

Declaration of Performance



T4305ARCPR

1. Unique identification code of the product-type:
Thermo-teK BD 040, Thermo-teK BD 040 ALU, Thermo-teK BD 040 VWS, Thermo-teK BD 040 VBS, Thermo-teK BD 040 WBS
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 Internal measurements for mechanical and thermal properties
- 6a. Harmonized Standard:
EN 14303:2009 + A1:2013

Notified body or bodies:
AVCP System 1: Forschungsinstitut für Wärmeschutz e. V. München FIW München (Notified certification body No. 0751)
- 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	T4305ARCPR			Harmonised Technical Standard
	Performance		Thermo-teK BD 040	
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		NPD	
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		30 - 255 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	10	0,036	
		40	0,040	
		50	0,042	
		100	0,052	
		150	0,065	
		200	0,081	
		250	0,100	
		NPD	NPD	
		NPD	NPD	
NPD - No performance determined				

Essential Characteristics	T4305ARCPR			Harmonised Technical Standard
	Performance		Thermo-teK BD 040 ALU	
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	
Water Permeability	Water Absorption		WS1	
Water Vapour Permeability	Water Vapour Diffusion Resistance		MV1	
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		45 - 255 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	10	0,036	
		40	0,040	
		50	0,042	
		100	0,052	
		150	0,065	
		200	0,081	
		250	0,100	
		NPD	NPD	
		NPD	NPD	
NPD - No performance determined				

Essential Characteristics	T4305ARCPR			Harmonised Technical Standard
	Performance		Thermo-teK BD 040 VBS	
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	
Water Permeability	Water Absorption		WS1	
Water Vapour Permeability	Water Vapour Diffusion Resistance		NPD	
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		45 - 255 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	10	0,036	
		40	0,040	
		50	0,042	
		100	0,052	
		150	0,065	
		200	0,081	
		250	0,100	
		NPD	NPD	
		NPD	NPD	
NPD - No performance determined				

Essential Characteristics	T4305ARCPR			Harmonised Technical Standard
	Performance		Thermo-teK BD 040 VWS	
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	
Water Permeability	Water Absorption		WS1	
Water Vapour Permeability	Water Vapour Diffusion Resistance		NPD	
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		45 - 255 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	10	0,036	
		40	0,040	
		50	0,042	
		100	0,052	
		150	0,065	
		200	0,081	
		250	0,100	
		NPD	NPD	
		NPD	NPD	
NPD - No performance determined				

Essential Characteristics	T4305ARCPR			Harmonised Technical Standard
	Performance		Thermo-teK BD 040 WBS	
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		NPD	
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		45 - 255 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	10	0,036	
		40	0,040	
		50	0,042	
		100	0,052	
		150	0,065	
		200	0,081	
		250	0,100	
		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 - 23-01-19

(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.