



FOILFLEX
NO-CLAD

FDG'S EXTERNAL INSULATED CLADDING PROTECTION

Foilflex No-Clad is closed cell, physically cross-linked polyolefin foam insulation with ultra tough foil facing to prevent mechanical damage in high risk areas.

Designed as a cost effective alternative to cladding of pipe and duct insulation to prevent mechanical damage.

Product description

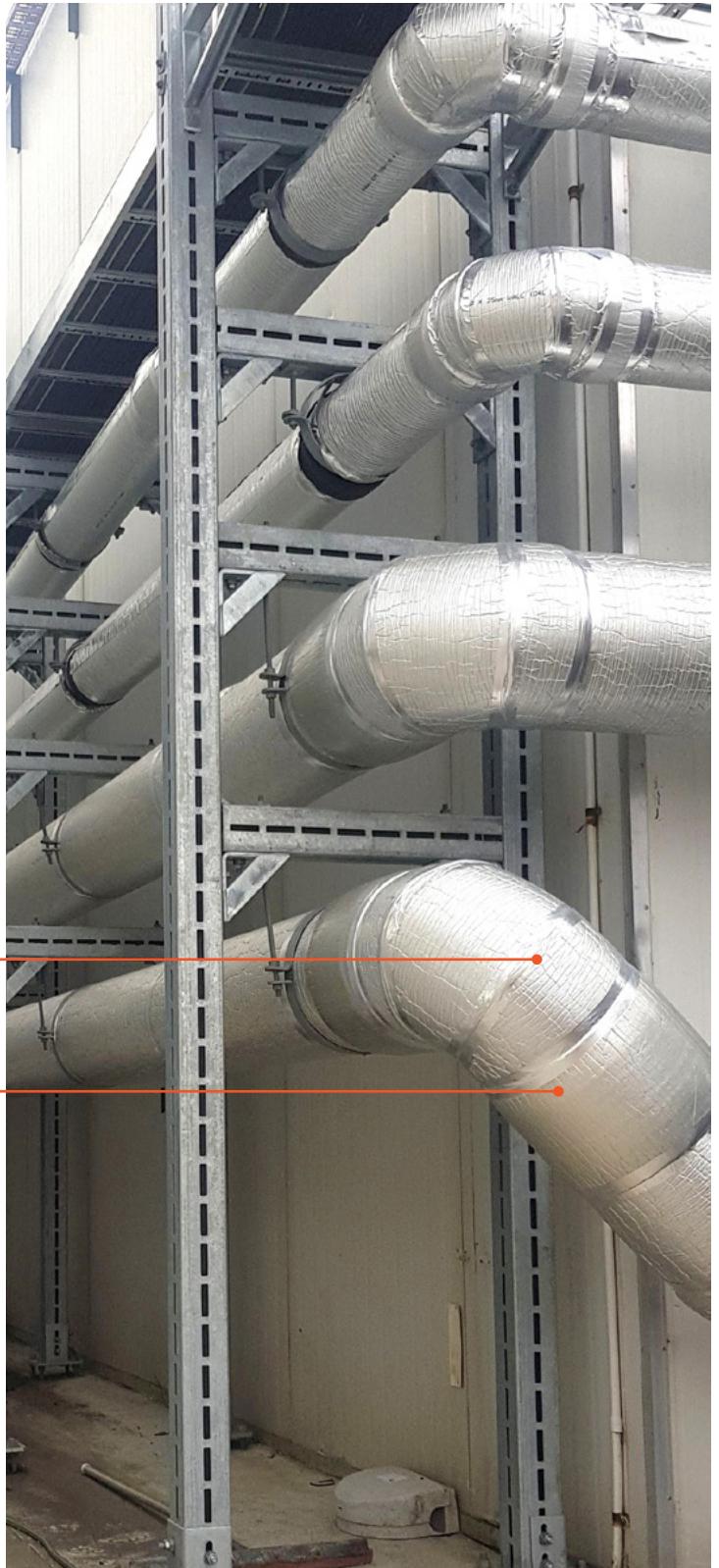
- Puncture resistant multilayer aluminium foil.
- A salt-water resistant, UV and weather durable clothing.
- The aluminium foil is reinforced with a ultra tough,close weave scrim.
- The flexible closed cell cross-linked polyolefin foam, underneath allows for distribution of impact force so inhibiting mechanical damage.
- Flexible, tough and durable with UV and weather durable coating.
- Excellent compression resistance due to its crosslinked foam structure.
- Superior insulating properties compared to other flexible closed cell foams.
- Anti-Microbial.
- Foilflex No-Clad has been designed for easy fabrication and installation.

**Puncture resistant
multilayer aluminium foil.**

**UV and weather
durable coating.**

Foilflex No-Clad Structure

Foilflex No-Clad is a cross-link closed cell polyolefin foam, with factory applied heavy-duty, multilayer composite, with specially developed UV and weather durable coating.



Physical Properties

MD= Machine Direction, CD= Cross Direction

Technical Specification	Test standard	Foilflex No-Clad
Material Characteristics		Physically (irradiation) cross-linked closed cell polyolefin foam with factory applied, heavy duty multilayer composite with a specially developed UV and weather durable coating.
Puncture Resistance	(ASTM D4833)	>400N
Tear Testing	(ASTM D751)	>60 N MD >50 N CD
Tensile Testing	(ASTM D751)	>1000 N MD >900 N CD
UV & Weathering (3000hr QUV exposure)	(ASTM C1427)	Excellent No change in performance or appearance
Salt resistance	(Internal test) (2 week immersion in 5% salt solution)	No visible change in appearance
Density	(ASTM C518)	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 K 6767)	0.03% 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 No-Clad testing standards

Rigorous testing proves how Foilflex No-Clad is the clear choice when it comes to fire resistance.

Fire and Smoke Behavior

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
FM 4924 (130546)	Approved (up to 8" IPS & 50mm wall thickness)

Size Availability

Foilflex No-Clad is available in a range of sizes for pipes and ducts.

Tube: Standard pipe OD's from 25mm to 273mm, with wall thickness of 25mm and 50mm. For other wall thicknesses please speak to your FDG representative.

Sheets: Available in sheets 1200mm x 2400mm in thicknesses of 25mm to 50mm.

System Accessories

A specially developed UV and salt-water resistant reinforced aluminium foil tape is available to ensure system integrity.



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fdgzn.com / sales@fdgzn.com / 0800 555 464