

Fire Properties

| Reaction to Fire | | |
|-----------------------------|-------|--------------------------------------|
| Property | Value | According to |
| Reaction to Fire, Euroclass | A1 | EN 13162:2012 + A1:2015 (EN 13501-1) |

| Continuous Glowing Combustion | | |
|-------------------------------|-------|-------------------------|
| Property | Value | According to |
| Continuous Glowing Combustion | NPD | EN 13162:2012 + A1:2015 |

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

Thermal Properties

| Thermal Resistance | | |
|----------------------------------|--------------------------------|----------------------------------|
| Property | Value | According to |
| Thermal Resistance | See attachment | EN 13162:2012 + A1:2015 |
| Thermal Conductivity λ_D | 0,036 W/mK | EN 13162:2012 + A1:2015 |
| Thickness Tolerance, T | T5 | EN 13162:2012 + A1:2015 (EN 823) |

| Air Permeability | | |
|--------------------------------------|--|--------------|
| Property | Value | According to |
| Air Permeability Coefficient, ℓ | $10 \times 10^{-6} \text{ m}^2/\text{Pa}\cdot\text{s}$ | EN 29053 |

| Direct Airborne Sound Insulation Index | | |
|--|-------|------------------------------------|
| Property | Value | According to |
| Air Flow Resistivity AF_R | NPD | EN 13162:2012 + A1:2015 (EN 29053) |

Moisture Properties

| Water Permeability | | |
|--|-------------------------|------------------------------------|
| Property | Value | According to |
| Water Absorption, Short Term WS, W_p | $\leq 1 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 1609) |
| Water Absorption, Long Term $WL(P), W_{I_p}$ | $\leq 3 \text{ kg/m}^2$ | EN 13162:2012 + A1:2015 (EN 12087) |

| Water Vapour Permeability | | |
|-------------------------------------|-------|------------------------------------|
| Property | Value | According to |
| Water Vapour Resistance Z | NPD | EN 13162:2012 + A1:2015 |
| Water Vapour Transmission MU, μ | 1 | EN 13162:2012 + A1:2015 (EN 12086) |

Sound Properties

| Acoustic Absorption Index | | |
|---------------------------|-------|--------------------------------------|
| Property | Value | According to |
| Sound Absorption | NPD | EN 13162:2012 + A1:2015 (EN ISO 354) |

| Impact Noise Transmission Index (for Floors) | | |
|--|-------|--------------------------------------|
| Property | Value | According to |
| Dynamic Stiffness SD | NPD | EN 13162:2012 + A1:2015 (EN 29052-1) |

Mechanical Properties

| Compressive Strength | | |
|--|-------|------------------------------------|
| Property | Value | According to |
| Compressive Stress at 10 % deformation CS(10), σ_{10} | NPD | EN 13162:2012 + A1:2015 (EN 826) |
| Compressive Strength CS(Y), σ_m | NPD | EN 13162:2012 + A1:2015 (EN 826) |
| Point Load PL(5) | NPD | EN 13162:2012 + A1:2015 (EN 12340) |

| Property | Value | According to |
|--------------------|-------|-------------------------|
| Compressibility CP | NPD | EN 13162:2012 + A1:2015 |

| Tensile/Flexural Strength | | |
|---|-------|-----------------------------------|
| Property | Value | According to |
| Tensile Strength Perpendicular to Faces TR, σ_{mt} | NPD | EN 13162:2012 + A1:2015 (EN 1607) |

Emissions

| Release of Dangerous Substances to the Indoor Environment | | |
|---|-------|-------------------------|
| Property | Value | According to |
| Release of Dangerous Substances | NPD | EN 13162:2012 + A1:2015 |

Durability

| Durability of Compressive Strength against Ageing/Degradation | | |
|---|-------|-----------------------------------|
| Property | Value | According to |
| Compressive Creep CC($i1/i2/y$) σ_c , X_{ct} | NPD | EN 13162:2012 + A1:2015 (EN 1606) |

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.

Facings

Facing Material Glass fibre tissue

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