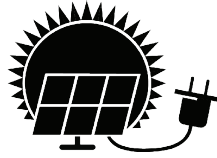




**NATURAL INSULATION  
PRODUCED WITH HELP  
OF SOLAR ENERGY**



# ECOINSULflex

are flexible and light solid ECO friendly insulation boards made from technical hemp fibres. Our product has an excellent thermal and acoustic insulation properties and it is the best choice for use at building constructions. The boards are perfect fit for use in diffusely open constructions due to their low water vapour diffusion resistance. Thanks to these properties they can fully replace polystyrene, glass or stone wool insulations. This insulation helps to create healthy buildings. Boards are perfect fit for the concept of sustainable construction.



**Use as thermal and acoustic non-loaded insulation for:**

- pitched roofs inserted between rafters
- pitched roofs inserted under rafters
- pitched roofs inserted above rafters to grating
- wooden floors and ceilings inserted into wooden frames
- suspended soffits
- partition walls and cavity walls

**Advantages of our hemp insulation:**

- 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 most complicated construction shapes

**Packaging, storage and transportation:**

- boards are packed in polyethylene bags with maximum height of 600 mm per package, they are stored on pallet with size of 1100(W) x 1200(D) mm and maximum height of 2600 mm
- individual packages must be stored in 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:**

ECOINSULflex\_2024-01

**Declaration of performance no.:**

DoP-24/06-001-01  
(according to Annex III. of regulation (EU) No. 305/2011)

## Dimensions and packaging:

Length x Width:	Thickness:	Boards vs. package:	m <sup>2</sup> vs. package:	Packages vs. pallet:	m <sup>2</sup> vs. pallet:	m <sup>3</sup> vs. pallet:
[mm]	[mm]	[pcs]	[m <sup>2</sup> ]	[pcs]	[m <sup>2</sup> ]	[m <sup>3</sup> ]
1100 x 600	30	16	10,56	10	105,60	3,168
1100 x 600	40	12	7,92	10	79,20	3,168
1100 x 600	50	10	6,60	10	66,00	3,300
1100 x 600	60	8	5,28	10	52,80	3,168
1100 x 600	80	6	3,96	10	39,60	3,168
1100 x 600	100	5	3,30	10	33,00	3,300
1100 x 600	120	4	2,64	10	26,40	3,168
1100 x 600	140	4	2,64	8	21,12	2,9568
1100 x 600	160	3	1,98	10	19,80	3,168
1100 x 600	180	3	1,98	8	15,84	2,8512
<b>Transport size of pallets is: 1100 x 1200 x 2600 mm (Width x Length x Height)</b>						
<b>Please contact the manufacturer for bespoke sizes and dimensions of the insulation boards</b>						

European technical assessment: 24/0170

## Technical parameters:

Essential characteristics:	Values:	Units:	Harmonised technical spec.:
Bulk density:	30 - 40*	[kg/m <sup>3</sup> ]	EN 1602:2013
Product components:			
hemp fibres	85**	[%]	
binding fibres (PES BiCo)	15	[%]	
Thermal conductivity:			
$\lambda_{10, dry, mean}$	0,0375	[W/m.K]	Annex A of EAD 040005-00-1201, EN 12667:2001, EN ISO 10456:2007/AC:2009
$\lambda_{D, 23,50}$	0,041	[W/m.K]	
$\lambda_{D, 10, dry, 90/90}$	0,0386	[W/m.K]	
Reaction to fire:			
class of reaction to fire	Class C-s2,d0 <small>(acc. to EN 13501-1:2018)</small>		CI. 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 $\mu$	≤ 2		CI. 2.2.10 EAD 040005-00-1201; EN 12086:2013
Sound absorption:			
acoustic absorption index $\alpha_w$	0,70		CI. 2.2.8 EAD 040005-00-1201; EN ISO 354:2003; EN ISO 11654:1997
class of sound absorption	Class C		
Geometry:			
width	±1.5	[%]	CI. 2.2.12 EAD 040005-00-1201; EN 822:2013; EN 823:2013
length	±2.0	[%]	
thickness - tolerance class	T3 <small>(acc. to EN 13171: 2012+A1:2015)</small>		

\* the bulk density is not constant and varies with the nominal thickness of the product

\*\* the fibers are treated with fire retardant sodium carbonate

