

ISOVER

SVT code: 961

Product identification code: 024-WS1-DoP-14-w2, 024-WS1-DoP-14-w2 Specification code: MW-EN 13 162-T2-MU1-AFr5

Isover Piano

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

CE

Isover Piano rolls are suitable for thermal, acoustic, no-load insulation which are a part of light construction with metal reinforcement. In residential or administrative buildings, attics, hotels, hospitals, and industry premises, the Isover Piano rolls increase total acoustic absorption of construction and therefore acoustic insulation capacity (improvement in sound reduction of up to 18dB, according to solution for side ways noise travel and the number of holes in the construction), especially if the entire cavity is filled (5-7 dB improvement in sound reduction from cavity only half filled). The improvement in sound reduction depends on how side ways noise travel is limited, i.e. how the carrying frame of partition walls is insulated from the floor, ceiling, and walls with a flexible insulation tape.

PACKAGING, TRANSPORT, WAREHOUSING

The Isover Piano rolls are packaged into PE foil. They come in MPS packs (1MPS = 24 rolls, volume 4.09 m^3). 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.

DIMENSIONS AND PACKAGING

Thickness	Length × width [mm]		Volume per package		Quantity per pallet	Declared thermal resistance R_{D} [m ² ·K·W ⁻¹]	
[mm]		[pcs]	[m²]	[m³]	[m²]		
TWIN 80/40	7 500 × 625	4	9.38/18.75	0.75	225/450	2.10/1.05	
TWIN 100/50	6 000 × 625	4	7.50/15.00	0.75	180/360	2.65/1.30	
TWIN 120/60	5 000 × 625	4	6.25/12.50	0.75	150/300	3.20/1.60	

Note: Name TWIN 80/40 - in the packing are 2 rolls, same thickness 40 mm, applicable as one roll 80 mm.

TECHNICAL PARAMETERS

Parameter	Unit	Methodology	Value	Designation code	
Geometric shape					
Length /	[%, 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·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			Va	lue	Designation code				
Thermal technical properties											
Declared value of thermal conductivity $[W{\cdot}m^{\cdot l}{\cdot}K^{\cdot l}]$ coefficient $\lambda_{\!\scriptscriptstyle D}{}^{3)}$		Declaration according to EN 13162+A1 Measurement according to EN 12667		0.0	037						
Design thermal conductivity $\lambda_{u}^{(4)}$	[W·m ⁻¹ ·K ⁻¹]	ČSN		0.0	040						
Specific heat capacity c_d	[J·kg ⁻¹ ·K ⁻¹]	ČSN 73 0540-3			8	40					
Fire safety properties											
Reaction to fire class	[-]	Declaration according to EN 13501-1+A1		1-1+A1	/	41					
Maximum temperature for use	[°C]				2	00					
Melting temperature t_t	[°C]	DIN 4102 part 17			< 10	000					
Hydrothermal properties											
Water vapour diffusion resistance factor μ	[-]	Declaration acc	cording to EN 1316	62+A1	1		Declared value for water vapour diffusior resistance factor		MU1		
Other properties											
Density	[kg·m ⁻³]	1	EN 1602		15						
Acoustic properties ⁵⁾											
	[-]	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	r leasarement a	125 Hz	250	Hz	500 H	7 1000) Hz	2000 Hz	4000 Hz	
Practical sound absorption coefficient a_p		40 mm	0.15	0.4	5	0.85	0.9	95	0.95	1.00	
		60 mm	0.25	0.6	5	1.00	1.0	0	1.00	1.00	
		80 mm	0.40	0.9	5	1.00	1.0	0	1.00	1.00	
		100 mm	0.40	1.0	0	1.00	1.0	0	1.00	1.00	
	[-]	EN ISO 11654 (for NRC according ASTM C423)				Level of we	eighted sound a	bsorptio	n coefficient	AW	
Weighted sound absorption coefficient a	Single numb	per value	a _w				a _{stř} N		NCR		
Sound Absorption Average a		40 mm	0.75 (0.75 (MH)			0.81		0.80	0.80	
Noise reduction coefficient NRC		60 mm	0.95				0.91 0.90				
		80 mm 1.00			1.00			1.00			
		100 mm	1.0	0			1.05		1.05		
		Declaration according to EN 13162+A1			Level of air fl ow resistivity			ty	AFr		
Specific air flow resistivity r	[kPa·s·m ⁻²]	Measurement according to EN ISO 9053-1		≥ 5							

¹⁾ Value with greatest numerical tolerance.

 ³ Value with joest numerical tolerance.
³ Declared values were set under the following conditions: (reference temperature 10 °C, humidity u_{dy} reached by drying) according to EN ISO 10456.
⁴ Value 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-piano

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