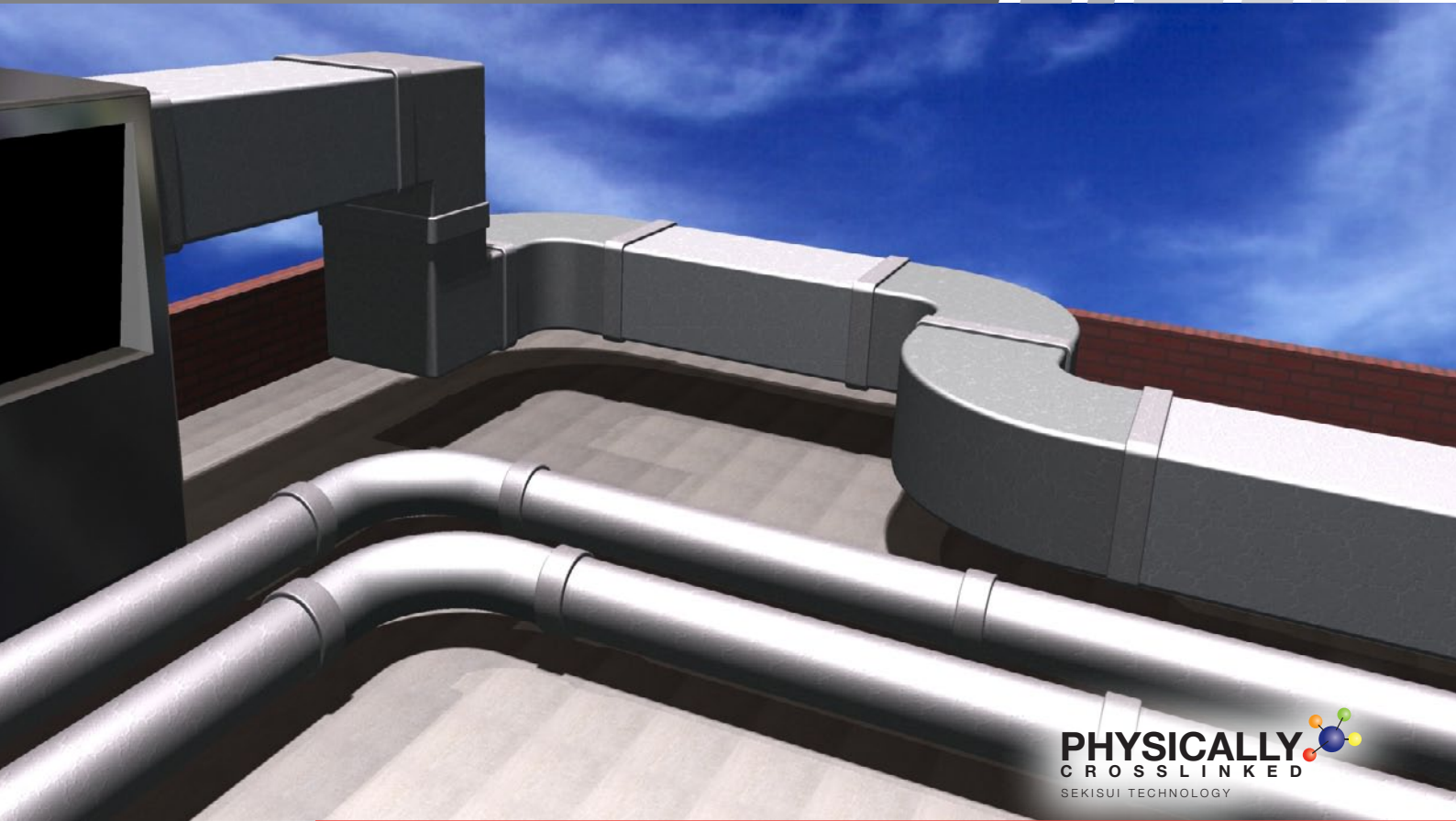


THERMOBREAK[®]

EXTERNAL INSULATION

No-Clad[™]



**PHYSICALLY
CROSSLINKED**
SEKISUI TECHNOLOGY

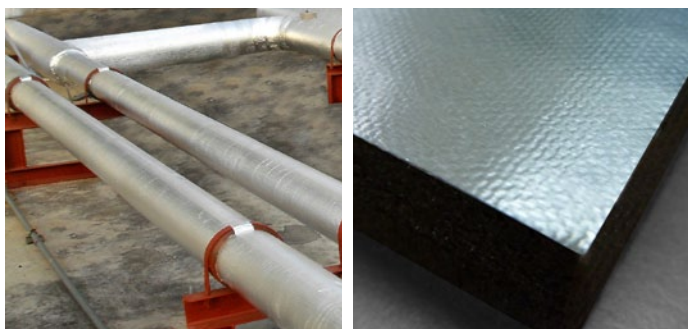
A closed cell physically crosslinked polyolefin foam insulation with ultra tough foil facing to prevent mechanical damage in high risk areas.

SEKISUI

**FOAM
INTERNATIONAL**
Global Foam Solutions



No-Clad™



Product Description

Thermobreak No-Clad is designed as a cost effective alternative to cladding of pipe and duct insulation to prevent mechanical damage. It differs from standard Thermobreak in that the aluminium foil is a puncture resistant multilayer consisting of:

- 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.

Although designed to be resistant to mechanical damage, Thermobreak No-Clad has been designed for easy fabrication using sharp knives.

System Accessories

No Clad Foil Tape

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

Size Availability

Thermobreak 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 up to 55mm

Ducts: Available in sheets 1200mm X 2300mm in Thicknesses of 25mm to 50mm

Technical Data

Material: Physically (irradiation) crosslinked closed cell polyolefin foam with factory applied, heavy duty multilayer composite with a specially developed UV and weather durable coating.

Density	25 kg/m ³ (foam core only)
Thermal Conductivity (ASTM C518)	0.032 W/mK (@ 23° C mean temperature)
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
MD= Machine Direction, CD=Cross Direction	
UV & Weathering (3000 hr QUV exposure)	Excellent No change in performance or appearance
Salt Resistance (Internal test) (2 week immersion in 5 % salt solution)	No visible change in appearance
Water Vapour Permeability (ISO 1663)	< 4.1 x 10 ⁻¹⁵ kg/Pa.s.m (25 mm thickness) (0.015mg.m/N.h)
Water Vapour Permeance:	< 1.7 x 10 ⁻⁴ g/MN.s
Permeability Resistance Factor:	μ > 40,000 (basis 25 mm thickness)
Water Absorption by Volume: (JIS K6767)	0.03% (0.00038g/cm ²)
Resistance to Fungi: (ASTM G21)	Zero Growth
Ozone Resistance :	Excellent
Operating Temperature :	-80° C to 100° C
Fire and Smoke Behaviour: BS 476 Part 6&7	Class 0
AS1530.3(1999)	
Ignitability index	0
Spread of Flame Index	0
Heat evolved Index	0
Smoke Develop Index	0-1

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