

FIBRAN_{geo} R-021-KO

Stonewool Insulation Roll with stitching wire

Technical Data Sheet / June 2022



0751



Description

FIBRAN_{geo} R-021-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 ² /Roll] | Weight/Roll [kg/Roll] |
|----------------|------------|-------------|--------------------------------------|-----------------------|
| 30 | 1000 | 7200 | 7,20 | 25,92 |
| 40 | 1000 | 4800 | 4,80 | 23,04 |
| 50 | 1000 | 4800 | 4,80 | 28,80 |
| 60 | 1000 | 2400 | 2,40 | 17,28 |
| 70 | 1000 | 2400 | 2,40 | 20,16 |
| 80 | 1000 | 2400 | 2,40 | 23,04 |
| 90 | 1000 | 2400 | 2,40 | 25,92 |
| 100 | 1000 | 2400 | 2,40 | 28,80 |
| 120 | 1000 | 2000 | 2,00 | 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

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Technical characteristics

Designation Code:

MW (Mineral Wool) - EN 14303 - T2 - ST(+)⁶⁵⁰ - WS1 - AW0,95 - CL10 - F10 - PH10,5

| Technical Characteristics | Symbol EN 14303 | Unit | Value | EN Standard |
|---|--------------------|-------------------|--|----------------------------|
| Declared thermal conductivity at 10°C | λ_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 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 alkaline | EN 13468 |
| Weighted sound absorption coefficient on boards with thickness 50mm, α_w | AW | - | 0,95 (Class A) | EN ISO 11654 EN ISO 354 |
| Density, ρ | - | kg/m ³ | 120 | 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 | 0,040 | 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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