

# **THERMOBREAK<sup>®</sup> No-Clad**

**ULTRA TOUGH, EASY TO FABRICATE**



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

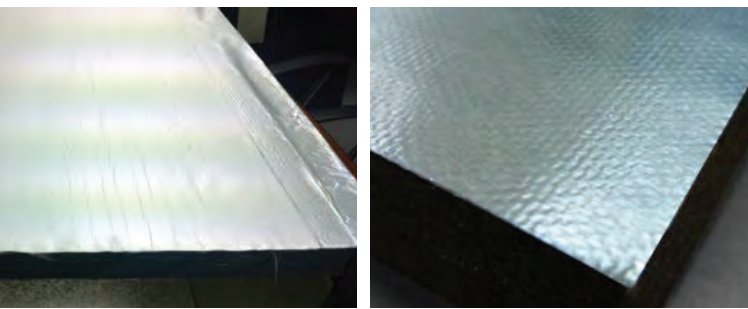
**SEKISUI**

**FOAM**  
**INTERNATIONAL**  
Global Foam Solutions

**PHYSICALLY**  
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SEKISUI TECHNOLOGY

# THERMOBREAK<sup>®</sup> No-Clad

## ULTRA TOUGH, EASY TO FABRICATE



### Product Description

Thermobreak<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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 Sekisui Foam representative

**Sheets:** Available in sheets 1200mm X 2400mm in Thicknesses of 25mm to 50mm

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### 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:	25kg/m <sup>3</sup> (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 (ASTM E96)	2.3 X 10 <sup>-15</sup> 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 K6767)	0.03% v/v (0.00038g/cm <sup>2</sup> )
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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