



AIRCRETE THERMAL BLOCKS - DECLARATION OF PERFORMANCE

DOP Ref: Mannok Aircrete Standard - 140

1. Unique Identification code of Product type: 140mm Mannok Aircrete Thermal Blocks - Aircrete Standard Block (GPLM)
2. Type, Batch or Serial Number or any other Element allowing identification of the Product: See Point 1
3. Intended use or uses of the product, in accordance with the applicable harmonised technical specification: For use in the construction of load bearing and non-loadbearing solid internal and external walls, above and below the damp proof course and the inner and outer leaves of cavity walls
4. Name and registered address of manufacturer: Mannok Build Ltd, 187 Ballyconnell Rd, Derrylin, Co. Fermanagh, Northern Ireland, BT92 9GP
5. Where applicable, name and contact address of the authorised representative whose mandate covers tasks specified in Article 12(2): Not Applicable
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V: System 2+
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard: The notified product certification body, NSAI (Notified Body reference no. 0050) has performed the initial inspection of the manufacturing plant and of factory production control, the continuous surveillance, assessment and evaluation of factory production control before placing the product on the market under system 2+ and issued the certificate of constancy of performance.
8. Declared Performance: Refer to table attached
9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. The declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Essential Characteristics		Performance	Harmonised Technical Specification
Dimensions <i>mm</i>	Length	440	BS EN 771-4:2011+A1:2015
	Width	140	
	Height	215	
Configuration		Solid Group 1	
Dimensional Tolerances		GPLM	
Compressive Strength unit category		I	
Mean Compressive Strength N/mm^2		5.2	
Dimensional Stability (Shrinkage) mm/m		0.4	
Shear Bond Strength N/mm^2		0.15 (Annex C BS EN 998-2)	
Flexural Bond Strength N/mm^2		NPD	
Reaction to Fire		Euroclass A1	
Water Absorption $g/m^2s^{0.5}$		NPD	
Water Vapour Diffusion coefficient μ		5/10 (Tabulated values BS EN 1745)	
Durability against freeze thaw		NPD	
Gross Dry Density Kg/m^3		650	
Thermal Conductivity $W/m.k$		0.15 ($\lambda_{10,dry}$)	
Dangerous Substances		See footnote	
Note: Information on dangerous substances will only be given when and where required in the appropriate form. See Annex ZA.3 of BS EN 771-4:2011			

Liam McCaffrey, CEO
16th November 2020



13

187 Ballyconnell Road, Derrylin,
Co. Fermanagh, Northern Ireland, BT92 9GP
0050-CPR-0971

EN771-4:2011+A1:2015
5.2N 140mm AAC Block (Aircrete Standard Block)
Category 1 – 440mm, 140mm, 215mm

Dimensions	Declared Value	(L x W x H) 440mm, 140mm, 215mm
Dimensional Tolerances	Declared Category	GPLM
Configuration	Declared	Solid Group 1 unit to I.S EN 1996-1
Compressive Strength	Characteristic	5.2N/mm ²
Dimensional Stability Moisture Movement	Declared Value	0.4mm/m
Bond Strength Shear Bond Strength	Declared Value	0.15N/mm ² (I.S EN 998-2) (Tabulated Value)
Flexural Bond Strength	Declared Value	NPD
Reaction to Fire	Declared Class	Euroclass A1 (I.S EN 1996-1-2 Annex A) (Tabulated Value)
Water Absorption	Declared Value	NPD
Water Vapour Permeability	Declared Value	5/10μ (I.S EN 1745 Annex A) (Tabulated Value)
Direct Airborne Sound Insulation Gross Dry Density Configuration	Declared Declared	650 kg/m ³
Thermal Conductivity	Declared Value	0.15 W/mK (λ ₁₀ , dry Mat)(I.S. EN 1745 Annex A) (Tabulated Value)
Durability against Freeze Thaw	Declared	NPD (Not left to be exposed)
Dangerous Substances	Declared	Information on dangerous substances will only be given when and where required in the appropriate form. See annex ZA.3 of BS EN 771-4:2011

