

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	0,034 W/mK	EN 13162:2012 + A1:2015 (EN 13162)
Thickness Tolerance, T	T4	EN 13162:2012 + A1:2015 (EN 823)

Air Permeability

Property	Value	According to
Air Permeability Coefficient, ℓ	$100 \times 10^{-6} \text{ m}^3/\text{m}^2\text{sPa}$	

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 W_S, W_p	$\leq 1 \text{ kg/m}^2$	EN 13162:2012 + A1:2015 (EN 1609)
Water Absorption, Long Term $W_L(P), W_{lp}$	$\leq 3 \text{ kg/m}^2$	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 $CS(10), \sigma_{10}$	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.

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