



Semi-rigid, eco-friendly insulation boards made from technical hemp fibre. The boards are designed to adapt to the various shapes of buildings.

Bio Wall insulation is ideally suited for external thermal and acoustic insulation wall systems.

The advantages of these boards are their very low water vapour diffusion resistance and excellent thermal and acoustic insulation properties.

Thanks to these properties, they can fully replace polystyrene, glass or mineral wool insulation. As a result, Bio boards are perfect for use in sustainable construction.



Use as thermal and acoustic non-loaded insulation for:

External walls
External panelling
Internal thermal and acoustic wall
Flat roofs with mechanical fixing
Pitched roofs

Advantages of our hemp insulation:

Natural and sustainable
Excellent thermal insulation properties
Excellent acoustic insulation properties
Low water vapour diffusion resistance
Safe- supporting a healthy living environment
Simple and fast assembly
Ability to adapt to the various shapes of buildings

Packaging, storage and transportation:

Boards are stored on pallets 1100mm (W) X 1200mm (D) and a maximum height of 2200mm
Pallets and boards must be stored in a dry place

European assessment documentation:

EAD No. 040005-00-1201 / June 2015

Declaration of performance no.:

DoP-20/01-002-01 (according to Annex III. of regulation (EU) No. 305/2011)



Dimensions and packaging:

LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)	BOARDS PER PALLET	M ² PER PALLET	M ² PER PALLET
1100	600	30*	134	88.44	2650
1100	600	40*	100	66	2640
1100	600	50	80	52.80	2640
1100	600	60*	68	44.88	2690
1100	600	80*	50	33	2640
1100	600	100	40	26.40	2640
1100	600	120*	34	22.44	2690
1100	600	140*	30	19.80	2770
1100	600	160*	26	17.16	2740

Transport size of pallets: 1100 X 1200 X 2200 (Width X Length X Height)

*Please contact the team for bespoke sizes and dimensions. Minimum quantities apply.

European technical assessment: European technical assessment 16/0947

Technical Details:

Essential Characteristics:	Values:	Technical specifications:
Bulk density	85-115* KG	EN1602
Product Composition: Hemp Fibre Binding fibres (PES BiCo)	Hemp fibres 85** % Binding fibres (PES BiCo) 15%	
Thermal Properties: Declared thermal conductivity λ_D	0.039 W/m.K	EAD 04005-00-1201 - Annex A EN ISO 10456
Reaction to fire: Class of reaction to fire	Class E	EAD 040005-00-1201 EN 13501-1 + A1
Reaction to moisture: Water vapour resistance μ	≤ 2	EAD 040005-00-1201 EN 12086
Sound absorption: Acoustic absorption index a_w Class of sound absorption	1.00 CLASS A	EAD 040005-00-1201 EN ISO 354; EN ISO 11654
Geometry: Width Length Thickness - tolerance class Squareness Flatness	+1.5% +2.0% T3 $\leq 5\text{mm/m}$ $\leq 6\text{mm}$	EN 822 EN 822 EN 822; EN 13171 +A1 EN 824 EN 825
Mechanical properties: compressive stress at 10% deformation tensile strength parallel to faces - longitudinal tensile strength parallel to faces - transversely	≤ 25 kPa ≤ 100 kPa ≤ 15 kPa	EAD 040005-00-1201; EN 826 EAD 040005-00-1201; EN 1608 EAD 040005-00-1201; EN 1608
Carbon (net storage)	-1.257 kgCO ₂ eq/kg	

