Declaration of Performance



T4305EPCPR

1 <u>Unique identification code of the product-type:</u>

Power-tek WM 640 GGN, Power-tek WM 640 GSN, Power-tek WM 640 SSN, Power-tek WM 640 GGA, Power-tek WM 640 GSA, Power-tek WM 640 SSA, Power-tek FM 080, Power-tek FM 080 ALU, Fire-tek WM 908 GGA, Fire-tek WM 908 GGN, Power-tek WM 640 GGV

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 <u>Declared Performances:</u>

See next page

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T4305EPCPR Fire-teK WM 908 GGA



Essential Characteristics		T4305EPCPR		
	Performance		Fire-teK WM 908 GGA	Standard
Reaction to fire	Reaction to fire		A1	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	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-	CL 10	-
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		NDD (c)	_
ageing/degradation	Dimensional Stability		NPD {c}	_
	Maximum service temperature - dimensional stability		NPD	-
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	rtics	NPD {c}	_
temperature	Maximum service temperature		NPD	_
	stability			
Thermal Resistance	Dimensions & Tolerar	nces	60 - 80 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	1
	Temperature in °C	100	0,046	1
		200	0,062	1
		300	0,084	1
		400	0,112	1
		500	0,146	
		600	0,190	1
		640	0,211	1
		NPD	NPD	1
	NPD - No performance	e determined		

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T4305EPCPR Fire-teK WM 908 GGN



Essential Characteristics	T4305EPCPR			Harmonised Technical
	Performance		Fire-teK WM 908 GGN	Standard
Reaction to fire	Reaction to fire		A1	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	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-	CL 10	-
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		NDD (-)	_
ageing/degradation	Dimensional Stability		NPD {c}	_
	Maximum service temperature - dimensional stability		NPD	-
	Durability characteristics		NPD	_
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thornal recistance against high	Durahility Charactari	ntine.	NPD {c}	
Durability of thermal resistance against high temperature	Durability Characteris Maximum service temperature		NPD {C}	_
	stability	umensional	Wib	
Thermal Resistance	Dimensions & Tolerar	nces	60 - 80 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	1
	Temperature in °C	100	0,046	1
		200	0,062	1
		300	0,084	1
		400	0,112	1
		500	0,146	1
		600	0,190	1
		640	0,211	1
		NPD	NPD	1
	NPD - No performance	e determined		

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T4305EPCPR Power-tek FM 080



Essential Characteristics	T4305EPCPR			Harmonised Technical
	Performance		Power-teK FM 080	Standard
Reaction to fire	Reaction to fire		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	1	NPD	-
Water Permeability	Water Absorption		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-	CL 10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	ostances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	7
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		640 °C	_
	Durability characteristics		NPD	-
Durability of reaction to fire against high temperature	Durability characteris	itics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	tics	NPD {c}	_
temperature	Maximum service temperature		640 °C	-
	stability			
Thermal Resistance	Dimensions & Tolera	nces	30 - 100 / T2	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,040	
	perature iii C	100	0,046	
		200	0,062	
		300	0,084	
		400	0,112	
		500	0,146	
		600	0,190	
		640	0,211	
		NPD	NPD	
	NPD - No performanc	e determined		

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T4305EPCPR Power-teK FM 080 ALU



Essential Characteristics		T4305EPCPR		
	Performance		Power-teK FM 080 ALU	Standard
Reaction to fire	Reaction to fire		A1	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	MV2	1
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-	CL 10	-
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		NDD (a)	_
ageing/degradation	Dimensional Stability		NPD {c}	-
	Maximum service temperature - dimensional stability		640 °C	-
	Durability characteristics		NPD	_
Durability of reaction to fire against high temperature	Durability characteris	rtics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	_
Thermal Resistance	Dimensions & Tolera	nces	30 - 100 / T2	_
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	-
		400	0,112	-
		500	0,146	-
		600	0,190	-
		640	0,211	-
		NPD	NPD	-
	NPD - No performance	e determined		ı

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T4305EPCPR Power-teK WM 640 GGA



Essential Characteristics		Harmonised Technical		
	Performance		Power-teK WM 640 GGA	- Standard
Reaction to fire	Reaction to fire		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	Sound Absorption		
Water Permeability	Water Absorption		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	ons and the pH-	CL 10	
Release of Dangerous Substances to the indoor environment	Release of Dangerous Sub	stances	NPD	
Continuous glowing combustion	Continuous glowing com	bustion	NPD	1
Durability of reaction to fire against ageing / degradation	Durability characteris	tics	NPD {b}	
Durability of thermal resistance against	Thermal Conductivi	Thermal Conductivity		
ageing/degradation	Dimensional Stability		NPD {c}	
	Maximum service temperature - dimensional stability		640 °C	
	Durability characteris	tics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	tics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	tics	NPD {c}	
temperature	Maximum service temperature		640 °C	
	stability			
Thermal Resistance	Dimensions & Tolerar	nces	30 - 120 / T2	
	Thermal conductivity (W/mk) at	50	0,040	1
	Temperature in °C	100	0,046	1
		200	0,062	1
				4
		300	0,084	
		300 400	0,084 0,112	
		400	0,112	
		400 500	0,112	

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T4305EPCPR Power-teK WM 640 GGN



Essential Characteristics	T4305EPCPR		Harmonised Technical	
	Performance		Power-teK WM 640 GGN	Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	1	NPD	_
Water Permeability	Water Absorption	ı	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-	CL 10	-
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}	
	The world of the state of the s			
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature - dimensional stability		640 °C	
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteris	itics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	rtics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	
Thermal Resistance	Dimensions & Tolera	nces	30 - 120 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	-
		400	0,112	-
		500	0,146	-
		600	0,190	-
		640	0,211	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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T4305EPCPR Power-teK WM 640 GGV



Essential Characteristics		T4305EPCPR	Harmonised Technical	
	Performance		Power-teK WM 640 GGV	Standard
Reaction to fire	Reaction to fire		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	Sound Absorption		-
Water Permeability	Water Absorption	1	WS1	
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	NPD	1
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-	CL 10	-
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		NDD (c)	-
ageing/degradation	Dimensional Stability		NPD {c} 	_
	Maximum service temperature - dimensional stability		640 °C	
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteris	rtics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	-
Thermal Resistance	Dimensions & Tolera	nces	30 - 120 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	-
		400	0,112	-
		500	0,146	-
		600	0,190	-
		640	0,211	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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T4305EPCPR Power-teK WM 640 GSA



Essential Characteristics	T4305EPCPR			Harmonised Technical
	Performance		Power-teK WM 640 GSA	- Standard
Reaction to fire	Reaction to fire		A1	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-	CL 10	-
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 (C)	
	Maximum service temperature - dimensional stability		640 °C	-
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	
temperature	Maximum service temperature stability		640 °C	_
They would Desight a ge	,		20, 420 / 72	
Thermal Resistance	Dimensions & Toleral Thermal conductivity (W/mk) at	50	30 - 120 / T2 	-
	Temperature in °C	100	0,040	-
		200	0,046	-
		300	0,084	-
		400	0,112	-
		500	0,146	-
		600	0,190	-
		640	0,211	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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T4305EPCPR Power-teK WM 640 GSN



Essential Characteristics	T4305EPCPR			Harmonised Technical
	Performance		Power-teK WM 640 GSN	- Standard
Reaction to fire	Reaction to fire	Reaction to fire		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	NPD	1
Compressive Strength	Compressive Stress or Compressive Flat Products	ive Strength for	NPD	-
Rate of release of corrosive substances	Trace quantities of water-soluble value	ions and the pH-	CL 10	-
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 a second section	Thermal Conductivity		NDD (-)	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c} 	-
	Maximum service temperature - dimensional stability		640 °C	_
	Durability characteristics		NPD	_
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	
Thermal Resistance	Dimensions & Tolera	nces	30 - 120 / T2	
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	1
		400	0,112	-
		500	0,146	-
		600	0,190	-
		640	0,211	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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T4305EPCPR Power-teK WM 640 SSA



Essential Characteristics		T4305EPCPR		
	Performance		Power-teK WM 640 SSA	Standard
Reaction to fire	Reaction to fire		A1	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-	CL 10	-
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		NDD (c)	-
ageing/degradation	Dimensional Stability		NPD {c} 	-
	Maximum service temperature - dimensional stability		640 °C	_
	Durability characteristics		NPD	-
Durability of reaction to fire against high temperature	Durability characteris	tics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	_
Thermal Resistance	Dimensions & Tolera	nces	30 - 120 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	1
		400	0,112	1
		500	0,146	1
		600	0,190	-
		640	0,211	1
		NPD	NPD	1
	NPD - No performance	ıl e determined		1

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T4305EPCPR Power-teK WM 640 SSN



Essential Characteristics		T4305EPCPR		
	Performance	Performance		Standard
Reaction to fire	Reaction to fire		A1	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	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-	CL 10	-
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 a second section	Thermal Conductivity		NDD (-)	-
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c} 	-
	Maximum service temperature - dimensional stability		640 °C	_
	Durability characteristics		NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	etics	NPD {c}	-
temperature	Maximum service temperature stability		640 °C	-
Thermal Resistance	Dimensions & Tolera	nces	30 - 120 / T2	-
	Thermal conductivity (W/mk) at	50	0,040	-
	Temperature in °C	100	0,046	-
		200	0,062	-
		300	0,084	-
		400	0,112	-
		500	0,146	1
		600	0,190	-
		640	0,211	1
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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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 - 11-10-19

(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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