

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



TECHNICAL DATA

K-FLEX® AL CLAD JACKETING (COVERING FOIL) ▶ TECHNICAL DATA			
Weight	Approx.	388 g/m ²	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/mm ²	DIN 53 864
	transverse	90 N/mm ²	DIN 53 864
Permeability to vapour	0,052 g/m ² /d		DIN 53 122
Fire rating (with K-FLEX® ST)	Sheet: Euroclass D-s3, d0		EN 13501-1
	Tube: Euroclass CL-s3, d0		EN 13501-1
	Class 0		BS 476 Part 6/7

RESISTANCE CHARACTERISTICS OF THE AL CLAD SHEET TO ATMOSPHERIC AGENTS ▶ TECHNICAL DATA	
UV resistance	>2000 hours 500 W/m ² (Atlas Suntest XLS+ QUV, internal test)
Radiation resistance	>3.600.000 kJ/m ²
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		Benzene	resistant
	10% hydrochloric acid	resistant		Petroleum	resistant
	30% hydrochloric acid	partially resistant		Mineral oil	resistant
	10% and 35% hydrofluoric acid	resistant		Toluene	resistant
10% nitric acid	resistant	Xylene	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	resistant
	Cyclohexanol	resistant		Cyanides	resistant
	Ethyl alcohol	resistant		Fluorides	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