

Uncompromising. Because safety comes first!

- With B/B_L-s1, d0 Kaimann's highest safety standard for fire-sensitive areas
- Low smoke development in case of fire
- Significantly reduces contamination of building inventory and technical equipment
- The insulation material for highly frequented public and commercial buildings
- Reliably prevents condensation and reduces the risk of corrosion under the insulation



Uncompromising. Because safety comes first!

With Kaiflex KKplus s1, Kaimann offers an optimally coordinated insulation system, which in its entirety meets European fire class B/B_i-s1, d0 per EN 13501-1 in the event of fire - the highest class attainable with elastomeric foams. The insulation, consisting of FEF (flexible elastomeric foam), a closed-cell synthetic rubber, is thus Kaimann's highest safety level for areas needing extra fire protection. At smoke development class s1 ("low smoke development"), the insulation meets the strictest European requirements for smoke and the building supervisory requirements of MVV TB for flame-resistant building products, and for many pipe penetration solutions it provides at least 90 minutes of fire resistance per DIN 4102-11 and EN 1366 without additional fire protection mat.

In the event of a fire in occupied areas, the use of Kaiflex KKplus s1 means that escape and rescue routes remain visible longer, even as smoke spreads. The low smoke development of the highest smoke class s1 reduces the risk of injury and property damage by significantly reducing the danger of suffocation and smoke poisoning, as well as the contamination of building inventory and technical equipment.

Tubes with patented KaiCene technology, a further development of the standard material, meet s1 classification even without coating, thus offering both low smoke development and high flame retardance. This high-performance material mix thus meets the especially high requirements of fire protection for technical insulation. Additionally, the higher standards for flame retardance for panel materials are met by the use of a low-smoke laminate, which in the event of fire foams up and so acts as a barrier. The result is excellent smoking behaviour.

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Versatile applications

This premium insulation system is especially suitable for use in highly frequented public and commercial buildings like airports, large office complexes and hotels, as well as apartment buildings, industrial plants and ships. Due to its fibre-free and antimicrobial nature, it meets the highest hygienic requirements, and so can be used in medical facilities such as hospitals. Here the closed-cell insulation provides ideal, unbroken heat and cold insulation of pipes and ductwork. The high mechanical resilience of the glass fibre-reinforced coating makes additional surface protection superfluous in many areas.

Smart advantages

Kaiflex KKplus s1 combines very good lambda values of ≤0.038 W/(m·K) with the highest standards in fire performance. This flexible insulation with its closed-cell structure acts as a water vapour barrier, preventing the formation of condensation and thereby reducing the risk of CUI (corrosion under insulation).





Reduced smoke development

In the event of a fire, visibility in rooms and corridors must be guaranteed for as long as possible. Through improved fire behaviour, Kaiflex increases personal protection and reduces contamination of building inventory.



Complete system from a single source

Often the building materials have to be changed within a trade. Kaimann offers a coordinated overall system consisting of closed-cell insulation materials and matching accessories - without the need to change the myterial type.



Reliable prevention of condensation

Dew formation can lead to damage to insulation as well as technical equipment. Due to its closed-cell property, Kaiflex keeps pipes and ducts dry and prevents corrosion under the insulation (CUI).



Further information, technical documents, application guides, services and much more can be found online at

www.kaimann.com

Certified quality



Transparent ecological balance thanks to an "Environmental Product Declaration".

Related system components and accessories from our product range



Kaiflex

RT-KKplus s1/s2 Insulated pipe support to prevent condensation and thermal bridges.



Kaiflex Pyrostar

Fire protection mat for sealing off insulation on pipelines in wall and ceiling penetrations



Special Adhesive,

Tape, Tools,... Accessories designed for the optimal and efficient application of Kaiflex products

Kaimann Services



KaiCalc

Insulation thickness calculator for technical insulation in heating and cooling applications.

www.kaicalc.com



Fire Protection Planer Just a few clicks to the ideal insulation material for a safe

fire protection system. www.sati-

firepenetration.com





Technical Data

Material type					
Material type coating Sheet Glass fabric, single-side coated with a expanded graphite covering, low-smoke and intumsecent in case of fire (NCER-APF-Cladding) Cell structure Base material Coding APF-Cladding) Colour Sheet Coating Anthracite Max. service temperature Fipe Flat surface +85 ° C see remark (I) Min. service temperature λ _e O.038 + 9.0144 · 10 ° 6 + 3.29744 · 10 ° 6 d v. 0.037 W/(m K) see remark (I) Thermal conductivity at ~10 ° C o. 10 ° C v. 0.039 W/(m K) see remark (I) see remark (I) Water vapour permeability Moisture resistance for the conductivity All o. 0.038 w/(m K) v. 0.038 W/(m K) Test acc. to DIN EN ISO 8497 v. d. 0.039 W/(m K) Fire behaviour Tube Euroclass characteristics or 0. 0.039 W/(m K) Test acc. to DIN EN ISO 840 v. d. 0.039 W/(m K) Test acc. to DIN EN ISO 840 v. d. 0.009 v. d. 0.0					
Sheet Shee		Tube		uncoated (KaiCene-technology)	
Base material Anthracite Anthracite Anthracite Anthracite Pipe Flat surface Fla		Sheet		expanded graphite covering, low-smoke and intumescent in case of fire (INCER-	
Colour Sheet Coating Anthracite Max. service temperature Pipe Flat surface +10 °C + 85 °C Min. service temperature A₂ + 10 °C -50 °C (-200 °C) -50 °C (-200 °C) see remark (1) see remark (1) Thermal conductivity A₂ at -10 °C -30 °C (-200 °C) -50 °C (-200 °C) -50 °C (-200 °C) -70 °C	Cell structure			Closed cell	
Sheet Coating Anthracite Fipe +110 °C +85 °C +85 °C See remark (1) See remark (2) See remark (3) See remark (4) See remark (1) See remark (2) See remark (3) Se	Colour		Base material	Anthracite	
Max. service temperature Flat surface +85 °C see remark (1) Min. service temperature λ _s at −10 °C at 0 °C at 0 °C at 10 °C a	Colour	Sheet	Coating	Anthracite	
Flat surface +85 ° C		Pipe		+110 °C	
Thermal conductivity λ at -10 °C at 0 °C at	Max. service temperature	Flat surface		+85 °C	
Thermal conductivity	Min. service temperature			-50 °C (-200 °C)	see remark (1)
Thermal conductivity		λ		$0.038 + 9.0144 \cdot 10^{-5} \theta + 3.29744 \cdot 10^{-7} \theta^2$	
Tube Euroclass characteristics (a) Euroclass characteristics (a) Euroclass characteristics (a) Self-extinguishing, no drips	Thermal conductivity	at -10 °C at 0 °C		≤0.038 W/(m·K)	
Fire behaviour Sheet Euroclass characteristics (2) Self-extinguishing, no drips Fire resistance classification Resistance to Corrosion Mould and bacteria Mould and bacteria Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other certificates/approvals Fibre free: For high hygiene requirement) Storage Self-adhesive products Fibre free: For high hygiene requirement (e.g. cadmium, lead) and formaldehyde CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Tubes Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Needs protection against UV-radiation See remark (3) Application note Kaiflex Special Adhesive 415 must be	Water vapour permeability	Moisture resistance	factor µ	≥10.000	
Sheet characteristics (2) Self-extinguishing, no drips Fire resistance classification Corrosion Resistance to Mould and bacteria Mould and bacteria No growth Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other certificates / approvals Florage Self-adhesive products Self-adhesive products Sheet Sheet Sheet R90 (ABP) Nr.:P-MPA-E-14-001 In acc. with DIN 1988 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 No biocides added Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other certificates / approvals The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Application note Tube Corrosion R90 (ABP) Nr.:P-MPA-E-14-001 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN EN 13501-1 In acc. with DIN 1988 Test acc. to DIN 19801		Tube		B _L -s1, d0	Test acc. to DIN EN 13501-1
Fire resistance classification Resistance to Corrosion Corrosion Analyse requirements Mould and bacteria Corrosion Satisfies requirements No growth In acc. with DIN 1998 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Tenvironmental aspects No biocides added Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties PH-Value NPD (No performance determined) CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0° cand +35 °C) Tolerances & limits Outdoor applications Tube Kaiflex Special Adhesive 415 must be Kaiflex Special Adhesive 415 must be	Fire behaviour	Sheet			Test acc. to DIN EN 13501-1
Resistance to Corrosion Mould and bacteria Mould and bacteria Mould and bacteria No growth Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Environmental aspects No biocides added Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties Other certificates/approvals Fuha derivation potes Self-adhesive products Corrosion Satisfies requirements Tuhe Satisfies requirements Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Toler properties Self-adhesive products Self-adhesive products Self-adhesive products Self-adhesive products Satisfies requirements In acc. with EN 14304:2009+A1:2013 See remark (3) Application potes Tube Kaiflex Special Adhesive 415 must be					
Resistance to Mould and bacteria No growth Test acc. to DIN EN ISO 846 Meth. A+C In acc. with VDI 6022 Environmental aspects No biocides added Health aspects Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties pH-Value NPD (No performance determined) Other certificates/approvals CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70%) and room temperature (between 0°C and +35°C) Tolerances & limits Satisfies requirements In acc. with EN 14304:2009+A1:2013 Outdoor applications Needs protection against UV-radiation see remark (3)	Fire resistance classification			R90	(ABP) Nr.:P-MPA-E-14-001
Mould and bacteria No growth In acc. with VDI 6022		Corrosion		Satisfies requirements	In acc. with DIN 1988
Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties Other certificates / approvals Storage Self-adhesive products Self-adhesive products Self-adhesive products Self-adhesive products Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Needs protection against UV-radiation See remark (3) Kaiflex Special Adhesive 415 must be	Resistance to	Mould and bacteria		No growth	
Health aspects For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties PH-Value NPD (No performance determined) CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Application note Tube For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde NPD (No performance determined) CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Needs protection against UV-radiation See remark (3)	Environmental aspects			No biocides added	
Free from heavy metal (e.g. cadmium, lead) and formaldehyde Other properties PH-Value NPD (No performance determined) CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Needs protection against UV-radiation Application note Kaiflex Special Adhesive 415 must be	Health aspects				
Other certificates / approvals CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Needs protection against UV-radiation Application note Tube CE-compliant The material must be installed within one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Needs protection against UV-radiation see remark (3) Application note	Treatti aspects				
Storage Self-adhesive products Solf-adhesive product	Other properties	pH-Value		NPD (No performance determined)	
Storage Self-adhesive products one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Tolerances & limits Outdoor applications Application note Tube One year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between 0 °C and +35 °C) Satisfies requirements Needs protection against UV-radiation see remark (3) Kaiflex Special Adhesive 415 must be	Other certificates / approvals			CE-compliant	
Outdoor applications Needs protection against UV-radiation see remark (3) Application note Tube Kaiflex Special Adhesive 415 must be	Storage	Self-adhesive products		one year after delivery and proper storage. Store in a dry room at a typical relative humidity (between 50 % and 70 %) and room temperature (between	
Application note Tube Kaiflex Special Adhesive 415 must be	Tolerances & limits			Satisfies requirements	In acc. with EN 14304:2009+A1:2013
	Outdoor applications			Needs protection against UV-radiation	see remark (3)
	Application note	Tube			

Remark (1) For temperatures below -50 °C please contact our Technical Support Team for advice.

Remark (2) The Euroclass rating applies to metalic or solid mineral substrates.

Remark (3) To protect against UV-induced deterioration Kaiflex must be either painted using Kaifinish Color paint or covered with a suitable UV resistant cladding system within 1 day of being installed outdoors.





Tube · uncoated (KaiCene-Technologie)



Colour: A	Anthracite	· Length: 1	l,2 m				
	er pipe Cu	Iro	Iron & steel pipe Fe		13 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1,2m-13x015	4005146	108.0
18.0	15	3/8	17.2	10	KK+s1-T-1,2m-13x018	4005147	88.8
22.0	20	1/2	21.3	15	KK+s1-T-1,2m-13x022	4005148	73.2
28.0	25	3/4	26.9	20	KK+s1-T-1,2m-13x028	4005149	58.8
35.0	32	1	33.7	25	KK+s1-T-1,2m-13x035	4005150	50.4
42.0	40	11/4	42.4	32	KK+s1-T-1,2m-13x042	4005151	36.0
		11/2	48.3	40	KK+s1-T-1,2m-13x048	4005152	38.4
54.0	50		54.0		KK+s1-T-1,2m-13x054	4005153	36.0
		2	60.3	50	KK+s1-T-1,2m-13x060	4005154	28.8
64.0			63.5		KK+s1-T-1,2m-13x064	4008639	28.8
76.1	65	2 1/2	76.1	65	KK+s1-T-1,2m-13x076	4005155	27.6
88.9	80	3	88.9	80	KK+s1-T-1,2m-13x089	4005156	19.2

	Copper pipe Cu		n & steel p Fe	ipe	19 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1,2m-19x015	4005157	62.4
18.0	15	3/8	17.2	10	KK+s1-T-1,2m-19x018	4005158	50.4
22.0	20	1/2	21.3	15	KK+s1-T-1,2m-19x022	4005159	49.2
28.0	25	3/4	26.9	20	KK+s1-T-1,2m-19x028	4005160	39.6
35.0	32	1	33.7	25	KK+s1-T-1,2m-19x035	4005161	30.0
42.0	40	1 1/4	42.4	32	KK+s1-T-1,2m-19x042	4005162	27.6
		11/2	48.3	40	KK+s1-T-1,2m-19x048	4005163	24.0
54.0	50		54.0		KK+s1-T-1,2m-19x054	4005164	19.2
		2	60.3	50	KK+s1-T-1,2m-19x060	4005165	19.2
64.0			63.5		KK+s1-T-1,2m-19x064	4008642	15.6
76.1	65	2 1/2	76.1	65	KK+s1-T-1,2m-19x076	4005166	16.8
88.9	80	3	88.9	80	KK+s1-T-1,2m-19x089	4005167	14.4

	Copper pipe Cu		Iron & steel pipe Fe		25 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1,2m-25x015	4012202	37.2
18.0	15	3/8	17.2	10	KK+s1-T-1,2m-25x018	4008643	37.2
22.0	20	1/2	21.3	15	KK+s1-T-1,2m-25x022	4008644	30.0
28.0	25	3/4	26.9	20	KK+s1-T-1,2m-25x028	4008645	24.0
35.0	32	1	33.7	25	KK+s1-T-1,2m-25x035	4008646	21.6
42.0	40	11/4	42.4	32	KK+s1-T-1,2m-25x042	4008647	19.2
		11/2	48.3	40	KK+s1-T-1,2m-25x048	4008648	16.8
54.0	50		54.0		KK+s1-T-1,2m-25x054	4008649	16.8
		2	60.3	50	KK+s1-T-1,2m-25x060	4008650	14.4
64.0			63.5		KK+s1-T-1,2m-25x064	4008651	14.4
76.1	65	2 1/2	76.1	65	KK+s1-T-1,2m-25x076	4008652	12.0
88.9	80	3	88.9	80	KK+s1-T-1,2m-25x089	4008653	9.6

Slit tubes available on request.

For further dimensions please contact our customer service.

Tube · uncoated (KaiCene-Technologie)



Colour: A	Anthracite	· Length: 1	,2 m				
	er pipe Cu	Iro	n & steel p Fe	ipe	32 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1.2m-32x015	4008655	21.6
18.0	15	3/8	17.2	10	KK+s1-T-1.2m-32x018	4008656	21.6
22.0	20	1/2	21.3	15	KK+s1-T-1.2m-32x022	4008657	21.6
28.0	25	3/4	26.9	20	KK+s1-T-1.2m-32x028	4008658	19.2
35.0	32	1	33.7	25	KK+s1-T-1.2m-32x035	4008659	16.8
42.0	40	1 1/4	42.4	32	KK+s1-T-1.2m-32x042	4008660	14.4
		11/2	48.3	40	KK+s1-T-1.2m-32x048	4008661	13.2
54.0	50		54.0		KK+s1-T-1.2m-32x054	4008662	12.0
		2	60.3	50	KK+s1-T-1.2m-32x060	4008663	10.8
64.0			63.5		KK+s1-T-1.2m-32x064	4008664	10.8
70.0			70.0		KK+s1-T-1.2m-32x070	4008665	9.6
76.1	65	2 1/2	76.1	65	KK+s1-T-1.2m-32x076	4008666	7.2
88.9	80	3	88.9	80	KK+s1-T-1.2m-32x089	4008667	7.2

Slit tubes available on request.

For further dimensions please contact our customer service.



Tube \cdot uncoated (KaiCene-Technologie) \cdot self-adhesive \cdot with tangential cut



Colour: A	Anthracite	· Length: 1	I,2 m				
	er pipe Cu	Iron & steel Fe		oipe	13 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1,2m-13x015-SA	4008683	108.0
18.0	15	3/8	17.2	10	KK+s1-T-1,2m-13x018-SA	4008684	88.8
22.0	20	1/2	21.3	15	KK+s1-T-1,2m-13x022-SA	4008685	72.3
28.0	25	3/4	26.9	20	KK+s1-T-1,2m-13x028-SA	4008686	58.8
35.0	32	1	33.7	25	KK+s1-T-1,2m-13x035-SA	4008687	50.4
42.0	40	11/4	42.4	32	KK+s1-T-1,2m-13x042-SA	4008688	36.0
		11/2	48.3	40	KK+s1-T-1,2m-13x048-SA	4008689	38.4
54.0	50		54.0		KK+s1-T-1,2m-13x054-SA	4008690	36.0
		2	60.3	50	KK+s1-T-1,2m-13x060-SA	4008691	28.8
76.1	65	2 1/2	76.1	65	KK+s1-T-1,2m-13x076-SA	4008692	27.6
88.9	80	3	88.9	80	KK+s1-T-1,2m-13x089-SA	4008693	19.2

	Copper pipe Cu		n & steel p Fe	ipe	19 mm Insulation thickness		
OD mm	Nom. width DN	Inch	OD mm	Nom. width DN	Dimension / Reference	Order No.	m/ carton
15.0	10	1/4	13.5	8	KK+s1-T-1,2m-19x015-SA	4008694	62.4
18.0	15	3/8	17.2	10	KK+s1-T-1,2m-19x018-SA	4008695	50.4
22.0	20	1/2	21.3	15	KK+s1-T-1,2m-19x022-SA	4008696	49.2
28.0	25	3/4	26.9	20	KK+s1-T-1,2m-19x028-SA	4008697	39.6
35.0	32	1	33.7	25	KK+s1-T-1,2m-19x035-SA	4008698	30.0
42.0	40	11/4	42.4	32	KK+s1-T-1,2m-19x042-SA	4008699	27.6
		11/2	48.3	40	KK+s1-T-1,2m-19x048-SA	4008700	24.0
54.0	50		54.0		KK+s1-T-1,2m-19x054-SA	4008701	19.2
		2	60.3	50	KK+s1-T-1,2m-19x060-SA	4008702	19.2
76.1	65	2 1/2	76.1	65	KK+s1-T-1,2m-19x076-SA	4008703	16.8
88.9	80	3	88.9	80	KK+s1-T-1,2m-19x089-SA	4008704	14.4

For further dimensions please contact our customer service.



 $Sheet \cdot endless \cdot coated \ (INCERAM\text{-}Cladding)$



Colour: Anthracite · Wid	Colour: Anthracite · Width: 1 m · OD coil: 40 cm · in box								
Insulation thickness mm	Dimension / Reference	Order No.	rm/ carton	m²/ carton					
6	KK+s1-Sh-e-1m-40BX-06	4008727	18	18					
10	KK+s1-Sh-e-1m-40BX-10	4008728	10	10					

Colour: Anthracite · Wic	Colour: Anthracite · Width: 1 m · OD coil: 53 cm · in box								
Insulation thickness mm	Dimension / Reference	Order No.	rm/ carton	m²/ carton					
13	KK+s1-Sh-e-1m-53BX-13	4008729	14	14					
19	KK+s1-Sh-e-1m-53BX-19	4008730	10	10					
25	KK+s1-Sh-e-1m-53BX-25	4008731	8	8					
32	KK+s1-Sh-e-1m-53BX-32	4008732	6	6					

For further dimensions please contact our customer service.

Kaiflex KKplus s1

 $Sheet \cdot endless \cdot coated \ (INCERAM\text{-}Cladding) \cdot self\text{-}adhesive$



Colour: Anthracite · Width: 1 m · OD coil: 40 cm · in box									
Insulation thickness mm	Dimension / Reference	Order No.	rm/ carton	m²/ carton					
6	KK+s1-Sh-e-1m-40BX-06-SA	4008733	15	15					
10	KK+s1-Sh-e-1m-40BX-10-SA	4008734	10	10					

Colour: Anthracite · Wic	Colour: Anthracite · Width: 1 m · OD coil: 53 cm · in box									
Insulation thickness mm	Dimension / Reference	Order No.	rm/ carton	m²/ carton						
13	KK+s1-Sh-e-1m-53BX-13-SA	4008735	14	14						
19	KK+s1-Sh-e-1m-53BX-19-SA	4008736	10	10						
25	KK+s1-Sh-e-1m-53BX-25-SA	4008737	8	8						
32	KK+s1-Sh-e-1m-53BX-32-SA	4008738	6	6						

For further dimensions please contact our customer service.



Accessories

 ${\sf Adhesive} \cdot {\sf Cleaner} \cdot {\sf Protective} \; {\sf Coating}$

		Details	Dimension/Reference	Order No.	Container type	Content	Pcs./ PU
Adhesive							
G E	Kaiflex Special Adhesive 415		Ad-415-CA660	4007232	Can	660 g	20
inflor	Kaiflex Special Adhesive 414	incl brush · toluene-free	Ad-414-CA220	4004706	Can	220 g	24
G170	Kaiflex Special Adhesive 414	toluene-free	Ad-414-CA660	4004708	Can	660 g	20
	Kaiflex Special Adhesive 414	toluene-free	Ad-414-CN2200	4004710	Canister	2200 g	6
Cleaner							
R STATE OF THE STA	Kaiflex Cleaner		Clean-CA1000	4004732	Can	1.0	12
Protective Coating	1						
of the state of th	Kaifinish Color	Colour: White (approx. RAL 9010)	KF-Co-wh-CA750	4004719	Can	0.75 l	4
	Kaifinish Color	Colour: Grey (approx. RAL 7035)	KF-Co-gr-CA750	4004720	Can	0.75 l	4

Accessories

Glue pump \cdot Knife \cdot Gel ink pen

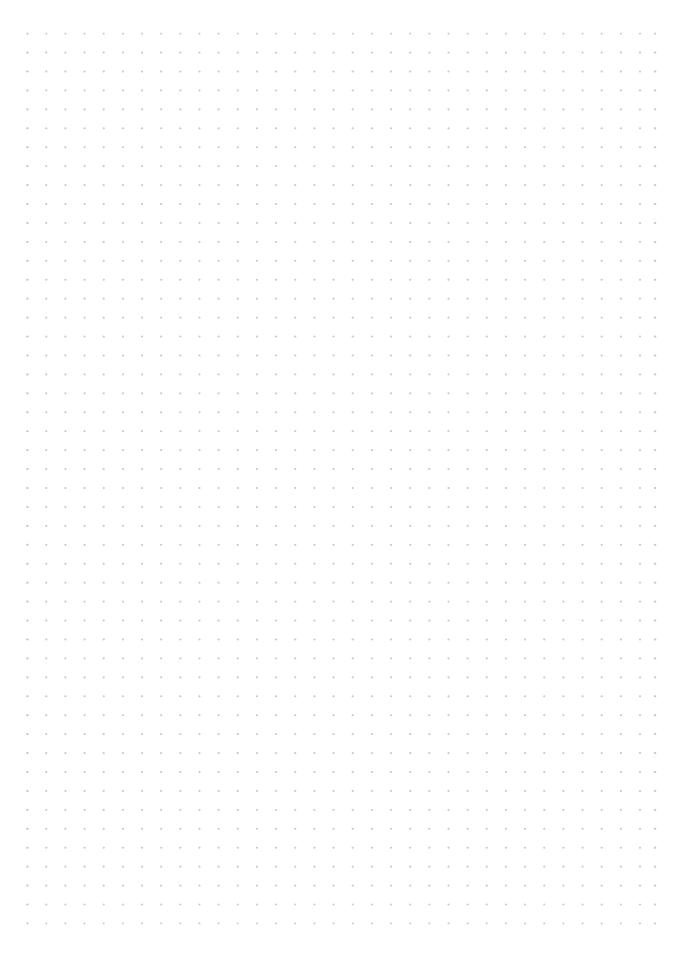
		Details Dimension/Reference		Order No.	Pcs./ PU			
Glue pump								
311	Glue pump	long spout · 17 mm brush	GI-Pmp-long	4004718	1			
	Glue pump	short spout · 17 mm brush	GI-Pmp-short	4004715	1			
	11 mm brush	for glue pump	GI-Pmp-Brush-11	4004716	1			
	17 mm brush	for glue pump	GI-Pmp-Brush-17	4004717	1			
Knife								
	Ceramic knife	with ceramic blade (15 cm) and plastic handle (14 cm)	Knf-Ceramic	4004737	1			
	Sheet knife		Knf-Sheet	4004735	1			
	Set of knives	3 knives, 1 whetstone	Knf-Set	4004736	1			
Gel ink pen								
	Gel ink pen	Colour: Silver · for marking on insulation materials	Gelpen	4004730	12			

Accessories

Tape

	Details	Dimension / Reference	Order No.	Width mm	Length m	Thickness mm	Pcs./ PU
Kaiflex KKplus s1 Tape	coated (INCERAM- Cladding) · self-adhesive	Tp-KK+s1-50/15/3-SA	4010454	50	15	4	12







Tolerances, Limits

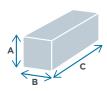
EN 14304:2009+A1:2013 · Flexible Elastomeric Foam (FEF)

Delivery form	Length Width	\4/: dab	Thickness		Down on discularity.	Inner diameter		
		wiatn	Stated	Limits	Perpendicularity	D _i ≤ 100	D _i > 100	
Tube	±1.5 %	-	$d_{D} \le 8$ $8 < d_{D} \le 18$ $18 < d_{D} \le 31$ $d_{D} > 31$	±1.0 ±1.5 ±2.5 ±3.0	3.0 mm	$D_{i,D} + 1 \le D_i \le D_{i,D} + 4$	$D_{i,D} + 1 \le D_i \le D_{i,D} + 6$	
Sheet · endless	+5.0 % -1.5 %	±2.0 %	$d_{D} \le 6$ $6 < d_{D} \le 19$ $d_{D} > 19$	±1.0 ±1.5 ±2.0	3.0 mm/m (Length/Width) - 3.0 mm (Thickness)	-	-	
Таре	+5.0 % -1.5 %	±2.0 %	d _D = 3	-0.1 +1.5	-	-	-	

Measurements in mm \cdot D_i = inner diameter \cdot d_D = Nominal thickness of product \cdot D_iD = Nominal thickness of a tube

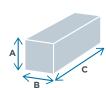
Kaiflex KKplus s1

Packaging types



Tube · Length: 1,2 m

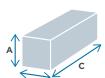
A: 385 mm B: 400 mm C: 1.230 mm Volume: 0.189 m³



Sheet · endless Width: 1 m OD coil: 40 cm

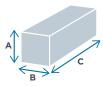
A: 410 mm B: 410 mm C: 1.060 mm

Volume: 0.178 m³



Sheet · endless Width: 1 m OD coil: 53 cm

A: 560 mm B: 560 mm C: 1.060 mm Volume: 0.332 m³



Tape

A: 300 mm B: 300 mm C: 620 mm

Volume: 0.056 m³



General information

- Delivery in full packing units only.
- The pipe dimensions given in the tables refer to DIN EN 1057 for copper pipes and DIN EN 10255 for steel pipes.
- Kaimann accessories are to be used to ensure proper installation.

WECREATESOLUTIONS

Always finding the best solution for customers - this simple resolution is what produces innovative ideas and continuous progress at Kaimann. The company is one of the leading suppliers of technology and innovation in elastomeric insulation and offers a broad product portfolio for a wide range of applications, e.g. in building services and technology as well as industry.

These products ensure higher energy efficiency and sustainability, combined with effective protection against corrosion, fire and noise. Thanks to environmental product declarations (EPDs), Kaimann insulation also provides more transparency for its life cycle assessment.





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