

# FIBRANgeo R-040-AL

## Stonewool insulation roll with aluminum foil reinforced with fibreglass net

Technical Data Sheet / February 2025



## Description

**FIBRANgeo R-040-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

## Packaging

Thickness [mm]	Width [mm]	Length [mm]	Quantity / Roll [m <sup>2</sup> /Roll]	Weight / Roll [kg/Roll]
30	1000	10000	10,00	12,00
40	1000	8000	8,00	12,80
50	1000	6000	6,00	12,00
60	1000	6000	6,00	14,40
70	1000	5000	5,00	14,00
80	1000	5000	5,00	16,00



## 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

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### Technical characteristics

Designation Code:

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

Technical Characteristics	Symbol EN 14303	Unit	Value	EN Standard
Declared thermal conductivity at 10°C	$\lambda_D$	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 <sup>2</sup>	<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, $\rho$	-	kg/m <sup>3</sup>	40	EN 1602

### Declared thermal conductivity $\lambda_D$

Mean Temperature	$\theta_M$	°C	50	100	150	200	300	EN 14303
Declared Thermal Conductivity	$\lambda_{N,P}$	W/mK	0,043	0,054	0,068	0,085	0,129	EN 12667 EN 13787



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