



Stonewool Wired Matt

Stonewool for high
temperature applications





Stonewool Wired Matt
high performance
insulation for technical
and industrial
applications.

TECHNICAL DATA SHEET



ENERGY SAVING

DESCRIPTION

Stonewool Wired Matt is stitched with galvanised or stainless steel wire on hexagonal wire mesh. With Maximum Service Temperatures of 640 °C & 660 °C according to EN 14 706 and 750 °C according to ASTM C411/ASTM C447, Stonewool Wired Matt is designed for high temperature industrial and technical applications.



NON-COMBUSTIBLE

APPLICATIONS

Thermal insulation of large ducts, vessels, boilers, and high temperature equipment. Suitable for larger curved surfaces or irregular shaped surfaces.



EASY TO INSTALL

FEATURES & BENEFITS

- Developed for high temperature applications
- Excellent lambda values (thermal conductivity) which reduces heat loss
- Efficient installation
- Chemically inert and when applied under controlled conditions will not promote or cause corrosion
- Low shot content.



SOUND INSULATION & ABSORPTION

FIRE PROPERTIES

- Non-combustible – tested to EN 13 501-1 and ASTM E136.

ACOUSTIC PERFORMANCE

Stonewool Wired Matt has effective acoustic performance.

CORROSIVITY

Does not contribute to corrosion of stainless steel according to EN 13 468, ASTM C871 and ASTM C795.

DURABILITY

- Dimensionally stable but care must be exercised to limit moisture ingress as this not only compromises the structural integrity but interferes with the thermal resistance properties of the products as well.

HANDLING & STORAGE

All Stonewool Wired Matt products should be stored and handled with care to maintain ex-works quality. The packaging will provide some protection but care should be taken to keep the material dry at all times. Extra protection should always be provided when storing the product outdoors.

DIMENSIONS

Type	Product Name	Thickness (mm) & Surface weight (kg/m ²)		
		50 mm	75 mm	100 mm
Wired Mattress	Wired Matt (80 density)	4 kg/m ²	6 kg/m ²	8 kg/m ²
	Wired Matt (100 density)	5 kg/m ²	7.5 kg/m ²	-
Dimensions	Length (mm)	4 000 mm	4 000 mm	3 000 mm
	Width (mm)	1 200 mm	1 200 mm	1 200 mm

THERMAL CONDUCTIVITY (according to EN 12 667)

	T[°C]	50	100	200	300	400	500	600
Wired Matt 80	[W/(m.K)]	0.037	0.043	0.058	0.075	0.098	0.128	0.160
Wired Matt 100	[W/(m.K)]	0.036	0.042	0.057	0.075	0.097	0.125	0.158

	MST		Load applied during test
	EN	ASTM	
Wired Matt 80	640 °C	750 °C	500 pa
Wired Matt 100	660 °C	750 °C	500 Pa

MAXIMUM SERVICE TEMPERATURE (MST) under 500 Pa (according to EN 14 706)

The Maximum Service Temperature according to EN 14 706 is the temperature for which the deformation of the insulation material is less than 5% under a load of 500 Pa and when exposed to such temperature for a continuous period of 72 hours. This test method is a more stringent evaluation of the highest permanent, operating temperature the product can sustain.



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