



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

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	<a href="#">See attachment</a>	EN 13162:2012 + A1:2015
Thermal Conductivity $\lambda_D$	0,038 W/mK	EN 13162:2012 + A1:2015
Thickness Tolerance, T	T5	EN 13162:2012 + A1:2015 (EN 823)

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 $MU, \mu$	1	EN 13162:2012 + A1:2015 (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 + 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 $CS(10), \sigma_{10}$	80 kPa	EN 13162:2012 + A1:2015 (EN 826)

Compressive Strength CS(Y), $\sigma_m$	NPD	EN 13162:2012 + A1:2015 (EN 826)
Point Load PL(5)	700 N	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, $\sigma_{mt}$	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) $\sigma_c$ , $X_{ct}$	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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