ISOVER SAINT-GOBAIN
Assurance in insulation

Specification code: MW-EN 13 162-T3-MU1-AF,5
Identification code of the product-type: 84-WS1-DoP-14-w3, 84-WS2-DoP-14-w2
SVT code: 7784

Isover MULTIPLAT 35

Mineral fibreglass insulation

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 MULTIPLAT 35 slabs are suitable for unloaded insulations of the outer walls (ventilated facades under the cladding with insulant inserted into cassettes or frames), insulation of partition walls, pitch roofs, ceilings, false ceilings and other light sandwich constructions.

PACKAGING, TRANSPORT, WAREHOUSING

Isover MULTIPLAT 35 insulation slabs are packed into the PE foil. 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.

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]	40*	60	80	100	120*	140*	160*
Length × width	[mm]	1200 × 625				1200 × 600		
Volume per package	[ks]	20	16	12	10	8	6	6
	[m²]	15.00	12.00	9.00	7.50	5.76	4.32	4.32
	[m³]	0.60	0.72	0.72	0.75	0.69	0.60	0.69
Quantity per palette	[m²]	300.00	240.00	180.00	150.00	115.20	86.40	86.40
Declared thermal resistance R_D	[m²·K·W⁻¹]	1.10	1.70	2.25	2.85	3.40	4.00	4.55

* 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	-3 % or -3 mm[1] and +10% 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)
Thermal technical properties					
Declared value of the thermal conductivity coefficient λ_D[3]	[W·m⁻¹·K⁻¹]	Declaration according to EN 13162+A1	0.035		
		Measurement according to EN 12667			
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	[-]	EN 13162+A1	1	Declared value for water vapour diffusion resistance factor	MU1
Other properties					
Density	[kg·m⁻³]	EN 1602	17		
Acoustic properties					
Specific air flow resistivity *r*		Declaration according to EN 13162+A1	Level of air flow resistivity		AFr
	[kPa·s·m⁻²]	Measurement according to EN 29053	≥ 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 84-WS1-DoP-14-w3, 84-WS2-DoP-14-w2
- Environmental Product Declaration
- ISO 9001, ISO 14001, OHSAS 18001

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SAINT-GOBAIN

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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	0.497	NHWD
Total use of non-renewable primary energy resources	[MJ /FU]	EN 15804+A1, ČSN ISO 14025	57.7	PENRT
Global Warming Potential	[kg CO_2 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	2.59	GWP
Ozone Depletion	[kg CFC 11 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	7.15 E-08	ODP
Acidification potential	[kg SO_2 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0427	AP
Eutrophication potential	[kg PO_4^{3-} ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.00379	EP
Photochemical ozone creation	[kg C_2H_4 ekv. /FU]	EN 15804+A1, ČSN ISO 14025	0.0113	POPC
Abiotic depletion potential for non-fossil resources	[kg Sb ekv. /FU]	EN 15804+A1, ČSN ISO 14025	2.36 E-06	ADP-elements
Abiotic depletion potential for fossil resources	[MJ (Calorific value) /FU]	EN 15804+A1, ČSN ISO 14025	82.4	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 35

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