

## Declaration of Performance

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**Reference : SWP DOC 002-20 Rev 1**

**Date of Validity : 12th June 2025**

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Unique identification code of the product-type	Superwool Plus
Intended use	Thermal insulation for buildings
Manufacturer Name and contact details of the manufacturer:	
Placed on the market by	
Morgan Advanced Materials – Thermal Ceramics Tebay Rd. Bromborough CH62 3PH U.K.	
And manufactured at:	
Morgan Advanced Materials Thermal Ceramics Zone industrielle Les Plantées, 42680, Saint Marcellin en Forez, France	
<a href="http://www.morganthermalceramics.com">www.morganthermalceramics.com</a>	
Harmonised standard	Not applicable
Notified body/ies	Not applicable

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

DURABILITY OF FIRE AND THERMAL PROPERTIES	
Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation	The fire performance of Superwool AES fibre does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.
Durability of Thermal Resistance Against Heat, Weathering, Ageing/Degradation	Thermal conductivity of Superwool AES products does not change with time, experience has shown the fibre structure to be stable, and the porosity contains no other gases than atmospheric air.

#### Declared Performance

PROPERTY VALUE	APPLICABLE STANDARD
REACTION TO FIRE	
Reaction to Fire, Euroclass A1	EN 13501-1 :07
Continuous Glowing Combustion NPD	EN 13501-1 :07
THERMAL RESISTANCE	
Thermal resistance (nominal based on 96kg/m <sup>3</sup> ) 1.2 m <sup>2</sup> K/W	EN 12667
Thermal Conductivity $\lambda_D$ See table below	ASTM C201
Thickness Tolerance, See table below	EN 1094-1
Width Tolerance 1220mm rolls	-0mm + 15mm
610mm rolls	-0mm + 10mm
WATER VAPOUR PERMEABILITY	
Water Vapour resistance 1.55 mg/m <sup>2</sup> *h*Pa	EN 12086 : 2013
TENSILE/FLEXURAL STRENGTH	
Tensile Strength 96kg/m <sup>3</sup> = 50kPa	EN 1094
128kg/m <sup>3</sup> = 75kPa	
160kg/m <sup>3</sup> = 90kPa	
Properties	
Classification temperature 1200°C	
Continuous use temperature 1050°C	

Thermal conductivity			
Density kg/m <sup>3</sup>	96 kg/m <sup>3</sup>	128 kg/m <sup>3</sup>	160 kg/m <sup>3</sup>
200°C	0.05 W/m <sup>°K</sup>	0.05 W/m <sup>°K</sup>	0.04 W/m <sup>°K</sup>
400°C	0.09 W/m <sup>°K</sup>	0.08 W/m <sup>°K</sup>	0.07 W/m <sup>°K</sup>
600°C	0.14 W/m <sup>°K</sup>	0.12 W/m <sup>°K</sup>	0.11 W/m <sup>°K</sup>
800°C	0.21 W/m <sup>°K</sup>	0.18 W/m <sup>°K</sup>	0.16 W/m <sup>°K</sup>
1000°C	0.30 W/m <sup>°K</sup>	0.25 W/m <sup>°K</sup>	0.23 W/m <sup>°K</sup>

Thickness tolerance (Nominal)			
Density	96kg/m <sup>3</sup>	128kg/m <sup>3</sup>	160kg/m <sup>3</sup>
Tolerance	-4mm + 6mm	-3mm + 6mm	-3mm + 6mm
Tolerance on thickness is relative to actual product thickness; tolerance is reduced as the material thickness is reduced			

Signed for and on behalf of the manufacturer by:



Morgan Thermal Ceramics  
Ian Holt Global Applications Manager PFP