


## Declaration of Performance

DOP Ref. No.:	202501-DOP-LightweightThermalNon-loadbearing4.5"
Unique identification code of the product-type:	Lightweight Thermal Non-loadbearing 4.5"
Intended use:	In masonry walls, columns and partitions
Manufacturer:	R.A. & Sons Manufacturing Ltd Triq il-Gruwa Xewkija, Gozo Malta
System of AVCP:	System 2+
Harmonised standard:	EN 771-3:2011+A1:2015
Notified Body:	ABICert S.a.s. of Bianco Antonio & C. - NB 1982

### Declared performance:

Essential characteristics		Performance
Dimensions (1)	Length (mm)	459
	Width (mm)	115
	Height (mm)	255
	Tolerance category	D1
Configuration (1)	Shape and features	
	Group according to EN 1996-1-1 (EC6)	Group 2
Compressive strength (1)	Mean compressive strength (N/mm <sup>2</sup> )	5.0
	Direction of load	Perpendicular to bed faces
	Unit category	Category I
Dimensional stability (1)	Movement coefficient (mm/m)	0.12
	Moisture content (%)	1
Bond strength (1)	Shear bond strength (N/mm <sup>2</sup> )	0.15 (fixed value)
	Flexural bond strength	NPD
Reaction to fire (2)		A1 (Commission Decision 2000/605/EC)
Water absorption (3)		Not to be left exposed
Water vapour permeability (4)		5/15 (Tabulated value)
Direct airborne sound insulation (5)  (in end conditions)/ [Density and configuration]	Gross dry density (kg/m <sup>3</sup> )	850 - 1000
	Configuration; dimensions and tolerances	See configuration
Thermal resistance / [Density and configuration] (for units intended to be used in elements subject to thermal insulation requirements) (kg/m <sup>3</sup> )		850 - 1000
Durability against freeze / thaw		Not to be left exposed
Dangerous substances		NPD

- (1) for units intended to be used in elements subject to structural requirements  
 (2) for units intended to be used in element subject to fire requirements  
 (3) for units intended to be used in damp proof courses or in external elements with exposed face  
 (4) for units intended to be used in external elements  
 (5) for units to be used in elements subject to acoustic requirements

The performance of the product identified above is in conformity with the declared performance.

This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

The above declared performance and characteristics of the masonry unit as identified in this DOP are achieved after 28 calendar days from production date.

Signed for and on behalf of the manufacturer:

Aleandro Attard  
at  
R.A. & Sons Manufacturing Ltd  
Triq il-Gruwa  
Xewkija, Gozo  
Malta

Signature:   
Aleandro Attard

Date: 19/06/2025