# K-FLEX® AL CLAD SYSTEM







## K-FLEX® AL CLAD SYSTEM

- 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 <sup>®</sup> AL CLAD JACK	ETING (COVERING FOIL) > TECHNICAL	. DATA	
Weight	Approx.	388 g/m²	EN 22 286
Thickness	Approx.	280 μm	DIN 53 370
Traction resistance	longitudinal transverse	175 N/15 mm 175 N/15 mm	ISO 527- 3 ISO 527- 3
Breaking strain	longitudinal transverse	35 % 40 %	ISO 527- 3 ISO 527- 3
Resistance to tearing	longitudinale trasversale	155 N/25 mm 182 N/25 mm	ISO 527- 3 ISO 527- 3
Resistance to bending	longitudinal transverse	90 N/mm2 90 N/mm2	DIN 53 864 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 Tube: Euroclass C <sub>L</sub> -s3, d0 Class 0		EN 13501-1 EN 13501-1 BS 476 Part 6/7

RESISTANCE CHARACTERISTICS OF THE AL CLAD SHEET TO ATMOSPHERIC AGENTS > TECHNICAL DATA				
UV resistance	>2000 hours 500 W/m <sup>2</sup> (Atlas Suntest XLS+ QUV, internal test)			
Radiation resistance	>3.600.000 kJ/m <sup>2</sup>			
Resistance to humidity	>2000 hours UVC (internal test)			

K-FLEX <sup>®</sup> AL CLAD: RESIS	TANCE OF THE SURFACE TO	AGGRESSIVE CHEM	ICALS > TECHN	ICAL DATA	
Acids	acetic acid (max concentration) 50% formic acid 10% hydrochloric acid 30% hydrochloric acid 10% and 35% hydrofluoric acid 10% nitric acid 65% and 100% nitric acid 30% and 85% phosphoric acid 20% sulphuric acid	resistant resistant partially resistant resistant resistant partially resistant resistant partially resistant partially resistant	Hydrocarbons	Aliphatic hydrocarbon Benzene Petroleum Mineral oil Toluene Xylene	resistant resistant resistant resistant resistant resistant
Aldehydes	Acetaldehyde Formaldehyde	resistant resistant	Other organic substances	Acetone Ether	resistant resistant
Alcohols	Benzyl alcohol Cyclohexanol Ethyl alcohol Glycerine Glycol Isopropyl alcohol Methyl alcohol	partially resistant resistant resistant resistant resistant resistant resistant	Salt solutions	Bichromates Cyanides Fluorides	resistant resistant resistant
Alkaline solutions	Ammonium hydroxide Calcium hydroxide	partially resistant partially resistant	Esters	Ethyl acetate	resistant
Chlorinate solvents	Chloroform Trichloroethylene	partially resistant partially resistant			
${\rm K}\mbox{-}{\rm FLEX}^{\circledast}$ 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. 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.

Matching pre-formed trims complete the range.

K-FLEX <sup>®</sup> AL CLAD SYSTEM ▶ RANGE							
	👻 Length 👻	<ul> <li>Thicknesses</li> </ul>	<ul> <li>Diameters</li> </ul>				
K-FLEX® AL CLAD - Tubes	1 m	9-13-19-25-32-40-50 mm	from 15 to 160 mm				
	- Thic	knesses 🔻	🕶 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<sup>®</sup> elbows coupled with AL CLAD foil

Preformed "T" connections with AL CLAD foil





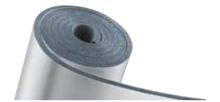


AL CLAD foil, with or without adhesive

AL CLAD adhesive tape

K-FLEX<sup>®</sup> AL CLAD system pipe insulated supports





#### **K-FLEX® AL CLAD SYSTEM SHEETS**



Preformed elastomeric K-FLEX<sup>®</sup> "T" connections coupled with AL CLAD foil



Preformed elastomeric K-FLEX® elbows



Preformed elastomeric K-FLEX<sup>®</sup> "T" section in standard sizes



K-FLEX<sup>®</sup> AL CLAD system pipe insulated supports with collar