

DECLARATION OF PERFORMANCE

No: HYTHERM ADH Insulation 1.0 EN

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| 1 Identification Code | HYTHERM ADH Insulation |
| 2 Batch number allowing identification of the construction product | Refer to the product label |
| 3 Intended use | Thermal Insulation for Buildings |
| 4 Manufacturer | Axter Ltd West Road, Ransomes Europark IPSWICH, Suffolk IP3 9SX www.axter.co.uk/dop |
| 5 Authorised representative | Not applicable. |
| 6 System of assessment and verification of constancy of performance of the product | AVCP 3 |
| 7 Product covered by the harmonized standard | EN 13165:2012 Notified Testing Laboratory no. NB 0836 & NB 1136 performed the test reports on the declared characteristics under system AVCP 3. |
| 8 European Technical Assessment | Not applicable. |
| 9 Declared performance | |

| Essential characteristic | Performance (NPD (No Performance Determined) indicates no performance is declared) | | Harmonised technical specification |
|----------------------------------|--|---|------------------------------------|
| Reaction to fire | Reaction to fire | F | EN 13823 EN 13501-1 |
| Reaction to fire – end use | Reaction to fire – end use | NPD | |
| Thermal resistance | Thermal resistance (R_D in m^2K/W) | 1.15 for d_N 30mm 3.00 for d_N 79mm 3.20 for d_N 80mm 4.75 for d_N 119mm 5.00 for d_N 120mm 6.65 for d_N 160mm | EN 12667 EN 12939 |
| | Thermal conductivity (λ_D in W/mK) | 0.026 for d_N 30-79mm 0.025 for d_N 80-119mm 0.024 for d_N 120-160mm | |
| Thickness | d_N : 30-160mm, T2 | | EN 13165:2012 |
| Length and width | < 1000mm | ± 5mm | |
| | 1001 to 2000 mm | ± 7.5 mm | |
| | 2001 to 4000 mm | ± 10mm | |
| | > 4000 mm | ± 15 mm | |
| Squareness | ≤ 5mm/m | | |
| Flatness | Length: Area ≤ 0.75m ² : Area > 0.75m ² | ≤ 2.50mm Deviation ≤ 5mm Deviation ≤ 10mm | |
| Compressive strength | CS(10Y)150 | | |
| Tensile strength/shear behaviour | Tensile strength perpendicular to faces | TR80 | |
| | Shear strength | NPD | |
| | Shear modulus | NPD | |
| Water vapour permeability | Water vapour transmission | NPD | EN ISO 10456 Tabulated value |



| Essential characteristic | Performance | | Harmonised technical specification | |
|---|---|---|------------------------------------|---|
| Water permeability | Water absorption -short term by partial immersion -long term by partial immersion -long term by total immersion Flatness after one-sided wetting | NPD NPD WL(T)2 NPD | EN 13165:2012 | EN 1609 EN 12087 EN 12087 |
| Acoustic absorption index | Sound absorption | NPD | | |
| Direct airborne sound insulation index | Sound absorption | NPD | | |
| Continuous glowing combustion | No harmonized test method available | | | |
| Release of dangerous substances to the indoor environment | No harmonized test method available | | | |
| Durability of reaction to fire against heat, weathering, ageing/degradation | Reaction to fire does not change with time | | | |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Dimensional stability under specified temperature and humidity conditions Deformation under specified compressive load and temperature conditions Ageing method | DS(70,90)3 DS (-20,-)1 DLT(2)5 C.4 | | EN 1604 EN 1605 Annex C/EN 13165:2012 |
| Durability of compressive strength against ageing and degradation | Compressive creep | NPD | | |

- 10 The performance of the product identified in points 1 and 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.

Signed for and on behalf of the manufacturer by:

Phillip Wilcox-Moore (Managing Director)

Ipswich - July 1, 2013