



AENOR Product Certificate



034/000966

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 0830111 (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 RP034.01

First issued on 2009-05-26

Last issued on 2022-06-27

Validity date 2027-06-27

Rafael GARCÍA MEIRO
Chief Executive Officer



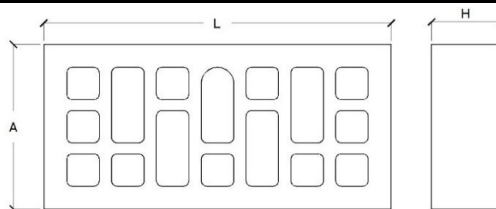
U UNITS CATEGORY I FOR UNPROTECTED MASONRY

TECHNICAL FORM N°: 0830111

MANUFACTURER - MADE IN:	CERÁMICA MALPESA S.A. - VILLANUEVA DE LA REINA (JAÉN), SPAIN
PRODUCT DESCRIPTION:	U CLAY UNIT (G2) R-30 OF 239 x 115 x 37-50-76
DESIGNATION CODE:	CL - U - I - 30 - 1150(D1) - 239x115x37-50-76 - C - L0,350 - T2 - R2 - E(3, 2) - N1950(D1) - G2 - FR41 - B0,15 - V5/10 - W≤6 - I≤0,6 - M≤0,5
BRAND NAME:	BAILEN RED, LEATHER
SURFACE COLOURS:	WITHOUT SURFACE COLOUR
MASS COLOURS:	BRIGHT RED AND BROWN



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		≤ 1 cracked piece	≤ 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	
			No pieces with chips upper to 15 mm		
Dimensional tolerances	Mean value	EN 772-16	T2	length (l)	± 4
				width (w)	± 3
				height (h)	± 2, ± 2, ± 2
	Range		R2	length (l)	± 5
				width (w)	± 3
				height (h)	± 2, ± 2, ± 3
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	l > 300 mm	N/A	
			300 ≥ l ≥ 250 mm	≤ 3	
			l ≤ 250 mm	≤ 2	
Percentage of voids (%)	Stated value (%)	EN 772-3	41	≤ 45	
	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 ² x min))		EN 772-11	Water absorption without water repellent treatment: ≤ 11%		
Damp proof courses (%)		EN 772-7	≤ 0,6		
Characteristic normalized compressive strength (N/mm ²)		EN 772-1	≥ 30,0	≥ 10,0	
Density	Net dry (Kg/m ³)	EN 772-13	Orientation loading: Bed		
	Gross dry (Kg/m ³)		1.950		
	Tolerance (%)		1.150		
Weight (g)	Reduction for density:	NO	Annex D.2 RP 34.01	Minimum value ensured:	
			1.065 - 1.450 - 2.180	Minimum value required:	
Efflorescences		UNE 136029	No efflorescent	Slightly efflorescent	
Durability (Freeze/thaw)		UNE 67028 EX	N/A		
		EN 722-22	N/A		
Thermal properties (Method)			F2		
			Constructive Elemens Catalog Value		
λ _{piece} (W/m x k)		Catalog CTE	0,35		
R _{wall} (m ² x k/w)			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	≤ 0,50		
Fire reaction performance (% organic materials < 1 %)		EN 13501-1	CLASS A1		
Bond strength (N/mm ²)		Annex C EN 998-2	≥ 0,15		
SURFACE COLOURS:		Annex D.3 RP 34.01	N/A		
Accessory units			YES		

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)

Remarks:

Combined thickness declared corresponding at heat flow direction in the masonry

Different surface finishes are made (smooth, cork, rough, sandfaced, etc). They may have a notch in one or both headers and/or other types of perforations. Only plaquettes are certified as special shaped bricks.