



This is a quick Reference Guide to Tasman Insulation New Zealand's Industrial/Commercial Range. For more detailed information and fixing instructions, refer to specific Product Data Sheets – available from Tasman Insulation New Zealand or its local distributor.

For the Residential Range of Acoustic Products, refer to The Noise Controllers™ Data Sheet.

**INDUSTRIAL
PRODUCT
SELECTION
GUIDE**

ACOUSTIC
HIGH TEMPERATURE
PIPE
AIR CONDITIONING

ACOUSTIC PRODUCT



FACTORYLINER

Factoryliner is intended for use as a wall and ceiling lining in manufacturing, warehousing, servicing and some commercial areas. It is not intended for use in areas requiring a decorative or architectural finish.

Factoryliner is a medium density glass fibre board bonded with an inert thermosetting resin, and faced one side with a laminate made from aluminium foil.

Weight. 1.8 kg/m²

Thermal Resistance. 1.47m² °C/W

Early Fire Hazard. Indices:0,0,0,0

Max Service Temp. Baseboard 120°C
Foil Facing 60°C

NRC	
0.66	Fixed Direct
0.49	Fixed with 400mm Airgap Behind

Thickness	Size (mm)	Description
50	1200x1200	Board
50	1200x1800	Board
50	1200x2400	Board



SONOMATT

Sonomatt is a semi-rigid, medium density glass wool board having excellent acoustic absorption properties. Sonomatt is supplied either unfaced or faced with a microlith black glass fibre facing attached.

Sonomatt is commonly used in commercial and industrial environments where maximum absorption is required on wall surfaces. Ceilings are also treated with Sonomatt. Improved acoustic performance can be gained with a perforated sheetmetal facing.

Thermal Resistance.

25mm 0.76m²°C/W

50mm 1.52m²°C/W

Early Fire Hazard. Indices –
Plain:0,0,0,0 Faced:0,0,0,3

Max Service Temp. 120°C

NRC	Thickness
0.65	25mm
0.96	50mm

Thickness	Size (mm)	Weight
25	1200 x 900	1.2 kg/m ²
50	1200 x 900	2.4 kg/m ²



SONAFABRIC

Sonafabric is a tough, flexible noise barrier material constructed from high-temperature-fused PVC, loaded with high density fillers and reinforced with high tensile fabric to produce one of the most efficient soundproofing materials available. It may be used singularly, in layers or in combination with other sound absorptive materials. Typical applications include cross talk barriers, rollaway curtains, pipe and duct lagging, machinery covers and enclosures, sheetmetal damping and wall barriers in ceiling cavities.

Product	Weight	Thickness	Roll Dimen.
S2	2kg/m ²	1.0mm	10mx1.3m
S4	4kg/m ²	2.0mm	10mx1.3m

STC	S2	23
	S4	26

Working Temperature. 60°C max

Flammability of Materials.

(AS 1530 part 2: 1973)

Spread Factor: 2 Heat Factor: 1

Speed Factor: 0 Flammability Index: 3

Chemical Resistance. PVC has a natural resistance to water, oil and grease, alkalis, acids and most chemicals.

HIGH TEMPERATURE PRODUCT



LIGHTWEIGHT EQUIPMENT INSULATION (L.E.I.)

A light density flexible insulation for applications up to 350°C. Lightweight Equipment Insulation consists of glass wool bonded with a thermosetting resin to form lightweight, easily handled, slabs and rolls. Excellent for applications requiring a lightweight insulation as on panel systems, flexible wrap, chimney flues, or surfaces having irregularities.

Thermal Conductivity – K.
0.036 W/m°C @ 25°C

Maximum Service Temperature. 350°C

Early Fire Hazard. Indices:0,0,0,0

Flexibility. Can be wrapped around equipment, pipes, etc down to 100mm diameter.

Thickness	Size (mm)	Description
25	1200x8m	Roll
50	1200x900	Slab
75	1200x900	Slab



FLEXIBLE EQUIPMENT INSULATION (F.E.I.)

A resilient flexible insulation for applications up to 350°C. Flexible Equipment Insulation consists of glass wool bonded with a thermosetting resin to form dimensionally stable flexible boards. It presents a reasonably form support to sheathing materials. Especially suitable for insulating hot water and steam boilers curing ovens and vessels used in process industries where some degree of physical robustness is required.

Thermal Conductivity – K.
0.034W/m°C @ 25°C

Maximum Service Temperature. 350°C

Early Fire Hazard. Indices:0,0,0,0

Flexibility. Will generally conform to irregular surfaces. (See guide page 3)

Thickness	Size (mm)	Description
25	1200x900	Board
50	1200x900	Board
75	1200x900	Board
100	1200x900	Board



INTERMEDIATE SERVICE BOARD (I.S.B.)

Lightweight, highly efficient, semi-rigid insulation for service temperatures up to 450°C, glass wool Intermediate Service Board (I.S.B.) is a medium weight insulation consisting of glass wool bonded in a semi-rigid, board-like form with a special high temperature binder. Intermediate Service Board is designed for use on power and process boilers, gas ducting, industrial ovens, other higher temperature applications, and where the semi-rigid characteristics of this product are of advantage. It is designed for use in applications where an outside facing, or metal mesh with a finishing cement is required.

Thermal Conductivity – K.
0.033W/m°C @ 25°C

Maximum Service Temperature. 350°C

Early Fire Hazard. Indices:0,0,0,0

Flexibility. Semi-rigid. Can be formed around curved surfaces if restrained with metal bands and secured with welded pins and speed washers. (See guide page 3)

Thickness	Size (mm)	Description
25	1200x900	Board
50	1200x900	Board
75	1200x900	Board
100	1200x900	Board



RIGID EQUIPMENT INSULATION (R.E.I.)

A high strength board that will retain rigidity up to a temperature of 150°C. Rigid Equipment Insulation consists of glass wool bonded with a thermosetting resin. It is relatively lightweight and rigid, and with a board-like surface to sheathing materials. Rigid Equipment Insulation is designed for use on chillers, hot and cold equipment and ductwork, where greater abuse resistance and good appearance is required.

Thermal Conductivity – K.
0.033 W/m°C @25°C

Maximum Service Temperature. 150°C

Early Fire Hazard. Indices:0,0,0,1

Flexibility. Board-like. Can only be formed to a curvature if one face of the board is scored.

Thickness	Size (mm)	Description
25	1200x900	Board



WHITEWOOL

An efficient, high temperature insulating wool for service up to 540°C. White Wool is designed for the thermal insulation of heavy industrial equipment operating at temperatures from -85°C to +540°C and is especially suitable for equipment with surface irregularities and projections such as seams, flanges, steam valves, turbine feed pumps, refrigerated casings, and other machinery and equipment.

Thermal Conductivity – K.
0.032 W/m° @25°C

Maximum Service Temperature. 540°C

Early Fire Hazard. Indices:0,0,0,0

Flexibility. Easily handled and will pack into complex shaped voids. Sufficient flexibility to be applied to acute angles and extremely small diameters.

Size. 25kg bag (Approximately 50mm thick composed of unbonded glass wool).

PIPE PRODUCT



PREFORMED PIPE SECTIONS

Manufactured from non-combustible glass fibres bonded with a thermosetting resin into cylindrical insulation sections. A slit along one wall allows the pipe section to be opened and installed over the pipe. They are designed for use on chilled water, hot water, steam and other services lines in commercial and institutional projects, as well as industrial process and steam lines.

Thermal Conductivity – K.
0.03 W/m°C @ 25°C

Length	Wall Thickness (mm)			
	19	25	38	50
900mm	(Greater wall thickness may be manufactured on request.)			



FLEX-WRAP

Flex-Wrap Insulation is a laminate of rigid glass wool board and a Foil/Kraft substrate which becomes the outer covering of the insulation. The rigid board is machine cut into strips which are then adhered to the substrate. The right angle orientation of the product relative to the pipe or vessel's outer surface provides good compressive strength.

Flex-Wrap Insulation is designed for use on pipes of 300mm diameter and greater, vessels, bulk liquid storage tanks, flues, etc. It is particularly suitable for retrofit of existing equipment in pipes, tunnels or bridges.

Thermal Conductivity – K.
0.043 W/m°C @ 25°C

Max Service Temperature. 350°C

Early Fire Hazard: Indices: 0,0,0,0

Thickness	Size (mm)	Description
338	1200x2.4m	Board
38	1200x4.8m	Board
50	1200x2.4m	Board
50	1200x4.8m	Board
65	1200x2.4m	Board
65	1200x4.8m	Board
75	1200x2.4m	Board
75	1200x4.8m	Board
100	1200x2.4m	Board
100	1200x4.8m	Board



CLIMAFLEX P.E. POLYETHYLENE PIPE INSULATION

Climaflex P.E. polyethylene is used to insulate domestic hot and cold water systems to reduce heat and energy loss, condensation and to reduce the chance of pipes freezing in harsh conditions. Climaflex P.E. is totally CFC and HCFC free.

Service Temperature. -40°C to 95°C

Thermal Conductivity – K.
0.037 W/m°C @ 25°C

Density. 30 kg/m³ (nominal)

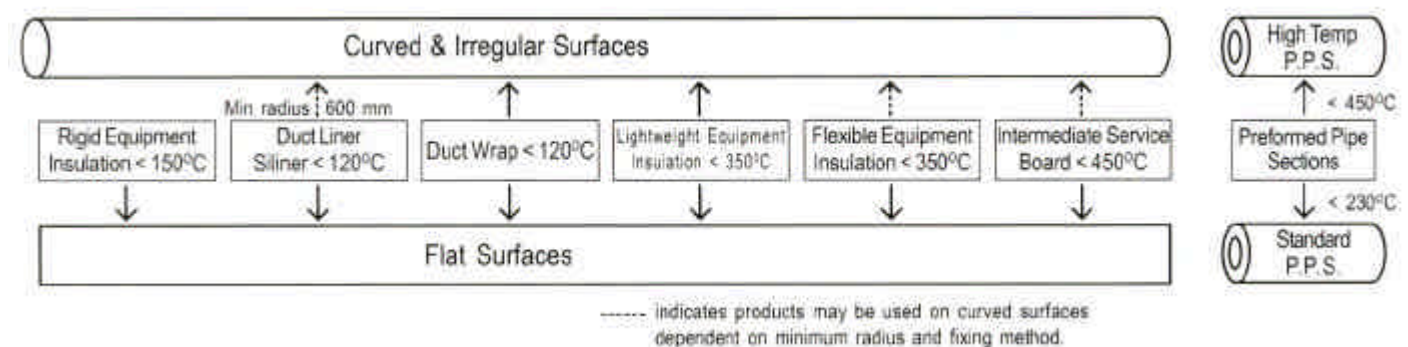
Length	Wall Thickness	Nom. Bore
2M	13mm	15mm
	(Other sizes Available on Request with Lead time)	18mm
		22mm
		28mm
		35mm

Selection Guide

The type of product selected is usually governed by the geometric shape of the equipment and the operating temperature. Other factors that may be relevant are rigidity or compressive strength and cost.

Recommended Minimum Radius of Curvature (mm)

Insulation Thickness (mm)	F.E.I.	I.S.B.	Flex-Wrap
25	300	300	-
50	600	600	175
75	900	1000	225
100	1400	1600	300



AIR CONDITIONING PRODUCT



HUSH DUCT

Hush Duct is manufactured from resin bonded glass wool boards faced with Flamestop 524, a fire retardant glass reinforced foil laminate. Using simple fabrication methods the boards are formed into rectangular and square ducts with all seams properly sealed using special tape. Hush Duct combines air duct, thermal insulation, acoustic liner and vapour barrier in one product. It is designed for use in commercial and industrial heating, air-conditioning and ventilation systems, operating at velocities up to 10m/s and 500 Pa static pressure. Ducts can be fabricated to meet size and pressure requirements comparable to various gauges of sheetmetal ducting.

Thermal Conductivity – K.

K = 0.035W/m°C @ 25°C mean

Max Service Temp. Baseboard: 120°C

Foil Facing: 60°C

Early Fire Hazard. Indices

Foil Side:0,0,0,0 Glass Wool:0,0,0,3

Maximum Velocity. 10.0 m/s. Hush Duct has been tested to 22m/s without any trace of fibre erosion.

Thickness	Size (mm)	Description
25	1200x1800	Board
25	1200x2400	Board
25	1200x3000	Board



DUCTLINER/SILINER-MAT FACED

Ductliner is manufactured from glass wool bonded with a thermosetting resin to form an amber coloured, lightweight, semi-rigid unfaced board. Ductliner Perforated Foil Faced is face with a perforated (10%) fire retardant foil. Siliner-Mat Faced is used for internal insulation to sheetmetal ductwork, air-conditioning cabinets and plenums to provide excellent acoustic attenuation and thermal insulation eliminating the need for external insulation.

Because air velocity within the duct may cause surface erosion to Ductliner it must NOT be used unless protection is provided on the air stream surface.

Thermal Conductivity – K.

0.033 W/m °C @25°C mean

Max service Temp.

Baseboard/Siliner Mat Faced: 120°C

Foil Facing: 60°C

Early Fire Hazard. Siliner-Mat Faced.

Indices: 0,0,0,3 Unfaced 0,0,0,0

Flexibility. Semi-rigid. Recommended for flat or slightly curved surfaces. It can be formed to smaller radii by scoring the back surface of the board. All gaps must be filled to retain required thermal properties.

Thickness	Size (mm)	Description
25	1200x900	Board
25	1200x2400	Board
50	1200x900	Board
50	1200x2400	Board



DUCTWRAP (PLAIN/FOIL FACED)

Ductwrap is manufactured from glass wool bonded with thermo-setting resin. It is lightweight, flexible and dimensionally stable. Ductwrap is used to externally insulate hot or cold air sheetmetal ductwork in residential or commercial heating and air-conditioning. In the case of cold air sheetmetal ductwork condensation will occur causing corrosion and stained ceilings if not insulated. In these circumstances a vapour barrier will be required as well as insulation and can be supplied adhered to Ductwrap.

Thermal Conductivity – K.

0.036 W/m°C @25°C mean

Max Service Temp. Blanket: 120°C

Foil Facing: 60°C

Early Fire Hazard. Indices

Plain:0,0,0,0 Flamestop:0,0,0,0

Ductwrap Plain

Thickness	Size(mm)	Description
25	1200x10m	Blanket
50	1200x10m	Blanket

Ductwrap Flamestop

Thickness	Size(mm)	Description
25	1200x10m	Blanket
50	1200x10m	Blanket

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