



## AIRCRETE THERMAL BLOCKS - DECLARATION OF PERFORMANCE

**DOP Ref:** Mannok Aircrete Standard - 150

1. Unique Identification code of Product type: 150mm 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  | 150                                |                                    |
|  | 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 $\mu$   |        | 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



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187 Ballyconnell Road, Derrylin,  
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0050-CPR-0971

EN771-4:2011+A1:2015  
5.2N 150mm AAC Block (Aircrete Standard Block)  
Category 1 – 440mm, 150mm, 215mm

|   |                      |  |
|---|----------------------|--|
| <b>Dimensions</b>   | Declared Value       | (L x W x H) 440mm, 150mm, 215mm  |
| <b>Dimensional Tolerances</b>   | Declared Category    | GPLM   |
| <b>Configuration</b>  | Declared             | Solid Group 1 unit to I.S EN 1996-1  |
| <b>Compressive Strength</b>   | Characteristic       | 5.2N/mm <sup>2</sup>   |
| <b>Dimensional Stability</b><br>Moisture Movement                             | Declared Value       | 0.4mm/m  |
| <b>Bond Strength</b><br>Shear Bond Strength                                   | Declared Value       | 0.15N/mm <sup>2</sup> (I.S EN 998-2) (Tabulated Value)   |
| Flexural Bond Strength  | Declared Value       | NPD  |
| <b>Reaction to Fire</b>   | Declared Class       | Euroclass A1 (I.S EN 1996-1-2 Annex A) (Tabulated Value)   |
| <b>Water Absorption</b>   | Declared Value       | NPD  |
| <b>Water Vapour Permeability</b>  | Declared Value       | 5/10 $\mu$ (I.S EN 1745 Annex A) (Tabulated Value)   |
| <b>Direct Airborne Sound Insulation</b><br>Gross Dry Density<br>Configuration | Declared<br>Declared | 650 kg/m <sup>3</sup>  |
| <b>Thermal Conductivity</b>   | Declared Value       | 0.15 W/mK ( $\lambda_{10}$ , dry Mat)(I.S. EN 1745 Annex A) (Tabulated Value)  |
| <b>Durability against Freeze Thaw</b>   | Declared             | NPD (Not left to be exposed)   |
| <b>Dangerous Substances</b>   | 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 |

