SVT code: 3796
Product identification code: 030-WS1-DoP-14-w3
Specification code: MW-EN 13 162-T1-MU1-AFr5

Isover Domo Plus

Mineral fibreglass insulation

CE

TECHNICAL SPECIFICATION

Insulation rolls 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 rolls on the production line. Fibres are made water-repellent on their entire surface. Insulation in construction have to be protected suitably (steam protection foil, suitable protection against dust settling in loosely laid constructions, other construction layers).

APPLICATION

Isover Domo Plus rolls are suitable for any thermal, acoustic, no-load insulation for pitch roofs, hanging false ceilings, cavity insulation (increase in acoustic insulation), and non-running roof constructions.

PACKAGING, TRANSPORT, WAREHOUSING

The Isover Domo Plus rolls are packaged into PE foil. They come in MPS packs (1MPS = 24 rolls, volume 4,09 m³). Loose packages can be supplied after an agreement with the manufacturer. 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.

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.
- High elasticity.

DIMENSIONS AND PACKAGING

Thickness [mm]	Length × width [mm]	Volume per package			Quantity per pallet [m²]	Declared thermal resistance R_D [m²·K·W⁻¹]
		[pcs]	[m²]	[m³]		
TWIN 50/100	8 400 × 1 200	2	20.16	1.01	483.84	2.60/1.30
TWIN 60/120	7 200 × 1 200	2	17.28	1.04	414.72	3.15/1.55
TWIN 80/160	5 700 × 1 200	2	13.68	1.09	328.32	4.20/2.10
100	8 400 × 1 200	1	10.08	1.01	241.92	2.60
120	7 400 × 1 200	1	8.88	1.07	213.12	3.15
140	6 400 × 1 200	1	7.68	1.08	184.32	3.65
160	5 600 × 1 200	1	6.72	1.08	161.28	4.20
180	5 000 × 1 200	1	6.00	1.08	144.00	4.70
200	4 450 × 1 200	1	5.34	1.07	128.16	5.25
220	3 900 × 1 200	1	4.68	1.03	112.32	5.75

Note: Name TWIN 10/5 - in the packing are 2 rolls, same thickness 50 mm, applicable as one roll 100 mm.

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	-5 % or -5 mm[1)]	Class of thickness tolerances	T1
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)

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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	0.038		
Design thermal conductivity λ_u [3]	[W·m^{-1}·K^{-1}]	ČSN 73 0540-3	0.041		
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	13		
Acoustic properties [4]					
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	0.35	0.80	0.85	0.95	1.00	1.00
80 mm	0.45	0.95	1.00	1.00	1.00	1.00
100 mm	0.60	1.00	1.00	1.00	1.00	1.00

Weighted sound absorption coefficient α_w Sound Absorption Average α_{stf} 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_{stf}	NCR	
	60 mm	0.95	0.77	0.90	
	80 mm	1.00	0.86	1.00	
	100 mm	1.00	0.91	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] 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, it is possible to use the declared value of thermal conductivity.
[4] 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-domo-plus

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

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