

K-FLEX



K-FLEX Products



for Duct & Raised Floor Systems

K-FLEX ST Duct & Raised Floor System is an NBR/PVC based closed cell, flexible elastomeric foam thermal and acoustic insulation. It is environmentally friendly as it is free of CFCs, HFCs, HCFCs, formaldehyde and fibers. K-FLEX ST insulation features a protective skin on both sides. It is available with pressure sensitive adhesive and/or aluminium foil allowing much reduced installation time.



EMSL ANALYTICAL, INC.



K-FLEX
www.kflex.com

K-FLEX ST DUCT



K-FLEX ▶ ST DUCT & RAISED FLOOR SYSTEMS

K-FLEX ST Duct provides excellent thermal and acoustical properties when used in air handling units and duct system. It provides noise reduction, energy conservation, IAQ control (closed-cell structure prevents moisture intrusion and subsequent mold growth).

Why Insulate Air Duct systems using K-FLEX?

1. Energy Conservation

K-FLEX insulated duct reduce the heat loss or heat gain into or out of the duct system. The cooled air can be delivered efficiently which translates into energy and dollars savings.

2. Condensation Control

K-FLEX insulated duct systems prevent condensation on ducts and equipment surface to decrease opportunities for any microbial or moisture growth.

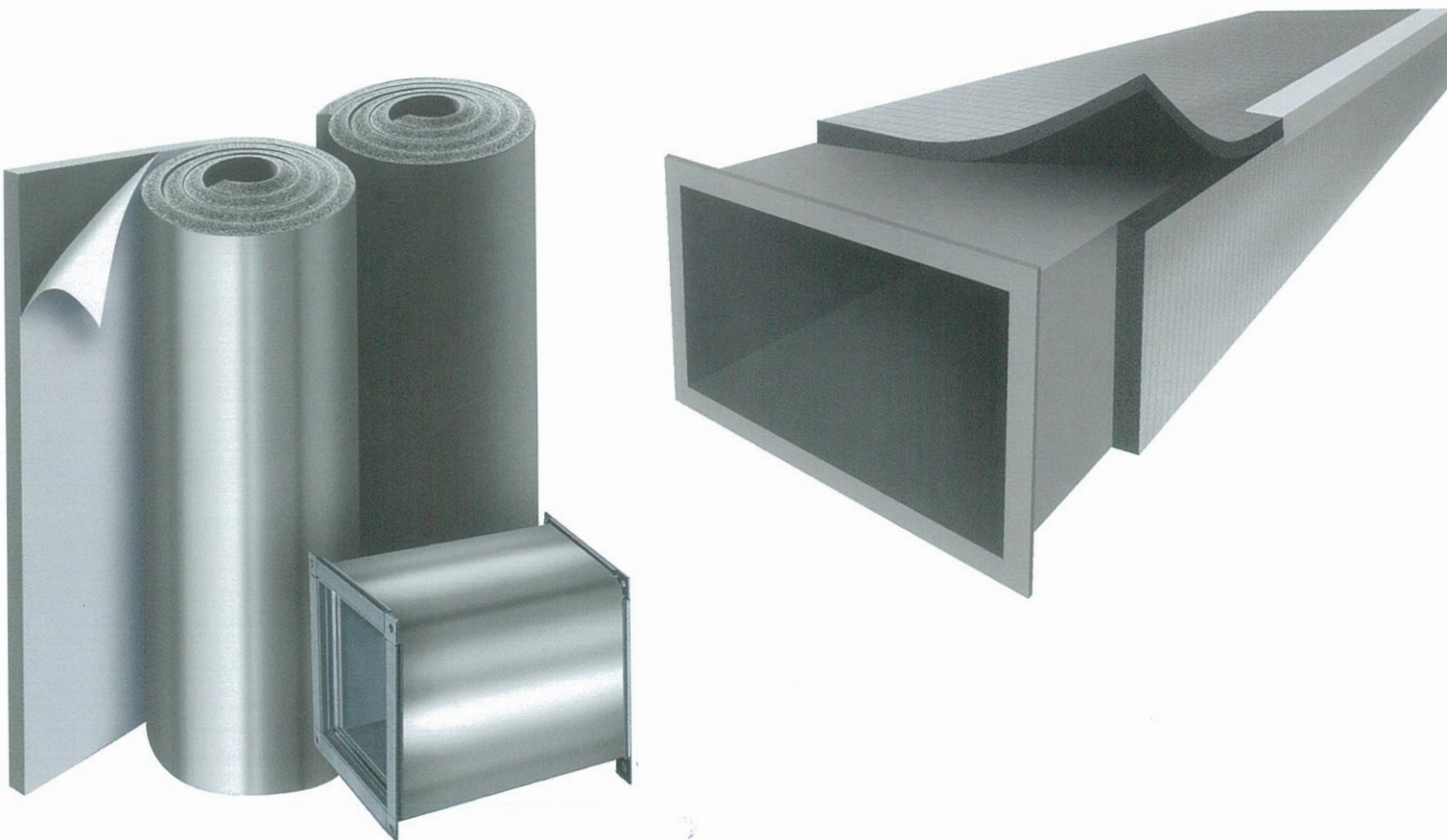
3. Noise Reduction

K-FLEX insulation is engineered to absorb noise, excellent thermal and acoustical properties when used in air handling units and duct system.

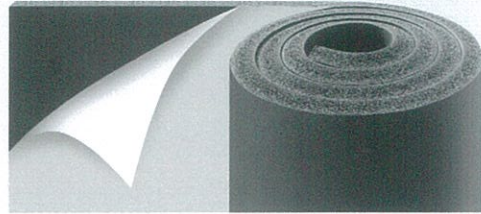
4. Non-porous, fiber free and prevent moisture, fungal and bacterial growth.

5. Flexible for Ease of Cutting and Speedy installation, resulting in Time and Cost saving.

6. It is approved by the Factory Mutual Research Corporation, Green Guard, Singapore Green Building Product and EMSL (Anti Microbials).



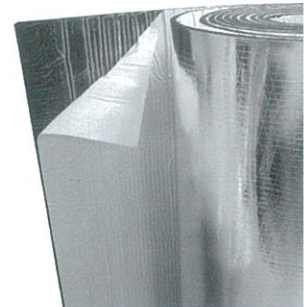
K-FLEX ST RAISED FLOOR SYSTEMS



The demand for energy conservation and a healthy environment for commercial building have not only led to better air-conditioning system but better insulation system by K-FLEX. K-FLEX insulation is an ideal choice for application like Data Centres, Banks, Hotels, Office buildings and Computer rooms.

The Benefits of Using K-FLEX for Insulation of Under Floor Plenums

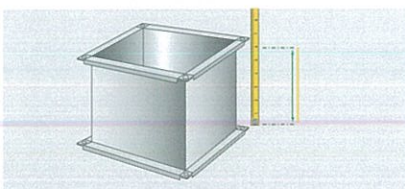
- 1 Minimise Thermal loss that can affect the temperature of supply when diffusers are located far from distribution fan.
- 2 K-FLEX Insulation prevents energy loss and mean of condensation control especially when the air temperature is not kept above the dew point temperature on the floor slabs.
- 3 Flexible for Ease of Cutting and Speedy installation, resulting in time and cost saving.
- 4 K-FLEX insulation eliminate the unnecessary noise on the under floor plenums as the noise may be generated from fan terminals units or adjacent rooms separate by partition.
- 5 Provide the assurance of protection against condensation on the lower floor ceilings.
- 6 Factory applied tough and durable foil facing K-FLEX is designed to withstand mechanical impact and abrasion especially during renovation, fitting and laying of cable systems within the floor cavity.



TECHNICAL DATA ► K-FLEX ST DUCT & RAISED FLOOR SYSTEMS

Material	Elastomeric foam - Nitrile Butadine Rubber
Cell structure	Closed-cell
Temperature Range	-200°C ~ +116°
Thermal Conductivity, EN 12667 (DIN 52612)	$\lambda = 0.034 \text{ W/m.K @ } +20 \text{ C}$ $\lambda = 0.032 \text{ W/m.K @ } 0 \text{ C}$ $\lambda = 0.028 \text{ W/m.K @ } -50 \text{ C}$
Water Vapour Diffusion Resistance Factor EN 12086 (DIN 52615)	$\mu > 10,000$
Fire Performance (surface spread of flame, BS 476 Part 7:1997)	Class 1
Fire Propagation (BS 476 Part 6:1989)	Class 0
- Total Index of Performance (I)	Less Than 12
- Sub Index (i)	Less Than 6
Density	50 ~ 80 kg/m ³
Fungal / Mold resistance	ASTM G21 Anti Microbial Greenguard certified
VOC Emissions Test Report	Low VOC
Ecological Data	CFC-HCFC Free - Diphenyloxyde Free - Formaldehyde Free

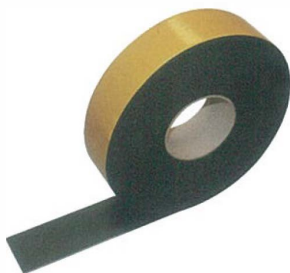
K-FLEX reserves the right to change data and technical requirements without notice.



K-FLEX DUCT & RAISE FLOOR

ACCESSORIES ▶ K-FLEX ST

SELF ADHESIVE FOAM TAPES



PIPE SUPPORT



K 996 GLUE



ALUMINIUM TAPE



<https://chill-flow.com/>



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