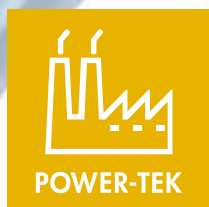


PRODUCT CATALOGUE TECHNICAL INSULATION



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OVERVIEW OF CERTIFICATES AND SEALS OF QUALITY

These apply for all our standard products:

Recycling:



These only apply for certain products:



NOTES

To obtain a Declaration of Performance (DoP) for a product, simply copy the URL which is stated in the product documents and enter it in your web browser. This gives you direct access to our online database for DoPs under www.dopki.com

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


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APPLICATIONS

This selection of applications only provides a rough overview. Please check whether the materials are suitable for the actual application.








Reaction to fire: ALL products are non combustible (accdg EN 13501: class A1 or - where indicated - class A2).






HEATING, VENTILATION AND AIR-CONDITIONING 	Thermal insulation	Thermal insulation	Max. service Temperature	Nominal density	Facing	Heating, water supply pipes	Outside air ducts rectangular	Outside air ducts round	Rectangular equipment	Sound insulation	Fire protection	More info
	λ_{10}	λ_{40}	St (+)	ρ	–							
	W/ (m·K)	W/ (m·K)	°C	kg/m ³	–							
Pipe Section												
Thermo-teK PS Pro ALU***	0,033	0,035	500**	100–120	aluminium foil							page 11
Thermo-teK PS Eco ALU***	0,033	0,037	250**	85–100	aluminium foil							page 14
Thermo-teK PS Eco	0,033	0,037	250	85–100	–							page 18
Lamella Mat												
Thermo-teK LM Air ALU***	0,036	0,042	250**	28	aluminium foil							page 21
Thermo-teK LM Eco ALU	0,037	0,042	250**	35	aluminium foil							page 22
Thermo-teK LM Pro ALU	–	0,042	250**	40	aluminium foil							page 23
Roll												
Thermo-teK RL Eco ALU / ALI***	0,034	0,040	60	25	aluminium foil							page 24
Thermo-teK RL Pro ALU***	0,033	–	230**	32	aluminium foil							page 25
Board												
Thermo-teK BD 030 / ALU / VWS / WBS / VBS	0,038	0,044	250**	30	different options possible*							page 26–30
Thermo-teK BD 035 / ALU / VWS / WBS / VBS	0,038	0,044	250**	35	different options possible*							page 26–30
Thermo-teK BD 040 / ALU / VWS / WBS / VBS	0,036	0,040	250**	40	different options possible*							page 26–30
Thermo-teK BD 050 / ALU / VWS / WBS / VBS	0,037	0,039	250**	50	different options possible*							page 26–30
Thermo-teK BD 060 / ALU / VWS / WBS / VBS	0,037	0,039	250**	60	different options possible*							page 26–30
Thermo-teK BD 070 / ALU / VWS / WBS / VBS	0,035	0,038	250**	70	different options possible*							page 26–30
Thermo-teK BD 080 / ALU / VWS / WBS / VBS	0,035	0,038	250**	80	different options possible*							page 26–30
Thermo-teK BD 090 / ALU / VWS / WBS / VBS	0,035	0,038	250**	90	different options possible*							page 26–30
Thermo-teK BD 100 / ALU / VWS / WBS / VBS	0,035	0,038	250**	100	different options possible*							page 26–30

* aluminium foil (ALU) / white glass veil (VWS) / black glass woven (WBS) / black glass veil (VBS)

**aluminium side ≤ 80°C

*** reaction to fire: A2










HEATING, VENTILATION AND AIR-CONDITIONING  THERMO-TEK	Thermal insulation	Thermal insulation	Max. service Temperature	Nominal density	Facing	Heating, water supply pipes	Outside air ducts rectangular	Outside air ducts round	Rectangular equipment	Sound insulation	Fire protection	More info
	λ_{10}	λ_{40}	St (+)	ρ	—							
	W/ (m·K)	W/ (m·K)	°C	kg/m ³	—							
Sound Absorbent Board												
Sound-teK BD 805 WBD / VBD	0,035	—	150	50	black glass woven (2-sided) / black glass veil (2-sided)							page 31-32
Sound-teK 806 WBD	0,035	—	150	60	black glass woven (2-sided)							page 33
Sound-teK 807 VWD	0,035	—	150	70	white glass veil (2-sided)							page 34
Sound Absorbent Felt Mat												
Sound-teK FM 140 ALU	—	—	—	140	aluminium foil							page 35

FIRE PROTECTION  FIRE-TEK	Thermal insulation	Fire resistance	Nominal density	Facing	Round air duct	Rectangular air duct	Sound insulation	Fire protection	More info
	λ_d	—	ρ	—					
	W/ (m·K)	—	kg/m ³	—					
Fire Protection Board									
Fire-teK BD 908 ALU	0,035	EI 30 (ve ho i<->o) S	80	aluminium foil					page 37
Fire-teK BD 912 ALU	0,036	EI 60 (ve ho i<->o) S	120	aluminium foil					page 38
Fire-teK BD 917 ALU	—	—	165	aluminium foil					page 39
Fire Protection Wired Mat									
Fire-teK WM 908 GGA	0,034	EI 30 (ve ho i<->o) S with 60 mm / EI 60 (ve ho i<->o) S with 80 mm	80	aluminium foil					page 40
Cord									
Fire-teK CR STD	—	—	—	—					page 41

APPLICATIONS










This selection of applications only provides a rough overview. Please check whether the materials are suitable for the actual application.

Reaction to fire: ALL products are non combustible (accdg EN 13501: class A1 or - where indicated - class A2).

INDUSTRIAL INSULATION  POWER-TEK	Thermal insulation	Max. service Temperature	Nominal density	Facing	Piping	District heating pipes	Boilers	Heat storage	Tank walls	Tank roofs	Sound insulation	Furnaces	Air separation plant	More info
	λ_{s0}	St(+)	ρ	–										
	W/(m·K)	°C	kg/m³	–										
Wired Mat														
Power-teK WM 620	0,040	620	70	different options possible*										page 44
Power-teK WM 640	0,040	640	80	different options possible*										page 45
Power-teK WM 660	0,040	660	100	different options possible*										page 46
Power-teK WM 680	0,040	680	120	different options possible*										page 47
Lamella Mat														
Power-teK LM 450 ALU	0,044	450**	40	aluminium foil										page 48
Power-teK LM 550 ALU	0,043	550**	60	aluminium foil										page 49
Power-teK LM 640 ALU	0,044	640**	80	aluminium foil										page 50
Power-teK LM 700 ALU	0,044	700**	95	aluminium foil										page 51
Pipe Section														
Power-teK PS 450	0,039	450	85–100	–										page 52
Power-teK PS 680	0,039	680	110–140	–										page 55
Power-teK PS 700	0,039	700	140	–										page 59
Power-teK PB 640 ALU	0,039	640**	80	aluminium foil										page 62
Power-teK PB 680 ALU	0,042	680**	120	aluminium foil										page 64
System (Pipe Belt / Wired Mat)														
Power-teK PB SYS WM1	0,039	640**	–	aluminium foil										page 67

* see page 43 for different facing options

**aluminium side ≤ 80°C

INDUSTRIAL INSULATION  POWER-TEK	Thermal insulation	Max. service Temperature	Nominal density	Facing	Piping	District heating pipes	Boilers	Heat storage	Tank walls	Tank roofs	Sound insulation	Furnaces	Air separation plant	More info
	λ_{s0}	St(+)	ρ	–										
	W/(m·K)	°C	kg/m³	–										
Board														
Power-teK BD 450 / ALU	0,041	450**	50	aluminium foil										page 68
Power-teK BD 550 / ALU	0,040	550**	60	aluminium foil										page 69
Power-teK BD 620 / ALU	0,039	620**	70	aluminium foil										page 70
Power-teK BD 640 / ALU	0,040	640**	80	aluminium foil										page 71
Power-teK BD 660 / ALU	0,039	660**	100	aluminium foil										page 72
Power-teK BD 680 / ALU	0,040	680**	120	aluminium foil										page 73
Power-teK BD 700 / ALU	0,041	700**	150	aluminium foil										page 74
Power-teK BD 775	0,042	450**	150	–										page 75
Felt Mat														
Power-teK FM 040 to 060 / ALU	–	250**	40–60	aluminium foil										page 77
Power-teK FM 070 / ALU	0,040	620**	70	aluminium foil										page 78
Power-teK FM 080 / ALU	0,040	640**	80	aluminium foil										page 79
Power-teK FM 100 / ALU	0,040	660**	100	aluminium foil										page 80
Mat														
Power-teK RL 150	0,042	150	22	–										page 81
Loose Wool														
Power-teK LW STD	0,041	660	–	–										page 82
Power-teK LW CRY	0,041	–	–	–										page 83
Power-teK LW 020	–	–	–	–										page 84

**aluminium side ≤ 80°C

EXPERIENCE THE NEXT STEP IN INSULATION

Our Mineral Wool products with ECOSE® Technology!

Following the successful introduction of ECOSE® Technology in the Buildings Solutions product range, Knauf Insulation has decided to extend its innovative binder technology to its product portfolio in Technical Solutions.



BINDER WITHOUT ADDED FORMALDEHYDE

The binder is mainly derived from naturally occurring raw materials. There are no added formaldehydes during the manufacturing process. The products made with ECOSE® Technology **contain no phenols.**



NATURAL APPEARANCE

Insulation products made with ECOSE® Technology **contain no dyes or artificial colours.**



TECHNICAL PERFORMANCE

Products with ECOSE® Technology ensure high insulation efficiency for a thermal comfort as well as non-combustibility for personal safety, being **compliant with all relevant European standards.**



ENVIRONMENTALLY FRIENDLY

Renewable components in the binder are replacing most fossil-fuel based materials. **We are saving energy reduce energy bills CO₂ emissions.**



SPECIFIERS
CAN TRUST ON
**SUSTAINABLY DESIGNED
PRODUCTS**
AND INSTALLERS
BENEFIT FROM **USER
FRIENDLYNESS.**



Benefits for Installers

EUROFINS GOLD CERTIFIED INDOOR AIR QUALITY IMPACT

- Reduction of emissions in the installing environment

USER FRIENDLINESS

- Easy to cut
- Low odor
- Fitting accuracy
- Easy to handle

MEETING TECHNICAL REQUIREMENTS

- Product properties meeting or exceeding requirements from CE, AGI 132, EnEV, MED

PROFESSIONAL SOLUTIONS

- Product range delivering high thermal, mechanical and fire-resistance performances

Benefits for Specifiers

EUROFINS GOLD CERTIFIED INDOOR AIR QUALITY IMPACT

- Enhancement of indoor air quality
- Proved compliance to all relevant legal and voluntary quality labels on product emissions in Europe

SUSTAINABLY DESIGNED PRODUCTS

- In line with several green building rating schemes (e.g. BREEAM, LEED, HQE, DGNB, WELL)
- High environmental standards with ISO 14000 certification

RELIABILITY

- Knauf Insulation product range is delivering high thermal, mechanical and fire-resistance performances
- CE marking guarantees compliance to European law (CPR 305-2011)

SAFETY

- Non-combustibility (A1/A2-s1, d0)
- Melting point of fibres > 1.000°C
- High manufacturing and product standards with ISO 9000 certification

HVAC

THERMAL INSULATION EXPERTS FOR HVAC



THERMO-TEK



PIPE SECTION

THERMO-TEK PS PRO ALU



Illustration: Pipe section



Thermo-teK PS PRO ALU is classified up to EI 120 for walls/ceilings penetrations, according to EN 13501-2.

λ -value at 40 °C: 0,035 W/m·K

DESCRIPTION OF PRODUCT

Thermo-teK PS Pro ALU are wound and ground, non-combustible pipe sections made from Mineral Wool with a length of 1200 mm.

The product has a facing made from glass-fibre reinforced aluminium and is equipped with a self-adhesive seal in the longitudinal direction.

Optimum insulating properties due to especially low thermal conductivity, high-precision shape as well as optimised concentricity are ensured by the modern production method with minimum production tolerances.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305NP

APPLICATIONS

Thermo-teK PS Pro ALU are especially suitable for thermal insulation and also have effective sound insulation properties.

- Pipes
- Components e.g. elbows, T-pieces etc.
- Fire protection



CERTIFICATES



Properties	Reference	Description/specifications						Unit	Standard
Reaction to fire*	–	A2 _L -s1, d0 D ₀ ≤ 300 mm			A2-s1, d0 D ₀ > 300 mm			–	EN 13501-1
Thermal conductivity depending on mean temperature	ϑ	10	50	100	150	200	250	°C	EN ISO 8497
	λ	0,033	0,037	0,044	0,052	0,062	0,073	W/(m·K)	
Maximum service temperature	ST(+)	500						°C	EN 14707
Service temperature aluminium facing	–	≤ 80						°C	–
Water soluble chloride ions (AS quality)	–	≤ 10						ppm	EN 13468
Density	ρ	ca. 100–120						kg/m ³	EN 13470
Water absorption	W _p	≤ 1,0 kg/m ²						–	EN 13472
Water vapour diffusion equivalent air layer thickness	s _d	≥ 200						m	EN 13469
Silicone-free fibres**	–	No emissions by lacquering disturbing substances						–	–
Melting point of fibres	ϑ	≥ 1000						°C	DIN 4102-17
Specific heat capacity	C _p	1030						J/(kgK)	EN ISO 10456
Designation code	–	External diameter <150 mm: MW-EN14303-T8-ST(+)-500-WS1-MV2-CL10						–	EN 14303
	–	External diameter ≥ 150 mm: MW-EN14303-T9-ST(+)-500-WS1-MV2-CL10						–	EN 14303

* Depending on external diameter

** Fullfills the criteria of Volkswagen standard 3.10.7 and is free from substances which prevent paint wetting.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

NOTES ON INSTALLATION:

- Before starting installation, ensure that all adhesion surfaces are dry and free from dust, grease and dirt.
- To facilitate the opening the Thermo-teK PS Pro ALU for installation on the pipe they are provided with a slight slit on the side opposite to the longitudinal opening. This makes it much easier to push the section over the pipe which is to be insulated.
- Before the longitudinal seam can be closed with the self-adhesive overlap, the protective strip must be removed. The strip can also be removed in sections. Before the self-adhesive coatings are pressed together, the halves of the pipe section must be precisely aligned. Firm pressure on the self-adhesive coating must be ensured over the entire length of the longitudinal seam.
- The butt joints of the pipe sections must be sealed with self-adhesive aluminium tape so that both adjacent pipe sections are equally covered with aluminium tape.
- The initial adhesive force may be reduced if the ambient temperature at the time of processing is less than 10°C. In this case, especially careful work is required, whereby the necessary pressure to achieve a permanent bond must be increased and must be ensured by the installer.
- National requirements to secure the pipe sections has to be checked

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Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	979,20	40,80	547,20	22,80			15
18	892,80	37,20	460,80	19,20	316,80	13,20	18
22	777,60	32,40	432,00	18,00	280,80	15,60	22
28	633,60	26,40	374,40	15,60	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	388,80	21,60	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	302,40	16,80	172,80	9,60	172,80	9,60	54
60	259,20	14,40	172,80	9,60	129,60	7,20	60
64	216,00	12,00	172,80	9,60	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	86,40	4,80	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	86,40	4,80	86,40	4,80	86,40	4,80	102
108	86,40	4,80	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	48,00	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
18	194,40	10,80					18
22	194,40	10,80	129,60	7,20	86,40	4,80	22
28	194,40	10,80	129,60	7,20	86,40	4,80	28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	86,40	4,80	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	43,20	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 90 mm		Thickness 100 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
28	86,40	4,80					28
35	86,40	4,80					35
42	76,80	1,20	62,40	1,20			42
48	72,00	1,20	60,00	1,20	52,80	1,20	48
54	72,00	1,20	60,00	1,20	50,40	1,20	54
60	64,80	1,20	57,60	1,20	48,00	1,20	60
64	60,00	1,20	52,80	1,20	48,00	1,20	64
70	60,00	1,20	48,00	1,20	40,80	1,20	70
76	60,00	1,20	48,00	1,20	43,20	1,20	76
89	50,40	1,20	43,20	1,20	38,40	1,20	89
102	48,00	1,20	38,40	1,20	33,60	1,20	102
108	48,00	1,20	38,40	1,20	33,60	1,20	108
114	43,20	1,20	38,40	1,20	31,20	1,20	114
133	38,40	1,20	31,20	1,20	26,40	1,20	133
140	38,40	1,20	31,20	1,20	28,80	1,20	140
159	31,20	1,20	28,80	1,20	24,00	1,20	159
168	28,80	1,20	24,00	1,20	21,60	1,20	168
194	24,00	1,20	21,60	1,20	21,60	1,20	194
219	21,60	1,20	21,60	1,20	16,80	1,20	219
245	19,20	1,20	14,40	1,20	14,40	1,20	245
273	14,40	1,20	12,00	1,20	12,00	1,20	273
305	12,00	1,20	12,00	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Internal diameter (mm)	Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	
54	38,40	1,20	54
60	38,40	1,20	60
64	33,60	1,20	64
70	31,20	1,20	70
76	31,20	1,20	76
89	28,80	1,20	89
102	24,00	1,20	102
108	24,00	1,20	108
114	24,00	1,20	114
133	21,60	1,20	133
140	21,60	1,20	140
159	21,60	1,20	159
168	16,80	1,20	168
194	12,00	1,20	194
219	12,00	1,20	219
245	12,00	1,20	245
273	9,60	1,20	273
305	9,60	1,20	305
324	9,60	1,20	324

Other dimensions or packaging units on request! The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com



Illustration: Pipe section


DESCRIPTION OF PRODUCT

Thermo-teK PS Eco ALU are wound and ground, non-combustible pipe sections made from Mineral Wool with a length of 1200 mm.

The product has a facing made from glass-fibre reinforced aluminium and is equipped with a self-adhesive seal in the longitudinal direction.

Optimum insulating properties due to especially low thermal conductivity, high-precision shape as well as optimised concentricity are ensured by the modern production method with minimum production tolerances.

APPLICATIONS

Thermo-teK PS Eco ALU are especially suitable for thermal insulation and also have effective sound insulation properties.

- Pipes
- Components e.g. elbows, T-pieces etc.


CERTIFICATES

DECLARATION OF PERFORMANCE

www.dopki.com/T4305YP

Properties	Reference	Description/specifications					Unit	Standard
Reaction to fire*	–	A2 _L -s1, d0 D ₀ ≤ 300 mm		A2-s1, d0 D ₀ > 300 mm		–	–	EN 13501-1
Thermal conductivity depending on mean temperature	θ	10	40	50	100	150	°C	EN ISO 8497
	λ	0,033	0,037	0,039	0,046	0,053	W/(m·K)	
Maximum service temperature	ST(+)	250					°C	EN 14707
Service temperature aluminium facing	–	≤ 80					°C	–
Water soluble chloride ions (AS quality)	–	≤ 10					ppm	EN 13468
Density	ρ	ca. 85–100					kg/m ³	EN 13470
Water absorption	W _p	≤ 1,0 kg/m ²					–	EN 13472
Water vapour diffusion equivalent air layer thickness	S _d	≥ 200					m	EN 13469
Silicone-free fibres**	–	No emissions by lacquering disturbing substances					–	–
Melting point of fibres	θ	≥ 1000					°C	DIN 4102-17
Specific heat capacity	C _p	1030					J/(kgK)	EN ISO 10456
Designation code	–	External diameter <150 mm: MW-EN14303-T8-ST(+)+250-WS1-MV2-CL10					–	EN 14303
	–	External diameter ≥ 150 mm: MW-EN14303-T9-ST(+)+250-WS1-MV2-CL10					–	EN 14303

* Depending on external diameter

** Fullfills the criteria of Volkswagen standard 3.10.7 and is free from substances which prevent paint wetting.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

NOTES ON INSTALLATION:

- Before starting installation, ensure that all adhesion surfaces are dry and free from dust, grease and dirt.
- To facilitate the opening the Thermo-teK PS Eco ALU for installation on the pipe they are provided with a slight slit on the side opposite to the longitudinal opening. This makes it much easier to push the section over the pipe which is to be insulated.
- Before the longitudinal seam can be closed with the self-adhesive overlap, the protective strip must be removed. The strip can also be removed in sections. Before the self-adhesive coatings are pressed together, the halves of the pipe section must be precisely aligned. Firm pressure on the self-adhesive coating must

be ensured over the entire length of the longitudinal seam.

- The butt joints of the pipe sections must be sealed with self-adhesive aluminium tape so that both adjacent pipe sections are equally covered with aluminium tape.
- The initial adhesive force may be reduced if the ambient temperature at the time of processing is less than 10°C. In this case, especially careful work is required, whereby the necessary pressure to achieve a permanent bond must be increased and must be ensured by the installer.
- National requirements to secure the pipe sections has to be checked



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Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	1058,40	58,80	540,00	30,00			15
18	907,20	50,40	540,00	30,00	302,40	16,80	18
22	777,60	43,20	432,00	24,00	280,80	15,60	22
28	648,00	36,00	410,40	22,80	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	432,00	24,00	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	345,60	19,20	194,40	10,80	172,80	9,60	54
60	280,80	15,60	194,40	10,80	129,60	7,20	60
64	259,20	14,40	194,40	10,80	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	108,00	6,00	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	129,60	7,20	108,00	6,00	86,40	4,80	102
108	108,00	6,00	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	55,20	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
22	194,40	10,80	129,60	7,20	86,40	4,80	22
28	194,40	10,80	129,60	7,20	86,40	4,80	28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	108,00	6,00	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	38,40	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 90 mm		Thickness 100 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
35	86,40	4,80					35
42	76,80	1,20					42
48	72,00	1,20	60,00	1,20	52,80	1,20	48
54	72,00	1,20	60,00	1,20	50,40	1,20	54
60	64,80	1,20	57,60	1,20	48,00	1,20	60
64	60,00	1,20	52,80	1,20	48,00	1,20	64
70	60,00	1,20	48,00	1,20	40,80	1,20	70
76	60,00	1,20	48,00	1,20	43,20	1,20	76
89	50,40	1,20	43,20	1,20	38,40	1,20	89
102	48,00	1,20	38,40	1,20	33,60	1,20	102
108	48,00	1,20	38,40	1,20	33,60	1,20	108
114	43,20	1,20	38,40	1,20	31,20	1,20	114
133	38,40	1,20	31,20	1,20	26,40	1,20	133
140	38,40	1,20	31,20	1,20	28,80	1,20	140
159	31,20	1,20	28,80	1,20	24,00	1,20	159
168	28,80	1,20	24,00	1,20	21,60	1,20	168
194	24,00	1,20	21,60	1,20	21,60	1,20	194
219	21,60	1,20	21,60	1,20	16,80	1,20	219
245	19,20	1,20	14,40	1,20	14,40	1,20	245
273	14,40	1,20	12,00	1,20	12,00	1,20	273
305	12,00	1,20	12,00	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Internal diameter (mm)	Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	
54	38,40	1,20	54
60	38,40	1,20	60
64	33,60	1,20	64
70	31,20	1,20	70
76	31,20	1,20	76
89	28,80	1,20	89
102	24,00	1,20	102
108	24,00	1,20	108
114	24,00	1,20	114
133	21,60	1,20	133
140	21,60	1,20	140
159	21,60	1,20	159
168	16,80	1,20	168
194	14,40	1,20	194
219	12,00	1,20	219
245	12,00	1,20	245
273	9,60	1,20	273
305	9,60	1,20	305
324	9,60	1,20	324

Other dimensions or packaging units on request! The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

THERMO-TEK PS ECO



Illustration: Pipe section



DESCRIPTION OF PRODUCT

Thermo-teK PS Eco are wound and ground, non-combustible pipe sections made from Mineral Wool with a length of 1200 mm. Optimum insulating properties due to especially low thermal conductivity, high-precision shape as well as optimised concentricity are ensured by the modern production method with minimum production tolerances.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305YP

APPLICATIONS

Thermo-teK PS Eco are especially suitable for thermal insulation and also have effective sound insulation properties.

- Pipes
- Components e.g. elbows, T-pieces etc.



CERTIFICATES



Properties	Reference	Description/specifications					Unit	Standard
Reaction to fire	–	A1 _L					–	EN 13501-1
Thermal conductivity depending on mean temperature	ϑ	10	40	50	100	150	°C	EN ISO 8497
	λ	0,033	0,037	0,039	0,046	0,053	W/(m·K)	
Maximum service temperature	ST(+)	250					°C	EN 14707
Water soluble chloride ions (AS quality)	–	≤ 10					ppm	EN 13468
Density	ρ	ca. 85–100					kg/m ³	EN 13470
Water absorption	W _p	≤ 1,0 kg/m ²					–	EN 13472
Water vapour diffusion resistance	μ	1					–	EN 14303
Silicone-free fibres*	–	No emissions by lacquering disturbing substances					–	–
Melting point of fibres	ϑ	≥ 1000					°C	DIN 4102-17
Specific heat capacity	C _p	1030					J/(kgK)	EN ISO 10456
Designation code	–	External diameter <150 mm: MW–EN14303–T8–ST(+)-250–WS1–CL10					–	EN 14303
	–	External diameter ≥ 150 mm: MW–EN14303–T9–ST(+)-250–WS1–CL10					–	EN 14303

* Fullfills the criteria of Volkswagen standard 3.10.7 and is free from substances which prevent paint wetting.
The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

NOTES ON INSTALLATION:

- Before starting installation, ensure that all adhesion surfaces are dry and free from dust, grease and dirt.
- To facilitate the opening the Thermo-teK PS Eco for installation on the pipe they are provided with a slight slit on the side opposite to the longitudinal opening. This makes it much easier to push the section over the pipe which is to be insulated.
- Before the longitudinal seam can be closed with the self-adhesive overlap, the protective strip must be removed. The strip can also be removed in sections. Before the self-adhesive coatings are pressed together, the halves of the pipe section must be precisely aligned. Firm pressure on the self-adhesive coating must be ensured over the entire length of the longitudinal seam.
- The butt joints of the pipe sections must be sealed with self-adhesive aluminium tape so that both adjacent pipe sections are equally covered with aluminium tape.
- The initial adhesive force may be reduced if the ambient temperature at the time of processing is less than 10°C. In this case, especially careful work is required, whereby the necessary pressure to achieve a permanent bond must be increased and must be ensured by the installer.
- National requirements to secure the pipe sections has to be checked

Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	1058,40	58,80	540,00	30,00			15
18	907,20	50,40	540,00	30,00	302,40	16,80	18
22	777,60	43,20	432,00	24,00	280,80	15,60	22
28	648,00	36,00	410,40	22,80	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	432,00	24,00	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	345,60	19,20	194,40	10,80	172,80	9,60	54
60	280,80	15,60	194,40	10,80	129,60	7,20	60
64	259,20	14,40	194,40	10,80	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	108,00	6,00	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	129,60	7,20	108,00	6,00	86,40	4,80	102
108	108,00	6,00	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	55,20	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
22	194,40	10,80	129,60	7,20	86,40	4,80	22
28	194,40	10,80	129,60	7,20	86,40	4,80	28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	108,00	6,00	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	38,40	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 90 mm		Thickness 100 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
28	86,40	4,80					28
35	86,40	4,80					35
42	76,80	1,20	62,40	1,20	52,80	1,20	42
48	72,00	1,20	60,00	1,20	52,80	1,20	48
54	72,00	1,20	60,00	1,20	50,40	1,20	54
60	64,80	1,20	57,60	1,20	48,00	1,20	60
64	60,00	1,20	52,80	1,20	48,00	1,20	64
70	60,00	1,20	48,00	1,20	40,80	1,20	70
76	60,00	1,20	48,00	1,20	43,20	1,20	76
89	50,40	1,20	43,20	1,20	38,40	1,20	89
102	48,00	1,20	38,40	1,20	33,60	1,20	102
108	48,00	1,20	38,40	1,20	33,60	1,20	108
114	43,20	1,20	38,40	1,20	31,20	1,20	114
133	38,40	1,20	31,20	1,20	26,40	1,20	133
140	38,40	1,20	31,20	1,20	28,80	1,20	140
159	31,20	1,20	28,80	1,20	24,00	1,20	159
168	28,80	1,20	24,00	1,20	21,60	1,20	168
194	24,00	1,20	21,60	1,20	21,60	1,20	194
219	21,60	1,20	21,60	1,20	16,80	1,20	219
245	19,20	1,20	14,40	1,20	14,40	1,20	245
273	14,40	1,20	12,00	1,20	12,00	1,20	273
305	12,00	1,20	12,00	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Internal diameter (mm)	Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	
54	38,40	1,20	54
60	38,40	1,20	60
64	33,60	1,20	64
70	31,20	1,20	70
76	31,20	1,20	76
89	28,80	1,20	89
102	24,00	1,20	102
108	24,00	1,20	108
114	24,00	1,20	114
133	21,60	1,20	133
140	21,60	1,20	140
159	21,60	1,20	159
168	16,80	1,20	168
194	14,40	1,20	194
219	12,00	1,20	219
245	12,00	1,20	245
273	9,60	1,20	273
305	9,60	1,20	305
324	9,60	1,20	324

Other dimensions or packaging units on request! The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

THERMO-TEK LM AIR ALU



DESCRIPTION OF PRODUCT

Thermo-teK Lamella Mat LM Air ALU is a mat consisting of individual mineral wool lamellas with vertical orientation, which are bonded on one side with reinforced multi-layer aluminium foil.

APPLICATIONS

Thermo-teK Lamella Mat LM Air ALU is recommended for thermal and sound insulation of the defined applications within technical insulation:

- Air duct insulation (rectangular and circular)
- Pipe lines



DECLARATION OF PERFORMANCE

www.dopki.com/T43080P

CERTIFICATES



Illustration: Mineral Wool lamella mat



Properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	—	A2 – s1, d0							—	EN 13501-1
Thermal conductivity	ϑ_m	10	40	50	100	150	200	250	°C	EN 12667
	λ	0,036	0,042	0,044	0,055	0,072	0,088	0,112	W/(m·K)	
Maximum service temperature	ST(+)	250							°C	EN 14706
Service temperature aluminium facing	—	≤ 80							°C	—
Density	ρ	ca. 28							kg/m ³	EN 1602
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200							m	EN 12086
Silicone free	—	No emissions by lacquering disturbing substances							—	—
Designation code	—	MW-EN14303-T5-ST(+)-250-MV2							—	EN 14303

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

Lenght* x Width x Thickness (mm)	Width 1000 mm (either as 1 roll or 2 x 500mm per bag)		Width 1200 mm (either as 1 roll or 2x 600mm per bag)	
	m ² /PU	m ² /pallet	m ² /PU	m ² /pallet
8000 x Width x 25	8,00	120,00	9,60	144,00
8000 x Width x 30	8,00	120,00	9,60	144,00
6000 x Width x 40	6,00	90,00	7,20	108,00
5000 x Width x 50	5,00	75,00	6,00	90,00
4000 x Width x 60	4,00	60,00	4,80	72,00
3000 x Width x 80	3,00	45,00	3,60	54,00
2500 x Width x 100	2,50	37,50	3,00	45,00



Illustration: Mineral Wool lamella mat


DESCRIPTION OF PRODUCT

Thermo-teK LM Eco ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil adhered to one side of Mineral Wool strips, which are perpendicular to the contact surface. This results in good compressive strength and flexibility for good workability.

Thermo-teK LM Eco ALU is non-combustible.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305MP

APPLICATIONS

Thermo-teK LM Eco ALU is used for heat insulation of industrial installations, heat and sound insulation of:

- Pipes
- Components e.g. elbows, T-pieces etc.
- Valves & flanges
- Air duct insulation - circular
- Air duct insulation - rectangular


CERTIFICATES


Properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1*							–	EN 13501-1
Thermal conductivity	θ	10	40	50	100	150	200	250	°C	EN 12667
	λ	0,037	0,042	0,044	0,056	0,070	0,088	0,109	W/(m·K)	
Maximum service temperature	ST(+)	250							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 35							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	s _d	≥ 200							m	EN 12086
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T4-ST(+)-250-WS1-MV2-CL10							–	EN 14303

* A2-s1,d0 (thickness: 20 mm)

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

** PU = packaging unit (PU = 2 rolls with width 500 mm)

Length* x Width x Thickness (mm)	m ² /PU**	m ² /pallet
8000 x 500/1000 x 30	8,00	120,00
6000 x 500/1000 x 40	6,00	90,00
5000 x 500/1000 x 50	5,00	75,00
4000 x 500/1000 x 60	–	–
3000 x 500/1000 x 80	–	–
2500 x 500/1000 x 100	–	–

Insulation thickness > 50 mm upon request



DESCRIPTION OF PRODUCT

Thermo-teK LM Pro ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil adhered to one side of Mineral Wool strips, which are perpendicular to the contact surface. This results in good compressive strength and flexibility for good workability.

Thermo-teK LM Pro ALU is non-combustible, Class A1.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305HP

APPLICATIONS

Thermo-teK LM Pro ALU is used for heat insulation of industrial installations, heat and sound insulation of:

- Pipes
- Components e.g. elbows, T-pieces etc.
- Valves & flanges
- Air duct insulation - circular
- Air duct insulation - rectangular



CERTIFICATES



Illustration: Mineral Wool lamella mat

Properties	Reference	Description/specifications						Unit	Standard
Reaction to fire	–	A1						–	EN 13501-1
Thermal conductivity	ϑ	40	50	100	150	200	250	°C	EN 12667
	λ	0,042	0,044	0,054	0,067	0,083	0,104	W/(m·K)	
Maximum service temperature	ST(+)	250						°C	EN 14706
Service temperature aluminium facing	–	≤ 80						°C	–
Water soluble chloride ions (AS quality)	–	≤ 10						ppm	EN 13468
Density	ρ	ca. 40						kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0						kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	S _d	≥ 200						m	EN 12086
Melting point of fibres	ϑ	≥ 1000						°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances						–	–
Specific heat capacity	C _p	1030						J/(kgK)	EN ISO 10456
Designation code	–	MW–EN14303–T4–ST(+)-250–WS1–MV2–CL10						–	EN 14303

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

** PU = packaging unit (PU = 2 rolls with width 500 mm)

Length* x Width x Thickness (mm)	m ² /PU**	m ² /pallet
8000 x 500/1000 x 30	8,00	120,00
6000 x 500/1000 x 40	6,00	90,00
5000 x 500/1000 x 50	5,00	75,00
4000 x 500/1000 x 60	–	–
3000 x 500/1000 x 80	–	–
2500 x 500/1000 x 100	–	–

Insulation thickness > 50 mm upon request

ROLL

THERMO-TEK RL ECO ALU / ALL



Illustration: Mineral Wool roll

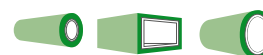
DESCRIPTION OF PRODUCT

Thermo-teK RL Eco ALU / ALL is a strong, flexible roll of non-combustible Mineral Wool with a tear resistant glass fibre reinforced aluminium-kraft-paper (ALU) or aluminium foil with an overlap (ALL).

APPLICATIONS

Thermo-teK RL Eco ALU/ALL is used for the thermal and acoustic insulation of all shapes of ductwork in heating, ventilating and air-conditioning systems and is suitable for all shapes of ductwork including

- Pipes
- Components e.g. elbows, T-pieces etc.
- Valves & flanges
- Air duct insulation - circular
- Air duct insulation - rectangular



DECLARATION OF PERFORMANCE

<http://dopki.com/T4220MP>

CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A2-s1, d0	–	EN 13501-1
Thermal conductivity	θ	10 20 40 60	°C	EN 12667
	λ	0,034 0,036 0,040 0,044	W/(m·K)	
Maximum service temperature	ST(+)	60	°C	EN 14706
Density	ρ	ca. 25	kg/m³	EN 1602
Designation code	–	MW-EN14303-T2-ST(+)-60	–	EN 14303
The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com				

* Further dimensions upon request

THERMO-TEK RL ECO ALU Length x Width x Thickness* (mm)	m²/ roll	m²/pallet
13000 x 1200 x 25	15,60	468,00
6700 x 1200 x 50	8,04	241,20

* Further dimensions upon request

THERMO-TEK RL ECO ALL Length x Width x Thickness* (mm)	m²/ roll	m²/pallet
16000 x 1200 x 25	19,20	460,80
8000 x 1200 x 50	9,60	230,40



Illustration: Mineral Wool roll

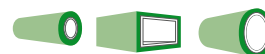
DESCRIPTION OF PRODUCT

Thermo-teK RL Pro ALU is a strong, flexible roll of non-combustible Mineral Wool with a tear resistant glass fibre reinforced aluminium foil on one side.

APPLICATIONS

Thermo-teK RL Pro ALU is used for the thermal and acoustic insulation of all shapes of ductwork in heating, ventilating and airconditioning systems and is suitable for all shapes of ductwork including

- Pipes
- Components e.g. elbows, T-pieces etc.
- Valves & flanges
- Air duct insulation - circular
- Air duct insulation - rectangular



DECLARATION OF PERFORMANCE

<http://dopki.com/T4207NP>

CERTIFICATIONS



Properties	Reference	Description/specifications			Unit	Standard
Reaction to fire	—	A2-s1, d0			—	EN 13501-1
Thermal conductivity	ð	10	50	100	°C	EN 12667
	λ	0,033	0,041	0,050	W/(m·K)	

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions upon request

Length x Width x Thickness* (mm)	m ² / roll	m ² /pallet
18000 x 1200 x 25	21,60	388,80
12000 x 1200 x 40	14,40	259,20
9000 x 1200 x 50	10,80	194,40

THERMO-TEK BD 030-100



Illustration: Thermo-teK board

DESCRIPTION OF PRODUCT

Thermo-teK boards are Mineral Wool insulation boards. They are non-combustible, sound and heat insulating, resistant to deformation and ageing and water repellent. The products contain no added formaldehyde in the Mineral Wool binder.

APPLICATIONS

Thermo-teK boards without facing are especially suitable for the insulation of

- Air ducts
- Air conditioning systems
- Machine enclosures



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Maximum service temperature*	ST(+)	250	°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	–	EN 14303/EN 13162
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–

* Recommendation value for BD 090 and BD 100. The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request. Note the minimum order quantities
Thickness available: 20–250 mm (depending on density)

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./pallet	m ² /pallet
1200 x 625 x 30	10,50	252	189,00
1200 x 625 x 50	7,50	150	112,50
1200 x 625 x 100	3,75	75	56,25
2000 x 1200 x 30	196,80	82	196,80
2000 x 1200 x 50	124,80	52	124,80
2000 x 1200 x 100	62,40	26	62,40

Thermo-teK	Density	MST	10	40	50	100	150	200	250	DOP-No.	Designation code
BD 030	ca. 30	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 035	ca. 35	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 040	ca. 40	250	0,036	0,040	0,042	0,052	0,065	0,081	0,100	T4305AR	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 050	ca. 50	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 060	ca. 60	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 070	ca. 70	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 080	ca. 80	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 090	ca. 90	250	0,035	0,038	–	–	–	–	–	R4305LPCPR	MW-EN13162-T5-WS-AF25
BD 100	ca. 100	250	0,035	0,038	–	–	–	–	–	R4305LPCPR	MW-EN13162-T5-WS-AF25

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

THERMO-TEK BD 030-100 ALU



Illustration: Thermo-teK board with reinforced pure aluminium foil

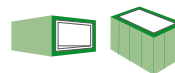
DESCRIPTION OF PRODUCT

Thermo-teK BD 030-100 ALU are Mineral Wool insulation boards which are laminated with a tear resistant glass fibre reinforced aluminium foil on one side. They are non-combustible, sound and heat insulating, resistant to deformation and ageing and water repellent. The products contain no added formaldehyde, neither in the Mineral Wool binder nor in the facing.

APPLICATIONS

Thermo-teK BD 030-100 ALU are especially suitable for the external insulation of

- Air ducts
- Air conditioning systems
- Machine enclosures



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Maximum service temperature*	ST(+)	250	°C	EN 14706
Service temperature aluminium facing	—	≤ 80	°C	—
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200	m	EN 12086
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—

* Recommendation value for BD 090 and BD 100.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request. Note the minimum order quantities

Thickness available: 20-250 mm (depending on density)

** PU = packaging unit = 1 package of boards

*** Not available for BD 030 ALU + BD 035 ALU

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./ pallet	m ² /pallet
1200 x 625 x 50***	7,50	150	112,50
1000 x 600 x 60	6,00	120	90,00
1200 x 625 x 100	3,75	75	56,25

Thermo-teK	Density	MST	10	40	50	100	150	200	250	DOP-No.	Designation code
BD 030	ca. 30	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 035	ca. 35	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 040	ca. 40	250	0,036	0,040	0,042	0,052	0,065	0,081	0,100	T4305AR	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 050	ca. 50	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 060	ca. 60	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 070	ca. 70	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 080	ca. 80	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-MV2-CL10
BD 090	ca. 90	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-T5-WS-AF25
BD 100	ca. 100	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-T5-WS-AF25

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

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THERMO-TEK BD 030-100 VWS



Illustration: Air-conditioning duct board with glass veil facing - white

DESCRIPTION OF PRODUCT

Thermo-teK BD 030-100 VWS are Mineral Wool insulation boards with a medium density Mineral Wool insulation board with a white colour glass veil facing on one side. They are non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing. The products contain no added formaldehyde, neither in the Mineral Wool binder nor in the facing.

APPLICATIONS

Thermo-teK BD 030-100 VWS are especially suitable for the external insulation of

- Air ducts
- Air conditioning systems
- Machine enclosures



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Maximum service temperature*	ST(+)	250	°C	EN 14706
Service temperature facing	—	≤ 80	°C	EN 14706
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Water vapour diffusion resistance	μ	1	—	EN 14303/EN 13162
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—

* Recommendation value for BD 090 and BD 100.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request. Note the minimum order quantities
Thickness available: 20-250 mm (depending on density)

** PU = packaging unit = 1 package of boards

*** Not available for BD 030 VWS + BD 035 VWS

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./pallet	m ² /pallet
1200 x 625 x 50 ***	7,50	150	112,50
1000 x 600 x 60	6,00	120	90,00
1200 x 625 x 100	3,75	75	56,25

Thermo-teK	Density	MST	10	40	50	100	150	200	250	DOP-No.	Designation code
BD 030	ca. 30	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 035	ca. 35	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 040	ca. 40	250	0,036	0,040	0,042	0,052	0,065	0,081	0,100	T4305AR	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 050	ca. 50	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 060	ca. 60	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 070	ca. 70	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 080	ca. 80	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 090	ca. 90	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-TS-WS-AF25
BD 100	ca. 100	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-TS-WS-AF25

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

THERMO-TEK BD 030-100 WBS



Illustration: Thermo-teK board with black woven

DESCRIPTION OF PRODUCT

Thermo-teK BD 030-100 WBS are medium density Mineral Wool insulation board laminated a black color glass woven facing on one side. They are non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing. The products contain no added formal-dehyde, neither in the Mineral Wool binder nor in the facing.

APPLICATIONS

Thermo-teK BD 030-100 WBS is especially suitable for internal insulation of

- Air ducts
- Air conditioning systems
- Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Maximum service temperature*	ST(+)	250	°C	EN 14706
Service temperature facing	—	≤ 150	°C	EN 14706
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	—	EN 14303/EN 13162
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Melting point of fibres	—	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—

* Recommendation value for BD 090 and BD 100.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request. Note the minimum order quantities
Thickness available: 20-250 mm (depending on density)

** PU = packaging unit = 1 package of boards

*** Not available for BD 030 WBS + BD 035 WBS

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./ pallet	m ² /pallet
1000 x 600 x 30***	8,40	252	189,00
1000 x 600 x 40***	7,20	240	144,00
1000 x 600 x 50***	6,00	200	120,00
1000 x 600 x 100	3,00	100	60,00

Thermo-teK	Density	MST	10	40	50	100	150	200	250	DOP-No.	Designation code
BD 030	ca. 30	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 035	ca. 35	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 040	ca. 40	250	0,036	0,040	0,042	0,052	0,065	0,081	0,100	T4305AR	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 050	ca. 50	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 060	ca. 60	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 070	ca. 70	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 080	ca. 80	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-TS-ST(+)-250-WS1-CL10
BD 090	ca. 90	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-TS-WS-AF25
BD 100	ca. 100	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-TS-WS-AF25

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

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THERMO-TEK BD 030-100 VBS



Illustration: Thermo-teK board with glass veil facing

DESCRIPTION OF PRODUCT

Thermo-teK BD 030-100 VBS are medium density Mineral Wool insulation boards with a black color glass veil facing on one side. They are non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and aging. The products are based on Ecosse Technology binder, which no added formaldehyde.

APPLICATIONS

Thermo-teK BD 030-100 VBS is especially suitable for internal insulation of

- Air ducts
- Air conditioning systems
- Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Maximum service temperature*	ST(+)	250	°C	EN 14706
Service temperature facing	—	≤ 150	°C	—
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	—	EN 14303/EN 13162
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—

* Recommendation value for BD 090 and BD 100.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request. Note the minimum order quantities
Thickness available: 20-250 mm (depending on density)

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./pallet	m ² /pallet
1000 x 600 x 30	8,40	252	189,00
1000 x 600 x 40	7,20	240	144,00
1000 x 600 x 50	6,00	200	120,00
1000 x 600 x 100	3,00	100	60,00

Thermo-teK	Density	MST	10	40	50	100	150	200	250	DOP-No.	Designation code
BD 030	ca. 30	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 035	ca. 35	250	0,038	0,044	0,046	0,059	0,075	0,096	0,123	T4305AP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 040	ca. 40	250	0,036	0,040	0,042	0,052	0,065	0,081	0,100	T4305AR	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 050	ca. 50	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 060	ca. 60	250	0,037	0,039	0,041	0,048	0,058	0,071	0,088	T4305LP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 070	ca. 70	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 080	ca. 80	250	0,035	0,038	0,039	0,046	0,056	0,065	0,077	T4305OP	MW-EN14303-T5-ST(+)-250-WS1-CL10
BD 090	ca. 90	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-T5-WS-AF25
BD 100	ca. 100	250	0,035	0,038	—	—	—	—	—	R4305LPCPR	MW-EN13162-T5-WS-AF25

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

SOUND ABSORBENT BOARD

SOUND-TEK BD 805 WBD

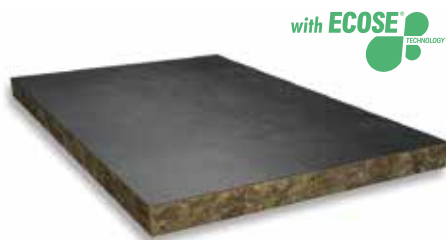


Illustration: Sound absorbent board with double-sided glass woven facing – black



DESCRIPTION OF PRODUCT

Sound-tek BD 805 WBD is a Mineral Wool insulating board which is laminated with black glass woven cloth facing on both sides. It is non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing.

DECLARATION OF PERFORMANCE

www.dopki.com/R4305LP

APPLICATIONS

Combined heat and sound insulation of
· Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Thermal conductivity at 10 °C	λ	0,035	W/(m·K)	EN 12667
Maximum service temperature	ST(+)	150	°C	–
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Density	ρ	ca. 50	kg/m ³	EN 1602
Longitudinal air flow resistance	r	≥ 10	kPa s/m ²	EN 29053
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	–	EN 13162
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–
Designation code	–	MW-EN13162-T5-MU1-WS-AF10	–	EN 13162

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions and/or densities on request.
Note the minimum order quantities
Thickness available: 80-250 mm

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./pallet	m ² /pallet
1000 x 600 x 100	3,0	100	60
1000 x 600 x 200	1,2	50	30

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

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SOUND-TEK BD 805 VBD

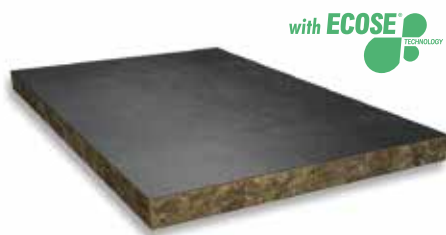


Illustration: Sound absorption board with double-sided glass veil facing - black



DESCRIPTION OF PRODUCT

Sound-tek BD 805 VBD is a Mineral Wool insulating board which is laminated with black glass veil facing on both sides. It is non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing.

DECLARATION OF PERFORMANCE

www.dopki.com/R4305LP

APPLICATIONS

Combined heat and sound insulation of
· Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Thermal conductivity at 10 °C	λ	0,035	W/(m·K)	EN 12667
Maximum service temperature	ST(+)	150	°C	—
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Density	ρ	ca. 50	kg/m ³	EN 1602
Longitudinal air flow resistance	r	≥ 10	kPa s/m ²	EN 29053
Water absorption	W_f	$\leq 1,0$	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	—	EN 13162
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—
Designation code	—	MW-EN13162-T5-MU1-WS-AF10	—	EN 13162

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions and/or densities on request.

Note the minimum order quantities

Thickness available: 80-250 mm

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./ pallet	m ² /pallet
1000 x 600 x 100	3,0	100	60
1000 x 600 x 200	1,2	50	30

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

SOUND-TEK BD 806 WBD

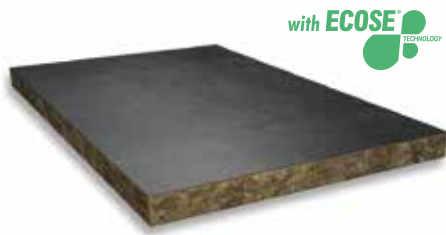


Illustration: Sound absorbtion board with double-sided glass wooven facing – black



DESCRIPTION OF PRODUCT

Sound-teK BD 806 WBD is a Mineral Wool insulating board which is laminated with black glass wooven cloth facing on both sides. It is non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing.

DECLARATION OF PERFORMANCE

www.dopki.com/R4305LP

APPLICATIONS

Combined heat and sound insulation of
· Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Thermal conductivity at 10 °C	λ	0,035	W/(m·K)	EN 12667
Maximum service temperature	ST(+)	150	°C	–
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Density	ρ	ca. 60	kg/m ³	EN 1602
Longitudinal air flow resistance	r	≥ 15	kPa s/m ²	EN 29053
Water absorption	W_p	$\leq 1,0$	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	–	EN 13162
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Designation code	–	ME-EN13162-T5-MU1-WS-AF15	–	EN 13162

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions and/or densities on request.

Note the minimum order quantities

Thickness available: 60-250 mm

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./ pallet	m ² /pallet
1000 x 600 x 100	3,0	100	60
1000 x 600 x 200	1,2	50	30

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

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SOUND-TEK BD 807 VWD



Illustration: Sound absorption board with double-sided glass woven facing - white

DESCRIPTION OF PRODUCT

Sound-teK BD 807 VWD is a Mineral Wool insulating board which is laminated with white glass woven cloth facing on both sides. It is non-combustible, water repellent, sound and heat insulating as well as resistant to deformation and ageing.

DECLARATION OF PERFORMANCE

www.dopki.com/R4305MP

APPLICATIONS

Combined heat and sound insulation of
· Sound absorbers



CERTIFICATIONS



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A1	—	EN 13501-1
Thermal conductivity at 10 °C	λ	0,034	W/(m·K)	EN 12667
Maximum service temperature	ST(+)	150	°C	—
Water soluble chloride ions (AS quality)	—	≤ 10	ppm	EN 13468
Density	ρ	ca. 70	kg/m ³	EN 1602
Longitudinal air flow resistance	r	≥ 15	kPa s/m ²	EN 29053
Water absorption	W_f	$\leq 1,0$	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	—	EN 13162
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Designation code	—	ME-EN13162-T5-MU1-WS-AF15	—	EN 13162

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions and/or densities on request.

Note the minimum order quantities

Thickness available: 60–250 mm

** PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Pcs./ pallet	m ² /pallet
1000 x 600 x 100	3,0	100	60
1000 x 600 x 200	1,2	50	30

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.

SOUND MAT

SOUND-TEK FM 140 ALU



Illustration: Sound mat with aluminium facing

DESCRIPTION OF PRODUCT

Sound-teK FM 140 ALU is a non-combustible mineral wool felt. It's alu faced and can be used for sound insulation

CERTIFICATIONS



APPLICATIONS

Sound-teK FM 140 ALU can be used in gaps between wall/ceilings and air ducts (rectangular/circular) for acoustic decoupling and to close the opening.

The product will be used as sealing and should be covered with a plaster or gypsum to ensure that the product is fixed.



Properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 14706
Density	ρ	ca. 140	kg/m ³	EN 1602
Melting point of fibres	θ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions and/or densities on request.

Length* x Width* x Thickness (mm)	m ² /roll	Pcs./pallet	m ² /pallet
1100 x 300 x 13	13,86	18	249,48

NOTE: Please note our information regarding the sound absorbing effect of Mineral Wool boards. See page 93.



FIRE PROTECTION

FIRE-TEK FOR
GREATER SAFETY



FIRE-TEK



FIRE-TEK BD 908 ALU

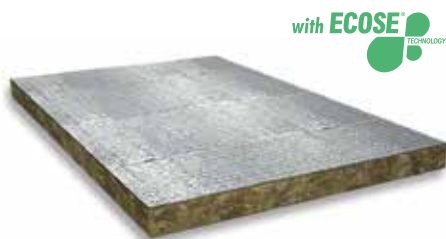


Illustration: Fire protection board



PRODUCT DESCRIPTION

Fire-teK BD 908 ALU is used for preventive fire protection on air ducts (EI30). The fire protection class EI30 is reached by high temperature resistant Mineral Wool boards with an aluminium foil facing on one side.

FIRE CLASSIFICATION

Respecting the defined installation manual Fire-teK BD 908 ALU can reach the defined fire protection class EI 30 (ve ho i<-> o) – S at rectangular ducts.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305PP

APPLICATIONS

Fire-teK BD 908 ALU has been developed for use on horizontal and vertical square ducts. The maximum dimension of the rectangular duct measures 1250 x 1000 mm or 1600 x 781 mm acc. to technical judgement.



CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,049	0,067	0,092	0,123	0,163	0,215	W/(m·K)	
Water absorption	W_p	$\leq 1,0$							kg/m ²	EN 1609
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m ³	EN 1602
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200							m	EN 12086
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Specific heat capacity	C_p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN 14303-T5-WS1-MV2-CL10							–	EN 14303

Please refer to the data sheet for complete current details. www.ki-ts.com.

* Other dimensions on request

**PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 60	5,00	16	48,00



Illustration: Fire protection board

PRODUCT DESCRIPTION

Fire-teK BD 912 ALU is used for preventive fire protection on air ducts (EI60). The fire protection class EI60 is reached by high temperature resistant Mineral Wool boards with an aluminium foil facing on one side.

FIRE CLASSIFICATION

Respecting the defined installation manual Fire-teK BD 912 ALU can reach the defined fire protection class EI 60 (ve ho i<-> o) – S at rectangular ducts.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305BP

APPLICATIONS

Fire-teK BD 912 ALU has been developed for use on horizontal and vertical square ducts. The maximum dimension of the rectangular duct measures 1250 x 1000 mm or 1600 x 781 mm acc. to technical judgement.


CERTIFICATIONS


Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,045	0,059	0,075	0,096	0,121	0,153	W/(m·K)	
Water absorption	W_p	$\leq 1,0$							kg/m ²	EN 1609
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 120							kg/m ³	EN 1602
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200							m	EN 12086
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Specific heat capacity	C_p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN 14303-TS-WS1-MV2-CL10							–	EN 14303

Please refer to the data sheet for complete current details. www.ki-ts.com.

* Other dimensions on request

**PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 60	4,00	20	48,00



INSTALLATION MANUAL: Please see on our website: www.ki-ts.com



Illustration: Fire protection board

PRODUCT DESCRIPTION

Fire-teK BD 917 ALU is a high-temperature-resistant Mineral Wool insulation board with single-sided aluminium lamination.

APPLICATIONS

Fire-teK BD 917 is fully tested and certified to provide up to 2 hours fire protection to HVAC steel ductwork. It can be used in horizontal ducts, vertical ducts, ducts passing through compartment walls and floors and kitchen extracts. The product is suitable for applications above clean rooms, within air plenums or for aesthetic purposes.


CERTIFICATIONS


Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Water absorption	W_p	$\leq 1,0$	kg/m ²	EN 1609
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Density	ρ	ca. 165	kg/m ³	EN 1602
Water vapour diffusion equivalent air layer thickness	S_d	≥ 200	m	EN 12086
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–

Please refer to the data sheet for complete current details. www.ki-ts.com.

* Other dimensions on request

**PU = packaging unit = 1 package of boards

Length* x Width* x Thickness (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1200 x 600 x 45	2,88	12	34,56
1200 x 600 x 90	1,44	12	17,28

FIRE PROTECTION WIRED MAT

FIRE-TEK WM 908 GGA



Illustration: Fire protection wired mat

DESCRIPTION OF PRODUCT

Fire-teK WM 908 GGA is supplied with galvanized steel mesh, stitched with galvanized steel wire and faced with reinforced aluminum foil between the Mineral Wool surface and the wire mesh. They are used for fire insulation of circular air ducts, with an high level of fire insulation properties. The user-friendliness during the installation is reinforced by the softness of the mats.

FIRE CLASSIFICATION

Respecting the defined installation manual Fire-teK WM 908 GGA can reach the defined fire protection class EI 30 (ve ho i<->o) – S (with 60 mm) and EI 60 (ve ho i<->o) – S (with 80 mm) at round ducts.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305EP

APPLICATIONS

Fire-teK WD 908 GGA has been developed for use on horizontal and vertical round ducts. The maximum dimension of the duct measures 1000 mm.



CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	θ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,046	0,062	0,084	0,112	0,146	0,190	W/(m·K)	
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m³	EN 1602
Water absorption	W _f	≤ 1,0							kg/m²	EN 1609
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-WS1-CL10							–	EN 14303

Please refer to the data sheet for complete current details. www.ki-ts.com

Loading unit = 1 pallet
Rolls/pallet = 21 pcs.

Length x Width x Thickness (mm)	m²/roll	m²/pallet
3500 x 900* x 60	3,5	73,50
3000 x 900* x 80	3,0	63,00

FIRE-TEK CR STD



DESCRIPTION OF PRODUCT

Fire-teK CR STD fire cord is made of mineral wool fibres without binder. It is chemically neutral, non-combustible and produced with a polyamide thread.

APPLICATIONS

The fire cord is recommended for thermal, fire and sound insulation in industrial plants, power plants and other special types where sealings with high temperatures are needed: Chimneys, pipe lines, ducts and joints.



CERTIFICATIONS



Illustration: Fire protection cord

Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	—	A2	—	EN 13501-1
Water soluble chloride ions (AS quality)	—	< 10	ppm	EN 13468
Water absorption	W_p	$\leq 1,0$	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	—	EN 14303
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances	—	—

Please refer to the data sheet for complete current details. www.ki-ts.com

Diameter (mm)	Length/roll (m)	m/PU	m/Palette
20	54	162,00	3888,00
30	36	108,00	2592,00
40	22	66,00	1584,00
50	12	36,00	864,00
60	10	30,00	720,00

INDUSTRY INSULATION

POWER HORSES IN INDUSTRY



POWER-TEK



WIRED MAT

DESCRIPTION OF PRODUCT

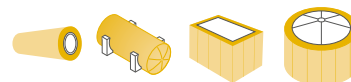
Wired mats with captive product labels are compact, elastic Mineral Wool mats, which are stitched with galvanised wire onto galvanised wire mesh. Non-combustible, resistant to high temperatures, water repellent and resistant to ageing. The Wired Mat packaging has a perforation for quick and safe opening, as well as a special carrying strap for safe and easy transport.

APPLICATIONS

Wired mats are used for heat, sound and fire protection insulation in the entire field of technical insulation as well as for air ducts and air conditioning systems:

- Piping
- Equipment and air-treatment installation
- Boiler and tank systems

- Furnaces
- Large boilers in power stations
- Waste incineration and chemical plants
- Shipbuilding
- Pipe installation components
- Fire protection: Wall and ceiling construction as well as ventilation duct cladding



Also available as:

Power-teK WM GSN	As for Power-teK WM GGN, however with V2A stitching wire stitched onto galvanised wire mesh
Power-teK WM SSN	As for Power-teK WM GGN, however with V2A stitching wire stitched onto V2A wire mesh
Power-teK WM GGA	As for Power-teK WM GGN, however with intermediate aluminium foil
Power-teK WM GSA	As for Power-teK WM GSN, however with intermediate aluminium foil
Power-teK WM SSA	As for Power-teK WM SSN, however with intermediate aluminium foil
Power-teK WM GGV*	As for Power-teK WM GGN, however with intermediate white veil

* Not available for WM 680





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TECHNOLOGY

DECLARATION OF PERFORMANCE

www.dopki.com/T4305DP

CERTIFICATIONS



Illustration: Mineral Wool wired mat without and with facing

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,047	0,067	0,094	0,130	0,173	0,228	W/(m·K)	
Maximum service temperature	ST(+)	620							°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 70							kg/m³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m²	EN 1609
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 20							kPa·s/m²	EN 29053
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Wire mesh	–	25 mm x 0,7 mm x 0,3 mm							–	EN 10223-2
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-ST(+)-620-WS1-CL10							–	EN 14303

Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request
Loading unit = 1 pallet
Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m²/roll	m²/pallet
6000 x 500* x 30	3,00	135,00
5500 x 500* x 40	3,00	135,00
4000 x 500* x 50	2,50	112,50
3500 x 500* x 60	2,00	90,00
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00

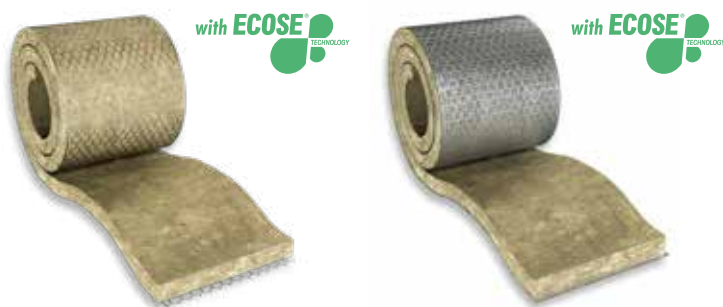


Illustration: Mineral Wool wired mat without and with facing

DECLARATION OF PERFORMANCE

www.dopki.com/T4305EP

CERTIFICATIONS



TYPE II
ASTM C 592

Power-teK WM 640 was tested according to standard and meets the requirements of ASTM C592 for Type II classification.

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity*	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,046	0,062	0,084	0,112	0,146	0,190	W/(m·K)	
Maximum service temperature*	ST(+)	640							°C	EN 14706
Water soluble chloride ions (AS quality)*	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m ³	EN 1602
Water absorption*	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 40							kPa·s/m ²	EN 29053
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Wire mesh	–	25 mm x 0,7 mm x 0,3 mm							–	EN 10223-2
Insulation material code*	–	10.01.02.40.08							–	AGI Q132
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW–EN14303–T2–ST(+)-640–WS1–CL10							–	EN 14303
* VDI 2055 monitored Please refer to the data sheet for complete current details. www.ki-ts.com										

* 1000 mm width on request
Loading unit = 1 pallet
Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
6000 x 500* x 30	3,00	135,00
5500 x 500* x 40	2,75	123,75
4000 x 500* x 50	2,00	90,00
3500 x 500* x 60	1,75	78,75
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00

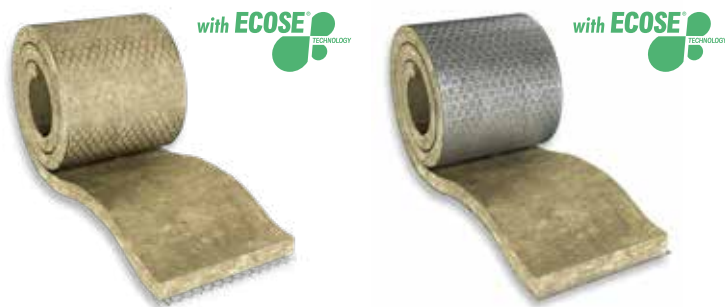


Illustration: Mineral Wool wired mat without and with facing

DECLARATION OF PERFORMANCE

www.dopki.com/T4305FP

CERTIFICATIONS



TYPE III
ASTM C 592

Power-teK WM 660 was tested according to standard and meets the requirements of ASTM C592 for Type III classification.

Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity*	g	50	100	200	300	400	500	600	650	°C	EN 12667
	λ	0,040	0,046	0,060	0,079	0,102	0,131	0,166	0,186	W/(m·K)	
Maximum service temperature*	ST(+)	660								°C	EN 14706
Water soluble chloride ions (AS quality)*	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 100								kg/m ³	EN 1602
Water absorption*	W _f	≤ 1,0								kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1								–	EN 14303
Melting point of fibres	g	≥ 1000								°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 50								kPa·s/m ²	EN 29053
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Wire mesh	–	25 mm x 0,7 mm x 0,3 mm								–	EN 10223-2
Insulation material code*	–	10.01.03.50.10								–	AGI Q132
Specific heat capacity	C _p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-ST(+)-660-WS1-CL10								–	EN 14303

* VDI 2055 monitored

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request

Loading unit = 1 pallet

Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
6000 x 500* x 30	3,00	135,00
5000 x 500* x 40	2,50	112,50
4000 x 500* x 50	2,00	90,00
3000 x 500* x 60	1,50	67,50
2500 x 500* x 70	1,25	56,25
2500 x 500* x 80	1,25	56,25
2000 x 500* x 90	1,00	45,00
2000 x 500* x 100	1,00	45,00
2000 x 500* x 120	1,00	45,00

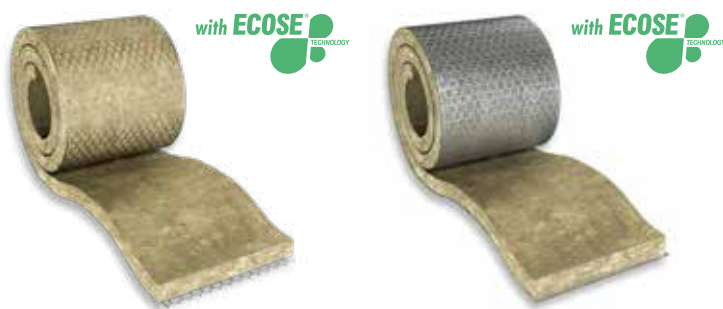


Illustration: Mineral Wool wired mat without and with facing

DECLARATION OF PERFORMANCE

www.dopki.com/T4305GP

CERTIFICATIONS



TYPE III
ASTM C 592

Power-teK WM 680 was tested according to standard and meets the requirements of ASTM C592 for Type III classification.

Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity	g	50	100	200	300	400	500	600	650	°C	EN 12667
	λ	0,040	0,047	0,061	0,078	0,098	0,125	0,159	0,179	W/(m·K)	
Maximum service temperature	ST(+)	680								°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 120								kg/m³	EN 1602
Water absorption	W _p	≤ 1,0								kg/m²	EN 1609
Water vapour diffusion resistance	μ	1								–	EN 14303
Melting point of fibres	g	≥ 1000								°C	DIN 4102-17
Longitudinal air flow resistance	r	≥ 65								kPa·s/m²	EN 29053
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Wire mesh	–	25 mm x 0,7 mm x 0,3 mm								–	EN 10223-2
Specific heat capacity	C _p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-ST(+)-680-WS1-CL10								–	EN 14303

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request
Loading unit = 1 pallet
Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m²/roll	m²/pallet
6000 x 500* x 30	3,00	135,00
5000 x 500* x 40	2,50	112,50
4000 x 500* x 50	2,00	90,00
3000 x 500* x 60	1,50	67,50
2500 x 500* x 70	1,25	56,25
2500 x 500* x 80	1,25	56,25
2000 x 500* x 90	1,00	45,00
2000 x 500* x 100	1,00	45,00
2000 x 500* x 120	1,00	45,00

POWER-TEK LM 450 ALU



Illustration: Mineral Wool lamella mat



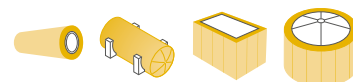
DESCRIPTION OF PRODUCT

Power-teK LM 450 ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil bonded to one side of Mineral Wool strips (lamellas). The Mineral Wool lamellas perpendicular to the contact surface provide a high compressive strength, while keeping flexibility and ease of handling. Non-combustible, temperature resistant, heat and noise insulating, resistant to ageing, water repellent.

APPLICATIONS

Power-teK LM 450 ALU is used for heat and noise insulation and fire protection of industrial installations, e.g.:

- Industrial plant
- District heating pipes
- Large boilers, tank installations
- Equipment, piping, heat storage tanks



DECLARATION OF PERFORMANCE

www.dopki.com/T4305HP

CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	θ	50	100	150	200	300	400	450	°C	EN 12667
	λ	0,044	0,054	0,067	0,083	0,130	0,202	0,250	W/(m·K)	
Maximum service temperature	ST(+)	450							°C	EN 14706
Service temperature lamination	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 40							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	s _d	≥ 200							m	EN 12086
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Designation code:	–	MW-EN14303-T4-ST(+)-450-WS1-MV2-CL10							–	EN 14303

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

** PU = packaging unit
(PU = 2 rolls with width 500 mm)

Loading unit = 1 pallet

Rolls/pallet^A = up to 80 mm thickness 15 pcs.

*** 1000 mm width on request

Length* x Width x Thickness (mm)	m ² /PU**	Rolled m ² /pallet	Length 2400 mm, m ² /pallet
8000 x 500*** x 30	8,00	120,00 ^A	–
6000 x 500*** x 40	6,00	90,00 ^A	–
5000 x 500*** x 50	5,00	75,00 ^A	–
4000 x 500*** x 60	4,00	60,00 ^A	–
3500 x 500*** x 70	3,50	52,50 ^A	–
3000 x 500*** x 80	3,00	45,00 ^A	–
2400 x 500*** x 100	–	–	28,80
2400 x 500*** x 120	–	–	24,00



Illustration: Mineral Wool lamella mat

**DESCRIPTION OF PRODUCT**

Power-teK LM 550 ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil bonded to one side of Mineral Wool strips (lamellas). The Mineral Wool lamellas perpendicular to the contact surface provide a high compressive strength, while keeping flexibility and ease of handling. Non-combustible, temperature resistant, heat and noise insulating, resistant to ageing, water repellent.

APPLICATIONS

Power-teK LM 550 ALU is used for the unsupported construction of heat and noise insulation and fire protection of industrial installations, e.g.:

- Industrial plant
- District heating pipes, walk-on piping
- Large boilers, tank installations
- Equipment, piping, heat storage tanks

**DECLARATION OF PERFORMANCE**

www.dopki.com/T4305IP

CERTIFICATIONS

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity*	θ	50	100	200	300	400	500	550	°C	EN 12667
	λ	0,043	0,052	0,076	0,109	0,154	0,211	0,256	W/(m·K)	
Maximum service temperature*	ST(+)	550							°C	EN 14706
Service temperature lamination	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)*	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 60							kg/m ³	EN 1602
Water absorption*	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	s _d	≥ 200							m	EN 12086
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Compressive strength*	σ _c	≥ 10							kPa	EN 826
Insulation material code*	–	10.03.02.99.06							–	AGI Q 132
Designation code	–	MW-EN14303-T4-ST(+)-550-CS(10)10-WS1-MV2-CL10							–	EN 14303

* Keymark monitored

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

DIMENSION		RECOMMENDED MAXIMUM INSULATION THICKNESS – ONE LAYER						
DN	oD	30	40	50	60	70	80	≥ 90
150	159	✓	✗					
200	219,1	✓	✓	✗				
250	273	✓	✓	✓	✗			
300	323,9	✓	✓	✓	✓	✗		
350	355,6	✓	✓	✓	✓	✓	✗	
400–2000	406,4–2019	✓	✓	✓	✓	✓	✓	✓
≥ 2000		✓	✓	✓	✓	✓	✓	✓

✓ possible

✗ possible with strength

Length* x Width x Thickness (mm)	m ² /PU**	Rolled m ² /pallet	Length 2400 mm, m ² /pallet
8000 x 500*** x 30	8,00	120,00 ^A	–
6000 x 500*** x 40	6,00	90,00 ^A	–
5000 x 500*** x 50	5,00	75,00 ^A	–
4000 x 500*** x 60	4,00	60,00 ^A	–
3500 x 500*** x 70	3,50	52,50 ^A	–
3000 x 500*** x 80	3,00	45,00 ^A	–
2400 x 500*** x 100	–	–	28,80
2400 x 500*** x 120	–	–	24,00

* Fixed lengths on request

** PU = packaging unit (PU = 2 rolls with width 500 mm)

Loading unit = 1 pallet

Rolls/pallet^A = up to 80 mm thickness 15 pcs.

*** 1000 mm width on request

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DESCRIPTION OF PRODUCT

Power-teK LM 640 ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil adhered to one side of Mineral Wool strips (lamellas), which are perpendicular to the contact surface. This results in high compressive strength while keeping flexibility and ease of handling.

Power-teK LM 640 ALU is non-combustible, temperature resistant, heat and noise insulating, resistant to ageing, water repellent.

APPLICATIONS

Power-teK LM 640 ALU is used for heat and noise insulation and fire protection of industrial installations, e.g.:

- Industrial plant
- District heating pipes, walk-on piping
- Large boilers, tank installations
- Equipment, piping, heat storage tanks

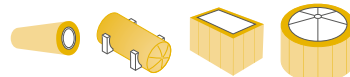


Illustration: Mineral Wool lamella mat

DECLARATION OF PERFORMANCE

www.dopki.com/T430SWP

CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	θ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,044	0,050	0,068	0,096	0,134	0,182	0,238	W/(m·K)	
Maximum service temperature	ST(+)	640							°C	EN 14706
Service temperature lamination	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m²	EN 1609
Water vapour diffusion equivalent air layer thickness	S _d	≥ 200							m	EN 12086
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Designation code	–	MW-EN14303-T4-ST(+)-640-WS1-MV2-CL10							–	EN 14303

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

** PU = packaging unit

(PU = 2 rolls with width 500 mm)

Loading unit = 1 pallet

Rolls/pallet^A = up to 80 mm thickness 15 pcs.

*** 1000 mm width on request

Length* x Width x Thickness (mm)	m²/PU**	Rolled m²/pallet	Length 2400 mm, m²/pallet
8000 x 500*** x 30	8,00	120,00 ^A	–
6000 x 500*** x 40	6,00	90,00 ^A	–
5000 x 500*** x 50	5,00	75,00 ^A	–
4000 x 500*** x 60	4,00	60,00 ^A	–
3500 x 500*** x 70	3,50	52,50 ^A	–
3000 x 500*** x 80	3,00	45,00 ^A	–
2400 x 500*** x 100	–	–	28,80
2400 x 500*** x 120	–	–	24,00

POWER-TEK LM 700 ALU



DESCRIPTION OF PRODUCT

Power-teK LM 700 ALU is a Mineral Wool mat with tear-resistant, glass fibre reinforced aluminium foil adhered to one side of Mineral Wool strips (lamellas), which are perpendicular to the contact surface. This results in high compressive strength while keeping flexibility and ease of handling.

Power-teK LM 700 ALU is non-combustible, temperature resistant, heat and noise insulating, resistant to ageing, water repellent.

APPLICATIONS

Power-teK LM 700 ALU is used for heat and noise insulation and fire protection of industrial installations, e.g.:

- Industrial plant
- District heating pipes, walk-on piping
- Large boilers, tank installations
- Equipment, piping, heat storage tanks

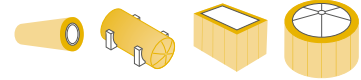


Illustration: Mineral Wool lamella mat

DECLARATION OF PERFORMANCE

www.dopki.com/T430SWP

CERTIFICATIONS



Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity	g	50	100	200	300	400	500	600	700	°C	EN 12667
	λ	0,044	0,050	0,068	0,096	0,134	0,182	0,238	0,304	W/(m·K)	
Maximum service temperature	ST(+)	700								°C	EN 14706
Service temperature lamination	–	≤ 80								°C	–
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 95								kg/m³	EN 1602
Water absorption	W _p	≤ 1,0								kg/m²	EN 1609
Water vapour diffusion equivalent air layer thickness	S _d	≥ 200								m	EN 12086
Melting point of fibres	g	≥ 1000								°C	DIN 4102-17
Specific heat capacity	C _p	1030								J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Designation code	–	MW–EN14303–T4–ST(+)-700–WS1–MV2–CL10								–	EN 14303

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Fixed lengths on request

** PU = packaging unit

(PU = 2 rolls with width 500 mm)

Loading unit = 1 pallet

Rolls/pallet^A = up to 80 mm thickness 15 pcs.

*** 1000 mm width on request

Length* x Width x Thickness (mm)	m²/PU**	Rolled m²/pallet	Length 2400 mm, m²/pallet
8000 x 500*** x 30	8,00	120,00 ^A	–
6000 x 500*** x 40	6,00	90,00 ^A	–
5000 x 500*** x 50	5,00	75,00 ^A	–
4000 x 500*** x 60	4,00	60,00 ^A	–
3500 x 500*** x 70	3,50	52,50 ^A	–
3000 x 500*** x 80	3,00	45,00 ^A	–
2400 x 500*** x 100	–	–	28,80
2400 x 500*** x 120	–	–	24,00

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PIPE SECTION

POWER-TEK PS 450



Illustration: Industrial pipe section



DESCRIPTION OF PRODUCT

Power-teK PS 450 is a 1200 mm long wound and ground Mineral Wool pipe section with a longitudinal slit on one side (opposite side slit internally) for easy installation on pipes. The product is non-combustible.

A high precision shape is ensured by means of minimal production tolerances.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305ZP

APPLICATIONS

Power-teK PS 450 is primarily used in industrial installations, e.g.:

- Chemical plants, industrial plants
- District heating pipes, pipelines
- Shipbuilding



CERTIFICATIONS



TYPE I-A
ASTM C 547

Power-teK PS 450 was tested according to standard and meets the requirements of ASTM C 547 for Type I-A classification.

Product properties	Reference	Description/specifications				Unit	Standard
Reaction to fire	–	A ₁ _L				–	EN 13501-1
Thermal conductivity depending on mean temperature	θ	50	100	150	200	°C	EN ISO 8497
	λ	0,039	0,046	0,053	0,064	W/(m·K)	
Maximum service temperature	ST(+)	450				°C	EN 14707
Water soluble chloride ions (AS quality)	–	≤ 10				ppm	EN 13468
Density	ρ	ca. 85–100				kg/m ³	EN 13470
Water absorption	W _p	≤ 1,0				kg/m ²	EN 13472
Water vapour diffusion resistance	μ	1				–	EN 14303
Melting point of fibres	θ	≥ 1000				°C	DIN 4102-17
Silicone-free fibress	–	No emissions by lacquering disturbing substances				–	–
Specific heat capacity	C _p	1030				J/(kgK)	EN ISO 10456
Designation code	–	External diameter < 150 mm: MW–EN14303–T8–ST(+)450–WS1–CL10				–	EN 14303
	–	External diameter > 150 mm: MW–EN14303–T9–ST(+)450–WS1–CL10				–	EN 14303

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	1036,80	57,60	540,00	30,00			15
18	907,20	50,40	540,00	30,00	320,40	16,80	18
22	777,60	43,20	432,00	24,00	280,80	15,60	22
28	648,00	36,00	432,00	24,00	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	388,80	21,60	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	302,40	16,80	172,80	9,60	172,80	9,60	54
60	259,20	14,40	172,80	9,60	129,60	7,20	60
64	216,00	12,00	172,80	9,60	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	86,40	4,80	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	86,40	4,80	86,40	4,80	86,40	4,80	102
108	86,40	4,80	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	55,20	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
22	194,40	10,80					22
28	194,40	10,80					28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	86,40	4,80	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	43,20	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 100 mm		Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
35	86,40	4,80	60,00	1,20			35
42	76,80	1,20	52,80	1,20			42
48	72,00	1,20	52,80	1,20			48
54	72,00	1,20	50,40	1,20			54
60	64,80	1,20	48,00	1,20	38,40	1,20	60
64	60,00	1,20	48,00	1,20	33,60	1,20	64
70	60,00	1,20	40,80	1,20	31,20	1,20	70
76	60,00	1,20	43,20	1,20	31,20	1,20	76
89	50,40	1,20	38,40	1,20	28,80	1,20	89
102	48,00	1,20	33,60	1,20	24,00	1,20	102
108	48,00	1,20	33,60	1,20	24,00	1,20	108
114	43,20	1,20	31,20	1,20	24,00	1,20	114
133	38,40	1,20	26,40	1,20	21,60	1,20	133
140	38,40	1,20	28,80	1,20	21,60	1,20	140
159	31,20	1,20	24,00	1,20	21,60	1,20	159
168	28,80	1,20	21,60	1,20	16,80	1,20	168
194	24,00	1,20	21,60	1,20	14,40	1,20	194
219	21,60	1,20	16,80	1,20	12,00	1,20	219
245	19,20	1,20	14,40	1,20	12,00	1,20	245
273	14,40	1,20	12,00	1,20	9,60	1,20	273
305	12,00	1,20	9,60	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Other dimensions or packaging units on request. The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

Packaging: Packaged in boxes, 18 boxes per pallet, box dimensions: H x W x T = 1200 x 400 x 400 mm
Individual pipe sections (package content = 1,20 m) are packed in foil.

MULTI-LAYER INSTALLATION

Tolerance classes: T8/T9 in accordance with EN 14303

Due to the standard product tolerances for internal and external diameters in accordance with EN 14303, Knauf Installation can only ensure dimensional compatibility for the installation of multi-layer pipe sections if our Customer Service department was informed at the time of order that the pipe sections are to be used in multi-layer applications.

NOTE: When ordering, please state explicitly that the pipe sections are to be used for two-layer insulation.



Illustration: Industrial pipe section

**DESCRIPTION OF PRODUCT**

Power-teK PS 680 is a 1200 mm long wound and ground Mineral Wool pipe section with a longitudinal slit on one side (opposite side slit internally) for easy installation on pipes. The product is non-combustible. A high precision shape is ensured by means of minimal production tolerances.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305JP

APPLICATIONS

Power-teK PS 680 is primarily used in industrial installations, e.g.:

- Plant and industrial construction
- Chemical plants, industrial plants
- District heating pipes, pipelines
- Shipbuilding

**CERTIFICATIONS**

TYPE II-A
ASTM C 547

Power-teK PS 680 was tested according to standard and meets the requirements of ASTM C 547 for Type II-A classification.

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A ₁ _L							–	EN 13501-1
Thermal conductivity depending on mean temperature*	θ	40	50	100	150	200	300	350	°C	EN ISO 8497
	λ	0,038	0,039	0,045	0,053	0,062	0,087	0,102	W/(m·K)	
Maximum service temperature*	ST(+)	680							°C	EN 14707
Water soluble chloride ions (AS quality)*	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 110–140							kg/m ³	EN 13470
Water absorption*	W _p	≤ 1,0							kg/m ²	EN 13472
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Silicone-free fibress	–	No emissions by lacquering disturbing substances							–	–
Insulation material code*	–	10.04.04.99.99							–	AGI Q 132
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	External diameter < 150 mm: MW-EN14303-T8-ST(+)-680-WS1-CL10							–	EN 14303
	–	External diameter > 150 mm: MW-EN14303-T9-ST(+)-680-WS1-CL10							–	EN 14303

* VDI 2055 monitored

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	1036,80	57,60	540,00	30,00			15
18	907,20	50,40	540,00	30,00	302,40	16,80	18
22	777,60	43,20	432,00	24,00	280,80	15,60	22
28	648,00	36,00	432,00	24,00	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	388,80	21,60	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	302,40	16,80	172,80	9,60	172,80	9,60	54
60	259,20	14,40	172,80	9,60	129,60	7,20	60
64	216,00	12,00	172,80	9,60	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	86,40	4,80	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	86,40	4,80	86,40	4,80	86,40	4,80	102
108	86,40	4,80	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	55,20	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
22	194,40	10,80	129,60	7,20			22
28	194,40	10,80	129,60	7,20			28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	86,40	4,80	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	43,20	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 100 mm		Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
35	86,40	4,80	60,00	1,20			35
42	76,80	1,20	52,80	1,20			42
48	72,00	1,20	52,80	1,20			48
54	72,00	1,20	50,40	1,20			54
60	64,80	1,20	48,00	1,20	38,40	1,20	60
64	60,00	1,20	48,00	1,20	33,60	1,20	64
70	60,00	1,20	40,80	1,20	31,20	1,20	70
76	60,00	1,20	43,20	1,20	31,20	1,20	76
89	50,40	1,20	38,40	1,20	28,80	1,20	89
102	48,00	1,20	33,60	1,20	24,00	1,20	102
108	48,00	1,20	33,60	1,20	24,00	1,20	108
114	43,20	1,20	31,20	1,20	24,00	1,20	114
133	38,40	1,20	26,40	1,20	21,60	1,20	133
140	38,40	1,20	28,80	1,20	21,60	1,20	140
159	31,20	1,20	24,00	1,20	21,60	1,20	159
168	28,80	1,20	21,60	1,20	16,80	1,20	168
194	24,00	1,20	21,60	1,20	14,40	1,20	194
219	21,60	1,20	16,80	1,20	12,00	1,20	219
245	19,20	1,20	14,40	1,20	12,00	1,20	245
273	14,40	1,20	12,00	1,20	9,60	1,20	273
305	12,00	1,20	9,60	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Other dimensions or packaging units on request. The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

Packaging: Packaged in boxes, 18 boxes per pallet, box dimensions: H x W x T = 1200 x 400 x 400 mm
Individual pipe sections (package content = 120 m) are packed in foil.



NOTE: When ordering, please state explicitly that the pipe sections are to be used for two-layer insulation.

MULTI-LAYER INSTALLATION

Tolerance classes: T8/T9 in accordance with EN 14303

Due to the standard product tolerances for internal and external diameters in accordance with EN 14303, Knauf Installation can only ensure dimensional compatibility for the installation of multi-layer pipe sections if our Customer Service department was informed at the time of order that the pipe sections are to be used in multi-layer applications.

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BENEFITS

- ✓ Specification texts in .doc format to be easily copied and pasted into tenders
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- ✓ Neutral and usable in public tenders, without naming of Knauf Insulation brand directly
- ✓ Available in different languages



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WIRED MATS KNAUF INSULATION POWER-TEK WM 640 GGA

Type of insulation:

Mineral wool wired mat for the insulation of piping, boiler and tank systems, furnaces, waste incineration and chemical plants.

The wired mat must have certification and CE marking in accordance with EN 14303.

Facing:

The wired mat shall have aluminium foil between the mineral wool and the wired mesh.

Description:

Mineral wool wired mat, stitched with galvanised wire onto galvanised wire mesh and aluminium foil between the mineral wool and the wired mesh. The mineral wool wired mat shall use a mainly bio-based binder, e.g. Ecose Technology, contain no added formaldehyde and be certified under Eurofins Gold Indoor Air Comfort quality standards or equivalent.

Main characteristics:

1. Eurofins
Certification Indoor Air Comfort: Gold Standard
2. Fire
The wired mats shall be non-combustible with the following reaction to fire according to EN 13501-1: A1
3. Thermal
The thermal conductivity λ -value shall be according to EN 12667:
0.040 W/(mK) at 50 °C
0.046 W/(mK) at 100 °C
0.063 W/(mK) at 200 °C
0.085 W/(mK) at 300 °C
0.112 W/(mK) at 400 °C
0.146 W/(mK) at 500 °C
0.192 W/(mK) at 600 °C
The maximum service temperature is measured according to EN 14706 and shall be minimum 640 °C
4. Chemicals
AS quality, according to EN 13468: content of chlorides less than 10 ppm.
5. Dimensional tolerances
The dimensional tolerances class shall be T2, according to EN 14303.
6. Other requirements
Water vapour diffusion resistance coefficient μ -value, according to EN 14303: $\mu = 1$.
Water absorption, according to EN 1609: maximum 1 kg/m².
Melting point of fibres, according to DIN 4102-17: ≥ 1000 °C.
Longitudinal air flow resistance, according to EN 29253: ≥ 40 kPa/s/m²

EN designation code:

MW-EN14303-T2-ST(+)-640-WS1-CL10

Standard Dimensions:

Wired mat length shall be: from 2000 mm to 6000 mm, depending on the thickness.
Wired mat width shall be 500 or 1000 mm.
Wired mat thickness shall be: 30, 40, 50, 60, 70, 80, 90, 100, 120 mm.

PIPE SECTIONS KNAUF INSULATION THERMO-TEK PS PRO ALU

Type of insulation:

Circular round mineral wool pipe section for the insulation of heating and water pipes. The pipe section must have certifications and CE marking in accordance with EN 14303.

Facing:

The pipe section shall have a glass-fibre reinforced aluminium foil.

Description:

Round and ground mineral wool pipe section with high-precision shape, faced with tear-resistant glass fibre reinforced aluminium foil. The mineral wool pipe section shall use a mainly bio-based binder, e.g. Ecose Technology, contain no added formaldehyde and be certified under Eurofins Gold Indoor Air Comfort quality standards or equivalent. To facilitate the installation on the pipe, the pipe section shall have a slight slit on the side opposite to the longitudinal opening. The longitudinal seam shall be closed with a self-adhesive overlap.

Main characteristics:

1. Eurofins
Certification Indoor Air Comfort: Gold Standard
2. Fire
The pipe section shall be non-combustible with the following reaction to fire according to EN 13501-1:
A2-s1, d0 for external diameter ≤ 300 mm
A2-s1, d0 for external diameter > 300 mm
The fire resistance according to EN 13501-2 has to be EI 120 for walls/ceilings seals.
3. Thermal
The thermal conductivity λ -value shall be according to EN ISO 8497:
0.033 W/(mK) at 10 °C
0.035 W/(mK) at 40 °C
0.037 W/(mK) at 50 °C
0.044 W/(mK) at 100 °C
0.052 W/(mK) at 150 °C
0.062 W/(mK) at 200 °C
0.073 W/(mK) at 250 °C
The maximum service temperature is measured according to EN 14707 and shall be minimum 550 °C.
4. Chemicals
AS quality, according to EN 13468: content of chlorides less than 10 ppm.
5. Dimensional tolerances
The dimensional tolerance class shall be T8 for pipes < 150 mm and T9 for pipes ≥ 150 mm external diameter according to EN 14303.
6. Other certifications
RAL certification: M1 classification.
7. Other requirements
Water vapour diffusion equivalent air layer thickness, according to EN 13469: $S_e \geq 100$ m.
Water absorption, according to EN 13472: maximum 1 kg/m².
Melting point of fibres, according to DIN 4102-17: ≥ 1000 °C.

EN designation code:

MW-EN14303-T8-ST(+)-550-WS1-MV1-CL10 (external diameter < 150 mm)

MW-EN14303-T9-ST(+)-550-WS1-MV1-CL10 (external diameter ≥ 150 mm)

Standard Dimensions:

Pipe section length shall be 1200 mm.
Pipe section internal diameter shall be between 15 and 324 mm according to the pipe outside dimension.
Pipe section thickness shall be: 20, 25, 30, 40, 50, 60, 70, 80, 90, 100, 120 mm.

POWER-TEK PS 700



Illustration: Industrial pipe section



DESCRIPTION OF PRODUCT

Power-teK PS 700 is a 1200 mm long wound and ground Mineral Wool pipe section with a longitudinal slit on one side (opposite side slit internally) for easy installation on pipes. The product is non-combustible.

A high precision shape is ensured by means of minimal production tolerances.

DECLARATION OF PERFORMANCE

www.dopki.com/T4305JP

APPLICATIONS

Power-teK PS 700 is primarily used in industrial installations, e.g.:

- Plant and industrial construction
- Chemical plants, industrial plants
- District heating pipes, pipelines
- Shipbuilding



CERTIFICATIONS



Product properties	Reference	Description/specifications						Unit	Standard
Reaction to fire	–	A1 _L						–	EN 13501-1
Thermal conductivity depending on mean temperature	θ	50	100	150	200	300	350	°C	EN ISO 8497
	λ	0,039	0,045	0,053	0,062	0,087	0,102	W/(m·K)	
Maximum service temperature	ST(+)	680						°C	EN 14707
Water soluble chloride ions (AS quality)	–	≤ 10						ppm	EN 13468
Density	ρ	ca. 140						kg/m ³	EN 13470
Water absorption	W _p	≤ 1,0						kg/m ²	EN 13472
Water vapour diffusion resistance	μ	1						–	EN 14303
Melting point of fibres	θ	≥ 1000						°C	DIN 4102-17
Silicone-free fibress	–	No emissions by lacquering disturbing substances						–	–
Specific heat capacity	C _p	1030						J/(kgK)	EN ISO 10456
Designation code	–	External diameter < 150 mm: MW-EN14303-T8-ST(+)-680-WS1-CL10						–	EN 14303
	–	External diameter > 150 mm: MW-EN14303-T9-ST(+)-680-WS1-CL10						–	EN 14303

The technical details are for information purposes only. Please refer to the data sheet for complete current details. www.ki-ts.com

Internal diameter (mm)	Thickness 20 mm		Thickness 30 mm		Thickness 40 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
15	1036,80	57,60	540,00	30,00			15
18	907,20	50,40	540,00	30,00	302,40	16,80	18
22	777,60	43,20	432,00	24,00	280,80	15,60	22
28	648,00	36,00	432,00	24,00	259,20	14,40	28
35	540,00	30,00	345,60	19,20	194,40	10,80	35
42	388,80	21,60	259,20	14,40	194,40	10,80	42
48	345,60	19,20	216,00	12,00	194,40	10,80	48
54	302,40	16,80	172,80	9,60	172,80	9,60	54
60	259,20	14,40	172,80	9,60	129,60	7,20	60
64	216,00	12,00	172,80	9,60	129,60	7,20	64
70	237,60	13,20	194,40	10,80	108,00	6,00	70
76	194,40	10,80	151,20	8,40	86,40	4,80	76
89	194,40	10,80	129,60	7,20	86,40	4,80	89
102	86,40	4,80	86,40	4,80	86,40	4,80	102
108	86,40	4,80	86,40	4,80	86,40	4,80	108
114	108,00	6,00	86,40	4,80	86,40	4,80	114
133			86,40	4,80	72,00	1,20	133
140			79,20	1,20	64,80	1,20	140
159			62,40	1,20	60,00	1,20	159
168			60,00	1,20	55,20	1,20	168
194			48,00	1,20	43,20	1,20	194
219			38,40	1,20	38,40	1,20	219
245			33,60	1,20	26,40	1,20	245
273			26,40	1,20	21,60	1,20	273
305			21,60	1,20	21,60	1,20	305
324			21,60	1,20	16,80	1,20	324

Internal diameter (mm)	Thickness 50 mm		Thickness 60 mm		Thickness 70 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
22	194,40	10,80					22
28	194,40	10,80					28
35	172,80	9,60	108,00	6,00	86,40	4,80	35
42	129,60	7,20	108,00	6,00	86,40	4,80	42
48	129,60	7,20	86,40	4,80	86,40	4,80	48
54	108,00	6,00	86,40	4,80	86,40	4,80	54
60	108,00	6,00	86,40	4,80	79,20	1,20	60
64	86,40	4,80	86,40	4,80	74,40	1,20	64
70	86,40	4,80	86,40	4,80	72,00	1,20	70
76	86,40	4,80	86,40	4,80	72,00	1,20	76
89	86,40	4,80	72,00	1,20	60,00	1,20	89
102	76,80	1,20	62,40	1,20	55,20	1,20	102
108	72,00	1,20	60,00	1,20	50,40	1,20	108
114	72,00	1,20	60,00	1,20	48,00	1,20	114
133	60,00	1,20	48,00	1,20	40,80	1,20	133
140	57,60	1,20	48,00	1,20	43,20	1,20	140
159	48,00	1,20	43,20	1,20	38,40	1,20	159
168	48,00	1,20	38,40	1,20	33,60	1,20	168
194	38,40	1,20	31,20	1,20	28,80	1,20	194
219	31,20	1,20	28,80	1,20	24,00	1,20	219
245	24,00	1,20	21,60	1,20	21,60	1,20	245
273	21,60	1,20	21,60	1,20	16,80	1,20	273
305	16,80	1,20	14,40	1,20	14,40	1,20	305
324	14,40	1,20	14,40	1,20	12,00	1,20	324

Internal diameter (mm)	Thickness 80 mm		Thickness 100 mm		Thickness 120 mm		Internal diameter (mm)
	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	Number of linear metres per pallet	Package content meters	
35	86,40	4,80	60,00	1,20			35
42	76,80	1,20	52,80	1,20			42
48	72,00	1,20	52,80	1,20			48
54	72,00	1,20	50,40	1,20			54
60	64,80	1,20	48,00	1,20	38,40	1,20	60
64	60,00	1,20	48,00	1,20	33,60	1,20	64
70	60,00	1,20	40,80	1,20	31,20	1,20	70
76	60,00	1,20	43,20	1,20	31,20	1,20	76
89	50,40	1,20	38,40	1,20	28,80	1,20	89
102	48,00	1,20	33,60	1,20	24,00	1,20	102
108	48,00	1,20	33,60	1,20	24,00	1,20	108
114	43,20	1,20	31,20	1,20	24,00	1,20	114
133	38,40	1,20	26,40	1,20	21,60	1,20	133
140	38,40	1,20	28,80	1,20	21,60	1,20	140
159	31,20	1,20	24,00	1,20	21,60	1,20	159
168	28,80	1,20	21,60	1,20	16,80	1,20	168
194	24,00	1,20	21,60	1,20	14,40	1,20	194
219	21,60	1,20	16,80	1,20	12,00	1,20	219
245	19,20	1,20	14,40	1,20	12,00	1,20	245
273	14,40	1,20	12,00	1,20	9,60	1,20	273
305	12,00	1,20	9,60	1,20	9,60	1,20	305
324	12,00	1,20	9,60	1,20	9,60	1,20	324

Other dimensions or packaging units in request! The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

Packaging: Packaged in boxes, 18 boxes per pallet, box dimensions: H x W x T = 1200 x 400 x 400 mm
Individual pipe sections (package content = 120 m) are packed in foil.



MULTI-LAYER INSTALLATION

Tolerance classes: T8/T9 in accordance with EN 14303

Due to the standard product tolerances for internal and external diameters in accordance with EN 14303, Knauf Installation can only ensure dimensional compatibility for the installation of multi-layer pipe sections if our Customer Service department was informed at the time of order that the pipe sections are to be used in multi-layer applications.

NOTE: When ordering, please state explicitly that the pipe sections are to be used for two-layer insulation.

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Illustration: Industrial pipe
belt with elbows

DECLARATION OF PERFORMANCE

www.dopki.com/T4305VP

CERTIFICATIONS



DESCRIPTION OF PRODUCT

Power-teK PB 640 ALU are pre-assembled pipe insulations made from Mineral Wool. The basic material is our board Power-teK BD 640 with with 500 or 1000 mm width, which has excellent thermal conductivity values and a high maximum service temperature. Installation and fastening is quick and simple. Power-teK PB 640 ALU is supplied in the form of boards, which can be stored and handled more easily than large size pipe sections.

APPLICATIONS

Power-teK PB 640 ALU are used for the heat insulation of large diameter pipes (> DN 325). The physical characteristics were developed on the basis of Power-teK PS 680, so that Power-teK PB 640 ALU supplements the Power-teK PS 680 pipe section range



Properties	Symbol	Description/specifications						Unit	Standard
Reaction to fire	–	A1						–	EN 13501-1
Thermal conductivity depending on mean temperature	ϑ	50	100	150	200	250	300	°C	EN ISO 8497*
	λ	0,039	0,046	0,054	0,064	0,077	0,091	W/(m·K)	
Maximum service temperature**	ST(+)	640						°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10						ppm	EN 13468
Density	ρ	ca. 80						kg/m ³	EN 1602
Water absorption	W_p	≤ 1,0						kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	S_d	≥ 200						m	EN 12086
Melting point of fibres	ϑ	≥ 1000						°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances						–	–
Specific heat capacity	C_p	1030						J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T9-ST(+)-640-WS1-MV2-CL10						–	EN 14303

* Measured values of the flat pre-material according to EN 12667 were converted to the application as a pipe section, comparable with measurements according to EN ISO 8497

** The temperature between the insulation layers must not exceed 180 °C and at the outside max. 80 °C.

STRAIGHT SEGMENTS (Thickness 40–80 mm)

Ø	Data	Thickness 40	Thickness 50	Thickness 60	Thickness 70	Thickness 80
356	Segments per belt*	1	1	1	1	1
	Linear metres per pallet**	60	48	40	36	30
	Pallet size (mm)***	1000 x 1400	1000 x 1500	1000 x 1500	1000 x 1600	1000 x 1700
407	Segments per belt*	1	1	1	1	1
	Linear metres per pallet**	60	48	40	36	30
	Pallet size (mm)***	1000 x 1600	1000 x 1600	1000 x 1700	1000 x 1800	1000 x 1800
458	Segments per belt*	1	1	1	1	1
	Linear metres per pallet**	60	48	40	36	30
	Pallet size (mm)***	1000 x 1700	1000 x 1800	1000 x 1900	1000 x 1900	1000 x 2000
508	Segments per belt*	1	1	1	2	2
	Linear metres per pallet**	60	48	40	18	16
	Pallet size (mm)***	1000 x 1900	1000 x 2000	1000 x 2000	1000 x 1100	1000 x 1100
559	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1100	1000 x 1100	1000 x 1100	1000 x 1200	1000 x 1200

STRAIGHT SEGMENTS (Thickness 40–80 mm)

0	Data	Thickness 40	Thickness 50	Thickness 60	Thickness 70	Thickness 80
610	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1100	1000 x 1200	1000 x 1200	1000 x 1200	1000 x 1200
712	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1300	1000 x 1300	1000 x 1400	1000 x 1400	1000 x 1400
813	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1500	1000 x 1500	1000 x 1500	1000 x 1500	1000 x 1600
915	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1600	1000 x 1600	1000 x 1700	1000 x 1700	1000 x 1700
1010	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	32	24	20	18	16
	Pallet size (mm)***	1000 x 1800	1000 x 1800	1000 x 1800	1000 x 1900	1000 x 1900

STRAIGHT SEGMENTS (Thickness 90–160 mm)

0	Data	Thickness 90	Thickness 100	Thickness 120	Thickness 140	Thickness 160
356	Segments per belt*	1	1	1	1	2
	Linear metres per pallet**	27	24	20	17	8
	Pallet size (mm)***	1000 x 1700	1000 x 1800	1000 x 1900	1000 x 2000	1000 x 1100
407	Segments per belt*	1	1	2	2	2
	Linear metres per pallet**	27	24	10	9	8
	Pallet size (mm)***	1000 x 1900	1000 x 2000	1000 x 1100	1000 x 1100	1000 x 1200
458	Segments per belt*	1	2	2	2	2
	Linear metres per pallet**	27	12	10	9	8
	Pallet size (mm)***	1000 x 2000	1000 x 1100	1000 x 1100	1000 x 1200	1000 x 1300
508	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1100	1000 x 1200	1000 x 1200	1000 x 1300	1000 x 1300
559	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1200	1000 x 1300	1000 x 1300	1000 x 1400	1000 x 1400
610	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1300	1000 x 1300	1000 x 1400	1000 x 1400	1000 x 1500
712	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1400	1000 x 1500	1000 x 1600	1000 x 1600	1000 x 1700
813	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1600	1000 x 1700	1000 x 1700	1000 x 1800	1000 x 1800
915	Segments per belt*	2	2	2	2	2
	Linear metres per pallet**	14	12	10	9	8
	Pallet size (mm)***	1000 x 1800	1000 x 1800	1000 x 1900	1000 x 1900	1000 x 2000
1010	Segments per belt*	2	2	2	2	3
	Linear metres per pallet**	14	12	10	6	5
	Pallet size (mm)***	1000 x 1900	1000 x 2000	1000 x 2000	1000 x 1400	1000 x 1400

- * a belt will fit the circumference of the relevant pipe; depending on diameter and insulation thickness one belt may consist of 1, 2 or 3 segments (2 segments to be joint on site to build the final belt before installing on the pipe)
- ** the PB 640 belt is always 500mm wide (1000 mm width available on demand); to cover 1 linear meter of pipe work two pieces of PB 640 in relevant size are necessary
- *** the pallet size varies with the length of the segment(s) according to diameter of pipe and insulation thickness



Illustration: Industrial pipe belt with elbows


CERTIFICATIONS

**TYPE III-A
ASTM C 547**

Power-teK PB 680 ALU was tested according to standard and meets the requirements of ASTM C 547 for Type III-A classification.

DESCRIPTION OF PRODUCT

Power-teK PB 680 ALU are pre-assembled pipe insulations made from mineral wool. The basic material is Power-teK BD 680, which has excellent thermal conductivity values and a high maximum service temperature. Installation and fastening is quick and simple. Power-teK PB 680 ALU is supplied in the form of boards, which can be stored and handled more easily than large size pipe sections.

APPLICATIONS

Power-teK PB 680 ALU are used for the heat insulation of large diameter pipes. The physical characteristics were developed on the basis of Power-teK PS 680, so that Power-teK PB 680 ALU supplements the Power-teK PS 680 pipe section range


DECLARATION OF PERFORMANCE
www.dopki.com/T4305SP

Properties	Symbol	Description/specifications						Unit	Standard
Reaction to fire	–	A1						–	EN 13501-1
Thermal conductivity depending on mean temperature	ϑ	50	100	150	200	300	350	°C	EN ISO 8497*
	λ	0,042	0,047	0,054	0,063	0,087	0,102	W/(m·K)	
Maximum service temperature	ST(+)	680**						°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10						ppm	EN 13468
Density	ρ	ca. 120						kg/m ³	EN 1602
Water absorption	W_p	≤ 1,0						kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness	s_d	≥ 200						m	EN 12086
Melting point of fibres	–	≥ 1000						°C	EN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances						–	–
Specific heat capacity	C_p	1030						J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T9-ST(+)-680-WS1-MV2-CL10						–	EN 14303

* Measured values of the flat pre-material according to EN 12667 were converted to the application as a pipe section, comparable with measurements according to EN ISO 8497

** The temperature between the insulation layers must not exceed 180 °C and at the outside max. 80 °C.

STRAIGHT SEGMENTS*

* All details in mm. Standard segment length: 1000 mm Number of segments per unit: 2 pcs. Further information on request.

0	Data	Thickness 40	Thickness 50	Thickness 60	Thickness 70	Thickness 80	Thickness 90	Thickness 100	Thickness 110	Thickness 120
356	Segment width	705,9	737,3	767,7	800,1	835,5	867,9	903,4	935,8	971,2
	Linear mm/package	3600	3600	2400	2400	1200	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	24000	19200	18000	15600	14400	13200	12000
	Pallet length	800	800	800	800	1000	1000	1000	1000	1000
407	Segment width	786,0	818,4	847,8	880,2	915,6	948,1	983,5	1015,9	1051,3
	Linear mm/package	3600	3600	3600	2400	2400	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	24000	19200	18000	15600	14400	13200	12000
	Pallet length	800	1000	1000	1000	1000	1000	1000	1200	1200

0	Data	Thickness 40	Thickness 50	Thickness 60	Thick- ness 70	Thickness 80	Thickness 90	Thickness 100	Thickness 110	Thickness 120
458	Segment width	866,1	898,5	927,9	960,3	995,8	1028,2	1063,6	1096,0	1131,4
	Linear mm/package	3600	2400	2400	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	24000	20400	18000	15600	14400	13200	12000
	Pallet length	1000	1000	1000	1000	1000	1200	1200	1200	1200
508	Segment width	944,6	977,0	1006,5	1038,9	1074,3	1106,7	1142,1	1174,5	1210,0
	Linear mm/package	2400	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	24000	20400	18000	15600	14400	13200	12000
	Pallet length	1000	1000	1000	1200	1200	1200	1200	1200	1500
559	Segment width	1024,7	1057,2	1086,6	1119,0	1154,4	1186,8	1222,2	1254,7	1290,1
	Linear mm/package	3600	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	24000	20400	18000	15600	15600	13200	12000
	Pallet length	1200	1200	1200	1200	1200	1200	1500	1500	1500
610	Segment width	1104,8	1137,3	1166,7	1199,1	1234,5	1266,9	1302,3	1334,8	1370,2
	Linear mm/package	2400	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	18000	14400	24000	20400	19200	16800	15600	13200	12000
	Pallet length	1200	1200	1200	1200	1500	1500	1500	1500	1500
661	Segment width	1185,0	1217,4	1246,8	1279,2	1314,6	1347,0	1382,5	1414,9	1450,3
	Linear mm/package	2400	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	36000	28800	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1200	1500	1500	1500	1500	1500	1500	1500	1500
712	Segment width	1265,1	1297,5	1326,9	1359,3	1394,7	1427,2	1462,6	1495,0	1530,4
	Linear mm/package	2400	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1500	1500	1500	1500	1500	1500	1500	1500	1500
762	Segment width	1343,6	1376,0	1405,4	1437,9	1473,3	1505,7	1541,1	1573,5	1608,9
	Linear mm/package	2400	2400	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1500	1500	1500	1500	1500	1600	1600	1600	1700
813	Segment width	1423,7	1456,1	1485,6	1518,0	1553,4	1585,8	1621,2	1653,6	1689,0
	Linear mm/package	2400	1200	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1500	1500	1500	1600	1600	1600	1700	1700	1700
839	Segment width	1464,6	1497,0	1526,4	1558,8	1594,2	1626,6	1662,1	1694,5	1729,9
	Linear mm/package	2400	1200	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1500	1500	1600	1600	1600	1700	1700	1700	1800
864	Segment width	1503,8	1536,2	1565,7	1598,1	1633,5	1665,9	1701,3	1733,7	1769,2
	Linear mm/package	1200	1200	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1600	1600	1600	1700	1700	1700	1800	1800	1800
915	Segment width	1583,9	1616,4	1645,8	1678,2	1713,6	1746,0	1781,4	1813,9	1849,3
	Linear mm/package	1200	1200	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1600	1700	1700	1700	1800	1800	1800	1900	1900
1010	Segment width	1733,2	1765,6	1795,0	1827,4	1862,8	1895,2	1930,7	1963,1	1998,5
	Linear mm/package	1200	1200	1200	1200	1200	1200	1200	1200	1200
	Linear mm/pallet	38400	31200	25200	21600	19200	16800	15600	13200	12000
	Pallet length	1800	1800	1800	1900	1900	1900	2000	2000	2000

THERMAL CALCULATIONS, ENERGY SAVINGS – QUICK AND EASY!

The intuitive and easy to understand user guidance enables you to easily calculate heat losses and energy costs. You obtain the information in just 5 steps and have reliable results due to VDI-certified calculation methods.



BENEFITS

- ⌚ **Online at any time and free of charge**
- ⌚ Intuitive and easy user guidance
- ⌚ Uncomplicated calculation of heat losses and energy costs in 5 steps
- ⌚ VDI-certified / ISO 12241 calculation methods
- ⌚ Available in various languages

 www.exper-tek.online

POWER-TEK PB SYS WM1 NEW KNAUF INSULATION SYSTEM WITHOUT SUB-CONSTRUCTION

EFFICIENT AND ECONOMICAL WITH A QUICK PAYBACK.

Unique Knauf Insulation system consisting of **Pipe Belt Power-teK PB 640** and **Wired Mat Power-teK WM 640**, featuring ECOSE® Technology, which is designed to withstand forces in such a way that typical **metal sub-construction becomes unnecessary**.



HEAT LOSS*
SAVING UP TO
21 %



SAVINGS
IN LOGISTIC
UP TO**
80 %



INSTALLA-
TION TIME***
SAVINGS UP TO
23 %



BENEFITS:

- Price ✓
- Installation time ✓
- Logistic ✓
- No thermal bridge ✓
- Compressive strength ✓

STAND ALONE SOLUTION FOR LARGE PIPES INSULATION

This innovative Knauf Insulation solution is a combination of two products, designed for the insulation of large diameter pipes. The innovative system made expensive metal construction excessive,

ensures quicker installation times and fewer labor hours leading to an overall **lower cost of installation**.

TYPICAL APPLICATIONS For installations on pipe work with diameter bigger than DN 300 in many cases a metal

under construction to take forces from the final metal cladding is necessary; our innovative system of two products system provides a solution that can avoid this complicated and expensive additional metal construction.

* vs. compressive strength Lamella mats, ** vs. Pipe section, *** vs. Wired mats with sub construction

BOARD

DESCRIPTION OF PRODUCT

High temperature boards are Mineral Wool boards which are the preferred material for high temperature applications up to a defined maximum service temperature. They are non-flammable, sound and heat insulating, resistant to deformation and ageing and water repellent.

APPLICATIONS

High temperature boards BD 450–700 are suitable for applications such as e.g.:

- Tank installations, equipment
- Boilers
- Sound insulation, insulation of machinery
- Drying plant
- Thermally resistant building constructions



POWER-TEK BD 450 / ALU



Illustration: Mineral Wool tank wall board

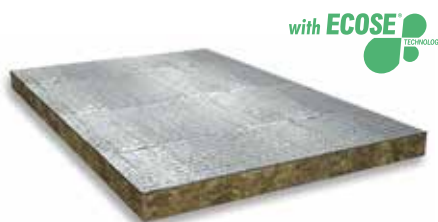


Illustration: Mineral Wool tank wall board with alu-facing

DECLARATION OF PERFORMANCE

www.dopki.com/T430SLP

CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	θ	10	50	100	200	300	400	450	°C	EN 12667
	λ	0,037	0,041	0,048	0,071	0,108	0,157	0,186	W/(m·K)	
Maximum service temperature	ST(+)	450							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 50							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	S _d	≥ 200							m	EN 12086
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	θ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 10							kPa·s/m ²	EN 29053
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-TS-ST(+)-450-WS1-CL10 (non faced) MW-EN14303-TS-ST(+)-450-WS1-MV2-CL10*							–	EN 14303

* (alu-faced)

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions and special versions with one-sided glass fibre fabric lamination on request. Maximum possible thickness 250 mm.

** PU = packaging unit = 1 package of boards
Minimum order quantity 2.5 tons/thickness, however only complete pallets.

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1200 x 625 x 50	7,50	15	112,50
1200 x 625 x 60	6,00	15	90,00
1200 x 625 x 80	4,50	15	67,50
1200 x 625 x 100	3,75	15	56,25
1200 x 625 x 120	3,00	15	45,00
1200 x 625 x 130	3,00	15	45,00
1200 x 625 x 140	2,25	18	40,50



Illustration: Mineral Wool high temperature board

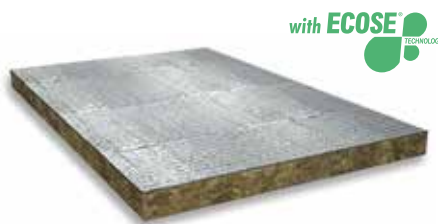


Illustration: Mineral Wool high temperature board with alu-facing


DECLARATION OF PERFORMANCE
www.dopki.com/T4305TP
CERTIFICATIONS


Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	g	50	100	200	300	400	500	550	°C	EN 12667
	λ	0,040	0,046	0,067	0,094	0,130	0,176	0,204	W/(m·K)	
Maximum service temperature	ST(+)	550							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 60							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	s _d	≥ 200							m	EN 12086
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	g	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 15							kPa · s/m ²	EN 29053
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T5-ST(+)-550-WS1-CL10 (non-faced) MW-EN14303-T5-ST(+)-550-WS1-MV2-CL10*							–	EN 14303

* (alu-faced)

 The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	4,80	20	96,00
1000 x 600 x 40	4,20	18	75,60
1000 x 600 x 50	3,60	18	64,80
1000 x 600 x 60	2,40	20	48,00
1000 x 600 x 80	2,40	16	38,40
1000 x 600 x 100	1,80	16	28,80



Illustration: Mineral Wool high temperature board

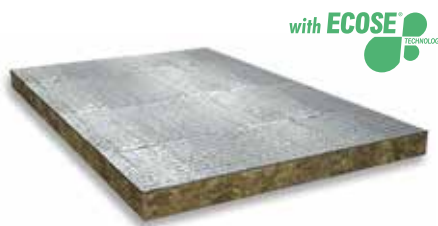


Illustration: Mineral Wool high temperature board with alu-facing


DECLARATION OF PERFORMANCE
www.dopki.com/T43050P
CERTIFICATIONS


Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	g	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,039	0,046	0,065	0,089	0,120	0,160	0,209	W/(m·K)	
Maximum service temperature	ST(+)	620							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 70							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	S _d	≥ 200							m	EN 12086
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	g	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 15							kPa · s/m ²	EN 29053
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T5-ST(+)-620-WS1-CL10 (non-faced) MW-EN14303-T5-ST(+)-620-WS1- MW2-CL10*							–	EN 14303

* (alu-faced)
The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	–	–	–
1000 x 600 x 40	4,80	16	58,80
1000 x 600 x 50	4,20	14	58,80
1000 x 600 x 60	3,60	14	50,40
1000 x 600 x 80	2,40	16	38,40
1000 x 600 x 100	2,40	12	28,80



Illustration: Mineral Wool high temperature board

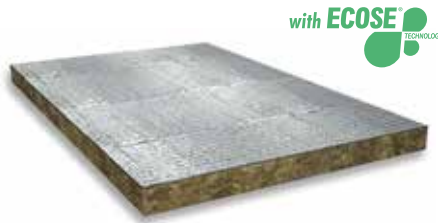


Illustration: Mineral Wool high temperature board with alu-facing



DECLARATION OF PERFORMANCE

www.dopki.com/T4305PP

CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	g	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,049	0,067	0,092	0,123	0,163	0,215	W/(m·K)	
Maximum service temperature	ST(+)	640							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m ³	EN 1602
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	s _d	≥ 200							m	EN 12086
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	g	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 15							kPa · s/m ²	EN 29053
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW–EN14303–T5–ST(+)-640–WS1–CL10 (non-faced) MW–EN14303–T5–ST(+)-640–WS1–MV2–CL10*							–	EN 14303

*(alu-faced)

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	4,80	20	96,00
1000 x 600 x 40	4,20	18	75,60
1000 x 600 x 50	3,60	18	64,80
1000 x 600 x 60	2,40	20	48,00
1000 x 600 x 80	2,40	16	38,40
1000 x 600 x 100	1,80	16	28,80



Illustration: Mineral Wool high temperature board

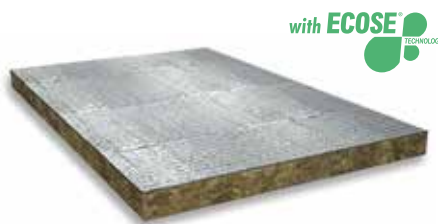


Illustration: Mineral Wool high temperature board with alu-facing

DECLARATION OF PERFORMANCE
www.dopki.com/T4305QP
CERTIFICATIONS

**TYPE IV-A
ASTM C 612**

Power-teK BD 660 was tested according to standard and meets the requirements of ASTM C 612 for Type IV-A classification.

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,039	0,044	0,060	0,078	0,102	0,132	0,169	W/(m·K)	
Maximum service temperature	ST(+)	660							°C	EN 14706
Service temperature aluminium facing	–	≤ 80							°C	–
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 100							kg/m ³	EN 1602
Water absorption	W_p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	s_d	≥ 200							m	EN 12086
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 25							kPa · s/m ²	EN 29053
Specific heat capacity	C_p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T5-ST(+)-660-WS1-CL10 (non-faced) MW-EN14303-T5-ST(+)-660-WS1-MV2-CL10*							–	EN 14303

* (alu-faced)

 The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	4,80	20	96,00
1000 x 600 x 40	4,20	18	75,60
1000 x 600 x 50	3,60	18	64,80
1000 x 600 x 60	2,40	20	48,00
1000 x 600 x 80	2,40	16	38,40
1000 x 600 x 100	1,80	16	28,80



Illustration: Mineral Wool high temperature board



Illustration: Mineral Wool high temperature board with alu-facing



DECLARATION OF PERFORMANCE

www.dopki.com/T4305BP

CERTIFICATIONS



Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	650	°C	EN 12667
	λ	0,040	0,045	0,059	0,075	0,096	0,121	0,153	0,180	W/(m·K)	
Maximum service temperature	ST(+)	680								°C	EN 14706
Service temperature aluminium facing	–	≤ 80								°C	–
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 120								kg/m ³	EN 1602
Water absorption	W_f	≤ 1,0								kg/m ²	EN 1609
Water vapour diffusion equivalent air layer thickness*	s_d	≥ 200								m	EN 12086
Water vapour diffusion resistance	μ	1								–	EN 14303
Melting point of fibres	ϑ	≥ 1000								°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Longitudinal air flow resistance	r	≥ 30								kPa · s/m ²	EN 29053
Specific heat capacity	C_p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T5-ST(+)-680-WS1-CL10 (non-faced) MW-EN14303-T5-ST(+)-680-WS1-MV2-CL10*								–	EN 14303

* (alu-faced)

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	–	–	–
1000 x 600 x 40	4,80	16	58,80
1000 x 600 x 50	4,20	14	58,80
1000 x 600 x 60	3,60	14	50,40
1000 x 600 x 80	2,40	16	38,40
1000 x 600 x 100	2,40	12	28,80



Illustration: Mineral Wool high temperature board

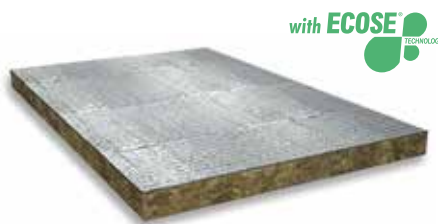


Illustration: Mineral Wool high temperature board with alu-facing

DECLARATION OF PERFORMANCE
www.dopki.com/T4305CP
CERTIFICATIONS

**TYPE IV
ASTM C 612**

Power-teK BD 700 was tested according to standard and meets the requirements of ASTM C 612 for Type IV classification.

Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	700	°C	EN 12667
	λ	0,041	0,045	0,059	0,075	0,095	0,119	0,147	0,178	W/(m·K)	
Maximum service temperature	ST(+)	700								°C	EN 14706
Service temperature aluminium facing	–	≤ 80								°C	–
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 150								kg/m³	EN 1602
Water absorption	W _f	≤ 1,0								kg/m²	EN 1609
Water vapour diffusion equivalent air layer thickness*	s _d	≥ 200								m	EN 12086
Water vapour diffusion resistance	μ	1								–	EN 14303
Melting point of fibres	ϑ	≥ 1000								°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Longitudinal air flow resistance	r	≥ 60								kPa · s/m²	EN 29053
Specific heat capacity	C _p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW–EN14303–T5–ST(+)-700–WS1–CL10 (non-faced) MW–EN14303–T5–ST(+)-700–WS1–MV2–CL10*								–	EN 14303

* (alu-faced)

 The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions on request.
Maximum possible thickness 250 mm.
** PU = packaging unit = 1 package of boards
Loading unit = 1 pallet

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 30	4,80	20	96,00
1000 x 600 x 40	4,50	16	72,00
1000 x 600 x 50	2,88	20	57,60
1000 x 600 x 60	3,00	16	48,00
1000 x 600 x 80	1,80	20	36,00
1000 x 600 x 100	1,20	26	31,20



Illustration: Mineral Wool tank top board

DESCRIPTION OF PRODUCT

Power-teK BD 775 is a Mineral Wool board with a special fibre orientation for high compressive strength. For heat and sound installation of equipment roofs in industrial plants.

DECLARATION OF PERFORMANCE

www.dopki.com/T4309YP

APPLICATIONS

Power-teK BD 775 is especially recommended for the heat and sound installation of tank roofs. It is also suitable for other applications, e.g.:

- Equipment
- Operating equipment

**CERTIFICATIONS**

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	–	A1							–	EN 13501-1
Thermal conductivity	ϑ	50	100	150	200	300	400	450	°C	EN 12667
	λ	0,042	0,046	0,052	0,058	0,073	0,095	0,108	W/(m·K)	
Maximum service temperature	ST(+)	450							°C	EN 14706
Water soluble chloride ions (AS quality)	–	≤ 10							ppm	EN 13468
Density	ρ	ca. 150							kg/m ³	EN 1602
Water absorption	W_f	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1							–	EN 14303
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances							–	–
Longitudinal air flow resistance	r	≥ 50							kPa·s/m ²	EN 29053
Compressive strength	σ_{10}	> 50							kPa	EN 826
Specific heat capacity	C_p	1030							J/(kgK)	EN ISO 10456
Designation code	–	MW–EN14303–T5–ST(+)450–CS(10)50–WS1–CL10							–	EN 14303

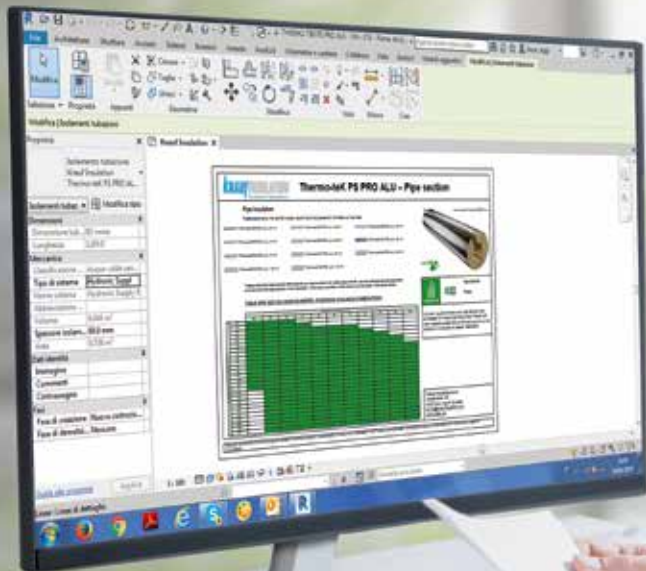
The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Further dimensions and special versions with one-sided glass fibre fabric lamination on request. Maximum possible thickness 250 mm.

** PU = packaging unit = 1 package of boards
Minimum order quantity 2.5 tons/thickness, however only complete pallets.

Length* x Width* x Thickness* (mm)	m ² /PU**	Bundles/pallet	m ² /pallet
1000 x 600 x 50	3,00	18	54,00
1000 x 600 x 60	2,40	20	48,00
1000 x 600 x 80	1,80	20	36,00
1000 x 600 x 100	1,20	24	28,80
1000 x 600 x 120	1,20	20	24,00
1000 x 600 x 140	1,20	18	21,60

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POWER-TEK FM 040-060 / ALU



Illustration: Mineral Wool felt mat

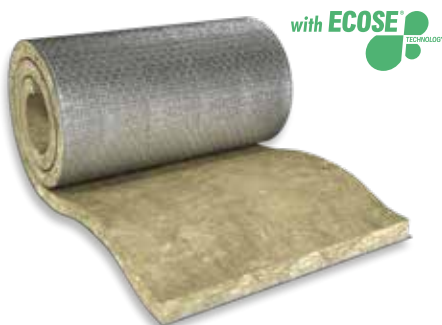


Illustration: Mineral Wool felt mat with alu-facing

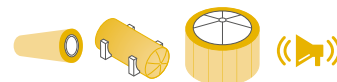
DESCRIPTION OF PRODUCT

Power-teK FM 040-060 ALU is a non-combustible Mineral Wool felt mat.

APPLICATIONS

Felt Mats are recommended for insulation in difficult accessible cavities in construction, equipment and industrial plants:

- Piping (elbows, fittings)
- Non-regular units
- Fill material for mattresses



CERTIFICATIONS



Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	EN 13501-1
Maximum service temperature	ST(+)	250 (recommended)	°C	–
Service temperature aluminium facing	–	≤ 80	°C	–
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1	–	EN 14303
Water vapour diffusion equivalent air layer thickness*	s_d	≥ 200	m	EN 12086
Melting point of fibres	ϑ	≥ 1000	°C	DIN 4102-17
Specific heat capacity	C_p	1030	J/(kgK)	EN ISO 10456
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–

* For alu-faced product. The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

Power-teK	Thermal conductivity at 10 °C in W/(m·K) acc. to EN 12667	Density in kg/m ³ acc. to EN 1602	Designation code	DOP-No. www.dopki.com
FM 040 / ALU	0,037	ca. 40	MW-EN13162-T2-WS-AF5	R4305JP
FM 050 / ALU	0,035	ca. 50	MW-EN13162-T2-WS-AF10	R4305LP
FM 060 / ALU	0,035	ca. 60	MW-EN13162-T2-WS-AF15	R4305LP

Also available with alu facing.

* 1000 mm width on request
Loading unit = 1 pallet
Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
6000 x 500* x 30	3,00	135,00
5500 x 500* x 40	2,75	123,75
4000 x 500* x 50	2,00	90,00
3500 x 500* x 60	1,75	78,75
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00



Illustration: Mineral Wool felt mat

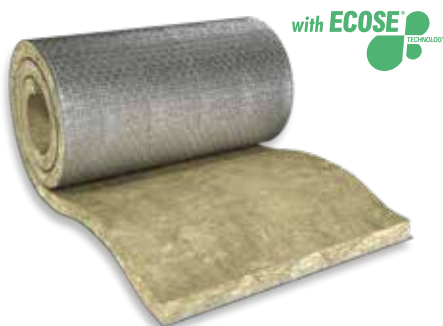


Illustration: Mineral Wool felt mat with alu-facing

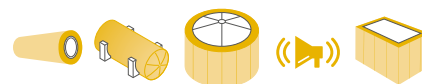
DESCRIPTION OF PRODUCT

Power-teK FM 070 ALU is a non-combustible Mineral Wool felt mat.

APPLICATIONS

Felt Mats are recommended for insulation in difficult accessible cavities in construction, equipment and industrial plants:

- Piping (elbows, fittings)
- Non-regular units
- Fill material for mattresses

**DECLARATION OF PERFORMANCE**

www.dopki.com/T430SDP

CERTIFICATIONS

Product properties	Reference	Description/specifications								Unit	Standard
Reaction to fire	–	A1								–	EN 13501-1
Thermal conductivity	ϑ	50	100	200	300	400	500	600	620	°C	EN 12667
	λ	0,040	0,047	0,067	0,094	0,130	0,173	0,228	0,239	W/(m·K)	
Maximum service temperature	ST(+)	620								°C	EN 14706
Service temperature aluminium facing	–	≤ 80								°C	–
Water soluble chloride ions (AS quality)	–	≤ 10								ppm	EN 13468
Density	ρ	ca. 70								kg/m ³	EN 1602
Water absorption	W_p	≤ 1,0								kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1								–	EN 14303
Water vapour diffusion equivalent air layer thickness*	s_d	≥ 200								m	EN 12086
Melting point of fibres	ϑ	≥ 1000								°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances								–	–
Longitudinal air flow resistance	r	≥ 20								kPa·s/m ²	EN 29053
Specific heat capacity	C_p	1030								J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-ST(+)-620-WS1-CL10 MW-EN14303-T2-ST(+)-620-WS1-MV2-CL10*								–	EN 14303

* For alu-faced product.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request

Loading unit = 1 pallet

Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
5500 x 500* x 40	2,75	123,75
4000 x 500* x 50	2,00	90,00
3500 x 500* x 60	1,75	78,75
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00



Illustration: Mineral Wool felt mat

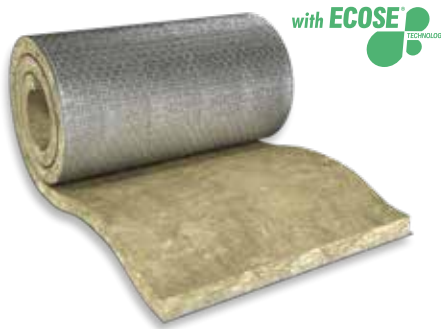


Illustration: Mineral Wool felt mat with alu-facing

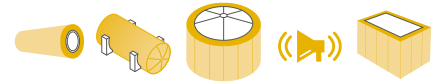
DESCRIPTION OF PRODUCT

Power-teK FM 080 ALU is a non-combustible Mineral Wool felt mat.

APPLICATIONS

Felt Mats are recommended for insulation in difficult accessible cavities in construction, equipment and industrial plants:

- Piping (elbows, fittings)
- Non-regular units
- Fill material for mattresses

**DECLARATION OF PERFORMANCE**

www.dopki.com/T4305EP

CERTIFICATIONS

Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	—	A1							—	EN 13501-1
Thermal conductivity*	g	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,040	0,046	0,062	0,084	0,112	0,146	0,190	W/(m·K)	
Maximum service temperature*	ST(+)	640							°C	EN 14706
Service temperature aluminium facing	—	≤ 80							°C	—
Water soluble chloride ions (AS quality)*	—	≤ 10							ppm	EN 13468
Density	ρ	ca. 80							kg/m ³	EN 1602
Water absorption*	W _f	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1							—	EN 14303
Water vapour diffusion equivalent air layer thickness**	S _d	≥ 200							m	EN 12086
Melting point of fibres	g	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances							—	—
Longitudinal air flow resistance	r	≥ 40							kPa·s/m ²	EN 29053
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456
Designation code	—	MW-EN14303-T2-ST(+)-640-WS1-CL10 MW-EN14303-T2-ST(+)-640-WS1-MV2-CL10**							—	EN 14303

* VDI 2055 monitored

** For alu-faced product.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request
Loading unit = 1 pallet
Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
5500 x 500* x 40	2,75	123,75
4000 x 500* x 50	2,00	90,00
3500 x 500* x 60	1,75	78,75
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00



Illustration: Mineral Wool felt mat

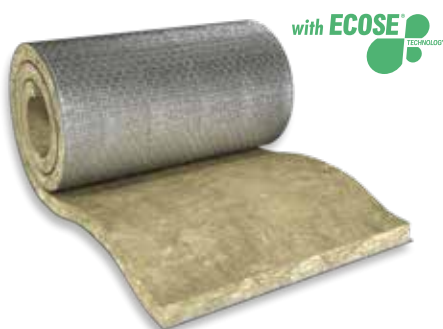


Illustration: Mineral Wool felt mat with alu-facing

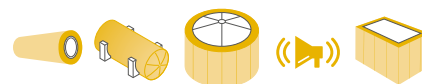
DESCRIPTION OF PRODUCT

Power-teK FM 100 ALU is a non-combustible Mineral Wool felt mat.

APPLICATIONS

Power-teK FM 100 is recommended for insulation in difficult accessible cavities in construction, equipment and industrial plants:

- Piping (elbows, fittings)
- Non-regular units
- Fill material for mattresses

**DECLARATION OF PERFORMANCE**

www.dopki.com/T4305FP

CERTIFICATIONS

Product properties	Reference	Description/specifications									Unit	Standard
Reaction to fire	–	A1									–	EN 13501-1
Thermal conductivity*	g	50	100	200	300	400	500	600	650		°C	EN 12667
	λ	0,040	0,046	0,060	0,079	0,102	0,131	0,166	0,186	W/(m·K)		
Maximum service temperature*	ST(+)	660									°C	EN 14706
Service temperature aluminium facing	–	≤ 80									°C	–
Water soluble chloride ions (AS quality)*	–	≤ 10									ppm	EN 13468
Density	ρ	ca. 100									kg/m ³	EN 1602
Water absorption*	W _p	≤ 1,0									kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1									–	EN 14303
Water vapour diffusion equivalent air layer thickness**	s _d	≥ 200									m	EN 12086
Melting point of fibres	g	≥ 1000									°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances									–	–
Longitudinal air flow resistance	r	≥ 50									kPa·s/m ²	EN 29053
Specific heat capacity	C _p	1030									J/(kgK)	EN ISO 10456
Designation code	–	MW-EN14303-T2-ST(+)-660-WS1-CL10 MW-EN14303-T2-ST(+)-660-WS1-MV2-CL10**									–	EN 14303

* VDI 2055 monitored

** For alu-faced product.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* 1000 mm width on request

Loading unit = 1 pallet

Rolls/pallet = 45 pcs.

Length x Width x Thickness (mm)	m ² /roll	m ² /pallet
6000 x 500* x 30	3,00	135,00
5500 x 500* x 40	2,75	123,75
4000 x 500* x 50	2,00	90,00
3500 x 500* x 60	1,75	78,75
3500 x 500* x 70	1,75	78,75
3000 x 500* x 80	1,50	67,50
2500 x 500* x 90	1,25	56,25
2500 x 500* x 100	1,25	56,25
2000 x 500* x 120	1,00	45,00

POWER-TEK RL 150



Illustration: Mineral Wool mat



DESCRIPTION OF PRODUCT

Power-teK RL is a light Mineral Wool mat which is dedicated for the application on heat storage tanks with optimized insulation thickness for a economical installation.

APPLICATIONS

The product is recommended for thermal insulation of the defined applications within technical insulation.

- Heat storage tanks with thick insulation thickness



DECLARATION OF PERFORMANCE

www.dopki.com/T4222MPCPR

CERTIFICATIONS



Product properties	Reference	Description/specifications				Unit	Standard
Reaction to fire	–	A1				–	EN 13501–1
Thermal conductivity	ϑ	10	50	100	150	°C	EN 12667
	λ	0,034	0,042	0,054	0,067	W/(m·K)	
Maximum service temperature	ST(+)	150					EN 14706
Density	ρ	ca. 22				kg/m³	EN 1602
Water absorption	W _p	≤ 1,0				kg/m²	EN 1609
Water vapour diffusion resistance	μ	1				–	EN 14303
Longitudinal air flow resistance	r	≥ 5				kPa·s/m²	EN 29053
Designation code	–	MW–EN14303–T2–ST(+)-150–WS1				–	EN 14303
The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com							

* Further dimensions on request.

Length* x Width* x Thickness* (mm)	m ² /roll	Bundles/pallet	m ² /pallet
4500 x 1200 x 140	5,40	24	129,60
4000 x 1200 x 160	4,80	24	115,20
3500 x 1200 x 180	4,20	24	100,80
3200 x 1200 x 200	3,84	24	92,16
3600 x 1200 x 220	4,32	18	77,76
3200 x 1200 x 240	3,84	18	69,12
3100 x 1200 x 250	3,72	18	66,96
3000 x 1200 x 260	3,60	18	64,80
2800 x 1200 x 280	3,36	18	60,48
2600 x 1200 x 300	3,12	18	56,16

LOOSE WOOL

POWER-TEK LW STD



Illustration: Loose Mineral Wool without binder

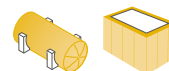
DESCRIPTION OF PRODUCT

Power-teK LW STD is loose Mineral Wool without binder. It is non-combustible, sound and heat insulating, resistant to ageing and water repellent. For all types of insulation packing, e.g. in poorly accessible cavities in plant and industrial construction. It is suitable for the high temperature range up to approx. 660 °C (depending on the packing density).

APPLICATIONS

Power-teK LW STD is suitable for the following applications:

- Furnaces
- Cavities
- Insulation packing
- Mattresses
- Plant and industrial construction
- Shafts and poorly accessible cavities



DECLARATION OF PERFORMANCE

www.dopki.com/T4309XP

CERTIFICATIONS



Product properties	Reference	Description/specifications							Unit	Standard
Reaction to fire	—	A1							—	EN 13501-1
Thermal conductivity*	ϑ	50	100	200	300	400	500	600	°C	EN 12667
	λ	0,041	0,049	0,067	0,090	0,120	0,156	0,205	W/(m·K)	
Maximum service temperature*	ST(+)	660							°C	EN 14706
Water soluble chloride ions (AS quality)	—	≤ 10							ppm	EN 13468
Water absorption	W _p	≤ 1,0							kg/m ²	EN 1609
Water vapour diffusion resistance	μ	1							—	EN 14303
Melting point of fibres	ϑ	≥ 1000							°C	DIN 4102-17
Silicone-free fibres	—	No emissions by lacquering disturbing substances							—	—
Specific heat capacity	C _p	1030							J/(kgK)	EN ISO 10456

* Measured at 100 kg/m³

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* PU = packaging unit (PU = 1 foil bag, other packaging sizes on request)

Loading unit = 1 pallet

kg/PU*	Bags/pallet
10	40



Illustration: Loose Mineral Wool without binder, especially low oil content

DESCRIPTION OF PRODUCT

Power-teK LW CRY is loose Mineral Wool without binder. It has an especially low organic content (< 0,3 weight-%), is non-combustible, sound and heat insulating, resistant to ageing and water repellent. It is manufactured in compliance with the requirements of the AGI worksheet Q 118 for insulation of air separation plant and fulfils the requirements of Factory Standard 152-1 of Linde AG.

DECLARATION OF PERFORMANCE

www.dopki.com/T4309WP

APPLICATIONS

Power-teK LW CRY is especially suitable for applications which are free of oil and grease, for insulation packing in air separation plant and installations for the storage and use of liquid oxygen and other gases produced during air separation, down to a temperature of -180 °C

CERTIFICATIONS



Product properties	Reference	Description/specifications					Unit	Standard
Reaction to fire	–	A1						EN 13501-1/ EN 13820
Thermal conductivity	ST(+)	-180	-100	-50	0	50	°C	EN 12667
	λ	0,014	0,021	0,026	0,033	0,041	W/(m·K)	
Water soluble chloride ions (AS quality)*	–	≤ 10					ppm	EN 13468
Water vapour diffusion resistance	μ	1					–	EN 14303
Melting point of fibres	θ	≥ 1000					°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances					–	–
Specific heat capacity	C _p	1030					J/(kgK)	EN ISO 10456

* On request.

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* PU = packaging unit (PU = 1 foil bag, other packaging sizes on request)

Loading unit = 1 pallet

kg/PU*	Bags/pallet
10	35



Illustration: Loose wool flocks

PRODUCT DESCRIPTION

Loose wool LW 020 are made of virgin Mineral Wool bio-soluble fibres with low binder content. Due to their optimized properties, they are a perfect solution for thermal, acoustic and fire insulation of confined spaces. The average flock size of Power-teK LW 020 is 20 mm. The product is specially designed to be installed using blowing machines. The fibres are clustered for easier handling.

DECLARATION OF PERFORMANCE

www.dopki.com/B4309IP

APPLICATIONS

Power-teK LW 020 are recommended for insulation in applications such as:

- Acoustic insulation of utility shafts
- Fire barrier between floors



CERTIFICATIONS



Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	A1	–	VKF Nr. 25090
Thermal conductivity at 10 °C	λ	0,038	W/(m·K)	EN 12667
Water absorption	W_p	$\leq 1,0$	kg/m ²	EN 1609
Please refer to the data sheet for complete current details. www.ki-ts.com				

* PU = packaging unit = 1 pallet
Loading unit = 1 pallet

kg/PU*	Bags/pallet
12,5	40

OVERVIEW

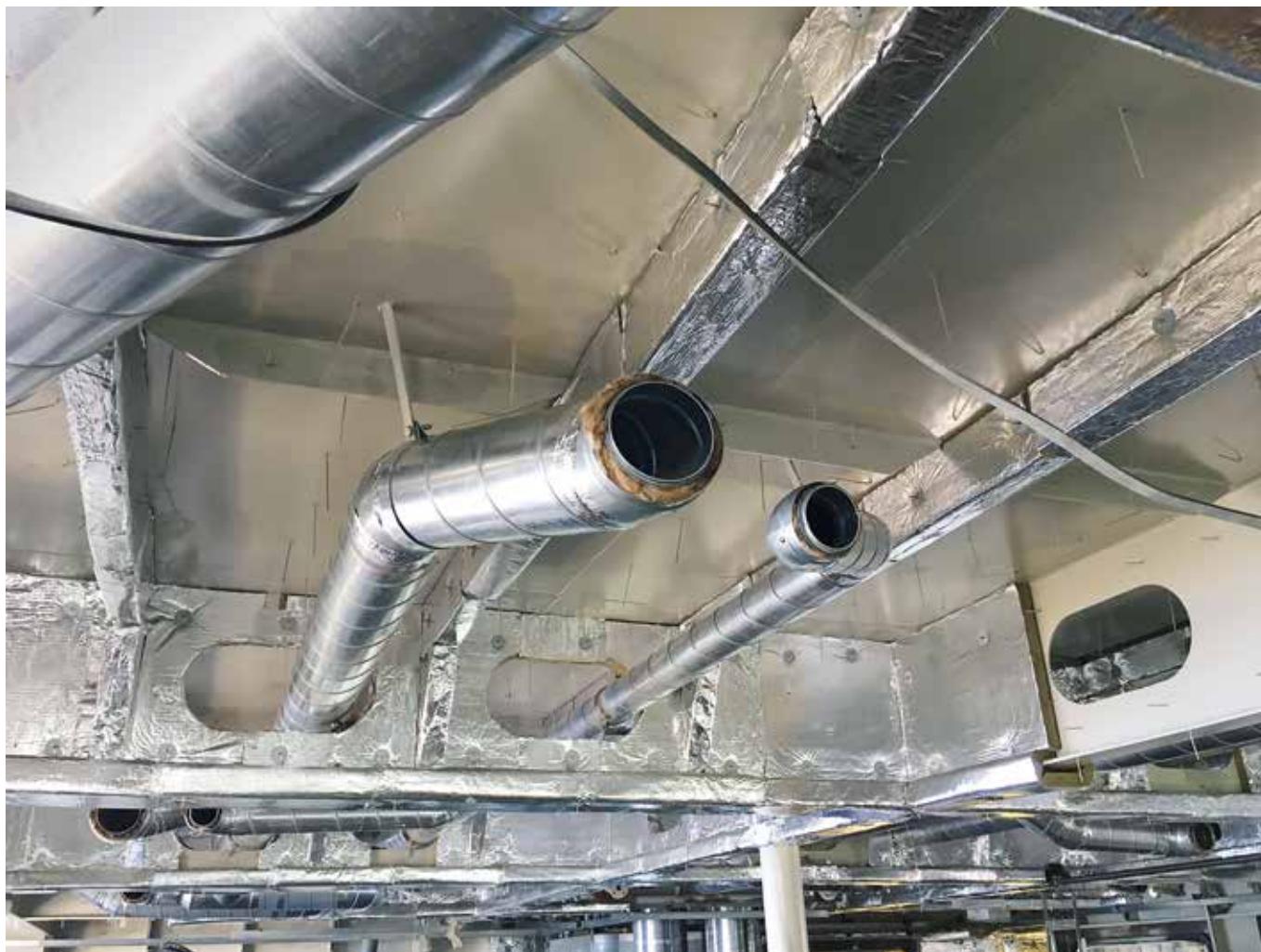
The following listed products meet all the requirements and pass all the tests of mentioned ASTM- Standards.

Products	Pipe section Power-teK PS 680	Industrial Pipe Belt Power-teK PB 680 ALU	Pipe section Power-teK PS 450	High temperature board Power-teK BD 660	High temperature board Power-teK BD 700	Wired Mat Power-teK WM 640 / WM 660 / WM 680
ASTM Product Standard	ASTM C 547	ASTM C 547	ASTM C547	ASTM C 612	ASTM C 612	ASTM C 592
Type	II-A	III-A	I-A	IV-A	IV	II/ III/ III
Product Properties	ASTM Test standards					
Density (kg/m ³)	ASTM C302	ASTM C302	ASTM C302	ASTM C303	–	ASTM C167
Dimensions (% of label)	ASTM C 302	ASTM C 302	ASTM C 302	ASTM C303	–	–
Dimensional Recovery (% of label)	–	–	–	–	–	ASTM C167
Thermal Conductivity	ASTM C335	ASTM C335	ASTM C335	ASTM C177	ASTM C177	ASTM C177
Compressive Resistance (kPa)	–	–	–	ASTM C165	ASTM C165	–
Water vapor Sorption (Mass %)	ASTM C1104	ASTM C1104	ASTM C1104	ASTM C1104	ASTM C1104	ASTM C1104
Odor emission	–	–	–	ASTM C1304	ASTM C1304	ASTM C1304
Surface Burning Characteristics	ASTM E84	ASTM E84	ASTM E84	ASTM E84	ASTM E84	ASTM E84
Maximum Use Temperature	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411
Exothermic Temperature Rise (°C)	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ ASTM C411	ASTM C447/ C411	ASTM C447/ C411	–
Fungi Resistance	ASTM C1338	ASTM C1338	ASTM C1338	–	–	–
Sag Resistance (% thickness)	ASTM C411	ASTM C411	ASTM C411	–	–	–
Linear shrinkage (% change)	ASTM C356	ASTM C356	ASTM C356	ASTM C356	ASTM C356	ASTM C356
Corrosiveness	ASTM C795	ASTM C795	ASTM C795	ASTM C795/ ASTM C665 (sec- 13.8)	ASTM C795/ ASTM C665 (sec- 13.8)	ASTM C795/ ASTM C665 (sec- 13.8)
Rigidity	–	–	–	ASTM C1101	ASTM C1101	–
Non Fibrous Shot Content (% content)	ASTM C1335	ASTM C1335	ASTM C1335	ASTM C1335	ASTM C1335	ASTM C1335
Non combustibility	–	–	–	–	–	ASTM E136

SEA-TEK®

COMFORTABLY SAILING
UNDER THE ECOSE® FLAG





For more than twenty years, Knauf Insulation has supplied the global marine market with products for heat and sound insulation as well as fire protection, and has acquired a large number of reference customers all over the world.

Knauf Insulation Technical Solutions provides a wide range of products in the fields of heat and sound insulation as well as fire protection for the shipbuilding industry, especially for the thermal insulation of ship cabins.



MARINE EQUIPMENT DIRECTIVE (MED)

All of the listed products are certified according to the requirements which are specified in the EU Directive of the European Council (96/98/EC – Module B and D), and have been tested according to the IMO FTP Code and other applicable standards.

Products with MED approval are labelled with the steering wheel symbol. In addition, at locations where products are produced for the marine market, compliance with the relevant quality standards stated in Module D of the above marine equipment directive is regularly inspected. These certificates are published on our web page.

THE FOLLOWING KNAUF INSULATION PRODUCTS ARE SUITABLE FOR MARINE USE:

- High Temperature Board
- Lamella Mat
- Wired Mats with galvanised wire stitched onto galvanised wire mesh
- Circular wound Pipe Sections
- Klima Duct Board
- Felt Mat
- Fire Cord

NOTE: See page 92 for further information about MED approval.

SEA-TEK® BD 035-200



Illustration: Sea-teK board

DESCRIPTION OF PRODUCT

Sea-teK® BD are Mineral Wool insulation boards which are optimised for marine applications with excellent thermal and acoustic characteristics.

Sea-teK BD 100 is used in certified A-12, A-30, A-60 steel deck and bulhead structures according IMO 2010 FTP Code.

APPLICATIONS

Sea-teK® boards are specially suitable for the insulation of

- Decks and bulkheads
- Duct and air handling units
- Machinery
- Cabin construction and panels



CERTIFICATIONS



Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	Non-combustible	–	IMO 2010 FTPC, Deel1
Surface flammability	–	Low flame-spread characteristic	–	IMO 2010 FTPC, Part 5
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Melting point of fibres	θ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–

The technical details are for information only. Please refer to the data sheet for complete current details. www.ki-ts.com

* Other dimensions on request.
Note the minimum order quantities
Thickness available: 15-200 mm
(depending on density)

** PU = packaging unit = 1 package of boards

Length x Width x Thickness (mm)	m ² /PU**	Pcs./pallet	m ² /pallet
1200 x 600 x 30	7,20	160	115,20
1200 x 600 x 50	3,60	100	72,00
1200 x 600 x 75	2,88	75	46,08

Products are available with white and black glass veil or with aluminium facings.

Sea-teK	Thermal conductivity at 10 °C in W/(m·K) acc. to EN 12667	Thermal conductivity at 40 °C in W/(m·K) acc. to EN 12667	Density in kg/m ³ acc. to EN 1602
BD 035	0,038	0,044	ca. 35
BD 040	0,036	0,040	ca. 40
BD 050	0,037	0,039	ca. 50
BD 060	0,035	0,038	ca. 60
BD 070	0,034	0,038	ca. 70
BD 080	0,034	0,037	ca. 80
BD 090	0,035	0,038	ca. 90
BD 100	0,035	0,038	ca. 100
BD 110	0,035	0,038	ca. 110
BD 120	0,036	0,039	ca. 120
BD 150	0,036	0,039	ca. 150
BD 180	0,039	0,043	ca. 180
BD 200	0,039	0,043	ca. 200

SEA-TEK® WM 070-120



Illustration: Mineral Wool wired mat



DESCRIPTION OF PRODUCT

Sea-teK® wired mats with captive product labels are compact, elastic Mineral Wool mats, which are stitched with galvanised wire onto galvanised wire mesh. Non-combustible, water repellent and resistant to ageing. The Wired Mat packaging has a perforation for quick and safe opening, as well as a special carrying strap for safe and easy transport. Sea-teK WM 100 is used in certified A-30 and A-60 steel deck and bulhead structures according to IMO 2010 FTP Code.

APPLICATIONS

Sea-teK® wired mats are used for thermal, sound and fire protection insulation of:

- Decks and bulkheads
- Machinery
- Air ducts



CERTIFICATIONS



Product properties	Reference	Description/specifications	Unit	Standard
Reaction to fire	–	Non-combustible	–	IMO 2010 FTPC, Deel1
Surface flammability	–	Low flame-spread characteristic	–	IMO 2010 FTPC, Part 5
Water soluble chloride ions (AS quality)	–	≤ 10	ppm	EN 13468
Water absorption	W_p	≤ 1,0	kg/m ²	EN 1609
Melting point of fibres	θ	≥ 1000	°C	DIN 4102-17
Silicone-free fibres	–	No emissions by lacquering disturbing substances	–	–
Wire mesh	–	25 mm x 0,7 mm x 0,3 mm	–	EN 10223-2

Please refer to the data sheet for complete current details. www.ki-ts.com

*1000 or 500 mm width on request.

Loading unit 1 pallet

Rolls/pallet: 27 pcs.

Length x Width x Thickness (mm)	m ² /Roll	m ² /pallet
6000 x 900* x 30	5,40	145,80
4000 x 900* x 50	3,60	97,20
3000 x 900* x 80	2,70	72,90

Products are available with aluminium facing.

Sea-teK	Thermal conductivity at 10 °C in W/(m·K) acc. to EN 12667	Thermal conductivity at 40 °C in W/(m·K) acc. to EN 12667	Density in kg/m ³ acc. to EN 1602
WM 70	0,035	0,038	ca. 70
WM 80	0,034	0,038	ca. 80
WM 100	0,036	0,039	ca. 100
WM 120	0,034	0,038	ca. 120

GOOD TO KNOW.

ORDER AND LOGISTIC SERVICE

MINIMUM ORDER QUANTITY

In principle, the minimum order quantity is a full truck load. Partial deliveries, which deviate from the minimum order quantity are possible on request. Under certain circumstances NOT ALL of the materials listed in this range are available as standard materials. Please contact us for enquiries about small quantities. The smallest delivery quantity for material in stock is one pallet. Delivery quantities for special productions on request.

SPECIAL PRODUCTS

The currently available dimensions are listed in this catalogue. Other dimensions are available as special orders and must be accepted

after confirmation of the order. As these are only produced to order, the delivery times and minimum order quantities deviate from those for standard products. In this case, please contact our Customer Service.

DELIVERY/WAITING TIMES

The delivery vehicle must be unloaded at its destination within 120 minutes. After this period, the customer will be charged a standstill fee of € 50.- for each hour or part of an hour. After 4 hours, the customer will be invoiced for all additional costs which have been incurred due to the waiting time.

ORDERS

Orders must be made in writing. If special prices were agreed for an order for our standard products, please state the price and the name of the project in your order.

ORDER CONFIRMATION

The customer receives a written confirmation for each order which is accepted. In order for us to provide you with our usual service, please check that a confirmation is available for each order.

Our staff will be pleased to assist you in case of queries.

HANDLING AND STORAGE

In order to keep the quality of our products on the high level all the customers are asked to follow our instructions regarding handling and storage of the products.

HANDLING

Knauf Insulation products are easy to handle and easy to install. They are supplied in suitable packaging materials to balance necessary transport protection with sustainable

recycling options. Packaging is not designed for long-term storage or exposure to harsh weather conditions. Further product information is mentioned on every pack.

STORAGE

For longer-term protection on site we recommend storing the product either indoors or alternatively under a roof cover and off the ground.

If covered storage is not available, products can be stored outside (open-air-storage) if placed off the ground (keep palletized) and covered with plastic hood (foil), for a maximum of up to 6 months from the date of delivery. Outdoor storage is not recommended during particularly humid months with large fluctuations in temperature.

CE LABELLING

CONFORMITY WITH EUROPEAN REGULATIONS (IN PARTICULAR PRODUCT STANDARDS EN 14303 AND 13162)



WHAT IS THE CE MARK?

The single European market (the 27 EU member states and the EFTA member states Iceland, Norway and Liechtenstein) provides enormous benefits to consumers. The wide and varied range of products in Europe is now taken for granted. Of course, consumers also expect that the products which they purchase are safe. With the creation of the single European market, the European Union (EU) has specified special safety regulations for certain categories of products on the market. These regulations go much further than the general safety requirements which each product must meet. According to these regulations, the manufacturer must issue an explicit declaration that his products are safe. Together with this dec-

laration the CE mark is applied to the product. Importers must ensure that the manufacturer has taken the necessary steps to comply with the declaration. Wholesalers are obliged to take the required care and must identify unsafe products and remove them from sale.

HOW DOES THE SYSTEM WORK?

As stated above, manufacturers must ensure that their products fulfil the relevant safety requirements. This is done for example by analysing possible risks and subjecting the product to random examinations. After the completion of this process, the CE mark must be applied to the product. For certain products such as gas heating boilers or chainsaws, due to the high safety risks, the safety of the product cannot solely be tested by the manufacturer. In these cases the safety examination is carried out by an independent organisation, which is designated by the national authorities. Only when this process is complete can the manufacturer apply the CE mark to the

product.

The CE mark is mandatory for many products. It is an indication that the product has been tested and that it complies with the legal requirements of the EU to ensure protection of health and safety and the environment before it is put on sale.

The CE mark enables the free sale of products within the European market if they comply with the requirements of EU law (e.g. for the protection of health and safety and the environment). It is a guarantee for the conformity of a product with the current legal regulations. The CE mark is applied to the product by the manufacturer. With the application of the CE mark, the manufacturer declares, at his own responsibility, that the product fulfils all of the applicable legal requirements of the EU. It is the responsibility of the manufacturer to ensure that the goods which are sold comply with the relevant laws and if necessary to ensure that the product is subjected to a con-

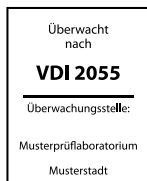
formity assessment by a designated agency. The CE mark is not a sign of quality; it is neither evidence of a particular performance nor suitability for a particular cases of application. Testing of the suitability of building products

and their design and dimensions must always be carried out with reference to the specific use by the end user.

Further information about the CE mark:



VDI 2055 MONITORING



QUALITY MONITORING OF PRODUCTS

Although statutory regulations exist for the provision of evidence of the suitability of insulation materials in buildings, up to now,

there have been no such regulations for insulation materials for industrial installations. To provide a constant quality of product and verified product characteristics, many years ago the German insulation industry set up a voluntary quality control system. The following main characteristics are tested and monitored:

- Thermal conductivity
- Maximum temperature limit for use
- Dimensions

In addition, the following may be monitored

and stated as special characteristics:

- AS quality
- Bulk density
- Water absorption
- Longitudinal flow resistance
- Compressive strength
- Reaction to fire and
- Other values (e.g. μ -value)

Only factory-made insulating materials whose compliance with the VDI 2055 standard has been demonstrated by successful tests by a recognised testing laboratory and subsequent independent assessment receive the "VDI 2055 supervision mark".

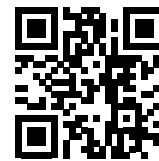
CERTIFICATE

After a positive assessment, DIN CERTCO issues a certificate which is valid for 2 years, together with a right to sue the "VDI 2055 super-

vision mark". The product monitoring process (with annual inspections and monitoring of the QS system) ensures that compliance with the requirements described above is maintained after testing has been carried out.

The owner of the certificate is registered in a public list, which can be accessed at any time and free of charge under "Certificates and Registrations".

Further information about the dincerto quality mark:



IMPORTANT DEFINITIONS ACCORDING TO AGI Q132

MAXIMUM TEMPERATURE LIMIT FOR USE

Insulating materials are classified with regard to their reaction to high temperatures on the basis of their maximum service temperature. This temperature is specified in the laboratory under conditions which are specified by EN 14706 and EN 14707 and according to the form of delivery, and is checked at regular intervals by independent test facilities.

MAXIMUM TEMPERATURE FOR USE

In general, the maximum temperature for use is below the maximum temperature limit for use. This describes the temperature resistance under the conditions of use, i.e. that the insulating material can be continuously exposed to static or dynamic loads due to the temperature without impairment of its characteristics. The reduction factor for the determination of the temperature for use can be obtained from AGI Q132.

AS QUALITY

Under certain circumstances, stress corrosion may occur in stainless austenitic steels due to the presence of chloride ions. Because of this, only AS quality insulating materials may be used on these objects. In a factory test, the

proportion of chloride ions in these insulating materials must not exceed an average of 10 ppm. In order not to absorb chloride ions from the environment, the insulation materials must be stored so that they are protected from the weather.

THERMAL CONDUCTIVITY

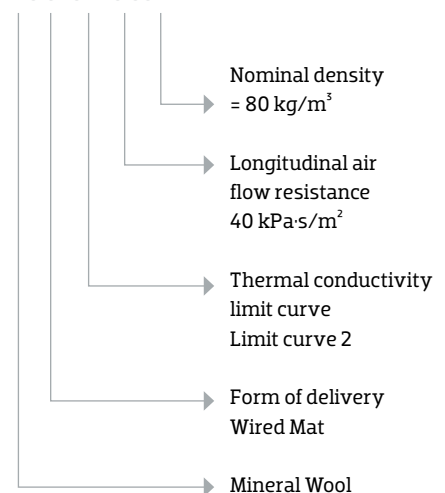
The thermal conductivity describes the insulating effect of an insulating material and is designated with the letter λ . The lower the value, the better the insulating effect. The thermal conductivities which are stated in this catalogue and in the data sheets are nominal values. The values are either stated depending on the temperature, or if only one thermal conductivity is stated, this is measured at a temperature of 10°C.

The operational thermal conductivity according to VDI 2055 must be determined from the nominal values which are stated.

INSULATION MATERIAL CODE

The insulation material code consists of 5 pairs of numbers. Each pair of numbers describes a different characteristic of the product. As an example, the insulation material code for Power-teK WM 640 is given here.

10.01.02.40.08



Status: Dec. 2016

EUROFINS INDOOR AIR QUALITY STANDARD



Eurofins Scientific is an international life sciences company, which provides comprehensive analysis and testing services to customers from various sectors of industry, including the pharmaceutical, food and environmental industries. As an innovative and strongly quality-oriented international provider in this

sector, Eurofins is in an ideal position to help manufacturers to comply with increasingly stringent quality and safety standards and fulfil official regulations throughout the world. The Eurofins Indoor Air Comfort Gold certificate fulfils various requirements, for example those of the Finnish M1 certification, the German quality mark 'Der Blaue Engel' for low

emission heat insulation materials and ceiling linings for use in buildings, or the requirements of the French AFSSET programme. As the certification procedure is based on ongoing tests, inspections and audits, the result not only provides the current status, but also ensures compliance with the requirements in the future.

MARINE EQUIPMENT DIRECTIVE (MED)



COMPLIANCE WITH MARINE SAFETY AND ENVIRONMENTAL REGULATIONS

The objective of the Marine Equipment Directive is:

- To ensure and improve safety at sea and to prevent marine pollution by means of a unified application of international regulations

(IMO conventions and resolutions as well as relevant international testing and product standards) with regard to the products under consideration.

- Safeguarding of free trade and unrestricted use within the European Economic Community (EEC/EEA), consisting of the EU and the EFTA member states.

The Directive requires the certification of certain items of equipment and components which are used on board ships. Basic requirements with regard to the product are specified, as well as with regard to the manufacturing company. Conformity monitoring includes both the construction as well as the manufacturing process.

ASTM STANDARDS



The American Society for Testing and Materials is an international standardisation organisation which is based in the USA. It publishes technical standards for goods and ser-

vices and is a recognised international testing and standardisation organisation. The main emphasis of its work is on the development of standardised testing and analysis methods. ASTM certifications are especially required

for export or international investment projects which are planned and implemented by American companies. For further information about our test certificates, please refer to www.ki-ts.com

FIBRE QUALITY CONTROL



EUCEB CERTIFICATION

The European Certification Board for Mineral Wool Products is an independent institution which continuously tests and certifies the compliance of Mineral Wool products with 'designation Q' of ordinance (EC) no. 1272/2008 of the European Parliament and Council. This ensures that the products must be declared as non-carcinogenic. All Knauf Insulation Mineral Wool products are EUCEB certified.

Further information: www.euceb.org



RAL QUALITY MARK

· Visible, independent and objective evidence of the special quality of products and services. This means that it stands for especially high quality and is particularly trustworthy due to its neutrality.

- Indicates that the product of service fulfils all of the essential requirements for the especially high quality characteristics. Consumers can therefore be sure that the stringent regulations include essential characteristics, which are important for the use of a product or service.

- Stands for reliable compliance with this high quality standard due to continuous internal and independent external monitoring which is voluntarily undergone by manufacturers and suppliers. This ensures the dependance of the RAL quality mark.

Further information about the RAL quality mark:



SOUND ABSORBING EFFECT OF MINERAL WOOL BOARDS

Due to their open fibrous structure, Mineral Wool panels generally have good sound absorbing properties. Sound absorption designates the capability of a material or component to reduce the intensity of the sound which falls on it and not to echo it back into the environment.

This is also referred to as the sound deadening characteristic.

The specific design for individual cases, taking into account the thickness, weight and possible the lamination of the surface, often presents great challenges due to the fundamental complexity of acoustic applications.

The effectiveness of a building component as a sound absorber is stated by the degree of sound absorption (α). The so-called "practical degree of sound absorption (α_p) is a measure of the damping effect of a component at six frequencies, each of which is separated by an octave. The values are usually between 0.0 and 1.0, whereby 1.0 corresponds to complete absorption of sound at the particular frequency under consideration.

The factors which influence the sound absorption effect of Mineral Wool panels are:

1. Density
2. Surface characteristics (laminated or non-laminated)
3. Thickness of the material

For Mineral Wool panels, the first parameters in the list can be almost completely neglected if only sound absorption is considered. This is essentially determined by the thickness of the Mineral Wool panel. An increase in the thickness of the material is associated with an improvement of the sound absorbing effect in the lower frequency range.

However, this is only true if a material with an 'open structure', e.g. glass fibre mat or glass fibre fabric is selected as the covering lamination.

In contrast, lamination with films, in particular aluminium film (aluminium, AluR) cannot be used for the required sound absorption.

SOUND ABSORPTION VALUES AND CLASSIFICATION OF MINERAL WOOL BOARDS

The following table shows the α_p values and the classification results for various thicknesses of Mineral Wool boards (density 50kg/cbm; natural, unlaminated surface).

	Practical sound absorption coefficient (α_p)	Frequency range [Hz]						Classification			
		125	250	500	1000	2000	4000	Assessed sound absorption coefficient (α_p) [EN ISO 11654:1997]	Classification of sound absorption [EN ISO 11654:1997]	Verbal assessment [VDI 3775 (2000-02)]	Noise Reduction Coefficient [ASTM C423:1989]
Thickness (mm)	20	0,05	0,20	0,50	0,75	0,85	0,90	0,50 (MH)	D	Absorbent	0,55
	50	0,25	0,70	1,00	1,00	1,00	1,00	1,00 (MH)	A	Highly absorbent	0,95
	100	0,60	1,00	1,00	1,00	1,00	1,00	1,00 (MH)	A	Highly absorbent	1,05
	200	0,90	1,00	1,00	1,00	1,00	1,00	1,00 (MH)	A	Highly absorbent	1,05

For the actual selection of a component for sound absorption, other factors need to be considered in addition to the purely absorptive effect. For example, with regard to the structural design the strength of the product, derived from the density, has to be considered. The selection of the surface lamination essentially depends on the mechanical wear of the surface or the hygiene requirements of the particular application.

EXPLANATIONS FOR VDI 6022

THE IMPORTANCE OF VDI 6022 FOR THE PLANNING AND CONSTRUCTION OF HVAC SYSTEMS (AIR CONDITIONING SYSTEMS)

The VDI 6022 is a technical guideline with a normative character, which is used throughout Europe. It is not a product standard which regulates the requirements for individual components. Because of this, Mineral Wool products can neither be tested nor categorised

according to this standard.

In fact, VDI 6022 governs the hygiene requirements for air conditioning systems and devices as a whole, whereby the particular fluid dynamics of the design are also considered. VDI 6022 requires inside surfaces of air-handling ducts to be 'technically sleek' and abrasion-proof in order to be mechanically cleaned without any damage.

Thus open cell insulation materials in contact with the airstream are not allowed; only exception is ruled for silencers, here the surface of insulation products needs to be protected by suitable material to prevent the contact of the insulation material with the air flow. This is the case for KI-products recommended for the use in silencers.

ISO STANDARDS - POWER OF EFFICIENCY



As a responsible manufacturer, we have all our sites certified to four of the most important International Management Standards for sustainability; ISO 9001 (Quality Management), ISO 14001 (Environmental Management), ISO 50001 (Energy Management) and ISO 45001 (Health and Safety Management). The standards are all voluntary but internationally rec-

ognised as independently verifying a company's performance claims. In 2010, we became one of the first companies in our sector to achieve all four ISO standards for our organisation and all our plants in Europe, North America, Russia and CI. We also strive that our suppliers are all certified ISO 14001 and therefore supporting suppliers that need help to achieve ISO 14001 standards of sustainability and keep a database

of suppliers that informs us if their ISO has expired. We are developing good relationships with our suppliers and provide the best quality of materials from sustainable sources. ISO 14001 certification is now becoming a supplier pre-requisite for extracted raw materials that we input into our batch.

Our ISO Standards are certified by Tüv Nord.

DECLARATION OF PERFORMANCE (DOP)

The Declaration of Performance (DoP) is a key part of the Construction Products Regulation. Each construction product covered by the European harmonised standard or for which a European Technical Assessment has been issued, needs DoP and has to be CE marked. This

helps increase transparency and improves the functioning of the Single Market. DoP provides information on the performance of a product and is an official declaration, issued by the producer of the product. In our catalogue, we mostly show DoP's of products

coming from our production plant Knauf Insulation d.o.o., Croatia, although some of them may be produced in other plants as well. For detailed information on the producer and related DoP please read the label on the pallet.

MISCELLANEOUS INFORMATION

DISPOSAL OF PRODUCT RESIDUES

In general, product data sheets are available for all of our products. These can be requested at any time. However, the waste disposal code number should be sufficient for all questions with regard to the disposal of the product.

This code number can also be found in our safety data sheets. These can be found on our website: www.ki-ts.com

With regard to the disposal of packaging material, Knauf Insulation relies on the support

of the established service provider Interseroh (www.interseroh.de).

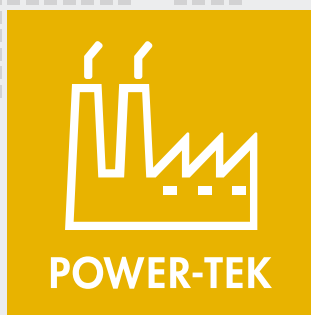
This company organises the collection of transport packaging from trade, industry and commerce and disposes of the packaging in an environmentally friendly manner.



FURTHER INFORMATION

All contracts and offers are based on our General Terms of Sale, Supply and Payment (see local price lists). Please observe the processing guidelines and the relevant standards and technical rules. Please also note that the responsibility for correct installation and compliance with the relevant building regulations lies with the planner and the constructor. Further information about products and the wide range of services from Knauf Insulation can be found under www.ki-ts.com.

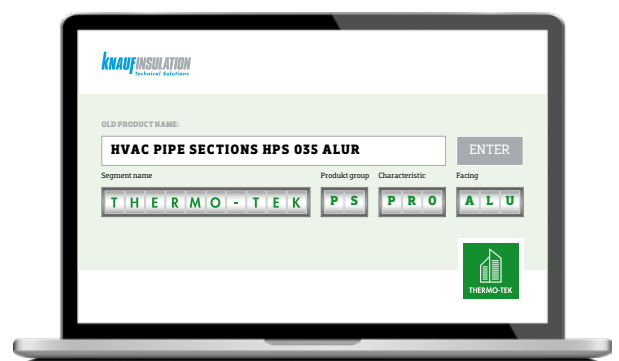
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COMPANY PROFILE

Knauf Insulation is one of the most respected names in the insulation industry worldwide with over 40 years of experience and still growing fast. Over 5.500 employees in more than 35 countries and 38 manufacturing sites. Being part of the family-owned Knauf group Knauf Insulation Technical Solutions provides solutions for customers' requirements in industry, marine applications, heating, ventilation and air conditioning. A profound market understanding and insulation know-how enables us to provide a broad range of products to meet your specific needs. All rights reserved, including those of photomechanical reproduction and storage in electronic media. Commercial use of the processes and work activities presented in this document is not permitted. Extreme caution was observed when putting together the information, texts and illustrations in this document. Nevertheless, errors cannot quite be ruled out. The publisher and editors cannot assume legal responsibility or any liability whatever for incorrect information and the consequences thereof. The publisher and editors will be grateful for improvement suggestions and details of errors pointed out.

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