



Isover Merino

Mineral fibreglass insulation

TECHNICAL SPECIFICATION

Insulation slabs made of Isover fibreglass wool. Production is based on the defibring of the melt of glass and other additives and ingredients. The mineral fibres that are produced are then shaped into slabs on the production line. The fibres are made water-repellent over their entire surface. Slabs under construction have to be suitably protected (steam protection foil, protection against dust, other layers of construction).





APPLICATION

Isover Merino slabs are flexible and have a stable shape but cannot bear loads. They are suitable for any thermal, acoustic, no-load insulation, especially for double construction, ceiling fillings, hanging false ceilings, and cavities (improving the acoustic absorption of the construction, assembled floors with posts), and for ventilated façades with frame insulation (maximum two storeys, using timber studs with a 300-mm clearance).

PACKAGING, TRANSPORT, WAREHOUSING

Isover Merino slabs are packaged in PE film. They come in MPS packs (1MPS = 12 packages). Loose packages can be supplied upon agreement with the manufacturer. The slabs must be transported in covered vehicles under conditions that keep them dry and prevent other types of damage. The products are stored indoors or outdoors, depending on the conditions specified in the current Isover price list.

BENEFITS

- Very 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 insects.
- Easy workability can be cut, drilled into, etc.
- Dimensional stability during temperature change

DIMENSIONS AND PACKAGING

Thickness	Length × width [mm]	V	olume per packaç	ge	Quantity per pallet	Declared thermal resistance R _D [m²·K·W ⁻¹]	
[mm]		[pcs]	[m²]	[m³]	[m²]		
50	1200 × 625	20	15.00	0.34	240	1.25	
60	1200 × 625	16	12.00	0.34	240	1.50	
80	1200 × 625	12	9.00	0.34	180	2.05	
100	1200 × 625	10	7.50	0.34	150	2.55	
120*	1200 × 625	8	6.00	0.34	120	3.05	
140*	1200 × 625	6	4.50	0.34	90	3.55	

^{*} Consult the producer for 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	-5% or -5 mm ¹⁾ and +15 mm or +15 mm ²⁾	Class of thickness tolerances	T5		
Deviation from squareness of the edge on length and width S_b	[mm·m ⁻¹]	EN 824	5				
Deviation from flatness S_{max}	[mm]	EN 825	6				
Relative change in length $\Delta \varepsilon_{\rm l}$, in width $\Delta \varepsilon_{\rm b}$, in thickness $\Delta \varepsilon_{\rm d}$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS(23/90)		



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Parameter	Unit	Methodology			Va	lue	Designation code				
Thermal technical properties	•										
Declared value of thermal conductivity coefficient $\lambda_{\scriptscriptstyle D}^{\ 2)}$	[W·m ⁻¹ .K ⁻¹]	Declaration according to EN 13162+A1 Measurement according to EN 12667		0.0	039						
Design thermal conductivity $\lambda_u^{(3)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN 73 0540-3		0.0)42						
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]		ČSN 73	0540-3		84	40				
Fire safety properties											
Reaction to fire class	[-]	Dec	laration accord	ing to EN 13501-1	+A1	A	\ 1				
Maximum temperature for use	[°C]			20	00						
Melting temperature t_t	g temperature t_t [°C]		DIN 4102 part 17		< 1000						
Hydrothermal properties											
Water vapour diffusion resistance factor μ	[-]	EN 13162+A1		1 Decla		Declared value for water vapour diffusior resistance factor		ion MU1			
Other properties											
Density	[kg·m ⁻³]	EN 1602		1	4						
Acoustic properties ⁵⁾											
	[-]		Declaration according to EN 13162+A1								
		Declaration according to EN ISO 11654			Declared level of practical sound absorption coefficient AP						
		Measurement according to EN ISO 354									
Practical sound absorption coefficient a	Frequency			125 Hz	2	50 Hz	500 Hz	z	1000 Hz	2000 Hz	4000 Hz
	Thickness		20 mm	0.10		0.35	0.60		0.75	0.90	0.90
	In front of the	wall,	50 mm	0.25	-	0.60	0.90		1.00	1.00	1.00
	60 mm		80 mm	0.45		0.75	1.00		1.00	1.00	1.00
	Thickness		20 mm	0.20		0.55	0.85		0.85	0.90	0.90
	In front of the v	wall,	50 mm	0.40		0.75	1.00		1.00	1.00	1.00
	150 mm		80 mm	0.65		1.00	1.00		1.00	1.00	1.00
Constitution of the second state of			Declaration according to EN 13162+A1			Level of air flow resistivity				AFr	
Specific air flow resistivity r	[kPa·s·m ⁻²]		Measurement according to EN 29053			≥ 5					

RELATED DOCUMENTS

- Declaration of Performance
- ISO 9001, ISO 14001, ISO 45001, ISO 50001

More about the product

www.isover.cz/en/products/isover-merino



1/4/2024 The information provided herein is valid at the time of publication. The manufacturer reserves the right to change the data.

Value with greatest numerical tolerance.
 Value with lowest numerical tolerance.
 Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.
 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

value for typical use in constitution with his of condensation. In the case of constitution conductivity.

5) Informative non-declared value beyond the scope of CPR, obtained by specific tests.