

# Declaration of Performance

## T4305HPCPR

1. Unique identification code of the product-type:  
Thermo-teK LM Pro ALU, Power-teK LM 450 ALU, Power-teK CM 450 ALU
2. Intended use or uses:  
Thermal Insulation products for building equipment and industrial installations
3. Manufacturer:  
Knauf Insulation d.o.o.  
Varaždinska 140, 42220 Novi Marof  
Croatia  
www.knaufinsulation.com - dop@knaufinsulation.com
4. Authorised representative:  
Not applicable
5. System or systems of assessment and verification of constancy of performance:  
AVCP System 1 for Reaction to Fire  
AVCP System 3 for the other characteristics
- 6a. Harmonized Standard:  
EN 14303:2009 + A1:2013  
  
Notified body or bodies:  
AVCP System 1: (Notified certification body) 0751 - Forschungsinstitut für Wärmeschutz e. V. München  
FIW München - - -  
  
AVCP System 3: (Notified testing laboratory) 0751 - Forschungsinstitut für Wärmeschutz e. V. München  
FIW München - - - - - - - -
- 6b. European Assessment document: not applicable  
European Technical Assessment: not applicable  
Technical Assessment Body: not applicable  
Notified body/ies: not applicable
7. Declared Performances:  
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Essential Characteristics	T4305HPCPR		Harmonised Technical Standard
	Performance	Power-teK CM 450 ALU	
Reaction to fire	Reaction to fire	A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	NPD	
Water Permeability	Water Absorption	WS1	
Water Vapour Permeability	Water Vapour Diffusion Resistance	MV2	
Compressive Strength	Compressive Stress or Compressive Strength for Flat Products	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble ions and the pH-value	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Substances	NPD	
Continuous glowing combustion	Continuous glowing combustion	NPD	
Durability of reaction to fire against ageing / degradation	Durability characteristics	NPD {b}	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity	NPD {c}	
	Dimensional Stability	NPD	
	Maximum service temperature - dimensional stability	450°C	
	Durability characteristics	NPD	
Durability of reaction to fire against high temperature	Durability characteristics	NPD {d}	
Durability of thermal resistance against high temperature	Durability Characteristics	NPD {c}	
	Maximum service temperature - dimensional stability	450°C	
Thermal Resistance	Dimensions & Tolerances		80 - 120 / T3
	Thermal conductivity (W/mk) at Temperature in °C	50	0,044
		100	0,054
		150	0,067
		200	0,083
		250	0,104
		300	0,130
		400	0,202
		450	0,250
NPD	NPD		
NPD - No performance determined			

Essential Characteristics	T4305HPCPR		Harmonised Technical Standard	
	Performance	Power-teK LM 450 ALU		
Reaction to fire	Reaction to fire	20 - 29 mm : A2-s1, d0 30 - 120 mm : A1	EN 14303:2009 + A1:2013	
Acoustic Absorption Index	Sound Absorption	NPD		
Water Permeability	Water Absorption	WS1		
Water Vapour Permeability	Water Vapour Diffusion Resistance	MV2		
Compressive Strength	Compressive Stress or Compressive Strength for Flat Products	NPD		
Rate of release of corrosive substances	Trace quantities of water-soluble ions and the pH-value	CL10		
Release of Dangerous Substances to the indoor environment	Release of Dangerous Substances	NPD		
Continuous glowing combustion	Continuous glowing combustion	NPD		
Durability of reaction to fire against ageing / degradation	Durability characteristics	NPD {b}		
Durability of thermal resistance against ageing/degradation	Thermal Conductivity	NPD {c}		
	Dimensional Stability	NPD		
	Maximum service temperature - dimensional stability	450°C		
	Durability characteristics	NPD		
Durability of reaction to fire against high temperature	Durability characteristics	NPD {d}		
Durability of thermal resistance against high temperature	Durability Characteristics	NPD {c}		
	Maximum service temperature - dimensional stability	450°C		
Thermal Resistance	Dimensions & Tolerances		20 - 120 / T4	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,044	
		100	0,054	
		150	0,067	
		200	0,083	
		250	0,104	
		300	0,130	
		400	0,202	
		450	0,250	
NPD	NPD			
NPD - No performance determined				

Essential Characteristics	T4305HPCPR		Harmonised Technical Standard	
	Performance	Thermo-teK LM Pro ALU		
Reaction to fire	Reaction to fire	20 - 29 mm : A2-s1, d0 30 - 120 mm : A1	EN 14303:2009 + A1:2013	
Acoustic Absorption Index	Sound Absorption	NPD		
Water Permeability	Water Absorption	WS1		
Water Vapour Permeability	Water Vapour Diffusion Resistance	MV2		
Compressive Strength	Compressive Stress or Compressive Strength for Flat Products	NPD		
Rate of release of corrosive substances	Trace quantities of water-soluble ions and the pH-value	CL10		
Release of Dangerous Substances to the indoor environment	Release of Dangerous Substances	NPD		
Continuous glowing combustion	Continuous glowing combustion	NPD		
Durability of reaction to fire against ageing / degradation	Durability characteristics	NPD {b}		
Durability of thermal resistance against ageing/degradation	Thermal Conductivity	NPD {c}		
	Dimensional Stability	NPD		
	Maximum service temperature - dimensional stability	250°C		
	Durability characteristics	NPD		
Durability of reaction to fire against high temperature	Durability characteristics	NPD {d}		
Durability of thermal resistance against high temperature	Durability Characteristics	NPD {c}		
	Maximum service temperature - dimensional stability	250°C		
Thermal Resistance	Dimensions & Tolerances		20 - 120 / T4	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,044	
		100	0,054	
		150	0,067	
		200	0,083	
		250	0,104	
		NPD	NPD	
		NPD	NPD	
		NPD	NPD	
NPD	NPD			

NPD - No performance determined

8. Appropriate Technical Documentation and / or Specific Technical Documentation:

Not applicable

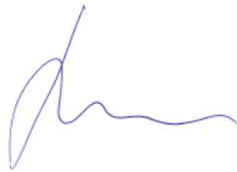
The performance of the product identified above is in conformity with the set of declared performances.

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

Signed for an on behalf of the manufacturer by:

Stjepan Mršić - Plant manager

(Name and function)



Novi Marof - 14-Oct-22

(Place and date of issue)

Footnotes

{a} The requirement on a certain characteristic is not applicable in those Member States (MSs) where there are no regulatory requirements on that characteristic for the intended use of the product. In this case, manufacturers placing their products on the market of these MSs are not obliged to determine nor declare the performance of their products with regard to this characteristic and the option 'No performance determined' (NPD) in the information accompanying the CE marking (see ZS.3) may be used. The NPD option may not be used, however, where the characteristic is subject to a threshold level (thermal resistance (thermal conductivity and thickness)).

{b} The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of the product is related to the organic contents, which cannot increase with time.

{c} Thermal conductivity of mineral wool 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.

{d} The fire performance of mineral wool does not deteriorate with high temperature. The Euroclass classification of the product is related to the organic content, which remains constant or decreases with high temperature.