

Isover UNIROL PROFI

Mineral fibreglass insulation



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

TECHNICAL SPECIFICATION

Rolled insulation mats made of Isover fibreglass wool are covered with hydrophobic fibres on the entire surface. The production method is based on the fibering of glass melt and other additives and ingredients. The mineral fibres produced are processed into the final mat shape on the production line. The insulation in the construction should be protected (vapour-proof foil, suitable protection against dust setting in case of loosely laid insulation, additional construction layers). The insulation is not harmful to the environment or public health, it is resistant to moulds, fungi and wood-destroying insects.

APPLICATION

The fibreglass insulation mats with excellent heat-insulating properties are used as thermal and acoustic insulation of sloping roofs and ceilings. Superior energy saving type of insulation, $\lambda_D = 0.033 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$.

DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Per package (m ²)	MPS (m ²)	Declared thermal resistance R _D (m ² ·K·W ⁻¹)
Isover UNIROL PROFI 5	50	9500 x 1200	11.40	273.60	1.50
Isover UNIROL PROFI 6	60	8000 x 1200	9.60	230.40	1.80
Isover UNIROL PROFI 8	80	6000 x 1200	7.20	172.80	2.40
Isover UNIROL PROFI 10	100	4500 x 1200	5.40	129.60	3.00
Isover UNIROL PROFI 12	120	4000 x 1200	4.80	115.20	3.60
Isover UNIROL PROFI 14	140	3300 x 1200	3.96	95.04	4.20
Isover UNIROL PROFI 16	160	2900 x 1200	3.48	83.52	4.85
Isover UNIROL PROFI 18	180	2600 x 1200	3.12	74.88	5.45
Isover UNIROL PROFI 20	200	2400 x 1200	2.88	69.12	6.05
Isover UNIROL PROFI 22	220	2300 x 1200	2.76	66.24	6.65

Thickness tolerance classification T2 complies with the 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 decisive.

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
THERMAL INSULATING PROPERTIES			
Condition set for declared values I(10°C) and (u _{dry})	-	-	EN ISO 10456
Declared value of the thermal conductivity coefficient λ_D (based on the set of measured values according to EN 12667)	W·m ⁻¹ ·K ⁻¹	0.033	EN 13162
Specific heat capacity c _d	J·kg ⁻¹ ·K ⁻¹	840	ČSN 730540-3
MECHANICAL PROPERTIES			
Specific load value	kN·m ⁻³	0.21	EN 1991-1-1, EN 1990
FIRE SAFETY PROPERTIES			
Reaction to fire class	-	A1	EN 13501-1
Maximum temperature for use	°C	200	
Melting temperature t _f	°C	< 1000	DIN 4102 part 17
ACOUSTIC PROPERTIES			
Sound absorption coefficient α	Hz	For calculation is possible use same value as for DOMO.	
OTHER PROPERTIES			
Specific resistance against air flow AF _r	kPa·s·m ²	≥ 5	EN 29053
Water vapour penetrability	Vapour resistance coefficient (μ) MU	-	1
			EN 12086

RELATED DOCUMENTS

- EG compliance certificate 1486-CPD-0254
- EG compliance certificate 1486-CPD-0253
- Declaration of Performance 006-WS1-DoP-14-w1 (www.isover.cz/DOP)

1. 4. 2015 The information is valid up to date of publishing. The manufacturer reserves right to change the data.

PACKAGING, TRANSPORT, WAREHOUSING

The Isover rolls are strongly compressed within the package and wrapped with PE foil (1 MPS = 24 Rolls, volume 4,09 m³). After unpacking, the rolls quickly acquire full thickness. Compressing makes manipulation easier and saves space in warehouses, during transport and on the construction site. Rolls have to be transported in covered vehicles under conditions preventing them from getting wet or being degraded. They are stored in covered spaces.

BENEFITS

- fire-resistant
- very good thermal insulation performance
- 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, etc.
- dimensional stability during temperature change