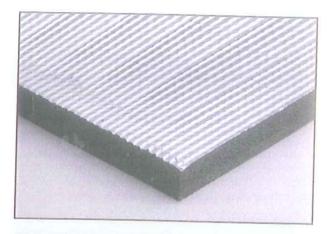
THERMOSHIELD™

TOTAL PROTECTION
FROM HEAT AND SOUND

The Quick and Easy Way.

GENERAL INFORMATION





BENEFITS OF THERMOSHIELD™

- Completely user friendly, does not emit dust or fibre particles, either in service or installation.
- · Is not irritating to the skin.
- Odourless
- Can be supplied in roll form, sheets or slitting to required width available on request.
- Available in a variety of thickness 5mm, 10mm, 15mm 20mm and 25mm. Other thicknesses available on request. Can be supplied with adhesive.
- Lightweight, easily transported and flexible for ease of application.
- Completely closed cell, therefore it does not hold water altering its insulation properties, or allow the build up of bacteria contamination.
- Complies under AS1530.3-1989 and British Standard BS476 part 6 & 7.
- Reduces drumming and provides vibration dampening.

Thermoshield™ is a flexible thermal and sound insulation material constructed by laminating a closed-cell, cross linked Polyethylene foam with a tough re-inforced aluminium foil facing.

Size Available : 5mm x 1000mm x 50m

10mm x 1000mm x 25m 15mm x 1000mm x 20m

20mm x 1000mm x 10m 25mm x 1000mm x 10m

Thermal Conductivity : 0.032 W/m K (@ 20°C, 50-70% R.H.)

(JIS A 1413)

Moisture Permeability : Less than 1.0g/m²/24hr (@ 38°C,

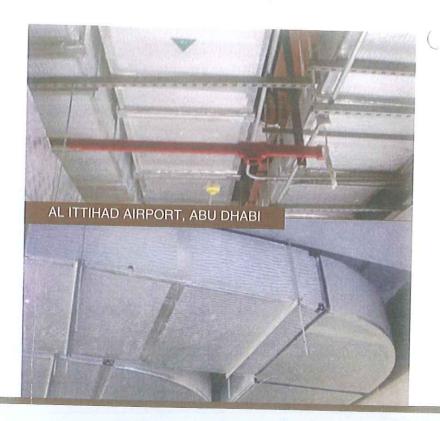
90% R.H.), (ASTM E96)

Water Absorption : Less than 0.5% (Vol)

(7 days)

Application Methods:

- Mechanical wrapping of Thermoshield[™] around duct and fastening with steel weld pins at 400mm centres to ensure a tight fit.
- 2. Thermoshield™ can be overlapped or butt joined using a sharp knife for ease of fabrication.
- Adhesive Thermoshield[™] can be supplied with pressure sensitive acrylic adhesive. Care must be taken to remove any contamination from the duct surface, eg. grease, oil, dust and loose scale etc. to ensure a proper vapour seal.
- 4. All edges and joints can be sealed using 72-76mm wide re-inforced acrylic adhesive foil tape.



SPECIFICATIONS

PROJECTS IN DUBAI

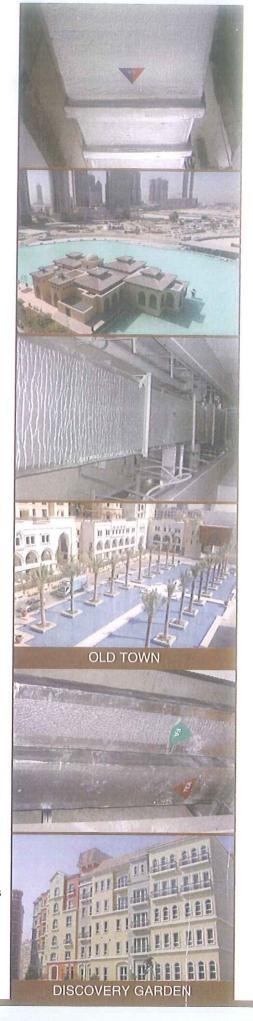
Material Closed	Closed Cell Polyethylene Foam		
Properties	ISO Standard	Unit	Value
Density	845	Kg/m³	25
Tensile Strength lengthwise crosswise	1926	Кра Кра	210 160
Tensile Elongation lengthwise crosswise	1926	.% %	130 135
Compression Strength deflection 10% deflection 25% deflection 50%	844	Кра Кра Кра	12 25 65
Compression Set 22h charge, 23°C deflection 25% 0.5h after discharge 24hr after discharge	1856 C	% %	25 17
Thermal Conductivity at 10°C at 20°C at 40°C	2581	W/mk W/mk W/mk	0.031 0.032 0.036
Working Temperature Range	internal	°C	-70/100
Water Absorption (7 days)	internal	vol%	<0.5
Shore Hardness 0/00	internal		13/30
Dimensional Change on Heating 22hrs @70°C lengthwise crosswise	internal	% %	-2.0 0.5
B) FOIL SPECIFICATION			
Thickness : 7um Al f	ım foil re-inforced v foil + 12um LDPE t un 1.0g/m²/24hrs (© E96)	ilm (total 19	um)

Early Fire Hazard Ignitability 0 (AS1530, Part III) Spread of flame 0 Head evolved index 0 Smoke evolved index 1 Water (Unaffected), Seal Water & brine Soap & detergents, Diluted acids Diluted detergents/alkalis, Alcohol, Ketones, Esters Chemical Resistance:

Resistance to Fungi

Aspergillus Niger, Penicillium Citrinum Rhizopus Nigricans, Cladosporium Resinae

Chatomium Globosum



THERMOSHIELDTM



Marketed by:

Alpha Star TRADING

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