

K-FLEX® AL CLAD SYSTEM



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- ▶ Versatile and flexible
- ▶ Reduced installation costs
- ▶ Economic system management
- ▶ Aesthetic finish
- ▶ UV and weather resistant
- ▶ Can be applied to any insulation system



Site



Video



App. Manual



TECHNICAL DATA

K-FLEX® AL CLAD JACKETING (COVERING FOIL) ▶ TECHNICAL DATA			
Weight	Approx.	388 g/m²	EN 22 286
Thickness	Approx.	280 µm	DIN 53 370
Traction resistance	longitudinal	175 N/15 mm	ISO 527- 3
	transverse	175 N/15 mm	ISO 527- 3
Breaking strain	longitudinal	35 %	ISO 527- 3
	transverse	40 %	ISO 527- 3
Resistance to tearing	longitudinal	155 N/25 mm	ISO 527- 3
	transverse	182 N/25 mm	ISO 527- 3
Resistance to bending	longitudinal	90 N/mm²	DIN 53 864
	transverse	90 N/mm²	DIN 53 864
Permeability to vapour	0,052 g/m2/d		DIN 53 122
Fire rating (with K-FLEX® ST)	Sheet: Euroclass D-s3, d0	EN 13501-1 EN 13501-1 BS 476 Part 6/7	
	Tube: Euroclass CL-s3, d0 Class 0		

RESISTANCE CHARACTERISTICS OF THE AL CLAD SHEET TO ATMOSPHERIC AGENTS ▶ TECHNICAL DATA

UV resistance	>2000 hours 500 W/m² (Atlas Suntest XLS+ QUV, internal test)		
Radiation resistance	>3.600.000 kJ/m²		
Resistance to humidity	>2000 hours UVC (internal test)		

K-FLEX® AL CLAD: RESISTANCE OF THE SURFACE TO AGGRESSIVE CHEMICALS ▶ TECHNICAL DATA

Acids	acetic acid (max concentration)	resistant	Hydrocarbons	Aliphatic hydrocarbon	resistant
	50% formic acid	resistant			
	10% hydrochloric acid	resistant			
	30% hydrochloric acid	partially resistant			
	10% and 35% hydrofluoric acid	resistant			
	10% nitric acid	resistant			
	65% and 100% nitric acid	partially resistant			
	30% and 85% phosphoric acid	resistant			
	20% sulphuric acid	partially resistant			
Aldehydes	Acetaldehyde	resistant	Other organic substances	Acetone	resistant
	Formaldehyde	resistant		Ether	resistant
Alcohols	Benzyl alcohol	partially resistant	Salt solutions	Bichromates Cyanides Fluorides	resistant resistant resistant
	Cyclohexanol	resistant			
	Ethyl alcohol	resistant			
	Glycerine	resistant			
	Glycol	resistant			
	Isopropyl alcohol	resistant			
	Methyl alcohol	resistant			
Alkaline solutions	Ammonium hydroxide	partially resistant	Esters	Ethyl acetate	resistant
	Calcium hydroxide	partially resistant			
Chlorinate solvents	Chloroform	partially resistant			
	Trichloroethylene	partially resistant			

K-FLEX® reserves the right to change data and technical requirements without notice.

GENERAL INFORMATION



K-FLEX® AL CLAD SYSTEM TUBES

Tubes have a coating system with a high performance adhesive overlap coupled to **K-FLEX® ST** insulation. Suitable for both indoor and outdoor use, the **AL CLAD** foil has an aesthetic finish and forms an impermeable barrier protecting the insulation from UV radiation and adverse weather. The complete system is easily installed with a significant reduction in labour time. Matching pre-formed trims complete the range.



K-FLEX® AL CLAD SYSTEM SHEETS

Sheets are composed of the **AL CLAD** coating system coupled with **K-FLEX® ST** insulation. Available in standard or self-seal, they are designed for use with conduits, ventilation ducts and large pipes. Their flexibility and ease of processing make this material especially suitable for awkward configurations and trims.

K-FLEX® AL CLAD SYSTEM ▶ RANGE

	▼ Length ▼	▼ Thicknesses ▼	▼ Diameters ▼
K-FLEX® AL CLAD - Tubes	1 m	9-13-19-25-32-40-50 mm	from 15 to 160 mm
	▼ Thicknesses ▼	▼ Height ▼	
K-FLEX® AL CLAD - Sheets	6-9-13-16-19-25-32-40-50 mm	1000/1500 mm	
K-FLEX® AL CLAD - Adhesive sheets	6-9-13-16-19-25-32-40-50 mm	1000/1500 mm	

ACCESSORIES



Preformed K-FLEX® AL CLAD elbows



Preformed elastomeric K-FLEX® elbows coupled with AL CLAD foil



Preformed “T” connections with AL CLAD foil



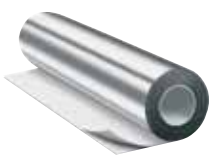
Preformed elastomeric K-FLEX® “T” connections coupled with AL CLAD foil



Preformed elastomeric K-FLEX® elbows



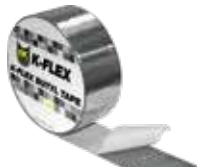
Preformed elastomeric K-FLEX® “T” section in standard sizes



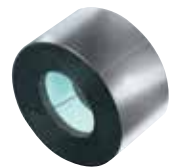
AL CLAD foil, with or without adhesive



AL CLAD adhesive tape



AL CLAD butyl tape for outdoor application



K-FLEX® AL CLAD system pipe insulated supports



K-FLEX® AL CLAD system pipe insulated supports with collar



K-SIL Silicone