

# FIBRANgeo R-001-KO

## Stonewool Insulation Roll with stitching wire

Technical Data Sheet / June 2022



0751



## Description

**FIBRANgeo R-001-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.

- High temperature ductwork
- Exhaustion pipes, Hot/Cold air pipes, HVAC systems, steel chimneys
- Tank walls/roofs (cylindrical/flat)
- Boilers, Containers, Ovens, Electrostatic smoke filters
- Heat exchanger / silencer equipment
- Max. Service Temperature 650 °C

## Packaging

Thickness [mm]	Width [mm]	Length [mm]	Quantity/Roll [m <sup>2</sup> /Roll]	Weight/Roll [kg/Roll]
30	1000	7200	7,20	21,60
40	1000	6000	6,00	24,00
50	1000	4800	4,80	24,00
60	1000	4800	4,80	28,80
70	1000	4000	4,00	28,00
80	1000	2400	2,40	19,20
90	1000	2400	2,40	21,60
100	1000	2400	2,40	24,00
120	1000	2400	2,40	28,80



## Advantages

- Excellent thermal 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 enhances 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 environment and to the end user

# FIBRAN<sup>geo</sup> R-001-KO

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### Technical characteristics

Designation Code:

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

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	$\lambda_D$	W/(mK)	0,033	EN 12667 EN 13787
Maximum Service Temperature	ST(+)	°C	650	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 <sup>2</sup>	<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 alkaline	EN 13468
Weighted sound absorption coefficient on boards with thickness 50mm, $\alpha_w$	AW	-	1 (Class A)	EN ISO 11654 EN ISO 354
Density, $\rho$	-	kg/m <sup>3</sup>	100	EN 1602

### Declared thermal conductivity $\lambda_D$

Mean Temperature	$\theta_M$	°C	50	100	150	200	250	300	350	400	500	600	650	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,040	0,045	0,051	0,058	0,066	0,076	0,087	0,098	0,125	0,156	0,174	EN 12667 EN 13787



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