

AFT DUCTLINER™

PRODUCT DESCRIPTION AND TYPICAL APPLICATIONS

Insulation Solutions™ *AFT Ductliner* was developed to meet the thermal performance requirements of AS4508 for internal air conditioning ducting. AFT is a flexible, lightweight foil vapour barrier, which provides an impervious facing on sound absorptive baseboards of any density.

With its unperforated foil and complete fibre enclosure, *AFT Ductliner*

will not contribute to an increase in airborne particles; so it is ideal for clean rooms, hospital, laboratory, pharmaceutical and exhaust situations.

AFT Ductliner has a 0002 fire rating, will not support bacterial growth and can be easily repaired using AFT tape

PHYSICAL CHARACTERISTICS

Nominal Thickness (mm)	25	50	25	50
Dimensions* (mm) Boards	2400 x 1200	2400 x 1200	2400 x 1200 2400 x 1500	2400 x 1200 2400 x 1500
Dimensions* (mm) Rolls	15000 x 1200 12000 x 1500	7500 x 1200 8000 x 1500	15000 x 1200 10000 x 1500	7500 x 1200 6000 x 1500
Nominal Density (kg/m³)	32	32	48	48
Mass/Unit Area (kg/m²)	0.8	1.6	1.2	2.4

*Not all sizes are stocked. Please contact your nearest sales office for further details.

THERMAL CONDUCTIVITY

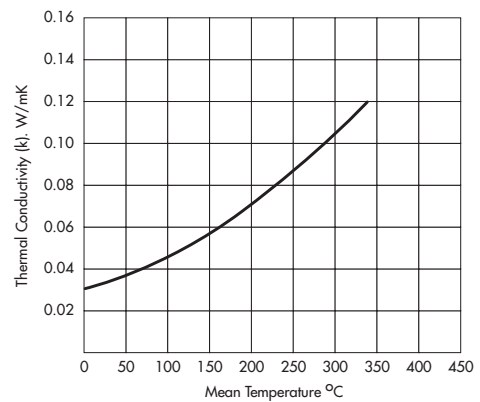
The thermal conductivity of *AFT Ductliner* on 32kg/m³ Baseboard at a mean temperature* of 25°C is 0.033 W/mK (at 20°C it is 0.032 W/mK). The thermal conductivity of *AFT Ductliner* on 48kg/m³ Baseboard at a mean temperature of 25°C is 0.032 W/mK (at 20°C it is 0.031 W/mK).

$$*Mean\ Temperature = \frac{T1 + T2}{2}$$

Where T1 = temperature of hot side of insulation (°C)

Where T2 = temperature of cool side of insulation (°C)

Tested to ASTM C177.



EARLY FIRE HAZARD RATING

When tested in accordance with AS1530 Part 3 *AFT Ductliner* exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved Index	0
Smoke Developed Index	2

MOISTURE ABSORPTION

Tested in an atmosphere of 65% relative humidity at 20°C in accordance with British Standard 2972.

The moisture content of *Insulation Solutions* products is less than 0.1% by volume.

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ALKALINITY

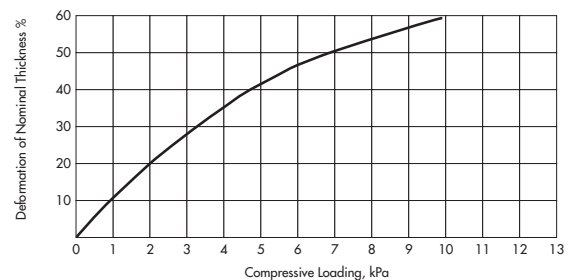
When tested in accordance with British Standard 3958 *Insulation Solutions* Glass Wool products are slightly alkaline. pH9 (neutral is pH7).

MAXIMUM SERVICE TEMPERATURE

The maximum service temperature for *AFT Ductliner* baseboard is 340°C. The temperature tolerance of the facing adhesive limits the surface temperature to 70°C. (The appropriate insulation thickness can be used to limit surface temperature to 70°C).

COMPRESSIVE STRENGTH

Both 32kg and 48kg density *AFT Ductliners* display outstanding resilience and recover to their nominal thickness after compression. Deformation under compressive loading is shown on the graph.



ACOUSTIC PERFORMANCE

AFT Ductliner has the following sound absorption coefficients when tested in accordance with AS1045 by the Reverberation Room Method.

Tests were carried out with no air space behind the samples, and results are based on test reports from RMIT Department of Applied Physics.

Nominal thickness (mm)	Nominal Density	Sound absorption coefficients (reverberation) at frequencies (Hz) of:						
		125	250	500	1000	2000	4000	NRC
25	32	0.10	0.35	0.90	1.05	0.55	0.25	0.70
50	32	0.25	0.70	1.15	1.00	0.75	0.50	0.90
25	48	0.15	0.55	1.10	0.95	0.60	0.30	0.80
50	48	0.40	0.80	0.80	0.85	0.80	0.60	0.80

BIO-SOLUBILITY

The fibre used in this product is FBS-1 Bio-Soluble Glass Wool™ Insulation. This means that it dissolves in bodily fluids and is quickly cleared from the lungs. It complies with the test of short term

biopersistence in Note Q of [NOHSC: 10005 (1999)]. *Glass Wool* is classified as safe to use.



SUSTAINABILITY

Sustainability...measures that satisfy the needs of people today while enhancing the quality of life for future generations.

products in improving energy efficiency and reducing the levels of greenhouse gas emissions.

The demands on non-renewable resources for the production of energy are not sustainable without compromising the environment. Insulation, correctly specified and installed, is one of the most critical

Insulation Solutions is committed to providing environmentally sustainable products and utilises up to 70% recycled waste glass in the production of *Glass Wool* Insulation.

FREECALL 1800 626 624

WEBSITE: www.eurekainsulation.com.au

DATA SHEET

ECO PINK

