



EPS INSULATION - DECLARATION OF PERFORMANCE

DOP Number: 004/013

Designation Code: EPS-EN 13163- T2-W2-L2-DS(70,90)1-CS(10)70-100

1. Unique Identification code of Product type

Mannok – EPS Insulation (Expanded Polystyrene)

2. Type, Batch or Serial Number or any other Element allowing identification of the Product

EPS Pearl 70 & EPS Pearl 100

3. Intended use or uses of the product, in accordance with the applicable harmonized technical specification

EPS (Expanded Polystyrene) Thermal Insulation Board for the construction Industry

4. Name and registered address of manufacturer

Mannok EPS Insulation (A division of Mannok Cement Ltd)
Rathcronan, Granard
Co. Longford, Ireland

5. System or systems and verification of constancy of performance of the product as set out in AVCP System 3

6. Covered by harmonised standard

EN 13163

7. Name and address of the notified bodies determining product-type on the basis of type testing

Exova Warrington Fire, Holmesfield Road,
Warrington, WA1 2DS, UK
Notified body no. 0832

British Board of Agrément,
PO Box 195, Bucknalls Lane,
Garston, Herts WD2598A, UK
Notified body no. 0836

LGAI Tech centre S.A./ Applus
Campus UAB, Apto Correos 08193
Bellaterra, Spain
Notified body no. 0370

8. In case of the Declaration of Performance concerning a construction product for which a European Technical Assessment has been issued

Not applicable



9. Declared Performances

| Essential Characteristic | Performance | | Harmonised Technical Specification |
|---|--|--|---|
| Reaction to Fire | Euro Class E | | Thickness dependent EN 13501-1 |
| Thermal Resistance | RD ((m ² .K)/W) | | d ^N 25mm = 0.80645 d ^N 50mm = 1.61290 d ^N 70 mm = 2.2580 d ^N 100 mm = 3.2258 d ^N 130 mm = 4.1935 d ^N 150 mm = 4.8387 d ^N 170 mm = 5.4838 d ^N 200 mm = 6.4516 EN 12939 |
| Thermal Conductivity | W/mK | | 0.031 EN12667 |
| Compressive Strength | kPa | | CS (10\Y) 70 - 100 EN826 |
| Water Permeability | | | Wlt (Vol%) 3.225 Wlp(Kgm-2)0.1 EN12087 |
| Length & Width | mm | 1200 x 600 1800 x 1200 2400 x 1200 | L2&W2: (± 2mm, ± 2mm) EN822 |
| Thickness | d ^N | | T2: (± 2mm) EN 823 |
| Squareness | mm/m | | S2 (±2mm/1000mm) EN824 |
| Flatness | mm | | P3 (±10mm) EN825 |
| Release of Dangerous substances | No harmonised test method available | | |
| Bending Strength | Kpa | | ≥70 & ≥ 100 EN 12089 |
| Tensile Strength Perpendicular to Faces | No performance declared. | | EN1607 |
| Durability of reaction to fire against heat, weathering, aging/ degradation | Reaction to Fire does not change over time | | |
| Dimensional stability under specified temperature and humidity conditions | DS(N)2 (±0.2), DS (70,90)1 (±2%) | | EN1604 |

EN 13163

10. The performance of the product identified in points 1 & 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4. Name and position held by the person empowered to sign the declaration on behalf of the manufacturer.

Liam McCaffrey CEO
16th November 2020