

| Property | Value | According to |
|-----------------------------|-------|----------------------------|
| Reaction to Fire, Euroclass | A1 | EN 13162:2012 (EN 13501-1) |

Continuous Glowing Combustion

| Property | Value | According to |
|-------------------------------|-------|---------------|
| Continuous Glowing Combustion | NPD | EN 13162:2012 |

Other Fire Properties

| Property | Value | According to |
|----------------|-----------------|--------------|
| Combustibility | Non-combustible | EN ISO 1182 |

Flat roofs insulated with stone wool means a better insurance against big catastrophes at fire.

Thermal Properties

Thermal Resistance

| Property | Value | According to |
|----------------------------------|--------------------------------|------------------------|
| Thermal Resistance | See attachment | EN 13162:2012 |
| Thermal Conductivity λ_D | 0,039 W/mK | EN 13162:2012 |
| Thickness Tolerance, T | T5 | EN 13162:2012 (EN 823) |

Direct Airborne Sound Insulation Index

| Property | Value | According to |
|---------------------------|-------|--------------------------|
| Air Flow Resistivity AF_R | NPD | EN 13162:2012 (EN 29053) |

One layer insulation is excellent for re-insulation of old roofs.

Moisture Properties

Water Permeability

| Property | Value | According to |
|---|-------------------------|--------------------------|
| Water Absorption, Short Term WS, W_p | $\leq 1 \text{ kg/m}^2$ | EN 13162:2012 (EN 1609) |
| Water Absorption, Long Term WL(P), W_{lp} | $\leq 3 \text{ kg/m}^2$ | EN 13162:2012 (EN 12087) |

Water Vapour Permeability

| Property | Value | According to |
|-------------------------------------|-------|--------------------------|
| Water Vapour Transmission MU, μ | 1 | EN 13162:2012 (EN 12086) |

Flat roofs insulated by stone wool can keep moisture and dry out when the circumstances in climate is available.

Sound Properties

Acoustic Absorption Index

| Property | Value | According to |
|------------------|-------|----------------------------|
| Sound Absorption | NPD | EN 13162:2012 (EN ISO 354) |

Mechanical Properties

Compressive Strength

| Property | Value | According to |
|--|--------|--------------------------|
| Compressive stress at 10 % deformation CS(10), σ_{10} | 60 kPa | EN 13162:2012 (EN 826) |
| Point Load (Declared), PL(5) | 550 N | EN 13162:2012 (EN 12430) |

Emissions

Release of Dangerous Substances to the Indoor Environment

| Property | Value | According to |
|---------------------------------|-------|---------------|
| Release of Dangerous Substances | NPD | EN 13162:2012 |

Durability

Durability of Reaction to Fire Against Heat, Weathering, Ageing/Degradation, The fire performance of mineral wool does not deteriorate with time. The Euroclass classification of product is related to the organic content, which cannot increase with time.

Durability of Thermal Resistance Against Heat, Weathering, Ageing/Degradation, Thermal conductivity of mineral wool products does not change with time, experience has shown the fibre structure to be stable and the porosity contains no other gases than atmospheric air.

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