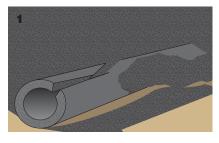


INSTALLATION FITTED PIPES



far easier.

We recommend using the K-FLEX cutter which is ideal for longitudinal cuts.



Position the tube so that the edges are separated, and apply an even layer of K-FLEX K-996 glue.

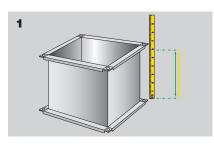


Use only the sharpest knife for cutting
The use of the cutter is illustrated in these two diagrams. Let the blade run - this makes the subsequent glueing along the tube without the tool's surfaces touching it to get a neat, clean cut.



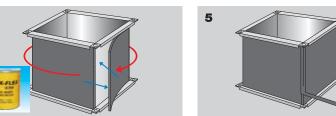
Once the glue has dried, reseal the tube, pressing the edges firmly together.

INSTALLATION INSULATION DUCTINGS

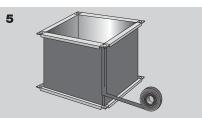


There are considerable advantages in using K-FLEX EC ROLL SHEET for ducting, which has the same height as the sheeting.

Take the measurements of the ducting section to be lagged.



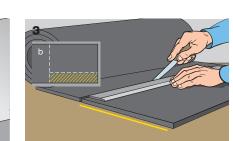
Glue the side of the sheeting to be stuck to the conduit and glue the conduit surface, then apply the sheeting, keeping it taut at the corners.



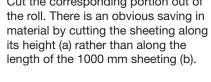
sticking perfectly.

Cover the corner where the edges join with adhesive insulating tape. Compared to a similar operation carried out with 1000 mm sheeting, as well as the saving in material. there has only been one cut in the application.





Use thinner to thoroughly clean the Cut the corresponding portion out of surface to be insulated. Insulation is not recommended where there is incrustation or other flaws which could prevent the sheeting from

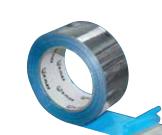




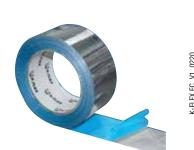


PIPE SUPPORT





ALUMINIUM TAPE



www.kflex.com.my | 6



PROJECT THAILAND

PROJECT > MALAYSIA

Columbia Asia Hospital - Klang

Verde Suite @ Ara Damansara

PROJECT > INDONESIA

Pullman Hotel, Central Park - Jakarta

Pakubuwono The View Apartment - Jakarta

Pioneer Haevn @ Jalil City

Setia City Residences

Skyluxe @ Jalil City

YTL HQ @ Bukit Bintang

Akmani Hotel, Legian - Bali All Season Hotel - Nusa Dua, Bali

Cavington Hotel - Jogya

Novotel Hotel - Tangerang Sol Marina Hotel - Serpong

Mercure Hotel - Surabaya

Istana Presiden Bogor

Almond Hotel Olypia City

City Tower

Calmette Hospital

Toyoko Inn Hotel

The Bridge Showroom

Thai Villiage Restaurant

Era Phnom Penh Hotel

Era Siem Reap Hotel

Mazda Showroom

Marriott Hotel

The Parkland

Cazameridian Twin Tower

ACCESSORIES

Tela Gase Station Head Office

The East Office - Jakarta

Wisma Soho Office - Jakarta

The Peak Apartment – Jakarta

Cho Ray Phnom Penh Hospital

XXL Cinema All Outlet - Indonesia

PROJECT > CAMBODIA

Coca-Cola Factory – Surabaya

Australia Embassy Office - Jakarta

Hospital UKM

Casa Green

IMU Hospital

8 Conlay

PJ Midtown

Hospital Uniza

Bukit Jalil Stadium

MEASAT Building H20 - Ara Damansara

Mahanakhon Tower Marriott Surawong Palladium Hotel Maya Chiangmai Central Embassy Chiangmai Promenada Chiangmai Four Wing Grand Hotel Dusit Hotel Four Point Hotel Best Western Hotel Holiday Inn Hotel Vana Belle Hotel Paradise Park The Nine Community Mall The Walk

PROJECT > SINGAPORE

Changi Water Reclaimation Plant Marina Band Sands Norvatis Plant @ Tuas Rio Casa Condominium Mayflower Primary School Biopolis Centre **NUS Laboratory** UMCi @ Pasir Ris Sony A&A 40 Gul Circle St Joseph Institution International School Crystal Plant @ Jurong Island Singapore General Hospital Sime Darby Centre



Filinvest Plaza E BPO-Araneta Winford Hotel Citadine Northgate DCS Circuit BPO Texas Instruments Novotel Aqua World Commerce Place Palawan International Airport Robinson's Naga National Musuem - Philippines 81 Newport Studio A **Batasan Congress**



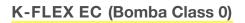
PROJECT → VIETNAM

First Solar Factory DenEast Milk Pepsico Suntory Factory Cai Lan International Container Terminal Olympus Marigot Vietnam Lotte Centre Ha Noi Hyatt Regency Apartment Hue Hospital Intercontinental Resort and Spa Bitexco Financial Center Hilton Saigon Hotel





JW Marriott



K-FLEX EC

Elastomeric Closed Cell Insulation Thermal & Acoustic Insulation For HVAC/R

























K-FLEX



K-FLEX EC

"K-FLEX is the world's leading manufacturer of elastomeric insulation systems. In fourteen production facilities around the world, including Poland, France, China, India, Korea, Malaysia, Dubai, Egypt, the UK and the USA some 2,500 employees develop and manufacture outstanding product solutions for thermal and acoustic insulation.

K-FLEX is committed to ensuring its products comply with the fire safety and industry-wide safety standards.

K-FLEX has 63 sales offices on five continents, offering premium service to more than 50,000 customers.

As the world's fastest-growing company in the industry, K-FLEX is also a global player in the target markets of building services, refrigeration, air conditioning and ventilation, rail, shipping, automotive and beverage industries as well as the solar industry and

K-FLEX has ISO 9001 and ISO 14001 certification."



K-FLEX EC is a multi purpose flexible elastomeric thermal insulation with a built-in vapour barrier and a closed cell structure, this make K-FLEX insulation a high resistance to water vapour transmission which in turn enable the material to maintain a high level of energy conservation efficiency.

K-FLEX EC is a dust and fibre free insulation that make it an ideal product for apartments, commercial buildings, industrial plants, oil & gas industry, marine and offshore applications.

K-FLEX EC is the ideal choice for:

Refrigeration pipework

Large pipe and tanks

 Hot water piping system Chilled water piping system Ducting system

Drainage system

With 12 plants worldwide, K-FLEX can uniquely provide On-Time Delivery, Consistent Product Quality and a Highly Competitive Price.

ADVANTAGES



Low flame spread

When fire tested K-FLEX EC, it does not generate flaming droplets, and has a low fire propagation index. These combined class "0" as defined in Building





High water vapour diffusion resistance

K-FLEX EC closed cell elastomeric insulation has a high water vapour diffusion resistance factor μ , that minimizes water vapour penetration, giving excellent long term performance.



Very low thermal conductivity

K-FLEX EC thermal conductivity is $\lambda 0^{\circ}$ C = 0.034W/{m·K}. The thermal conductivity coefficient is the most important factor in calculation focused on energy saving.



TECHNICAL DATA

Brief description	Flexible elastomeric foam, closed-cell insulation material					
Material type	Nitrile Butadine Rubber					
Colour	Black					
Assembly	Light weight and flexible. Closed cell structure means no additional vapour barrier is required.					

Property	Value/Assessment	Special Remark					
Temperature Range	Max. service temperature: +116 °C Min. service temperature: -45 °C	Tested acc.to EN 14706, EN 14707 and EN 14304					
Thermal Conductivity	$\lambda \leq 0.035$ W/(m.K) at +20 °C $\lambda \leq 0.034$ W/(m.K) at 0 °C $\lambda \leq 0.032$ W/(m.K) at -20 °C	Tested according to DIN EN 12667, EN ISO 8497					
Water vapour diffusion resistance	Water vapour diffusion resistance: $\mu \ge 7,000$ Water Absorption % by volume < 1.1	Tested acc. To EN 12086, EN 13469 Test acc to ASTM C 209					
Fire performance	Surface Spread of Flames: Class 1	Surface Spead of Flame: tested according to BS 476 Part 7:1997 Self-extinguishing, does not drip, does not spread flames					
Other Fire Class	V0, 5VA Class 1 supervised M1 - NF supervised Class "0"	UL 94 Italy CSE RF 3/77 France Bomba					
Chemical behaviour	Excellent resistance to ozone, oil and chemicals (consult product test list).						
Other certificates	Anti microbial Greenguard Singapore Green Building Products Low VOC	Tested acc. To ASTM G21 Tested acc. To ISO 17025 Approved Tested acc. To ISO 16000 part -3, -6, -9, -11					
Density	48 to 70 kg/m³						
UV resistance	For UV protection K-FLEX finish paint required						

For temperatures below -50 °C please contact our Customer Service Center to request for the corresponding technical information.

The reaction to fire classification is valid on metal or solid, mineral surfaces.

Further documents such as test certificates, approvals and the like can be requested using the registration number given. *K-FLEX* reserves the right to change data and technical requirements without notice.

PIPE INSULATION THICKNESS RECOMMENDATIONS

	Pipe Size							
Conditions	6mm - 28mm	28mm - 60mm	60mm - 114mm	114mm - 168mm				
Ambient Temperature: 33°C Medium Temperature: 6°C Relative Humidity 60% 70% 80%	10 mm 19 mm 25 mm	13 mm 19 mm 32 mm	13 mm 19 mm 32 mm	13 mm 25 mm 32 mm				
Ambient Temperature: 33°C Medium Temperature: 12°C Relative Humidity 60% 70% 80%	10 mm 13 mm 19 mm	10 mm 13 mm 25 mm	10 mm 19 mm 25 mm	13 mm 19 mm 25 mm				
Ambient Temperature: 33°C Medium Temperature: -50°C Relative Humidity 60% 70% 80%	32 mm 50 mm 63 mm	40 mm 50 mm 75 mm	40 mm 60 mm 90 mm	50 mm 60 mm 100 mm				

SHEET INSULATION THICKNESS RECOMMENDATIONS

Conditions	Ducts - Tanks - Vessels - Equipment Metal
Ambient Temperature: 33°C Medium Temperature: 6°C Relative Humidity 60% 70% 80%	13 mm 25 mm 40 mm
Ambient Temperature: 33°C Medium Temperature: 12°C Relative Humidity 60% 70% 80%	13 mm 19 mm 32 mm
Ambient Temperature: 33°C Medium Temperature: -50°C Relative Humidity 60% 70% 80%	50 mm 75 mm 125 mm





K-FLEX EC tube is available in 2 meters length. In sheet form, K-FLEX EC is available in roll or pre-cut sheet. All sheet material is available with or without self adhesive and/or self adhesive and aluminium foil.

RANGE K-FLEX EC TUBES (2 METRES)

Coppe	er Pipe	Iron	Pipe	6 •	1/4"	9 • 3/8"		13 • 1/2"		19 • 3/4"		25 • 1"		32 • 1 •1/4"		40 • 1 • 1/2"		50 • 2"	
OC Inches	ø OD mm	LPS Inches	ø OD mm	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box	size	m/box
1/4"	6					9x6	288	13x6	160	19x6	100								
3/8"	10	1/6"	10.2			9x10	240	13x10	152	19x10	80	25x10	60						
1/2"	12					9x13	180	13x13	128	19x13	72	25x13	50						
5/8"	15	1/4"	13.5	6x16	266	9x16	168	13x16	112	19x16	60	25x16	50						
3/4"	20			6x19	180	9x19	136	13x19	104	19x19	60	25x19	40	32x19	32				
7/8"	22	1/2"	21.3	6x22	180	9x22	128	13x22	98	19x22	60	25x22	38	32x22	24	40x22	18	50x22	12
1"	25			6x25	152	9x25	108	13x25	80	19x25	50	25x25	40	32x25	24	40x25	16	50x25	10
1•1/8"	28	3/4"	26.9	6x28	130	9x28	98	13x28	78	19x28	48	25x28	32	32x28	24	40x28	16	50x28	10
1•3/8"	35	1"	33.7	6x35	100	9x35	76	13x35	58	19x35	36	25x35	24	32x35	18	40x35	16	50x35	8
1•5/8"	42	1•1/4"	42.4	6x42	90	9x42	60	13x42	48	19x42	32	25x42	22	32x42	16	40x42	12	50x42	8
1•7/8"	48	1•1/2"	48.3			9x48	50	13x48	40	19x48	24	25x48	18	32x48	14	40x48	10	50x48	8
2•1/8"	54					9x54	46	13x54	34	19x54	24	25x54	18	32x54	14	40x54	10	50x54	8
2•3/8"	60	2"	60.3			9x60	46	13x60	32	19x60	22	25x60	18	32x60	10	40x60	8	50x60	8
3"	76	2•1/2"	76.1			9x76	40	13x76	26	19x76	18	25x76	10	32x76	8	40x76	8	50x76	6
3•1/2"	89	3"	88.9			9x89	36	13x89	24	19x89	14	25x89	8	32x89	8	40x89	8	50x89	6
4•1/2"	114	4"	114.3			9x114	22	13x114	18	19x114	12	25x114	6	32x114	6	40x114	6	50x114	6
		5"	139.8													40x140	4	50x140	4
		6"	165.2													40x168	4	50x168	4

The above highlighted are in 1.83 metres (Malaysia Only)

RANGE K-FLEX EC SHEET IN ROLLS

Туре	Thick	iness	Sheet 1.22 metre wide				
	mm	inches	format	m²/box			
PL/RO 06	6	1/4"	30 x 1.22	34.20			
PL/RO 10	10	3/8"	20 x 1.22	22.80			
PL/RO 13	13	1/2"	14 x 1.22	15.96			
PL/RO 16*	16	5/8"	12 x 1.22	14.64			
PL/RO 19	19	3/4"	10 x 1.22	11.40			
PL/RO 25	25	1"	8 x 1.22	9.12			
PL/RO 32	32	1•1/4"	6 x 1.22	6.84			
PL/RO 40	40	1•1/2"	4 x 1.22	4.56			
PL/RO 50	50	2"	4 x 1.22	4.56			

^{* 16}mm only available upon received Purchase Order from customer.



PACKAGING K-FLEX EC TUBES AND SHEETS





0.5m x 1.23m





















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