Declaration of Performance

T4305GPCPR

1. Unique identification code of the product-type:

   WM 680 GG, Power-teK WM 680 GGN, WM 680 GS, Power-teK WM 680 GSN, WM 680 S, Power-teK WM 680 SSN, WM 680 ALU GG, Power-teK WM 680 GGA, WM 680 ALU GS, Power-teK WM 680 GSA, WM 680 ALU S, Power-teK WM 680 SSA

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: Forschungsinstitut für Wärmeschutz e. V. München FIW München (Notified certification body No. 0751)
   AVCP System 3: 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:

   See next page

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 ALU GG, Power-teK WM 680 GGA**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C: 50	0,04	
	100	0,047	
	200	0,061	
	300	0,078	
	400	0,098	
	500	0,125	
	600	0,159	
	650	0,179	
	NPD	NPD	

NPD - No performance determined

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 ALU GS, Power-teK WM 680 GSA**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C: 50	0,04	
	100	0,047	
	200	0,061	
	300	0,078	
	400	0,098	
	500	0,125	
	600	0,159	
	650	0,179	
	NPD	NPD	

NPD - No performance determined

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 ALU S, Power-teK WM 680 SSA**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C: 50	0,04	
	100	0,047	
	200	0,061	
	300	0,078	
	400	0,098	
	500	0,125	
	600	0,159	
	650	0,179	
	NPD	NPD	

NPD - No performance determined

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 GG, Power-teK WM 680 GGN**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,04
		100	0,047
		200	0,061
		300	0,078
		400	0,098
		500	0,125
		600	0,159
		650	0,179
		NPD	NPD
NPD - No performance determined			

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 GS, Power-teK WM 680 GSN**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C	50	0,04
		100	0,047
		200	0,061
		300	0,078
		400	0,098
		500	0,125
		600	0,159
		650	0,179
		NPD	NPD
NPD - No performance determined			

Essential Characteristics	T4305GPCPR		Harmonised Technical Standard
	Performance	**WM 680 S, Power-teK WM 680 SSN**	
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	CL 10	
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	680 °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	680 °C	
Thermal Resistance	Dimensions & Tolerances	30 - 120 / T2	
	Thermal conductivity (W/mk) at Temperature in °C: 50	0,04	
	100	0,047	
	200	0,061	
	300	0,078	
	400	0,098	
	500	0,125	
	600	0,159	
	650	0,179	
	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 - 19-12-17

(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.