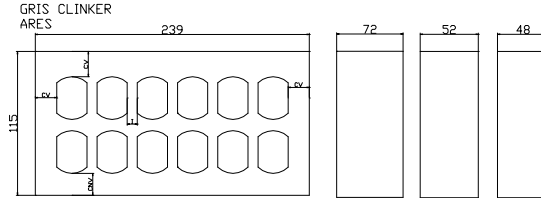


TECHNICAL FORM

MANUFACTURER **LADRILLOS MORA S.L**
 MADE IN: **ILLESCAS**
 PRODUCT DESCRIPTION: **HD CLINKER CLAY MASONRY R-40 239 x 115 x HEIGHT**
 HEIGHTS (mm): **72 -52 -48**
 BRAND NAME: **ARES ; GRIS CLINKER**
 MASS COLORATION: **NO**



PIECE SKETCH



TECHNICAL CHARACTERISTICS

Characteristic		Test method	Manufacturer ensured values	required values	
Appearance and structure	exfoliations / stratifications	Visual	None		
	cracked units		≤ 1 cracked piece	≤ 1 cracked piece	
	chip units		≤ 1 piece with d.l.m. between 7 and 15 mm 0 pieces with m.i.d. > 15 mm.	≤ 1 piece with d.l.m. between 7 and 15 mm	
Dimensional tolerances (mm)	Mean value	UNE-EN 772-16	T2	length (l)	± 4
				width (a)	± 3
				height (h)	0,25 x h½
	Range		R2	length (l)	± 5
				width (a)	± 3
				height (h)	0,3 x h½
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)			≤ 2,0		
Flatness of bed faces (mm)	Diagonals	UNE-EN 772-20	l > 300 mm	N/A	
			300 ≥ l ≥ 250 mm	≤ 3	
			l ≤ 250 mm	≤ 2	
Percentage of voids (%)	Declared value (%)	UNE-EN 772-3	≤ 45	≤ 45	
	Tolerance (%)		(- 10% ; + 0%)	(- 10% ; + 0%)	
Volume of the largest voids (%)		UNE-EN 772-9	≤ 12,5	≤ 12,5	
Combined thickness of webs and shells (%)		UNE-EN 772-16	≥ 20	≥ 20	
Water absorption in external elements (%)		Annex C UNE-EN 771-1	≤ 6	≤ 6	
Damp proof courses (%)		UNE-EN 772-7	N/A		
Initial rate of water absorption (Kg/(m² x min))		UNE-EN 772-11	≤ 0,8		
Characteristic normalized compressive strength (N/mm²)		UNE-EN 772-1	≥ 40,0 Bearing face: Bed	≥ 40,0	
Density	Gross dry (Kg/m³)	UNE-EN 772-13	2.200		
	Net dry (Kg/m³)		1.300		
	Tolerance (%)		± 10	± 10	
Weight (g)	Reduction for density	NO	Annex D RP 34.01	Minimum value ensured per height: 2.064-1.492-1.378	
Efflorescences		UNE 67029 EX	No efflorescence	Slightly efflorescence	
Durability (Freeze/thaw)		UNE 67028 EX	>100 cycles Test carried out in cold store with forced ventilation		
Thermal properties (Method)		Method CTE	Declared value from Method applied: fixed value		
λ piece (W/m x k)			0,36		
R wall (m² x k/w)			0,180 - 0,180 - 0,180		
Water vapour permeability - μ		Annex A UNE-EN 1745	50/100		
Content of active soluble salts		UNE-EN 772-5	S2		
Moisture movement (mm/m)		UNE 67036	≤ 0,50		
Fire reaction (% organic materials < 1 %)		UNE-EN 13501-1	CLASS A1		
Bond strength (N/mm²)		Annex C UNE-EN 998-2	≥ 0,30	≥ 0,3	
Surface colours		Annex D RP 34.01	The piece is manufactured with or without superficial coloration		
Water repellent treatment			NO		
Accessory units			YES		

Remarks
 Items will be manufactured with different surface coloration, comprising primary colours gamma and their possible combinations. Accessory units can be manufactured: rounds, corners, bricks, etc.

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)

Stamps and signature: