ISOVER SAINT-GOBAIN
Assurance in insulation

Specification code: MW-EN 13 162-T2-DS(70,90)-WS-WL(P)-MU1-AF,5
Identification code of the product-type: 144-WS2-DoP-14-w1
SVT code: 8805

ISOVER Multiplat 34 NT

Mineral fibreglass insulation

TECHNICAL SPECIFICATION

Insulation slabs made of ISOVER fibreglass wool with black non-woven fibreglass tissue. 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. The entire fibre surface is hydrophobic. The slabs in the construction should be protected suitably against the weather effects (outer sheathing, alternatively diffusion foil).

PACKAGING, TRANSPORT, WAREHOUSING

ISOVER Multiplat 34 NT insulation slabs are packed into the PE foil with package height up to 0.5 m. They come in MPS packs. Packages have to be transported in covered vehicles under conditions preventing their wetting or other degradation. The products are stored indoors or outdoors depending on the conditions specified in the current ISOVER price list.

APPLICATION

ISOVER Multiplat 34 NT slabs are suitable for insulation of outer walls of ventilated facade systems and are to be inserted into the grid under the cladding, or fitted mechanically in the multi-layer masonry. The slabs can be fitted mechanically using clamps for soft MW insulation. Insulating slabs are not glued to the surface. In case of using ISOVER Multiplat 34 NT to insulate ceilings, it is also necessary to thing about possibility of using metal plugs with respect to fire security that cannot be positioned at the edge of the slab.

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

DIMENSIONS AND PACKAGING

Thickness	[mm]	100	120	140	160	180	200
Length × width	[mm]	1200 × 600					
Volume per package	[pcs]	10	8	6	6	4	4
	[m^2]	7,20	5,76	4,32	4,32	2,88	2,88
	[m^3]	0,21	0,21	0,21	0,21	0,21	0,21
Quantity per palette	[m^2]	144	115,20	86,40	86,40	57,60	57,60
Declared thermal resistance R_D	[$m^2 \cdot K \cdot W^{-1}$]	2,90	3,50	4,10	4,70	5,25	5,85

* It is necessary to consult with the producer for the terms of delivery.

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] and +15 mm or +15 mm[2]	Class of thickness tolerances	T2
Deviation from squareness of the edge on length and width S_b	[$mm \cdot m^{-1}$]	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 (70,90)
Thermal technical properties					
Declared value of the thermal conductivity coefficient λ_D[3]	[$W \cdot m^{-1} \cdot K^{-1}$]	Declaration according to EN 13162+A1	0.034		
		Measurement according to EN 12667			
Design thermal conductivity λ_u[4]	[$W \cdot m^{-1} \cdot K^{-1}$]	ČSN 73 0540-3	0.037		
Specific heat capacity c_d	[$J \cdot kg^{-1} \cdot K^{-1}$]	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 díl 17	< 1000		
Hydrothermal properties					
Short term water absorption W_p	[$kg \cdot m^{-2}$]	Declaration according to EN 13162+A1	1	Declared level for short term water absorption	WS
		Measurement according to EN 1609			
Long term water absorption by partial immersion W_{lp}	[$kg \cdot m^{-2}$]	Declaration according to EN 13162+A1	3	Declared level for long term water absorption by partial immersion	WL(P)
		Measurement according to EN 12087			
Water vapour diffusion resistance factor μ	[-]	EN 13162+A1	1	Declared value for water vapour diffusion resistance factor	MU1
Other properties					
Density	[$kg \cdot m^{-3}$]	EN 1602	17		
Acoustic properties					
Specific air flow resistivity *r*		Deklarace dle EN 13162+A1	Level of air flow resistivity		AFr
	[$kPa \cdot s \cdot m^{-2}$]	Měření dle EN ISO 9053-1	≥ 5		

[1] Whichever gives the greatest numerical tolerance.
[2] Whichever gives the smallest numerical tolerance.
[3] Declared values were set under the following conditions (reference temperature 10 °C, humidity u_{dry} which is reached by drying) according EN ISO 10456.
[4] It is 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.

RELATED DOCUMENTS

- Declaration of Performance 144-WS2-DoP-14-w1
- Environmental Product Declaration
- ISO 9001, ISO 14001, ISO 45001

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TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code
Environmental properties / impacts				
Volume of Pre-consumer recycled content for production	[%]	ČSN ISO 14021	-	
Volume of Post-consumer recycled content for production	[%]	ČSN ISO 14021	-	
Non-hazardous waste disposed[6]	[kg /FU[7]]	EN 15804+A1, ČSN ISO 14025	0.688	NHWD
Total use of non-renewable primary energy resources	[MJ /FU]	EN 15804+A1, ČSN ISO 14025	66.9	PENRT
Global Warming Potential	[kg CO_2 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	3.49	GWP
Ozone Depletion	[kg CFC 11 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	1.08 E-07	ODP
Acidification potential	[kg SO_2 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0341	AP
Eutrophication potential	[kg PO_4^{3-} ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00312	EP
Photochemical ozone creation	[kg C_2H_4 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00888	POPC
Abiotic depletion potential for non-fossil resources	[kg Sb ekv. /FU]	EN 15804+A1, ČSN ISO 14025	2.71 E-06	ADP-elements
Abiotic depletion potential for fossil resources	[MJ (Calorific value) /FU]	EN 15804+A1, ČSN ISO 14025	68.3	ADP-fossil fuels

[6] In this case it is standard mixed waste.
[7] FU = functional unit (1 m^2 of insulation by 100 mm thick for live cycle phases A1–A3).

Example of product application ISOVER Multiplat 34 NT

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