Declaration of Performance



T4305OPCPR

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

Power-teK BD 620, Power-teK BD 620 ALU, Thermo-teK BD 070, Thermo-teK BD 070 ALU, Thermo-teK BD 070 VWS, Thermo-teK BD 070 WBS, Thermo-teK BD 080, Thermo-teK BD 080 ALU, Thermo-teK BD 080 VWS, Thermo-teK BD 080 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 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:

See next page

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T4305OPCPR Power-teK BD 620



Essential Characteristics T4305OPCPR				Harmonised Technical
	Performance		Power-teK BD 620	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		NPD	
Compressive Strength	Compressive Stress or Compressi		NPD	_
compressive strength	Flat Products	ve strength for	NFU	
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 characteris	stics	NPD {b}	_
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	_
	Maximum service temperature stability		620 °C	_
	Durability characteris	stics	NPD	-
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	_
temperature	Maximum service temperature stability		620 °C	_
Thermal Resistance	Dimensions & Tolerar	nces	20 - 200 / T5	_
	Thermal conductivity (W/mk) at	50	0,039	
	Temperature in °C	100	0,046	-
		200	0,065	-
		300	0,089	-
		400	0,120	_
		500	0,160	-
		600	0,209	_
		NPD	NPD	
		NPD	NPD	-
	NPD - No performance	e determined		1

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T4305OPCPR Power-tek BD 620 ALU



Essential Characteristics	Harmonised Technical			
	Performance		Power-teK BD 620 ALU	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	MV2	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	Thermal Conductivity		NDD (e)	-
ageing/degradation	Dimensional Stability		NPD {c}	-
	Maximum service temperature stability		620 °C	-
	Durability characteris	stics	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		620 °C	-
	stability			
Thermal Resistance	Dimensions & Tolera	nces	20 - 120 / T5	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,039	1
	remperature III C	100	0,046	1
		200	0,065	1
		300	0,089	1
		400	0,120]
		500	0,160	1
		600	0,209	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performanc	e determined		

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T4305OPCPR Thermo-teK BD 070



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 070	Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		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-	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}	
Doubling of the conduction of the			NDD (c)	_
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	_
	Maximum service temperature stability		250 °C	
	Durability characteris	stics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	_
temperature	Maximum service temperature stability		250 °C	
Thermal Resistance	Dimensions & Tolera	nces	20 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,035	1
	Temperature in °C	40	0,038	1
		50	0,039	1
		100	0,046	1
		150	0,056	7
		200	0,065	7
		250	0,077	1
		NPD	NPD	7
		NPD	NPD	1
	NPD - No performanc	e determined		

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T4305OPCPR Thermo-teK BD 070 ALU



Essential Characteristics T4305OPCPR				Harmonised Technical
	Performance		Thermo-teK BD 070 ALU	- Standard
Reaction to fire	Reaction to fire		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	-
Water Permeability	Water Absorption	1	WS1	-
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	MV2	-
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-	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		NDD (-)	-
ageing/degradation	Dimensional Stability		NPD {c} 	
	Maximum service temperature - dimensional stability		250 °C	-
	Durability characteris	stics	NPD	_
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	_
temperature	Maximum service temperature stability		250 °C	_
Thermal Resistance	Dimensions & Tolera	nces	30 - 255 / T5	-
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
		150	0,056	-
		200	0,065	-
		250	0,077	-
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performance	e determined		<u> </u>

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T4305OPCPR Thermo-teK BD 070 VBS



Essential Characteristics	Harmonised Technical			
	Performance	Performance		Standard
Reaction to fire	Reaction to fire A1		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption	Sound Absorption		-
Water Permeability	Water Absorption	1	WS1	1
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	NPD	1
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	Thermal Conductivity		NDD (c)	-
ageing/degradation	Dimensional Stability		NPD {c} 	-
	Maximum service temperature stability		250 °C	_
	Durability characteris	itics	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 stability		250 °C	-
Thermal Resistance	Dimensions & Tolera	nces	30 - 255 / T5	-
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
		150	0,056	-
		200	0,065	-
		250	0,077	-
		NPD	NPD	-
		NPD	NPD	-
	NPD - No performance	e determined		1

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T4305OPCPR Thermo-teK BD 070 VWS



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 070 VWS	Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	
Water Permeability	Water Absorption	1	WS1	-
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	NPD	
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-	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}	
Deskille of the conductation and the	The condition of the		NDD (-)	_
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature stability		250 °C	
	Durability characteris	stics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	
temperature	Maximum service temperature stability	- dimensional	250 °C	
Thermal Resistance	Dimensions & Tolera	nces	30 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
			0,056	-
		200	0,065	1
		250	0,077	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performanc	e determined		

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T4305OPCPR Thermo-teK BD 070 WBS



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 070 WBS	- Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		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-	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}	
	71 10 1 11		NDD ()	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature stability		250 °C	
	Durability characteris	stics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	
temperature	Maximum service temperature stability	- dimensional	250 °C	
Thermal Resistance	Dimensions & Tolera	nces	30 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
			0,056	-
		200	0,065	1
		250	0,077	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performanc	e determined		

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T4305OPCPR Thermo-teK BD 080



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 080	Standard
Reaction to fire	Reaction to fire	Reaction to fire		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	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	-
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 stability		250 °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	stics	NPD {c}	_
temperature	Maximum service temperature stability		250 °C	
Thermal Resistance	Dimensions & Tolera	nces	20 - 255 / T5	-
	Thermal conductivity (W/mk) at	10	0,035	
	Temperature in °C	40	0,038	+
		50	0,039	
		100	0,046	
		150	0,056	
		200	0,065	-
		250	0,077	1
		NPD	NPD	-
		NPD	NPD	1
	NPD - No performanc	e determined		<u>'</u>

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T4305OPCPR Thermo-teK BD 080 ALU



Essential Characteristics T4305OPCPR				Harmonised Technical
	Performance	Performance		Standard
Reaction to fire	Reaction to fire A1		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		NPD	_
Water Permeability	Water Absorption	1	WS1	-
Water Vapour Permeability	Water Vapour Diffusion Re	esistance	MV2	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-	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		NDD (-)	-
ageing/degradation	Dimensional Stability		NPD {c} 	
	Maximum service temperature stability		250 °C	-
	Durability characteris	stics	NPD	_
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	_
temperature	Maximum service temperature stability		250 °C	_
Thermal Resistance	Dimensions & Tolera	nces	25 - 255 / T5	-
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
		150	0,056	-
		200	0,065	-
		250	0,077	-
		NPD	NPD	-
		NPD	NPD	-
	NPD - No performance	e determined		<u> </u>

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T4305OPCPR Thermo-teK BD 080 VBS



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 080 VBS	Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		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-	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 stability		250 °C	-
	Durability characteris	stics	NPD	_
Durability of reaction to fire against high temperature	Durability characteris	stics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	-
temperature	Maximum service temperature stability		250 °C	-
Thermal Resistance	Dimensions & Tolera	nces	25 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,035	1
	Temperature in °C	40	0,038	1
		50	0,039	1
		100	0,046	1
		150	0,056	1
		200	0,065	1
		250	0,077	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performanc	e determined		<u> </u>

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T4305OPCPR Thermo-teK BD 080 VWS



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 080 VWS	Standard
Reaction to fire	Reaction to fire A1		A1	EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		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-	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		NDD (c)	
ageing/degradation	Dimensional Stability		NPD {c}	
	Maximum service temperature stability		250 °C	-
	Durability characteris	stics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	tics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	-
temperature	Maximum service temperature stability		250 °C	
Thermal Resistance	Dimensions & Tolera	nces	25 - 255 / T5	_
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
		150	0,056	-
		200	0,065	-
		250	0,077	-
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performance	e determined		<u> </u>

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T4305OPCPR Thermo-teK BD 080 WBS



Essential Characteristics	Harmonised Technical			
	Performance		Thermo-teK BD 080 WBS	Standard
Reaction to fire	Reaction to fire	Reaction to fire		EN 14303:2009 + A1:2013
Acoustic Absorption Index	Sound Absorption		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-	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}	
	71 10 1 11		NDD ()	
Durability of thermal resistance against ageing/degradation	Thermal Conductivity Dimensional Stability		NPD {c}	
	Maximum service temperature stability		250 °C	
	Durability characteris	stics	NPD	
Durability of reaction to fire against high temperature	Durability characteris	tics	NPD {d}	
Durability of thermal resistance against high	Durability Characteris	stics	NPD {c}	
temperature	Maximum service temperature stability		250 °C	
Thermal Resistance	Dimensions & Tolera	nces	25 - 255 / T5	
	Thermal conductivity (W/mk) at	10	0,035	-
	Temperature in °C	40	0,038	-
		50	0,039	-
		100	0,046	-
			0,056	1
		200	0,065	1
		250	0,077	1
		NPD	NPD	1
		NPD	NPD	1
	NPD - No performanc	e determined		1

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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 - 07-02-20

(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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