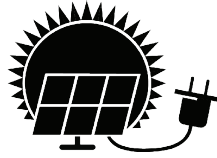




**NATURAL INSULATION
PRODUCED WITH HELP
OF SOLAR ENERGY**



ECOINSULpanel

are flexible and solid ECO friendly insulation boards made from technical hemp fibres. Our insulation has high bulk density and ability to adapt to the various shapes of building. It is mostly used in external contact thermal and acoustic insulation systems of walls. The advantages of the boards are a very low water vapour diffusion resistance and excellent thermal and acoustic insulation properties. Thanks to these properties they can fully replace polystyrene, glass or stone wool insulations. Boards are perfect fit for the concept of sustainable construction.



Use as:	<ul style="list-style-type: none"> - external contact thermal and acoustic insulation of walls - external contact thermal and acoustic insulation of panelling - internal thermal and acoustic wall insulation - insulation for stable flat roofs with mechanical fastening - insulation for flat roofs attics
Advantages of our hemp insulation:	<ul style="list-style-type: none"> - natural and ECO friendly insulation for building industry - excellent thermal insulation properties - low water vapour diffusion resistance material - hygienically safe material supporting healthy living - simple processability, easy and fast assembly - ability to adapt to the various shapes of building
Packaging, storage and transportation:	<ul style="list-style-type: none"> - boards are stored on pallets with size of 1100(W) x 1200(D) mm and with maximum height of 2200mm - pallets and individual boards must be stored at dry places - enclosed transportation must be provided to prevent the insulation from getting wet
European assessment documentation:	EAD No. 040005-00-1201 / June 2015
Unique identification code of the product-type:	ECOINSULpanel_2024-01
Declaration of performance no.:	DoP-24/06-002-01 (according to Annex III. of regulation (EU) No. 305/2011)

Dimensions and packaging:

Length x Width:	Thickness:	Boards vs. pallet:	m ² vs. pallet:	m ³ vs. pallet:
[mm]	[mm]	[pcs]	[m ²]	[m ³]
1100 x 600	20	200	132,00	2,640
1100 x 600	30	134	88,44	2,650
1100 x 600	40	106	69,96	2,798
1100 x 600	50	84	55,44	2,772
1100 x 600	60	72	47,52	2,851
1100 x 600	80	52	34,32	2,746
1100 x 600	100*	42	27,72	2,772
1100 x 600	120*	36	23,76	2,851
1100 x 600	140*	30	19,80	2,770
1100 x 600	160*	26	17,16	2,740
* Sticked boards				
Transport size of pallets is: 1100 x 1200 x 2200 mm (Width x Length x Height)				
Please contact the manufacturer for bespoke sizes and dimensions of the insulation boards				

European technical assessment: 24/0170

Technical parameters:

Essential characteristics:	Values:	Units:	Harmonised technical spec.:
Bulk density:	85 - 115*	[kg/m ³]	EN 1602:2013
Product components: hemp fibres binding fibres (PES BiCo)	85** 15	[%] [%]	
Thermal conductivity: $\lambda_{10, dry, mean}$ $\lambda_{D, 23,50}$ $\lambda_{D, 10, dry, 90/90}$	0,0379 0,041 0,0384	[W/m.K] [W/m.K] [W/m.K]	Annex A of EAD 040005-00-1201, EN 12667:2001, EN ISO 10456:2007/AC:2009
Reaction to fire: class of reaction to fire	Class C-s2,d0 <small>(acc. to EN 13501-1:2018)</small>		Cl. 2.2.1 EAD 040005-00-1201; test acc. to EN ISO 11925-2:2020, EN 13823:2020+A1
Water vapour diffusion resistance: water vapour diffusion resistance μ	≤ 2		Cl. 2.2.10 EAD 040005-00-1201; EN 12086:2013
Sound absorption: acoustic absorption index α_w class of sound absorption	1,00 Class A		Cl. 2.2.8 EAD 040005-00-1201; EN ISO 354:2003; EN ISO 11654:1997
Geometry: width length thickness - tolerance class squareness flatness	±1.5 ±2.0 T3 <small>(acc. to EN 13171: 2012+A1:2015)</small> ≤ 5 ≤ 6	[%] [%] [mm/m] [mm]	Cl. 2.2.12 EAD 040005-00-1201; EN 822:2013; EN 823:2013 EN 824:2013; EN 825:2013
Mechanical properties: compressive stress at 10% deformation tensile strength parallel to faces - longitudinally tensile strength parallel to faces - transversally	≥ 25 ≥ 100 ≥ 15	[kPa] [kPa] [kPa]	EAD 040005-00-1201; EN 1608:2013; EN826:2013

* the bulk density is not constant and varies with the nominal thickness of the product
** the fibers are treated with fire retardant soda

