



Foilflex II No-Clad is closed cell, physically crosslinked 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 coating.
- The aluminium foil is reinforced with a ultra tough, close weave scrim.
- The flexible closed cell physically crosslinked polyolefin foam underneath allows for distribution of impact force so inhibiting mechanical damage to the insulation.
- 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.
- Although designed to be resistant to mechanical damage, Foilflex 11 No-Clad has been designed for easy fabrication using sharp knives.

Puncture resistant multilayer aluminium foil

UV and weather durable coating

Foilflex II No-Clad Structure

Foilflex II No-Clad is Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied, heavy duty multilayer composite with a specially developed UV and weather durable coating.

Physical Properties

Technical Specification	Test standard	Foilflex II No-Clad
Material Characteristics:		Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied, heavy duty multilayer composite with a specially developed UV and weather durable coating.
Puncture Resistance:	(ASTM D4833)	>400 N
Tear Testing:	(ASTM D751)	> 60 N MD > 50 N CD
Tensile Testing:	(ASTM D751)	> 1000 N MD > 900 N CD
UV & Weathering: (3000 hr 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 ² /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>80,000
Water Absorption by Volume:	(JIS K 6767)	0.03% v/v (0.00038 g/cm ³)
Resistance to Fungi:	(ASTM G21)	Zero Growth
Ozone Resistance:		Excellent
UV Resistance:		Excellent
Operating Temperature:		-80° C to 100° C

MD= Machine Direction, CD=Cross Direction

Foilflex II No-Clad testing standards

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

Fire and Smoke Behaviour

Test procedure	Test name
BS 476 Part 6 & 7	Class 0
AS1530.3 (1999) Spread of Flame Index: Heat Evolved Index: Ignitability Index: Smoke Developed Index	0 0 0 0 - 1
FM 492 4 (130546)	Approved (up to 8" IPS & 50mm wall thickness)

Size Availability

Foil Flex 11 No-Clad is available in a range of sizes for pipes and ducts.
 Tube: Standard pipe OD's from 25mm to 273mm, with wall thicknesses of 25mm and 50mm. For other wall thicknesses please speak to your Drillcut 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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