

## DECLARATION OF PERFORMANCE

No: HYTHERM FM 1.0 EN

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

Essential characteristic	Performance (NPD (No Performance Determined) indicates no performance is declared)		Harmonised technical specification
Reaction to fire	Reaction to fire	F	EN 13165:2012
Reaction to fire – end use	Reaction to fire – end use	NPD	
Thermal resistance	Thermal resistance ( $R_D$ in $m^2K/W$ )	1.35 for $d_N$ 30mm 7.25 for $d_N$ 160mm	
	Thermal conductivity ( $\lambda_D$ in $W/mK$ )	0.022	
Thickness	$d_N$ : 30-160mm, T2		
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 <sup>2</sup> : Area > 0.75m <sup>2</sup>	≤ 2.50mm Deviation ≤ 5mm Deviation ≤ 10mm	
Compressive strength	CS(10Y)150		
Tensile strength/shear behaviour	Tensile strength perpendicular to faces	NPD	
	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 NPD NPD	<b>EN 13165:2012</b>	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	NPD NPD 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