

**EUROPAIR** 

CONTROL THE AIR YOU BREATHE

## **INSULATION**

technical

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### Insulation Data Sheet:

Description	Thickness (mm)	Volumetric Mass (kg/m <sup>3</sup> )	Thermal Conductivity (W/m°C)	Temperature Limits	Fire Rating
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### External Duct Wrap (FRK):

Duct Wrap 25	25	18	0.040(@35°C)	120°C	Class 1
Duct Wrap 40	40	16	0.040(@35°C)	120°C	Class 1
Duct Wrap 50	50	16	0.040(@35°C)	120°C	Class 1

### Internal Acoustic Linings:

Sonic Liner 15	15	32	0.035(@20°C)	120°C	Class 1
Sonic Liner 25	25	24	0.0378(@20°C)	120°C	Class 1

### General Data Sheet:

Description	Thickness (mm)	Volumetric Mass (kg/m <sup>3</sup> )	Thermal Conductivity (W/m°C)	Temperature Limits	Fire Rating
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### Batt and Rolls:

MP 16 (Eroglite 16)	25 - 75	16	0.040(@24°C)	250°C	Class 1
IM 24 (Eroglite 24)	25 - 75	24	0.0378(@24°C)	250°C	Class 1
IM 475 (Eroglite 475)	25 - 75	47.5	0.033(@24°C)	450°C	Class 1
IM 64 (Eroglite 64)	25 - 75	64	0.0323(@24°C)	450°C	Class 1
IM 96 (Eroglite 96)	25 - 75	96	0.035 (@24°C)	250°C	Class 1

Example of how to calculate the noise attenuation of internal ducting:

What will the noise attenuation of a 1m duct with a section of OAO x OAO m in a frequency band of 260Hz, insulated with sonic liner be?

$$\frac{\Delta \text{dB}}{L} = 1,05 \times \alpha^{1,4 \times P/S}$$

Assembled

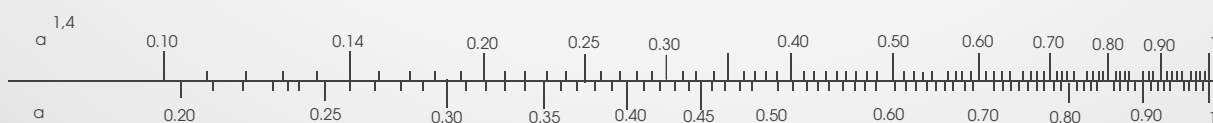
$$\alpha = 0,51$$

$$\alpha^{1,4} = 0,39$$

$$\frac{P}{S} = \frac{(0,40 + 0,40) \times 2}{0,40 \times 0,40} = \frac{1,60 \text{ m}}{0,16 \text{ m}^2} = 10$$

$$\frac{\Delta \text{dB}}{L} = 1,05 \times 0,39 \times 10$$

$$= 4,10 \text{ dB per metre.}$$



## DUCT WRAP



### DUCT WRAP THERMAL INSULATION BLANKET

DUCT WRAP is specifically designed as a thermal insulation blanket manufactured from highly resistant, organic glass fibre bonded with a resin. It is faced with an aluminium foil/skrim – reinforced kraft laminate providing a resistant surface finish and an excellent vapour barrier. A 120 mm overlapping flange is provided on one side for a neater appearance and adequate seal. DUCT WRAP is available in standard thicknesses of 25 mm, 40 mm and 50 mm and rolls of 10 m lengths.

### APPLICATIONS

Duct Wrap is designed for application to rectangular and round heating, ventilation and air conditioning duct systems where the operating temperature is less than 120°C in commercial, industrial and residential buildings.

### BENEFITS

Energy conservation, lower operating costs, ease of installation, greater comfort, noise reduction, condensation control, fire safe and longevity

CODE	LABEL	SIZE
4000009	25mm FRK	10 x 1,2m
4000015	40mm FRK	10 x 1,2m
4000020	50mm FRK	5 x 1,2m

## SONIC LINER



### APPROVED ACOUSTIC BLANKET

SONIC LINER is an approved flexible fibreglass blanket faced with an acoustically permeable black woven glass cloth on the air stream surface. SONIC LINER is specifically designed as an acoustical and thermal liner for sheet metal ducting and is fully approved by consulting engineers. SONIC LINER is inert, ensuring long life; it is fire safe and erosion resistant. SONIC LINER is available in 15mm, 25mm and 50mm thickness to meet your design requirements.

### APPLICATIONS

Sonic Liner is specifically designed as an interior acoustical installation liner for sheet metal ducts in heating, ventilation and air conditioning systems operating at temperatures of up to 120°C and air velocities up to 20m/s.

### BENEFITS

Designed and tested, sound absorption, convenience, fire safe, longer erosion resistant and environmental control.

CODE	LABEL	SIZE
4000025	1532/Sonic Liner	20 x 1,2m
4000030	2524/Sonic Liner	10 x 1,2m
4000036	5016/Sonic Liner	5 x 1,2m

There are a variety of products available in both fibre glass and mineral wool (rockwool) suited to any application. The products can be supplied with a combination of facing materials to meet different specifications.

## FIBRE GLASS

Specifically designed as thermal or acoustic blankets and batts, manufactured from highly resistant, inorganic glass fibre or bonded with thermo-setting resin. They are made in board-form (type 1M) and roll-form (Type IW). The products are available in different thicknesses and densities that permit selection of a product to meet the majority of applications.

## I.P. INSULWOOL (ROCKWOOL)

Insulwool is composed of a unique specialised mineral fibre; spun by a special process from molten rock and slag having high silica and alumina values. They are bonded into various thicknesses and densities with specifically formulated moisture resistant resins. The method of manufacture results in a highly versatile, inexpensive, all purpose thermal and acoustic insulating product.

CODE	SIZE	GEN. INSUL.
1024025	1200 x 600 x 25	IM24 Eneremlite 24)
1024040	1200 x 600 x 40	IM24 Eneremlite 24)
1024050	1200 x 600 x 50	IM24 Eneremlite 24)
1024075	1200 x 600 x 75	IM24 Eneremlite 24)
1024100	1200 x 600 x 100	IM24 Eneremlite 24)
2124040	8000 x 1200 x 40	IM24 Eneremlite 24)
2124050	5000 x 1200 x 50	IM24 Eneremlite 24)
21240075	3000 x 1200 x 75	IM24 Eneremlite 24)
1475025	1200 x 600 x 25	IM475 (Eneremlite 475)
1475040	1200 x 600 x 40	IM475 (Eneremlite 475)
1475050	1200 x 600 x 50	IM475 (Eneremlite 475)
2475025	10000 x 1200 x 25	IM475 (Eneremlite 475)
2475040	8000 x 1200 x 40	IM475 (Eneremlite 475)
2475050	5000 x 1200 x 50	IM475 (Eneremlite 475)
1640025	1200 x 600 x 25	IM64 (Eneremlite 64)
1640040	1200 x 600 x 40	IM64 (Eneremlite 64)
1640050	1200 x 600 x 50	IM64 (Eneremlite 64)
1960025	1200 x 600 x 25	IM96 (Eneremlite 96)
8160040	10000 x 1200 x 40	IM16 (Eneremlite 16)
8160050	5000 x 1200 x 50	IM16 (Eneremlite 16)
8180025	10000 x 1200 x 25	IM 18 (Enerelite 18)
296040	5000 x 1000 x 40	Insulfelt 60
296050	5000 x 1000 x 50	Insulfelt 60
291040	1000 x 500 x 40	Insulboard 60
291050	1000 x 500 x 50	Insulboard 60
291075	1000 x 500 x 75	Insulboard 60
291100	1000 x 500 x 100	Insulboard 60

