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FIBRAN*geo* **R-560**

Stonewool Insulation Roll

Technical Data Sheet / June 2022

0751

Description

FIBRAN*geo* R-560 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).

FIBRAN*geo* R-560 rolls can be produced with the following facings on one surface:

- **AL** (Aluminum foil reinforced with fibreglass net)
- **AX** (Aluminum kraft paper foil reinforced with fibreglass net)

Applications

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

- Ductwork
- Attic ceiling lining
- HVAC Systems
- Tank roofs
- Boilers
- Solar-Thermal collectors
- Max. Service Temperature 650 °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	6000	6,00	11,70
40	1000	5000	5,00	13,00
50	1000	5000	5,00	16,25
60	1000	3000	3,00	11,70

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Technical characteristics

Designation Code:

MW (Mineral Wool) - **EN 14303 - T2 - ST(+/250)650 - WS1 - AW1 - CL10 - F10 - PH10,5**

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(+/250)	°C	650 Surface AL up to 90	EN 14706
Nominal thickness	d_N	mm	30 - 60	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, fluorine ions and PH value	CL, F, PH	mg/kg	<10 AS-quality for use over stainless steel. PH-value neutral to slightly alcaline	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	65	EN 1602

Declared thermal conductivity λ_D

Mean Temperature	θ_M	°C	50	100	150	200	250	300	350	400	500	600	650	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,039	0,046	0,054	0,063	0,075	0,087	0,101	0,116	0,151	0,193	0,221	EN 12667 EN 13787

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