

Isover EPS RigiFloor 5000



Elastified boards to mitigate the footstep effect on floors

Specification code: EPS-EN 13163-T1-L1-W1-S1-P3-B550-DS(N)5-MU40-WL(T)5

PRODUCT CHARACTERISTICS

Isover EPS RigiFloor is a special type of elastified EPS boards with minimum dynamic rigidity. Combined with a load distributing board, it enables construction of floors with a high capacity to mitigate the footstep effect. EPS Isovver insulation boards are made using the latest technologies without any contents of CFCs and HCFCs (known as freons). The modern technology ensures constant quality and minimum power demands of production, which provides the boards with the excellent price/output ratio. All EPS Isovver boards are made in fire-self-extinguishing design with increased fire safety.*

USE

Isover RigiFloor 5000 insulation boards are designed to mitigate the footstep effect of floors with the maximum useful load of 5kN/m² (libraries, archives, theatre stages, grandstands, etc.). To be applied most often as a heavy floating floor with the load distributing board made of reinforced concrete (min. thickness is 50 mm, concrete B20, mesh W4, eyes 150/150 mm). Flexible floor strips (Isover N/PP) must be used along the perimeter around walls and related constructions (Isover N/PP).

PACKING, TRANSPORT, STORAGE

EPS Isovver insulation boards with the size of 1000 x 500 mm are packed in PE foil in packets with the maximum height of 500 mm. Non-standard sizes, e.g. 1000 x 2000 mm, are tied with a tape. Boards must be transported and stored under the conditions preventing from damage. They must not be stored in a direct sun. They must not be stored in a direct sun for a long time. The boards are marked on the side with three colour stripes, the colour order being blue, black, and blue.

ADVANTAGES

- Excellent thermal insulation properties
- Excellent mechanical properties
- Suitable also for ETICS with the thickness from 200 to 350 mm
- Minimum weight
- Simple processing
- Long service life
- Harmless to the environment and human health
- Permanent resistance to humidity
- Biologically neutral
- Economical

DIMENSIONS AND PACKAGING

Product	Thick-ness (mm)	Max. compression CP (mm)	Dimensions (mm)	Per package			Dynamic rigidity (Mpa/m)	Depression of impact noise level (dB)**	Declared thermal resistance R _D (m ² .K.W ⁻¹)
				ks	m ²	m ³			
Isover EPS RigiFloor 5000	20	2	1000 x 500	25	12.5	0.250	30	26	0.50
Isover EPS RigiFloor 5000	30	2	1000 x 500	16	8.0	0.240	20	28	0.75
Isover EPS RigiFloor 5000	40	2	1000 x 500	12	6.0	0.240	20	28	1.00

EDGES

As standard, the boards are fitted with a straight edge.

TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
Declared thermal conductivity coefficient λ_D	W.m ⁻¹ .K ⁻¹	0.039	ČSN EN 12 667
Characteristic thermal conductivity coefficient λ_{k10}	W.m ⁻¹ .K ⁻¹	0.038	-
Specific density	kg.m ⁻³	10-15***	ČSN EN 1602
Long-term moist absorption if immersed completely WL(T)	%	5	ČSN EN 12 087
Fire response class	-	E****	ČSN EN 13 501-1
Long-term heat resistance	°C	80	-
Vapour resistance factor (μ) MU	-	20-40	ČSN EN 12 086

RELATED DOCUMENTS

- Product type test report No. 1390-CPD-005a/06/P

* Fire-self-extinguishing character of EPS Isovver is ensured by means of the fire retarder hexabromcyclododecane - HBCD. Using this fire retarder does not require any specification of rules for safety use, detailed technical parameters are available in writing upon request.

** The specific density is only approximate and is only intended to be used for the needs of static calculations and fire load calculations.

*** Classification of all constructions and systems is decisive for fire safety of buildings; EPS is not used without fire-proof cover layers.

Note: A particular application must comply with general requirements of technical documents of Saint-Gobain Isovver CZ s.r.o., technical standards in force and the particular project

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