AENOR Product Certificate

034/001888

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)
N° Technical Form	0830134 (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	2015-02-06
Last issued on	2022-06-27
Validity date	2027-06-27

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Chief Executive Officer

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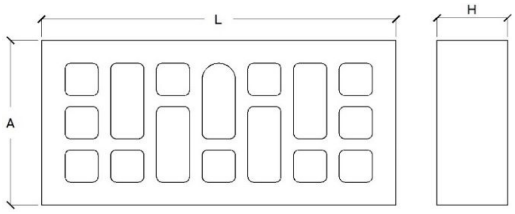
Product certification body accredited by ENAC, number 1/C-PR271

U UNITS CATEGORY I FOR UNPROTECTED MASONRY
TECHNICAL FORM Nº: 0830134

MANUFACTURER - MADE IN:	CERÁMICA MALPESA S.A. - VILLANUEVA DE LA REINA (JAÉN), SPAIN
PRODUCT DESCRIPTION:	U CLAY UNIT (G2) R-20 OF 239 x 115 x 37-50-75
DESIGNATION CODE:	CL - U - I - 20 - 1120(D1) - 239x115x37-50-75 - C - L0,350 - T2 - R2 - E(3, 2) - N1800(D1) - G2 - FR40 - B0,15 - V5/10 - W≤6 - l≤0,6 - M≤0,3
BRAND NAME:	SEVILLE SANTA JUSTA (GLAZED), SEVILLE SANTA JUSTA, CARTUJA, SALMON
SURFACE COLOURS:	Applicable to models: SEVILLE SANTA JUSTA (GLAZED)
MASS COLOURS:	SALMÓN

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		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 15 mm	
Dimensional tolerances	Mean value	lenght (l)	EN 772-16	T2: ± 4	T2: ± 4
		widht (w)		T2: ± 3	T2: ± 3
		height (h)		T2: ± 2, ± 2, ± 2	T2: ± 2, ± 2, ± 2
	Range	lenght (l)		R2: ± 5	R2: ± 5
		widht (w)		R2: ± 3	R2: ± 3
		height (h)		R2: ± 2, ± 2, ± 3	R2: ± 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	l > 300 mm	EN 772-20	N/A	N/A
		300 ≥ l ≥ 250 mm		≤ 3	≤ 3
		l ≤ 250 mm		≤ 2	≤ 2
Percentage of voids (%)		Stated value (%)	EN 772-3	40	≤ 45
		Tolerance (%)		Mín: 36 - Máx: 44	
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 Water absorption without water repellent treatment: ≤ 14%	
Initial rate of water absorption (Kg/(m² x min))			EN 772-11	≤ 0,6	
Damp proof courses (%)			EN 772-7	N/A	
Characteristic normalized compressive strength (N/mm²)			EN 772-1	≥ 20,0 Orientation loading: Bed	≥ 10,0
Density		Net dry (Kg/m³)	EN 772-13	1.800	
		Gross dry (Kg/m³)		1.120	
		Tolerance (%)		± 10	± 10
Weight (g)	Reduction for density:	YES	Annex D.2 RP 34.01	Minumum value ensured: 1.005 - 1.360 - 2.035	Minumun value required: 1.005 - 1.360 - 2.035
Efflorescences			UNE 136029	No efflorescent	Slightly efflorescent
Durability (Freeze/thaw)			UNE 67028 EX	F2 (25 cycles) Test carried out by cold store with forced ventilation	
			EN 722-22	N/A	
Thermal properties (Method)			Catalog CTE	Constructive Elemens Catalog Value	
λpiece (W/m x k)				0,35	
Rwall (m² 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	≤ 0,30	
Fire reaction perfomance	(% organic materials < 1 %)		EN 13501-1	CLASS A1	
Bond strength (N/mm²)			Annex C EN 998-2	≥ 0,15	
SURFACE COLOURS:			Annex D.3 RP 34.01	Applicable to models: SEVILLE SANTA JUSTA (GLAZED)	
Accessory units				YES	
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.

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)

Stamp and signature: