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FIBRAN*geo* **R-080-KO**

Stonewool Insulation Roll with stiching wire

Technical Data Sheet / February 2025

Description

FIBRAN*geo* R-080-KO stonewool technical insulation roll is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibres, in accordance with European Standard EN 14303 (MW – Factory made Mineral Wool Insulation products).

Applications

Rolls designed for thermal insulation, fire resistance and sound insulation applications in building equipment and industrial facilities.

- Ductwork
- Valves, special curved items, flanges
- Exhaustion pipes, Hot/Cold air pipes, HVAC systems, steel chimneys
- Tank walls/roofs (cylindrical/flat)
- Boilers, Containers, Ovens, Electrostatic smoke filters
- Refinery columns
- Heat exchanger / silencer equipement
- Max. Service Temperature 600 °C

Advantages

- Excellent themal insulation
- Non-combustible material with excellent fire resistance
- Excellent sound absorption and sound reduction
- Open hive structure material with very low water vapour diffusion resistance that enchances the building element's breathability
- Excellent dimensional stability and durability
- Water repellent and non-hygroscopic
- Easy to handle, cut and install
- Natural, inorganic, odourless, chemically inert
- Recyclable, friendly to the enviroment and to the end user

Packaging

Thickness [mm]	Width [mm]	Length [mm]	Quantity/Roll [m²/ Roll]	Weight/Roll [kg/Roll]
30	1000	7200	7,20	17,28
40	1000	7200	7,20	23,04
50	1000	4800	4,80	19,20
60	1000	4800	4,80	23,04
70	1000	4800	4,80	26,88
80	1000	4000	4,00	25,60
90	1000	2400	2,40	17,28
100	1000	2400	2,40	19,20
120	1000	2400	2,40	23,04

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Technical characteristics

Designation Code:

MW (Mineral Wool) - **EN 14303 - T2 - ST(+)600 - WS1 - AW1 - CL10**

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	λ_D	W/(mK)	0,034	EN 12667 EN 13787
Maximum Service Temperature	ST(+)	°C	600	EN 14706
Nominal thickness	d_N	mm	30 - 120	EN 823
Fire classification	-	Class	A1 (Non-combustible)	EN 13501-1
Melting temperature	-	°C	>1000	DIN 4102-17
Specific heat capacity	c	kJ/kg*K	1,03	ISO 10456
Thickness tolerance	T	Class	T2 (-5%, +15%)	EN 14303
Short term water absorption for 24 hours	WS	kg/m^2	<1	EN 1609
Content in water-dissolved chlorine	CL	mg/kg	<10 AS-quality for use over stainless steel	EN 13468
Weighted sound absorption coefficient on boards with thickness 50mm, α_w	AW	-	1 (Class A)	EN ISO 11654 EN ISO 354
Density, ρ	-	kg/m^3	80	EN 1602

Declared thermal conductivity λ_D

Mean Temperature	θ_M	°C	50	100	150	200	300	400	500	600	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,040	0,046	0,054	0,064	0,091	0,124	0,166	0,215	EN 12667 EN 13787

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