



SINCE
1950

ENVIZOL TB OH 50

Acoustic and thermal insulation board



STANDARD
100



PG035 217573
OETI



Characteristics: Nonwoven thermally bonded textile, made by airlay technology, for acoustic insulation applications in building industry

Material content: Recycled polyester fibers and BICO co-polyester binder fibers

Colour: Grey

Certification: Quality Management System ISO 9001, ISO 14001, ISO 45001 and ISO 50001

Properties:



THERMAL
INSULATION



ACOUSTIC
ABSORPTION



MADE FROM
RECYCLED MATERIALS



HIGH DIMENSIONAL
STABILITY



FLEXIBILITY



RESISTANCE TO
MECHANICAL DAMAGE



NO HAZARDOUS
CHEMICALS



NO IRRITATION OF
RESPIRATORY TRACT



NO SKIN
IRRITATION

Regular Use: Interior thermal and acoustic insulation of ceilings, walls and partitions



CEILING
INSULATION



RAFTERS
INSULATION



PARTITIONS
INSULATION



WALL
INSULATION

Material Specification

Date of Issue: 27.03.2020

No.: I-006-3



TRADITIONAL QUALITY NONWOVENS

Material Specification

Date of Issue: 27.03.2020

No.: I-006-3

ENVIZOL TB OH 50

Acoustic and thermal insulation board

Technical parameters

Envizol TB OH 50		TL 30	TL 50	TL 75	TL 100	Tolerance
PHYSICAL PROPERTIES						
Mass per unit area [m _s] / EN ISO 9864	g/m ²	1500	2500	3750	5000	±15
Density [ρ] / EN 1602	kg/m ³	50				±15
Thickness / ČSN 823	mm	30	50	75	100	-5% +10%
SOUND INSULATION PROPERTIES						
Acoustic absorption / ČSN ISO 10534-1	Příloha č. 1					
THERMAL INSULATOIN PROPERTIES						
Thermal conductivity [λ] / ČSN EN 12667	W/(m.K)	0,033				
Specific heat capacity [c] / ČSN 730540-3	J/(kg.K)	1250				
Thermal resistance [R]	(m ² .K)/W	0,91	1,52	2,27	3,03	
Heat transfer coefficient [U]	W/(m ² .K)	0,93	0,59	0,41	0,31	
DISTRIBUTION OF MOISTURE						
Water vapour diffusion resistance factor [μ] / EN 13162		2,2				
WATER ABSORPTION						
Short-term water absorption [W] / EN1609 (ČSN EN ISO 29767)	kg/m ²	< 4,5				
FIRE CLASSIFICATION						
Reaction to fire / EN 13501-1+A1		E				
DIMENSIONS						
Delivered format		board				
Width	cm	60				±1%
Lenght	cm	120				±3%
PACKAGING AND STORAGE						
Packing	The boards are placed on a non-returnable wooden pallet. The pallet is wrapped with stretch foil.					
Pallet dimensions [wxlxh]	cm	120x120x250				
Number of boards per bag	ks	158	96	62	48	
Number of boards per pallet	m ²	113,8	69,1	44,6	34,6	
	kg	190	190	190	190	
Storage	In covered, clean and dry spaces					

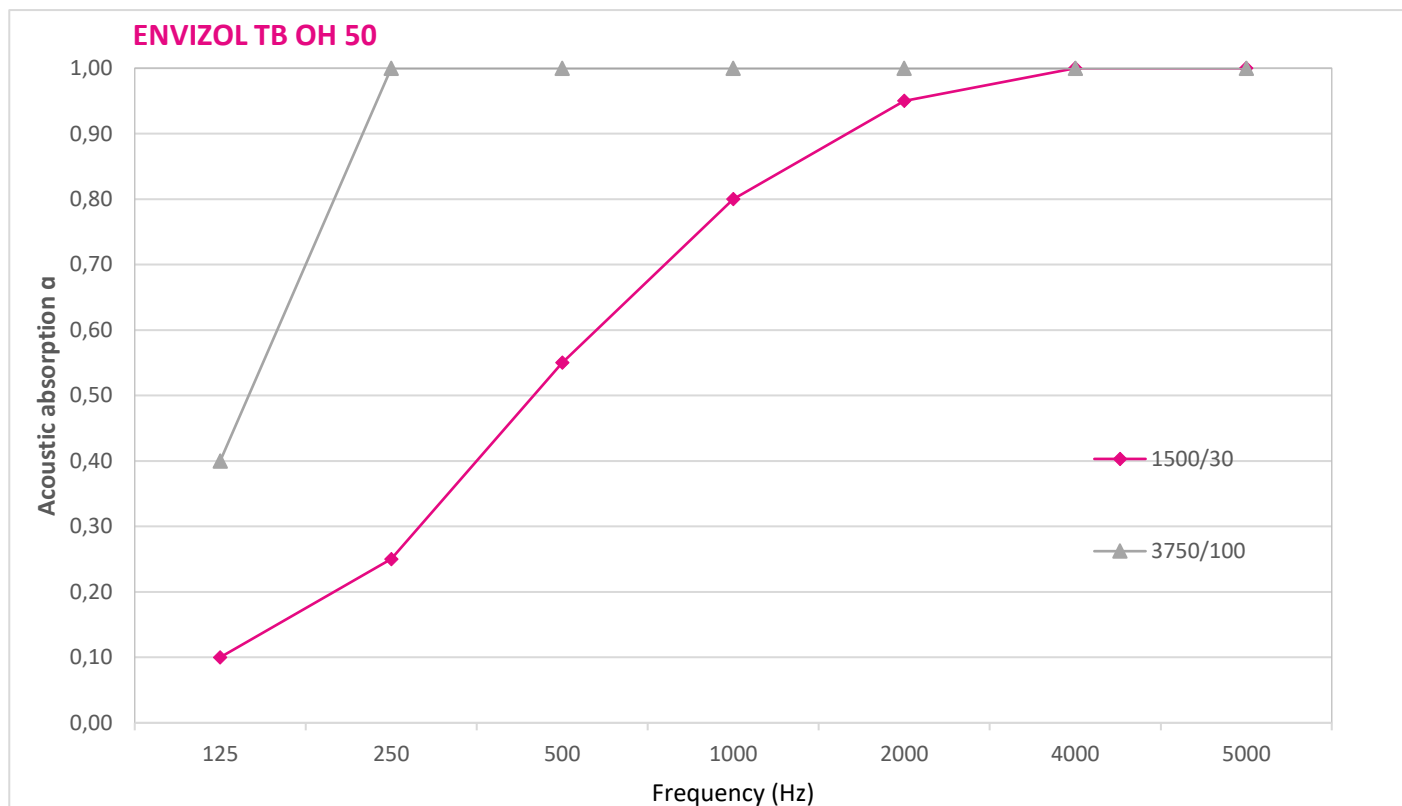
The data was measured at the laboratories of RETEX a.s., VUT Brno and CSI Prague in 2020.

All dates are for informative purpose only - this Specification does not substitute Declaration of conformity or Product Certificates.

ENVIZOL TB OH 50

Acoustic and thermal insulation board

Acoustic absorption / ČSN ISO 10534-1



f [Hz]	1500/30	3750/100
125	0,10	0,40
250	0,25	1,00
500	0,55	1,00
1000	0,80	1,00
2000	0,95	1,00
4000	1,00	1,00
5000	1,00	1,00

STORAGE

Protect the panels against rain before use.

Storage in a dry place.

Make sure the product is dry before use (equilibrium humidity should not exceed 1% by weight under normal conditions).



If the panels become damp or soaked with water they may become significantly heavier, making their handling more difficult.

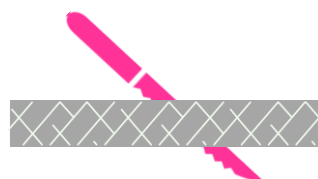


CUTTING

For smaller-scale one-off projects, we recommend using a special knife with long blade insulation (eg. Fiskars K20 Mineral Wool knife). It is also possible to work with special equipment - eg. cordless saw for insulation FESTOOL ISC 240.

Always cut the boards with the accuracy corresponding to the application.

When inserting boards between rafters in roof constructions, it is necessary to take into account the unevenness of the rafters and check the shape and flatness of the rafters before applying the insulation.



We recommend cutting the insulation always with an overlap of min. 15 mm / ideally 20 mm (above the width of the opening of the structure into which the insulator is inserted) and apply the insulation to the structure by gently squeezing the insulation in the direction of the structure. In this way, the insulation is fixed and the hollows / joints between the insulation and the structure are eliminated.

It is recommended to carry out the insulation in at least two layers with overlapping to eliminate continuous joints across the structure between the insulator boards. In this way, better thermal insulation properties of the insulator layer will also be achieved.



Polyester fibres are extremely strong and flexible. We do not recommend cutting these panels with an ordinary knife or snap-off knife – if you use such tools you risk injury and the work you perform will be extremely demanding and of a low standard.

OVERLAPPING

Doporučuje se provádět izolaci alespoň ve dvou vrstvách s překrytím, aby se vyloučily spojitě spoje napříč strukturou mezi izolačními deskami. Tímto způsobem bude rovněž dosaženo lepších tepelně izolačních vlastností izolační vrstvy.



Without overlapping the joints of the ENVIZOL TB bottom layer, thermal bridges may occur and the air permeability of the insulator layer may increase.

BENDING

Bending of thermal insulation boards is not recommended. Corners and corners should be solved by folding boards with overlapping in each other

