

NEW! Improved
Euroclass B-s3, d0



Kaiflex[®] DuctSystem

Efficient insulation of ventilation systems

- Reliable insulation of ventilation systems with outside air intake
- Reliably prevents condensation and reduces the risk of corrosion under the insulation
- Good noise insulation effect
- Fiber-free: for high hygienic requirements
- The standard for construction projects with high economic requirements



Kaiflex Duct System

Technical Data

Material type base		Elastomeric foam based on synthetic rubber, Flexible Elastomeric Foam (FEF)	
Material type Coating	Kaiflex Duct ALU	Aluminium	
	Kaiflex Duct ALU plus	Aluminium	
Cell structure		Closed cell	
Colour	Base material	Anthracite	
	Coating	Silver	
Max. service temperature		+70 °C	
		-40 °C	see remark (1)
Thermal conductivity	λ_0	$0.036 + 7.2 \cdot 10^{-5} \vartheta + 1.2 \cdot 10^{-6} \vartheta^2$	
	at -10 °C	$\leq 0.035 \text{ W/(m}\cdot\text{K)}$	Test acc. to DIN EN 12667
	at 0 °C	$\leq 0.036 \text{ W/(m}\cdot\text{K)}$	
	at +10 °C	$\leq 0.037 \text{ W/(m}\cdot\text{K)}$	
Water vapour permeability	Moisture resistance factor μ	≥ 7000 no separate vapour barrier required	Test acc. to DIN EN 12086
Fire behaviour	Kaiflex Duct	Euroclass characteristics ⁽²⁾	E
	Kaiflex Duct ALU	Euroclass characteristics ⁽²⁾	E
	Kaiflex Duct plus	Euroclass characteristics ⁽²⁾	B-s3, d0
	Kaiflex Duct ALU plus	Euroclass characteristics ⁽²⁾	B-s3, d0
		Self-extinguishing, no drips	
Resistance to	Corrosion	Satisfies requirements	In acc. with DIN 1988
Insulation material index number acc. to AGI		36.07.03.05.04	
Health aspects		Fibre free: For high hygiene requirements Free from heavy metal (e.g. cadmium, lead) and formaldehyde	
Other properties	pH-Value	Neutral	
Other certificates / approvals		CE-compliant	
Storage	Self-adhesive products	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		Not suitable for outdoor installation.	

Remark (1) For temperatures below -40 °C please contact our Technical Support Team for advice.

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