SVT code: 10417
Product identification code: CZ0001-049
Specification code: MW-EN 13 162-T5-DS(TH)-CS(10)30-TR30-WS-WL(P)-MU1

Isover Top V Final

Stone wool insulation

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 on 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 ceiling 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 is white and highly opaque, thanks to which further surface treatment is only necessary in case of demanding architectural requirements. Another layer of sprayed facade or interior painting may be applied on the existing paint.

PACKAGING, TRANSPORT, WAREHOUSING

Isover Top V Final insulation boards with bevelled outer edges are packed on pallets. The material must be transported and stored under conditions preventing its exposure to water or other degradation. **The material must be stored in a covered area.**

BENEFITS

- Up to 50% faster workability than standard laths thanks to 1 200 × 333 mm slabs.
- Surface sprayed with a white or grey topcoat with high paint opacity.
- Can be used without surface adjustment.
- Does not require anchoring.
- Klesser time requirements than ETICS.
- Slabs can cover small surface bumps.
- "Bossage" effect on ceiling.
- High tensile strength (can by applied on ceilings).
- Good thermal insulation.
- Fire resistance.
- Excellent noise absorption properties.
- Low vapour resistance – good water vapour penetrability.
- Environmentally friendly and hygienic.
- Completely hydrophobic.
- Long life span.
- Resistant to wood-destroying pests, rodents, and insects.
- Easy workability – can be cut, drilled into, glued, brushed, etc.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Quantity per pallet [pcs]	Quantity per pallet [m^2]	Declared thermal resistance R_D [$m^2 \cdot K \cdot W^{-1}$]
50*	1 200 × 333	120	48.0	1.25
60*	1 200 × 333	99	39.6	1.50
80*	1 200 × 333	75	30.0	2.00
100*	1 200 × 333	60	24.0	2.50
120*	1 200 × 333	48	19.2	3.00
140*	1 200 × 333	42	16.8	3.50
150*	1 200 × 333	39	15.6	3.75
160*	1 200 × 333	36	14.4	4.00
180*	1 200 × 333	33	13.2	4.50
200*	1 200 × 333	30	12.0	5.00

* Consult the producer for terms of delivery.

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Geometric shape					
Length *l*	[%, 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_b	[$mm \cdot m^{-1}$]	EN 824	5		
Deviation from flatness S_{max}	[mm]	EN 825	6		
Relative change in length $\Delta\varepsilon_l$, in width $\Delta\varepsilon_b$, in thickness $\Delta\varepsilon_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS(70,90)

Isover
Saint-Gobain Construction Products CZ a.s.
Smrčkova 2485/4, 180 00 Prague 8 – Libeň, Czech Republic
podpora@saint-gobain.com • www.isover.cz

Isover Top V Final

Stone wool insulation

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Thermal technical properties					
Declared value of thermal conductivity coefficient λ_D [2]	[W·m^{-1}·K^{-1}]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.040		
Design thermal conductivity λ_u [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_{mt}	[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 tt	[°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 ISO 29767	1	Declared level for short-term water absorption	WS
Long-term water absorption by partial immersion W_{lp}	[kg·m^{-2}]	Declaration according to EN 13162+A1 Measurement according to EN ISO 16535	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					
Bevel of the edge against the walls	[mm]		20 mm ± 3 mm		
Density	[kg·m^{-3}]	EN 1602	70		

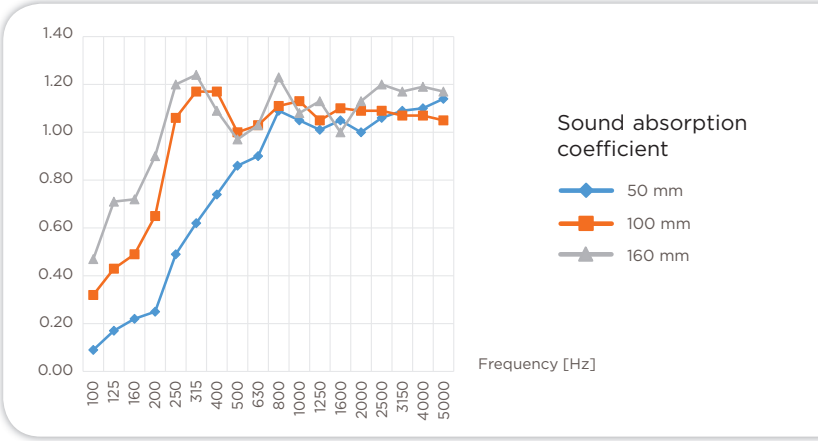
[1] Value with greatest numerical tolerance.
[2] Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.
[3] Valid for typical use in construction with risk of condensation. In the case of construction without any risk of condensation the declared thermal conductivity value can be used.

ACOUSTICS - SOUND ABSORPTION

Thanks to the open fibre structure and optimum volume weight, the use of Isover Top V Final also has an impact on the room acoustics. The sound is not reflected by the insulated walls, but absorbed.

The use of Isover Top V Final insulation in a minimum thickness of 50 mm already leads to a significant improvement in the spatial acoustics of, for example, underground garages or basement spaces.

Specific values can be calculated based on measured values of practical sound absorption factors.



Parameter	Methodology	Value	Designation code
Acoustic properties			

Practical sound absorption coefficient α_p	[-]	EN 13162+A1 EN ISO 11654 Measurement according to EN ISO 354	Level of practical sound absorption coefficient																AP	
	Frequency [Hz]		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
	Thickness	50 mm	0.09	0.17	0.22	0.25	0.49	0.62	0.74	0.86	0.90	1.09	1.05	1.01	1.05	1.00	1.06	1.09	1.10	1.14
		100 mm	0.32	0.43	0.49	0.65	1.06	1.17	1.17	1.00	1.03	1.11	1.13	1.05	1.10	1.09	1.09	1.07	1.07	1.05
		160 mm	0.47	0.71	0.72	0.90	1.20	1.24	1.09	0.97	1.03	1.23	1.08	1.13	1.00	1.13	1.20	1.17	1.19	1.17

Weighted sound absorption coefficient α_w Sound absorption Average α_{stf}	[-]	EN ISO 11654 (for NRC according ASTM C423)	Level of weighted sound absorption coefficient		AW
	Single number value		α_w	α_{stf} (NRC)	
	Thickness	50 mm	0.75 (M. H)	0.84	
		100 mm	1.00	1.05	
		160 mm	1.00	1.10	

RELATED DOCUMENTS

- Declaration of Performance
- Certificate of constancy of performance
- ISO 9001, ISO 14001, ISO 50001

More about the product

www.isover.cz/en/products/isover-top-v-final

3/11/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

Isover
Saint-Gobain Construction Products CZ a.s.
Smrčkova 2485/4, 180 00 Prague 8 – Libeň, Czech Republic
podpora@saint-gobain.com • www.isover.cz