

Isover MERINO

Mineral fibreglass insulation



Specification code: MW - EN 13162 - T2 - MU1 - AF,5

TECHNICAL SPECIFICATION

Insulation slabs made of Isover fibreglass wool. The production is based on defibration of melt of glass and other additives and ingredients. Produced mineral fibres are then shaped into slabs on the production line. Fibres are made water-repellent on their entire surface. Slabs in construction have to be protected suitably (steam protection foil, protection from dust settling, other layers of construction).

APPLICATION

Isover MERINO slabs are flexible and have stable shape but cannot bear load. 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), for ventilated facades with frame insulation (maximum two storeys, using timber studs with 300 mm clearance).

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Packaging (m ²)	Packaging (m ³)	MPS (m ²)	Declared thermal resistance R _D (m ² .K.W ⁻¹)
Isover MERINO 4	40	1200 x 625	18.00	0.34	288	1.00
Isover MERINO 5	50	1200 x 625	15.00	0.34	240	1.25
Isover MERINO 6	60	1200 x 625	12.00	0.34	240	1.50
Isover MERINO 8	80	1200 x 625	9.00	0.34	180	2.05
Isover MERINO 10	100	1200 x 625	7.50	0.34	150	2.55
Isover MERINO 12	120	1200 x 625	6.00	0.34	120	3.05
Isover MERINO 14	140	1200 x 625	4.50	0.34	90	3.55

Thickness tolerance classification T2 complies with allowed tolerance according to EN 13162: - 5% or - 5 mm, while the higher numerical value prevails and + 15% or +15 mm where the lower tolerance numerical value is predominant.

TECHNICAL PARAMETERS

Parameter	Unit	Value		Norm
THERMAL INSULATING PROPERTIES				
Condition set for declared values I(10°C) and (u _{dry})	-	-	-	ČSN EN ISO 10456
Declared value of the thermal conductivity coefficient λ _D (based on the set of measured values according to EN 12667)	Wm ⁻¹ K ⁻¹	0.039		ČSN EN 13162
Specific heat capacity c _d	J·kg ⁻¹ K ⁻¹	840		ČSN 730540-3
MECHANICAL PROPERTIES				
Specific load value	kN·m ⁻³	0.14		ČSN EN 1991-1-1 ČSN EN 1990
FIRE SAFETY PROPERTIES				
Reaction to fire class	-	A1		ČSN EN 13501-1
Maximum temperature for use	°C	200		-
Melting temperature t _t	°C	< 1000		DIN 4102 part 17
ACOUSTIC PROPERTIES				
Acoustic absorption coefficient α	Application	Frequency	Hz	125 250 500 1000 2000 4000
	In front of the wall, 60 mm	MERINO 2	-	0,10 0,35 0,60 0,75 0,90 0,90
		MERINO 5	-	0,25 0,60 0,90 1,00 1,00 1,00
		MERINO 8	-	0,45 0,75 1,00 1,00 1,00 1,00
	In front of the wall, 150 mm	MERINO 2	-	0,20 0,55 0,85 0,85 0,90 0,90
		MERINO 5	-	0,40 0,75 1,00 1,00 1,00 1,00
		MERINO 8	-	0,65 1,00 1,00 1,00 1,00 1,00
OTHER PROPERTIES				
Specific resistance against air flow AF _r	kPa s m ⁻²	≥ 5		ČSN EN 29053
Water vapour penetrability	Vapour resistance coefficient (μ) MU	-	1	ČSN EN 12086

RELATED DOCUMENTS

- EG compliance certificate 1486-CPD-0254

1. 7. 2014 The information is valid up to date of publishing. The manufacturer reserves right to change the data.