



ISOVER Top V Final

Mineral insulation from stone wool

TECHNICAL SPECIFICATION

Insulating slabs with bevelled edges are made of ISOVER mineral wool with perpendicular fibres. The production is based on the defibring method of the minerals composition melt and additional additives and ingredients. The mineral fibres produced are processed into the final slab shape on the production line and the edges are then trimmed by bevelling of 20 mm at a 45° angle. The entire fibre surface is hydrophobic and the fibres are perpendicular to the wall plane. Finally it is sprayed with a white or grey topcoat to the front surface of the board to give a smooth finish.

APPLICATION

Isover TOP V Final slabs with bevelled edges are suitable for interior wall and ceilings insulation, where they are fully glued on a sufficiently flat and bearing surface. These slabs placed regularly side by side in bond or broken bond can conceal minor irregularities in the underlay surface and create the effect of bossage. The surface coating of white or concrete grey is highly opaque. For higher aesthetic or architectural requirements, an additional coat of facade or interior paint is required.

DIMENSIONS AND PACKAGING

Thickness	[mm]	50*	60*	80*	100*	120*	140*	150*	160*	180*	200*
Length x width	[mm]	1200 x 333									
Quantity per palette	[pcs]	120	99	75	60	48	42	39	36	33	30
	[m ²]	48	39.6	30	24	19.2	16.8	15.6	14.4	13.2	12
Declared thermal resistance R ₀	[m ² ·K·W ⁻¹]	1.25	1.50	2.00	2.50	3.00	3.50	3.75	4.00	4.50	5.00

* It is necessary to consult with the producer for the terms of delivery.

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
Geometric shape				
Length /	[%, mm]	EN 822	±2 %	
Width b	[%, mm]	EN 822	±1.5 %	
Thickness d	[%, mm]	EN 823	-1 % or -1 mm ¹⁾ and +3 mm	Class of thickness tolerances T5
Deviation from squareness of the edge on length and width S ₀	[mm·m ⁻¹]	EN 824	5	
Deviation from flatness S _{max}	[mm]	EN 825	6	
Relative change in length Δε _l , in width Δε _b , in thickness Δε _d	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions DS(70,-)
Thermal technical properties				
Declared value of the thermal conductivity coefficient λ ₀ ²⁾	[W·m ⁻¹ ·K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.040	
Design thermal conductivity λ ₀ ³⁾	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	0.042	
Specific heat capacity c _d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3	800	
Mechanical properties				
Compressive stress at 10% deformation σ ₁₀	[kPa]	Declaration according to EN 826	30	Declared level of compressive stress at 10% deformation CS(10)30
Tensile strength perpendicular to faces σ _{nt}	[kPa]	Declaration according to EN 1607	30	Declared level of tensile strength perpendicular to faces TR30
Fire safety properties				
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1	
Maximum temperature for use	[°C]		200	
Melting temperature t _f	[°C]	DIN 4102 part 17	≥ 1000	
Hydrothermal properties				
Short term water absorption W _p	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 1609	1	Declared level for short term water absorption WS
Long term water absorption by partial immersion W _p	[kg·m ⁻²]	Declaration according to EN 13162+A1 Measurement according to EN 12087	3	Declared level for long term water absorption by partial immersion WL(P)
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1 Measurement according to EN 12086	1	Declared value for water vapour diffusion resistance factor MU1
Other properties				
Density	[kg·m ⁻³]	EN 1602	65	

¹⁾ Whichever gives the greatest numerical tolerance.

²⁾ Declared values were set under the following conditions (reference temperature 10 °C, humidity u_{dry}, which is reached by drying) according EN ISO 10456.

³⁾ It is valid for typical use in construction with risk of condensation. In the case of construction without any risk of condensation it is possible to use the declared value of thermal conductivity.

RELATED DOCUMENTS

- Declaration of Performance CZ0001-049
- Certificate of constancy of performance 1390-CPR-312/11/P
- ISO 9001, ISO 14001, ISO 50001

10. 4. 2022 The information is valid up to date of publishing. The manufacturer reserves right to change the data.



PACKAGING, TRANSPORT, WAREHOUSING

Insulation boards with bevelled outer edges TOP V FINAL are packed on pallets. The material must be transported and stored under conditions preventing its exposure to water or other degradation. Material must be stored in a roofed area.

BENEFITS

- up to 50% faster workability due to slab dimensions 1200 x 333 mm in comparison with standard lamella
- surface sprayed white or grey paint with high paint opacity
- can be used without surface adjustment
- can be used without anchoring
- lesser time requirements than ETICS
- slabs can cover small surface bumps
- „bosage“ effect on ceiling
- high tensile strength (can be applied on ceilings)
- good thermal insulation performance
- fire resistance
- excellent acoustic properties in terms of noise absorption
- low vapour resistance – good water vapour penetrability
- environmentally friendly and hygienic
- completely hydrophobic
- long life span
- resistant to wood-destroying pests, rodents, and insect
- easy workability – can be cut, drilled into, glued, brushed, etc.