



FOILFLEX
NO-CLAD

FDG'S PREMIUM PERFORMANCE PIPE INSULATION SOLUTION

Foilflex II is a preformed, closed cell, cross-linked polyolefin foam tube insulation with reinforced foil facing, ideal for steel, plastic and copper pipes.

Premium performance pipe insulation offering lower insulation costs and maximum energy savings

Product Description

- Completely closed cell, physically cross-linked foam pipe insulation.
- Heat bonded factory applied reinforced aluminium foil.
- Pre-slit for faster installation.
- Flexible, tough and durable.
- Excellent compression resistance due to its cross-linked foam structure.
- Superior insulating properties compared to other flexible closed cell foams.
- Very high vapour diffusion resistance, Class 1 Vapour Retarder under ASHRAE 2009.
- No claddings required for internal applications.
- Conforms to ISO 5659-2 "Smoke Density and Toxicity".
- Anti-microbial.
- Green Star Compliant Product (VOC).
- Complies to NFPA 90A & NFPA 90B.



Foilflex^{II} No-Clad Structure

Foilflex II is a closed cell physically cross-linked polyolefin foam with a density of 25kg/m³, faced with heat laminated pure aluminium foil with reinforcement.



Product Specifications

Foilflex Lagging- 25MM					
Stock Code	Length	To Suit	Thickness	Pack	Description
55FF15CUX25	2000mm	15CU	25mm	40	FoilFlex Thermal Lagging - 15Cu x 25mm x 2mtr
55FF16PEXX25	2000mm	16PEX	25mm	38	FoilFlex Thermal Lagging - 16PEX x 25mm x 2mtr
55FF20CUX25	2000mm	20CU	25mm	35	FoilFlex Thermal Lagging - 20Cu x 25mm x 2mtr
55FF25CUX25	2000mm	25CU	25mm	30	FoilFlex Thermal Lagging - 25Cu x 25mm x 2mtr
55FF32CUX25	2000mm	32CU	25mm	28	FoilFlex Thermal Lagging - 32Cu x 25mm x 2mtr
55FF40CUX25	2000mm	40CU	25mm	25	FoilFlex Thermal Lagging - 40Cu x 25mm x 2mtr
55FF50CUX25	2000mm	50CU	25mm	17	FoilFlex Thermal Lagging - 50Cu x 25mm x 2mtr
55FF65CUX25	2000mm	65CU	25mm	14	FoilFlex Thermal Lagging - 65Cu x 25mm x 2mtr
55FF80CUX25	2000mm	80CU	25mm	10	FoilFlex Thermal Lagging - 80Cu x 25mm x 2mtr
55FF100CUX25	2000mm	100CU	25mm	9	FoilFlex Thermal Lagging - 100Cu x 25mm x 2mtr
55FF125CUX25	2000mm	125CU	25mm	8	FoilFlex Thermal Lagging - 125Cu x 25mm x 2mtr
55FF150CUX25	2000mm	150CU	25mm	4	FoilFlex Thermal Lagging - 150Cu x 25mm x 2mtr

Foilflex Lagging - 38mm					
Stock Code	Length	To Suit	Thickness	Pack	Description
55FF20CUX38	2000mm	20CU	38mm	20	FoilFlex Thermal Lagging - 20Cu x 38mm x 2mtr
55FF25CUX38	2000mm	25CU	38mm	20	FoilFlex Thermal Lagging - 25Cu x 38mm x 2mtr
55FF32CUX38	2000mm	32CU	38mm	15	FoilFlex Thermal Lagging - 32Cu x 38mm x 2mtr
55FF40CUX38	2000mm	40CU	38mm	15	FoilFlex Thermal Lagging - 40Cu x 38mm x 2mtr
55FF50CUX38	2000mm	50CU	38mm	12	FoilFlex Thermal Lagging - 50Cu x 38mm x 2mtr
55FF65CUX38	2000mm	65CU	38mm	10	FoilFlex Thermal Lagging - 65Cu x 38mm x 2mtr
55FF80CUX38	2000mm	80CU	38mm	8	FoilFlex Thermal Lagging - 80Cu x 38mm x 2mtr
55FF100CUX38	2000mm	100CU	38mm	5	FoilFlex Thermal Lagging - 100Cu x 38mm x 2mtr
55FF125CUX38	2000mm	125CU	38mm	5	FoilFlex Thermal Lagging - 125Cu x 38mm x 2mtr
55FF150CUX38	2000mm	150CU	38mm	4	FoilFlex Thermal Lagging - 150Cu x 38mm x 2mtr

Physical Properties

Technical Specification	Test standard	Foilflex No-Clad
Material Characteristics		Physically (irradiation) cross-linked polyolefin foam with factory reinforced foil.
Physical Property Requirements	(ASTM C1427)	Complies (Type I - Tubular)
Density		25kg/m ³ (foam core only)
Thermal Conductivity	(ASTM C518)	0.032 W/m/ °K (@23 °C mean temperature)
Water Vapour Permeability	(ASTM E96)	2.3 x 10 ⁻¹⁵ kg/Pa.s.m
Water Vapour Permeance	12mm thickness	0.000195 µg/N.s
Permeability Resistance Factor		µ>80,0000
Water Absorption by Volume	(JIS 6767)	0.1%v/v (0.00038 g/cm ²)
Resistance to Fungi	(ASTM G21)	Zero Growth
Ozone Resistance		Excellent
UV Resistance		Excellent
Operating Temperature		-80 °C to 100 °C

Foilflex^{II} Testing standards

Rigorous testing proves how Foilflex II is the clear choice when it comes to fire resistance.

Fire and Smoke Behaviour

Technical Procedure	Test Name
BS 476 Part 6 & 7	Class0
AS1530.3 (1999) Spread of Flame index: Heat Evolved Index: Ignitability Index: Smoke Developed Index:	0 0 0 0-1
ASTM E 84	Complies to: Flame Spread Index<25 Smoke Index <50
NFPA 90A & NFPA 90B	Complies with requirements
ISO 5659-2(1994) Smoke Density Smoke Toxicity	Dm<200 Satisfies max allowable concentrations for the following combustion gases CO, HCl, HBr, HF, HCN, NO _x , SO ₂
BS 6853 Annex B Complies to:	Smoke Toxicity, index R <1.0
EN ISO 11925 Reaction to Fire	Complies (Euroclass E)