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# Rock **LIGHT**

## Stone wool insulation board

Technical Data Sheet

August 2023

## Description

Rock **LIGHT** (600x1200mm) stone wool board is a natural inorganic fibrous product that is industrially produced from molten rock spun into fibers, in accordance with European Standard EN 13162 (Thermal insulation products for buildings - Factory made mineral wool (MW) products).

## Applications

Boards designed for thermal insulation, fire resistance and sound insulation applications:

Insulation of cavity of **vertical elements**, such as:

- Core insulation for walls (dry-construction with any type of boards, timber construction, metal or gypsum panels etc.)

Insulation of cavity of **horizontal elements**, such as:

- Dry-construction ceiling, non-perforated suspended ceiling
- Attic ceiling lining
- Between floor timber joists
- Pilotis external insulation with dry construction cladding

## 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 vapor 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, odorless, chemically inert (practically neutral PH)
- Recyclable, friendly to the environment and to the end user

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## Designation code

MW-EN 13162-T4-WS-WL(P)-MU1-AW1-AFr10

| Technical Characteristics | Symbol EN 13162 | Unit | Value |
|---|---|---|---|
| Declared thermal conductivity at 10°C | $\lambda_D$ | W/mK | 0,035 |
| Nominal thickness | $d_N$ | mm | 100 - 150 |
| Fire classification | - | Class | A1 |
| Melting temperature | - | °C | > 1000 |
| Specific heat capacity | C | kJ/kgK | 1,03 |
| Thickness tolerance | T | Class | T4 |
| Short term water absorption for 24 hours | WS | $kg/m^2$ | <1 |
| Long term water absorption for 28 days | WL(P) | $kg/m^2$ | < 3 |
| Water vapor diffusion resistance factor, μ | MU | - | 1 |
| Air flow resistivity | AFr | kPa $s/m^2$ | > 10 |
| Weighted sound absorption coefficient on boards with thickness 50mm, αw | AW<br>NRC | - | 1,00 Class A<br>0,95 |

### Table A

| | | | |
|---|---|---|---|
| Thickness | $d_N$ [mm] | 100 | 150 |
| Thermal resistance | Rd $[m^2K/W]$ | 2,85 | 4,25 |

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## Application

Rock7 products must be protected from getting wet before and on their application. If part of the product gets wet, it must be dried before installation. Stone wool dries quickly and its insulating properties remain unchanged after drying. Packaging should be removed carefully just before the installation.

Working areas should be kept clean. Unnecessary or extensive contact of the skin and eyes with products offcuts, fibers and dust should be avoided, and protective wear should be used (gloves, goggles, hats).

Sufficient ventilation of the working areas should be ensured, whilst power cutting tools should always be equipped or supplemented with a mechanical system of dust intake.

Stone wool products are not dangerous materials for disposal. They are covered by code 17.06.04 of the waste list, of Decision 2000/532/EC and are disposed of in accordance with applicable environmental regulations.

## Storage

Rock LIGHT products should be stored indoors. If stored outdoors, they must be protected from impregnation. Handling, loading and unloading of the products should be carried out with care to avoid damage to both the packaging and the board's edges.

## Packaging

| Thickness [mm] | Width [mm] | Length [mm] | Boards per package [pcs.] | Quantity per package [$m^2$] | Packages per pallet [pcs.] | Quantity per pallet [$m^2$] |
|---|---|---|---|---|---|---|
| 100 | 600 | 1200 | 4 | 2,88 | 12 | 34,56 |
| 150 | 600 | 1200 | 2 | 1,44 | 16 | 23,04 |

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