Declaration of Performance



T4305APCPR

1. Unique identification code of the product-type:

Thermo-teK BD 030, Thermo-teK BD 030 ALU, Thermo-teK BD 035, Thermo-teK BD 035 ALU, Thermo-teK BD 035 VWS, Thermo-teK BD 035 VBS, Thermo-teK BD 035 WBS

2. <u>Intended use or uses:</u>

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. <u>Authorised representative:</u>

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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T4305APCPR Thermo-teK BD 030



Essential Characteristics	T4305APCPR			Harmonised Technical
	Performance		Thermo-teK BD 030	Standard
Reaction to fire	Reaction to fire		A1 EN 14303:2 A1:20	
Acoustic Absorption Index	Sound Absorption	1	NPD	_
Water Permeability	Water Absorption	1	WS1	-
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	NPD	-
Compressive Strength	Compressive Stress or Compressi Flat Products	ve Strength for	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	_
D. Lilli, Col. L.			100 ()	_
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	_
	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	Durability Characteris	tics	NPD {c}	_
temperature	Maximum service temperature stability		250°C	_
Thermal Resistance	Dimensions & Tolerances		40 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	-
		50	0,046	-
		100	0,059	-
		150	0,075	-
		200	0,096	-
		250	0,123	-
		NPD	NPD	-
		NPD	NPD	-
	NPD - No performance	e determined		

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T4305APCPR Thermo-teK BD 030 ALU



Essential Characteristics	T4305APCPR			Harmonised Technica Standard
	Performance Thermo-teK BD 030 ALU			Standard
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 Re		MV1	
Compressive Strength	Compressive Stress or Compressi		NPD	
	Flat Products			
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	-
Durability of thermal resistance against	Thermal Conductivity		NPD {c}	
ageing/degradation	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	Durability Characteristics		NPD {c}	
temperature	Maximum service temperature - dimensional stability		250°C	
Thermal Resistance	Dimensions & Tolerances		60 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,038	1
	Temperature in °C	40	0,044	1
		50	0,046	1
		100	0,059	1
		150	0,075	1
		200	0,096	1
		250	0,123	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performance	e determined		

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T4305APCPR Thermo-teK BD 035



Essential Characteristics		Harmonised Technical		
	Performance		Thermo-teK BD 035	Standard
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 Re	esistance	NPD	-
Compressive Strength	Compressive Stress or Compressi Flat Products	ive Strength for	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	
			NDD ()	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	_
	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	Durability Characteristics		NPD {c}	_
temperature	Maximum service temperature stability		250°C	_
Thermal Resistance	Dimensions & Tolerances		40 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	-
		50	0,046	-
		100	0,059	-
		150	0,075	-
		200	0,096	-
		250	0,123	-
		NPD	NPD	-
		NPD	NPD	
	NPD - No performance	e determined		-

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T4305APCPR Thermo-teK BD 035 ALU



Essential Characteristics	T4305APCPR			Harmonised Technical
	Performance		Thermo-teK BD 035 ALU	Standard
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	1	NPD	
Water Permeability	Water Absorption	1	WS1	-
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	MV1	1
Compressive Strength	Compressive Stress or Compressi Flat Products	ive Strength for	NPD	-
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	-
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	-
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	-
Durability of thermal resistance against	Thousand Conductivity		NDD (a)	
ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature - dimensional stability		250°C	
Durability characte		stics	NPD	
Durability of reaction to fire against high temperature	Durability characteristics		NPD {d}	
Durability of thermal resistance against high	Durability Characteristics		NPD {c}	
temperature	Maximum service temperature stability		250°C	_
Thermal Resistance	Dimensions & Tolerances		55 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	1
		50	0,046	-
		100	0,059	1
		150	0,075	1
		200	0,096	1
		250	0,123	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performance	e determined		

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T4305APCPR Thermo-teK BD 035 VBS



Essential Characteristics	T4305APCPR			Harmonised Technical
	Performance		Thermo-teK BD 035 VBS	Standard
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	1	NPD	
Water Permeability	Water Absorption	1	WS1	1
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	NPD	1
Compressive Strength	Compressive Stress or Compressi Flat Products	ive Strength for	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	-
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	-
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	
Durability of thermal resistance against	The world Good at 12		NDD (c)	-
ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature - dimensional stability		250°C	-
Durability characteristics		stics	NPD	
Durability of reaction to fire against high temperature	Durability characteristics		NPD {d}	
Durability of thermal resistance against high	Durability Characteristics		NPD {c}	-
temperature	Maximum service temperature stability		250°C	-
Thermal Resistance	Dimensions & Tolerances		55 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	-
		50	0,046	-
		100	0,059	1
		150	0,075	-
		200	0,096	-
		250	0,123	-
		NPD	NPD	-
		NPD	NPD	1
	NPD - No performance	e determined		<u> </u>

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T4305APCPR Thermo-tek BD 035 VWS



Essential Characteristics	T4305APCPR			Harmonised Technical
	Performance		Thermo-teK BD 035 VWS	Standard
Reaction to fire	Reaction to fire		A2 - s1, d0	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	Sound Absorption		
Water Permeability	Water Absorption		WS1	
Water Vapour Permeability	Water Vapour Diffusion Re		NPD	
Compressive Strength	Compressive Stress or Compressi Flat Products	ve Strength for	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	-
Description of the condensated and			NDD (-)	_
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature - dimensional stability		250°C	_
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteristics Durability Characteristics		NPD {d}	
Durability of thermal resistance against high			NPD {c}	
temperature	Maximum service temperature stability		250°C	
Thermal Resistance	Dimensions & Tolerances		55 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	-
		50	0,046	-
		100	0,059	-
		150	0,075	-
		200	0,096	-
		250	0,123	-
		NPD	NPD	-
		NPD	NPD	1
	NPD - No performance	e determined		

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T4305APCPR Thermo-teK BD 035 WBS



Essential Characteristics	T4305APCPR			Harmonised Technical
	Performance		Thermo-teK BD 035 WBS	Standard
Reaction to fire	Reaction to fire		,	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Constable and Co			-
<u> </u>	Sound Absorption		NPD W61	
Water Vaneur Permeability	Water Vapour Diffusion Bu		WS1	
Water Vapour Permeability	Water Vapour Diffusion Re		NPD	
Compressive Strength	Compressive Stress or Compressive Flat Products	ve Strength for	NPD	
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteristics		NPD {b}	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	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	Durability Characteristics		NPD {c}	-
temperature	Maximum service temperature stability		250°C	
Thermal Resistance	Dimensions & Tolerances		55 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,038	-
	Temperature in °C	40	0,044	-
		50	0,046	-
		100	0,059	-
		150	0,075	-
		200	0,096	-
		250	0,123	-
		NPD	NPD	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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8. <u>Appropriate Technical Documentation and / or Specific Technical Documentation:</u>

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 Stats (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.

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