

# Isover EPS NeoFloor 150

graphite façade boards with an increased insulation effect



Specification code: EPS-EN 13163-T1-L1-W1-S1-P3-BS200-CS(10)150-DS(N)2-DS(70,-)1-WL(T)5

## PRODUCT CHARACTERISTICS

Isover EPS NeoFloor 150 insulation boards are the latest type of EPS boards using nanotechnology for professional thermal insulation. Millions of cells of the insulation material with a trace addition of graphite effectively reflect heat back to its source as a result of which the insulation properties are increased considerably. Isover EPS NeoFloor 100 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 Isover boards are made in fire-self-extinguishing design with increased fire safety.\*

## USE

Isover EPS NeoFloor 150 insulation boards are designed for professional thermal insulations with common requirements for the pressure resistance, e.g. floors, etc. At the same time the boards are used for applications with the maximum requirements for insulation layers of power saving buildings (low-energy and passive houses) with the common insulation thickness varying from 200 to 500 mm. The design

## DIMENSIONS AND PACKAGING

Product	Thickness (mm)	Dimensions (mm)	Per package			Declared thermal resistance $R_D$ ( $m^2 \cdot K \cdot W^{-1}$ )
			ks	$m^2$	$m^3$	
Isover EPS NeoFloor 150	10	1000 x 500	50	25.0	0.250	0.30
Isover EPS NeoFloor 150	20	1000 x 500	25	12.5	0.250	0.65
Isover EPS NeoFloor 150	30	1000 x 500	16	8.0	0.240	1.00
Isover EPS NeoFloor 150	40	1000 x 500	12	6.0	0.240	1.30
Isover EPS NeoFloor 150	50	1000 x 500	10	5.0	0.250	1.65
Isover EPS NeoFloor 150	60	1000 x 500	8	4.0	0.240	2.00
Isover EPS NeoFloor 150	70	1000 x 500	7	3.5	0.245	2.30
Isover EPS NeoFloor 150	80	1000 x 500	6	3.0	0.240	2.65
Isover EPS NeoFloor 150	90	1000 x 500	5	2.5	0.225	3.00
Isover EPS NeoFloor 150	100	1000 x 500	5	2.5	0.250	3.30
Isover EPS NeoFloor 150	120	1000 x 500	4	2.0	0.240	4.00
Isover EPS NeoFloor 150	150	1000 x 500	3	1.5	0.225	5.00
Isover EPS NeoFloor 150	160	1000 x 500	3	1.5	0.240	5.30
Isover EPS NeoFloor 150	170	1000 x 500	2	1.0	0.170	5.65
Isover EPS NeoFloor 150	180	1000 x 500	2	1.0	0.180	6.00
Isover EPS NeoFloor 150	190	1000 x 500	2	1.0	0.190	6.30
Isover EPS NeoFloor 150	200	1000 x 500	2	1.0	0.200	6.65

After an agreement the products may be supplied in other thicknesses as well.

## EDGES

As standard, the boards are fitted with straight edges, a rabbet may be created for an extra surcharge (up to the maximum thickness of 240 mm; the cover dimensions will be smaller by the rabbet dimension, i.e. 15 mm).

## TECHNICAL PARAMETERS

Parameter	Unit	Value	Norm
Declared thermal conductivity coefficient $\lambda_D$	$W \cdot m^{-1} \cdot K^{-1}$	0.031	ČSN EN 12 667
Characteristic thermal conductivity coefficient $\lambda_{k10}$	$W \cdot m^{-1} \cdot K^{-1}$	0.030	-
Specific density	$kg \cdot m^{-3}$	20-25**	ČSN EN 1602
Long-term moist absorption if immersed completely WL(T)	%	5	ČSN EN 12 087
Pressure resistance (tension) with 10% lin. def. CS(10)	kPa	150	ČSN EN 826
Permanent load carrying capacity	$kg \cdot m^{-2}$	3000	-
Fire response class	-	E***	ČSN EN 13 501-1
Long-term heat resistance	$^{\circ}C$	70	-
Vapour resistance factor ( $\mu$ ) MU	-	30-70	ČSN EN 12 086

## RELATED DOCUMENTS

- Product type test report No. 1020-CPD-050015340

\* Fire-self-extinguishing character of EPS Isover 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 Isover CZ s.r.o., technical standards in force and the particular project

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and application itself must comply with the technological procedure for a particular system.

## PACKING, TRANSPORT, STORAGE

EPS Isover insulation boards with the size of 1000 x 500 mm and 1000 x 1000 mm are packed in PE foil in packets with the maximum height of 500 mm. Non-standard sizes, e.g. 1000 x 2000 mm or 1000 x 2500 mm, are tied with a tape. Boards must be transported and stored under conditions preventing damage.

They must not be stored in a direct sun.

## 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