HEMSPAN®
BIO FLEX

HEMP INSULATION

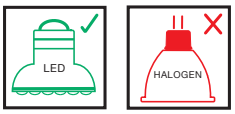
TECHNICAL SPECIFICATIONS

Flexible, eco-friendly, insulation batts made from technical hemp fibre.

Bio Flex insulation is ideally suited for external, thermal or acoustic insulation.

The advantages of Bio Flex batts are their very low water vapour diffusion resistance and excellent thermal and acoustic insulation properties.

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



Use as thermal and acoustic insulation for:	Pitched roofs between, under and above rafters Between floor joists Internal acoustic wall insulation Inserted into ceiling frames and suspended soffits. Partition and cavity walls
Advantages of our hemp insulation:	Natural and sustainable Excellent thermal insulation properties Excellent acoustic insulation properties Low water vapour diffusion resistance Safe and hygenic, supporting a healthy living environment Fast and simple assembly Ability to adapt to the most complicated construction shapes
Packaging, storage and transportation:	Batts are packed in bags with a maximum height of 600mm per package. They are then stored on pallets 1100mm (w) X1200mm (d) and a maximum height of 2600mm Pallets and boards must stored in a dry place
European assessment documentation:	EAD No. 040005-00-1201 / June 2015
Declaration of performance number:	DoP-20/01-002-01 (according to Annex III. of regulation (EU) No. 305/2011)

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Dimensions and packaging:

LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)	BOARDS PER PACK	M² PER PACK	PACKS PER PALLET	M² PER PALLET	M³ PER PALLET
1100	600	40*	12	7.92	10	79.20	3168
1100	600	50	10	6.60	10	66.00	3300
1100	600	60*	8	5.28	10	52.80	3168
1100	600	80*	6	3.96	10	39.60	3168
1100	600	100	5	3.30	10	33.00	3300
1100	600	120*	4	2.64	10	26.40	3168
1100	600	140*	4	2.64	8	21.12	2958
1100	600	160*	3	1.98	10	19.80	3168
1100	600	180*	3	1.98	8	15.84	2851

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	30-40*kg	EN1602
Product composition:	Hemp fibres 85%** Binding fibres (PES BiCo)	
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
Sound absorption: Acoustic absorption index a_w Class of sound absorption	0.70 CLASS C	EAD 040005-00-1201 EN ISO 354; EN ISO 11654
Geometry: Width Length Thickness - tolerance class	+1.5% +2.0% T3	EN 822 EN 822 EN 823; EN 13171 +A1
Carbon (net storage)	-0.377kgCO_2eq/kg	

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