLANUEVA DE LA REINA (Jaen - España)
Certification scheme	This Certificate has been granted in accordance with the stipulations of the Specific Rules RP 034.01
First issued on	2019-07-02
Validity date	2024-07-02

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

Rafael GARCÍA MEIRO
Chief Executive Officer

Original Electronic Certificate

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

U UNITS CATEGORY I FOR UNPROTECTED MASONRY

TECHNICAL FORM N°: 0830145

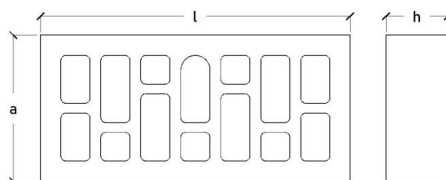
MANUFACTURER - MADE IN:	CERÁMICA MALPESA S.A. - VILLANUEVA DE LA REINA (JAÉN)
PRODUCT DESCRIPTION:	U CLAY UNIT (G2) R-25 OF 237 x 114 x 37-50-52-77
DESIGNATION CODE:	CL - U - I - 25 - 1100(D1) - 237x114x37-50-52-77 - C - L0,350 - T2 - R2 - E(3, 2) - N1770(D1) - G2 - FR38 - B0,15 - V5/10 - W≤6 - l≤0,6 - M≤0,6
BRAND NAME:	MALPESA WHITE, IBIZA WHITE
SURFACE COLOURS:	Applicable to models: MALPESA WHITE
MASS COLOURS:	WHITE

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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	UNE 67039 EX	≤ 1 piece with m.i.d between 7/15 mm	≤ 1 piece with m.i.d between 7/15 mm	
No pieces with chips upper to 25 mm					
Dimensional tolerances	Mean value	EN 772-16	T2	± 4	± 4
				± 3	± 3
	Range		R2	± 2, ± 2, ± 2, ± 2	± 2, ± 2, ± 2, ± 2
				± 5	± 5
Wall thickness (mm)	unprotected face shells	≥ 15,0	≥ 15,0		
	protected face shells	≥ 10,0	≥ 10,0		
	webs	≥ 5,0	≥ 5,0		
Plane parallelism of bed faces (mm)			N/A		
Flatness of bed faces (mm)	Diagonals	EN 772-20	N/A		
			I > 300 mm		
			300 ≥ I ≥ 250 mm		
Percentage of voids (%)	Stated value (%)	EN 772-3	38		
	Tolerance (%)		Min: 34 - Máx: 42		
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 ² x min))		EN 772-11	≤ 0,6		
Damp proof courses (%)		EN 772-7	N/A		
Characteristic normalized compressive strength (N/mm ²)		EN 772-1	≥ 25,0 Orientation loading: Bed	≥ 10,0	
Density	Gross dry (Kg/m ³)		1.770		
	Net dry (Kg/m ³)		1.100		
	Tolerance (%)		± 10		
Weight (g)	Reduction for density: YES	Annex D RP 34.01	Minimum value ensured: 1.015 - 1.350 - 1.400 - 2.050	Minimum value required: 985 - 1.335 - 1.385 - 2.050	
Efflorescences		UNE 67029 EX	No efflorescent	Slightly efflorescent	
Durability (Freeze/thaw)		UNE 67028 EX	F2 (25 cycles) Test carried out by cold store without ventilation		
Thermal properties (Method)		Catalog CTE	Constructive Elemens Catalog Value		
λ _{piece} (W/m x k)			0,35		
R _{wall} (m ² x k/w)			0,180 - 0,180 - 0,180 - 0,210		
Water vapour permeability - μ		Annex A EN 1745	5/10		
Content of active soluble salts		EN 772-5	S2		
Moisture movement (mm/m)		UNE 67036	≤ 0,60		
Fire reaction performance (% organic materials < 1%)		EN 13501-1	CLASS A1		
Bond strength (N/mm ²)		Annex C EN 998-2	≥ 0,15		
Accessory units		YES			
Remarks:					

Combined thickness declared corresponding at heat flow direction in the masonry
Different surface finishes are made (smooth, cork, rough, sandblasted, etc). They can be notched on one or both of the header and / or other types of perforations. Only platelets are certified as special pieces.

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