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FIBRAN*geo* **R-050-AL**

Stonewool insulation roll with aluminum foil reinforced with fibreglass net

Technical Data Sheet / February 2025

Description

FIBRAN*geo* R-050-AL stonewool technical insulation roll with aluminum foil reinforced with fibreglass net, 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
- HVAC Systems
- Boilers
- Solar-Thermal collectors
- Max. Service Temperature 300 °C
- Max. Service Temperature of AL surface: 90 °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	9000	9,00	13,50
40	1000	8000	8,00	16,00
50	1000	6000	6,00	15,00
60	1000	6000	6,00	18,00
70	1000	5000	5,00	17,50
80	1000	5000	5,00	20,00

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Technical characteristics

Designation Code:

MW (Mineral Wool) - **EN 14303 - T2 - ST(+)300 - WS1 - MV2 - CL10**

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	λ_D	W/(mK)	0,035	EN 12667 EN 13787
Maximum Service Temperature	ST(+)	°C	300 Surface AL up to 90	EN 14706
Nominal thickness	d_N	mm	30 - 80	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
Water vapour diffusion equivalent air layer thickness, s_d	MV2	m	>200	EN 12086
Density, ρ	-	kg/m^3	50	EN 1602

Declared thermal conductivity λ_D

Mean Temperature	θ_M	°C	50	100	150	200	300	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,041	0,051	0,064	0,079	0,118	EN 12667 EN 13787

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