SVT code: 432
Product identification code: 150-WS1-DoP-14-w1, 150-WS2-DoP-14-w1
Specification code: MW-EN13162-T3-MU1-AFr5

Isover Unirol Plus

Mineral fibreglass insulation

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).

APPLICATION

Isover Unirol Plus rolls are suitable for unloaded thermal and acoustic insulation of pitch roofs especially with insertion between rafters and additional frame as well, into partition walls, wood ceilings insulations, false ceilings, and cavities.

BENEFITS

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

PACKAGING, TRANSPORT, WAREHOUSING

The Isover Unirol Plus rolls are strongly compressed within the package and wrapped with PE foil. They come in MPS packs (1MPS = 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. The products are stored indoors or outdoors depending on the conditions specified in the current Isover price list.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package [m²]	Transport packaging [m³]	Quantity per pallet [m²]	Declared thermal resistance R_D [m²·K·W⁻¹]
50	12 000 × 1 200	14.40	0.19	345.60	1.40
60	11 000 × 1 200	13.20	0.19	316.80	1.70
80	7 700 × 1 200	9.24	0.19	221.76	2.25
100	6 000 × 1 200	7.20	0.19	172.80	2.85
120	5 000 × 1 200	6.00	0.19	144.00	3.40
140	4 300 × 1 200	5.16	0.19	123.84	4.00
160	3 800 × 1 200	4.56	0.19	109.44	4.55
180	3 300 × 1 200	3.96	0.19	95.04	5.10
200	3 000 × 1 200	3.60	0.19	86.40	5.70
220	2 700 × 1 200	3.24	0.19	77.76	6.25

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Geometric shape					
Length *l*	[%, mm]	EN 822	±3 %		
Width *b*	[%, mm]	EN 822	±1,5 %		
Thickness *d*	[%, mm]	EN 823	-10 % or -10 mm[1] and +10 mm or +10 mm[2]	Class of thickness tolerances	T3
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 $\Delta\varepsilon_l$, in width $\Delta\varepsilon_b$, in thickness $\Delta\varepsilon_d$	[%]	EN 1604	1	Dimensional stability under the specified temperature and humidity conditions	DS(23,90)

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

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TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
Thermal technical properties				
Declared value of thermal conductivity coefficient λ_D [3]	[W·m^{-1}·K^{-1}]	Declaration according to EN 13162+A1 Measurement according to EN 12667	0.035	
Design thermal conductivity λ_u [4]	[W·m^{-1}·K^{-1}]	ČSN 73 0540-3	0.038	
Specific heat capacity c_d	[J·kg^{-1}·K^{-1}]	ČSN 73 0540-3	840	
Fire safety properties				
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1	A1	
Maximum temperature for use	[°C]		200	
Melting temperature t_t	[°C]	DIN 4102 part 17	< 1000	
Hydrothermal properties				
Water vapour diffusion resistance factor μ	[-]	Declaration according to EN 13162+A1	1	Declared value for water vapour diffusion resistance factor: MU1
Other properties				
Density	[kg·m^{-3}]	EN 1602	15.5	
Acoustic properties [5]				
Practical sound absorption coefficient α_p	[-]	Declaration according to EN 13162+A1 Declaration according to EN ISO 11654 Measurement according to EN ISO 354	Level of practical sound absorption coefficient	AP

Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
60 mm	0.20	0.60	0.95	1.00	1.00	1.00
80 mm	0.30	0.80	1.00	1.00	1.00	1.00
100 mm	0.40	0.90	1.00	1.00	1.00	1.00

Weighted sound absorption coefficient α_w Sound Absorption Average α_{sti} Noise reduction coefficient NRC	[-]	EN ISO 11654 (for NRC according ASTM C423)	Level of weighted sound absorption coefficient	AW

Single number value	α_w	α_{sti}	NCR
60 mm	0.90	1.00	0.91
80 mm	1.00	1.00	1.00
100 mm	1.00	1.00	1.00

Specific air flow resistivity r	[kPa·s·m^{-2}]	Declaration according to EN 13162+A1	Level of air fl ow resistivity	AFr
		Measurement according to EN ISO 9053-1	≥ 5	

[1] Value with greatest numerical tolerance.
[2] Value with lowest numerical tolerance.
[3] Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dry} reached by drying) according to EN ISO 10456.
[4] 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.
[5] Informative non-declared value beyond the scope of CPR, obtained by specific tests.

RELATED DOCUMENTS

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

More about the product

www.isover.cz/en/products/isover-unirol-plus

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Isover
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Smrčkova 2485/4, 180 00 Prague 8 – Libeň, Czech Republic
podpora@saint-gobain.com • www.isover.cz