

DUNAGRO 

Prefab Hemp Construction



Flexible, light, strong and
ECO-friendly Hemp
insulation mats

The best
ecological
basis
for a
comfortable
home

The applicability of our hemp insulation mats:

The major benefits of our Dun Agro hemp insulation:

- Natural and ECO-friendly insulation for the construction industry.
 - 100% recyclable.
- Excellent thermic and acoustic isolation properties.
 - Retention walls in combination with cavity walls.
 - Material with low water vapour resistance.
- Clean and responsible materials for a healthy living environment.
- Easily processable, simple and easy construction, no irritation when touched or breathed in.
- Easily adaptable to the most complicated methods of construction.
 - CO₂ negative.
 - No pesticides are required for the cultivation of hemp fibre.

Applications:

Flexible and clamp-proof insulation between rafters and wooden frameworks in roofs, walls and ceilings.
 Insulation of hollow spaces between partition walls, retention walls and installation spaces.

Packaging, storage and transport:

- The mats are packaged in polyethylene bags with a maximum height of 600 mm per pack and are stored on a pallet measuring 1100(W) x 1200(D) and a maximum height of 2600 mm.
 - Packs should be stored in a dry environment.
- Packs must be shipped in covered transport to protect the insulation material from moisture.

European Assessment Document:

EAD No. 040005-00-1201/Juni 2015

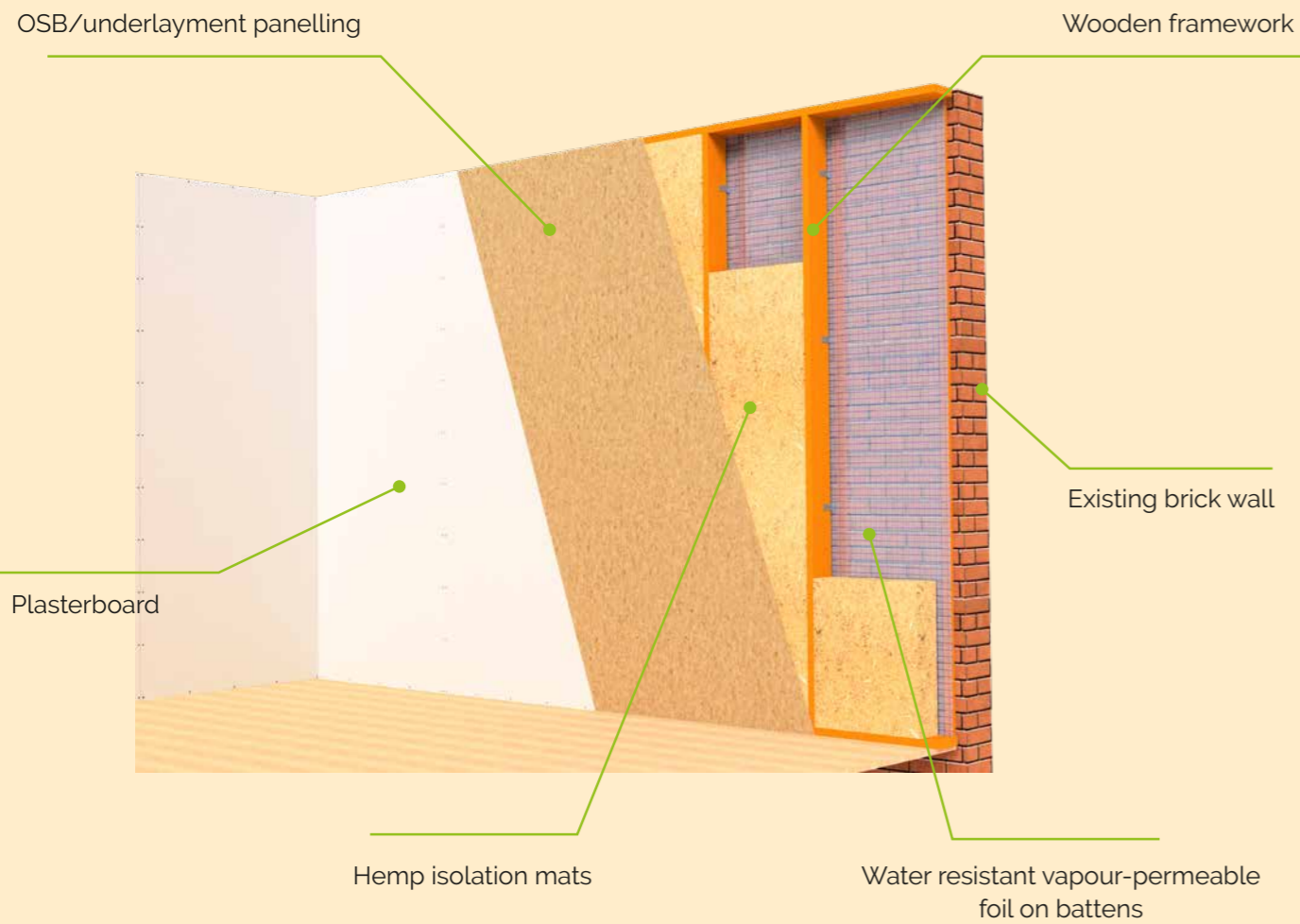
Declaration of Performance number:

DoP-23/67/001 (according to Annex III. of Regulation (EU) No. 305/2011)

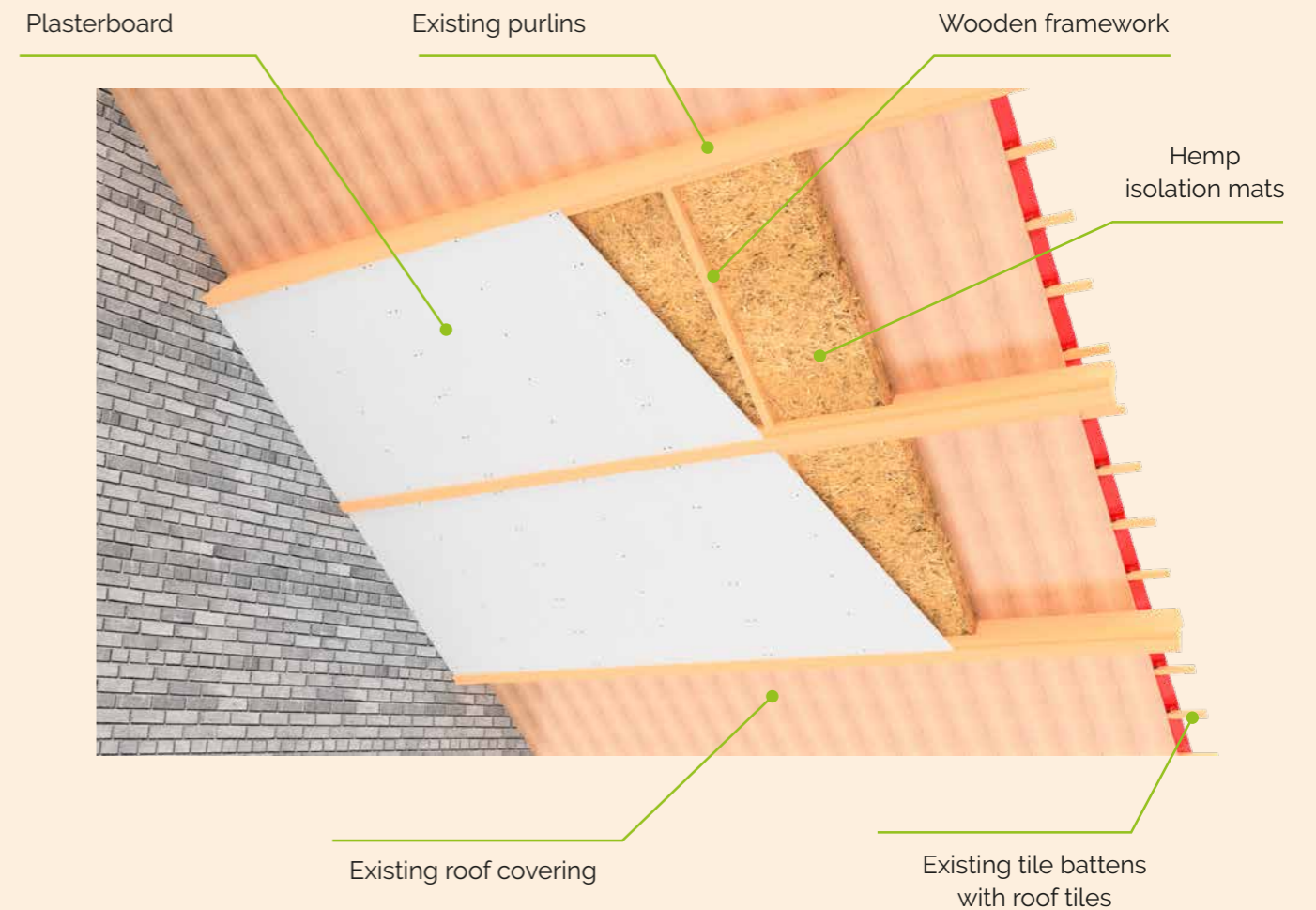
Retention walls in combination with cavity walls.



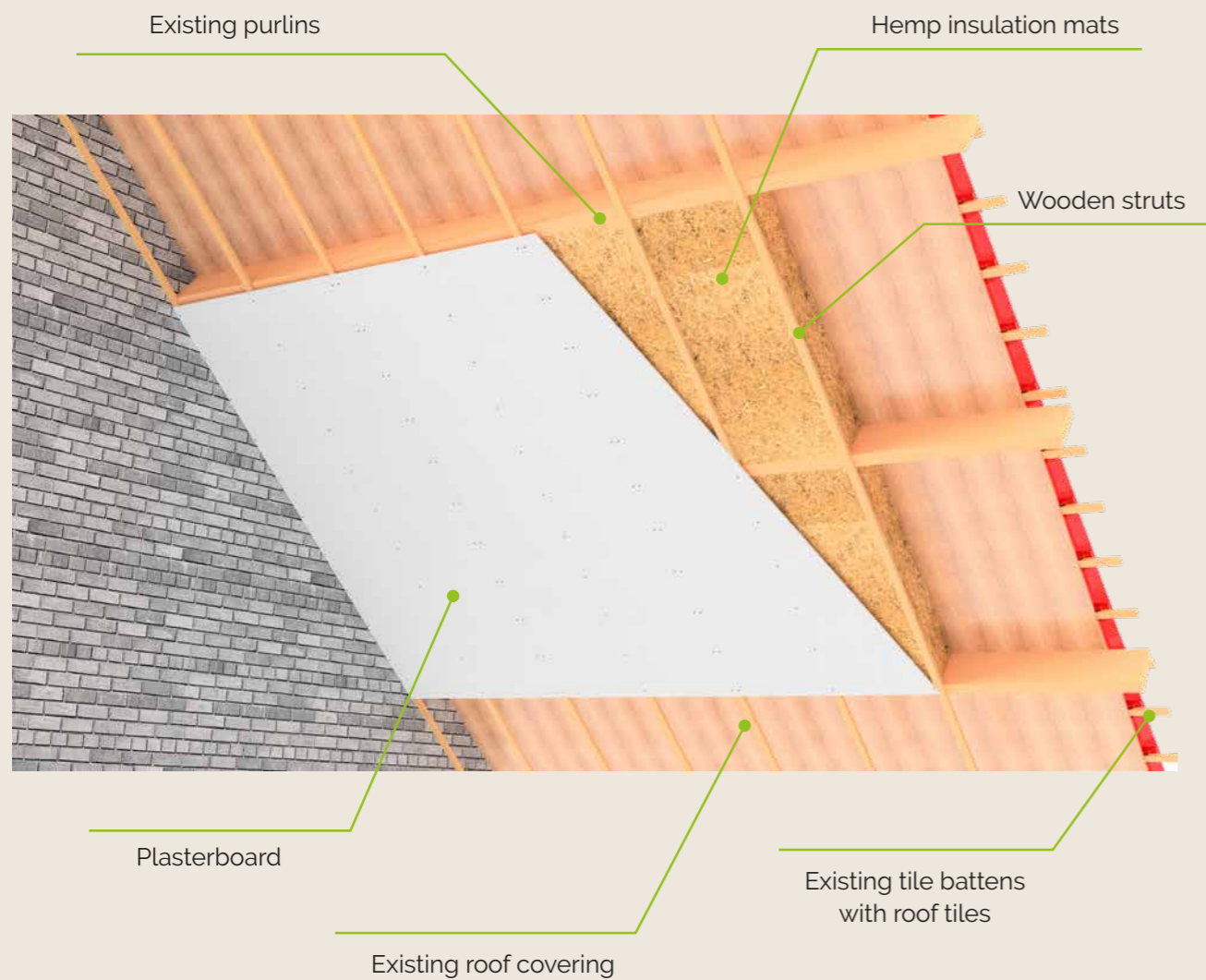
Retention walls in combination with brick wall.



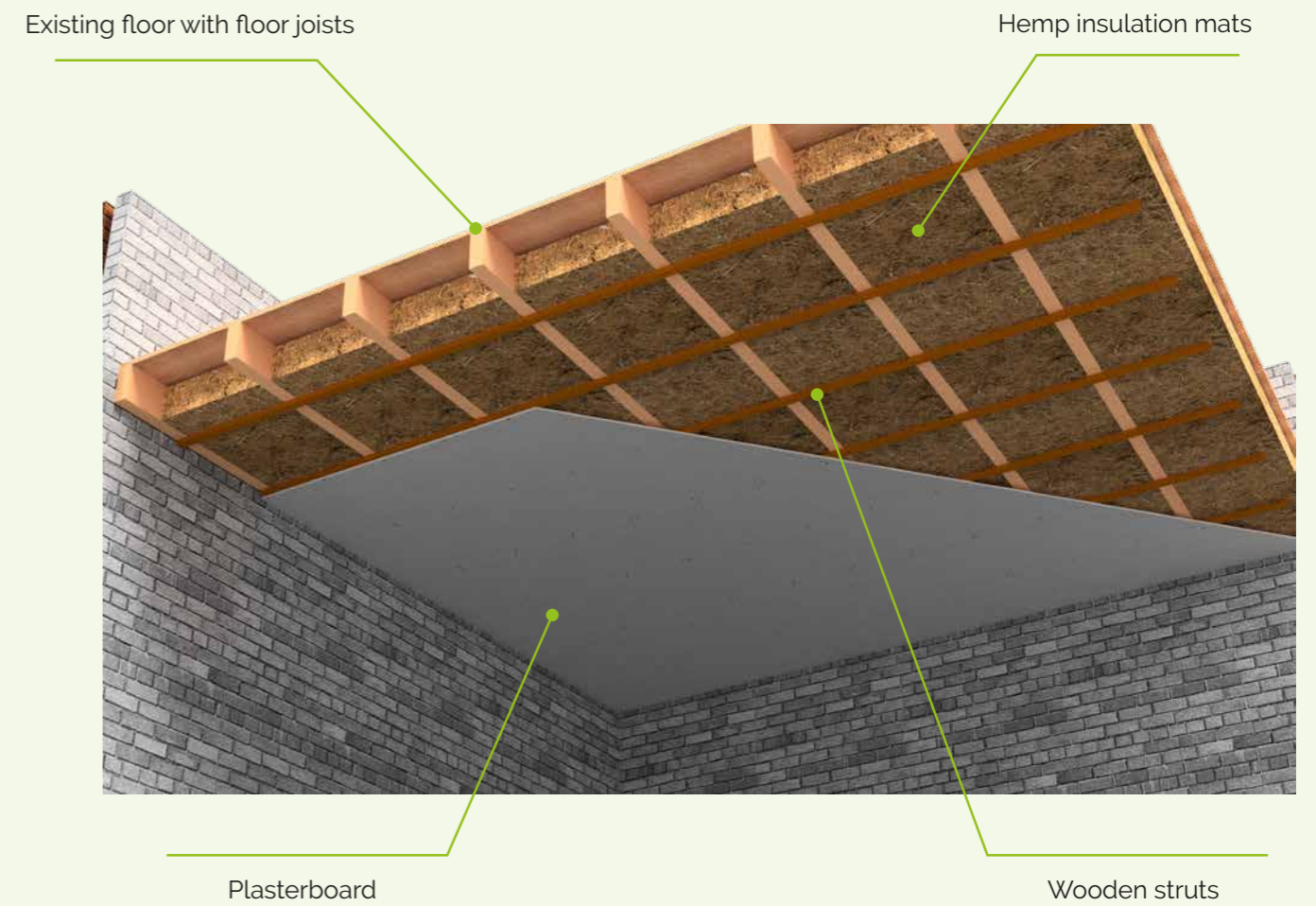
Pitched roof between purlins, finishing over purlins.



Pitched roof between purlins, finishing over purlins.



Storey floors and/or flat roofs.



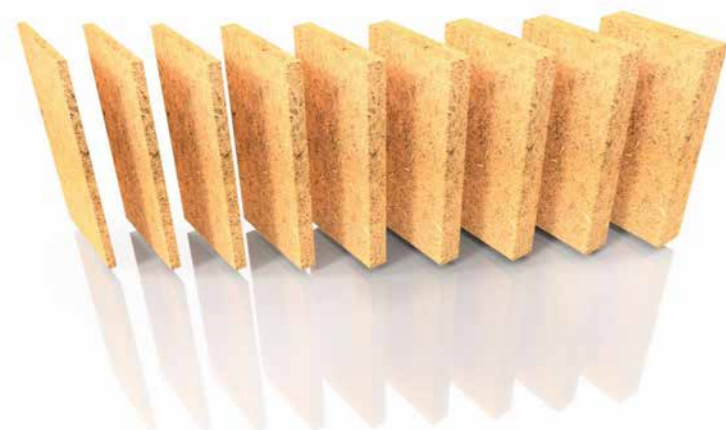
Easy and **ECO-friendly** construction with hemp insulation mats



The hemp insulation mat is a flexible, light, sturdy and eco-friendly insulation panel, made of industrial hemp fibre. Our product possesses excellent thermic and acoustic isolation properties and is the perfect choice for the construction industry. The mats have low water vapour resistance which makes them perfect for use in diffuse open constructions. These characteristics allow us to completely replace insulation materials such as polystyrene, glass or rockwool. The hemp insulation mats contribute to the creation of a healthy living environment.

Length	Width	Thickness	Rd- value	Panels per pack	M ² per pack	Packs per pallet	M ² per pallet	M ³ per pallet
Mm	Mm	Mm	m ² K/W	pieces	M ²	pieces	M ²	M ³
1100	600	30	0,769	16	10,56	10	105,60	3,168
1100	600	40	1,025	12	7,92	10	79,20	3,168
1100	600	50	1,282	10	6,60	10	66,00	3,300
1100	600	60	1,538	8	5,28	10	52,80	3,168
1100	600	80	2,051	6	3,96	10	39,60	3,168
1100	600	100	2,564	5	3,30	10	33,00	3,3300
1100	600	120	3,077	4	2,64	10	26,40	3,168
1100	600	140	3,590	4	2,64	8	21,12	2,9568
1100	600	160	4,103	3	1,98	10	19,80	3,168
1100	600	180	4,615	3	1,98	8	15,84	2,8512

Pallet dimensions for transport: 1100 x 1200 x 2600 mm (width x length x height). Please contact us for the dimensions of made-to-measure insulation panes.



The best for you, your home, and our planet

Main properties:	Values:	Unit:	Harmonised technical specifications:
Bulk density	30 – 40*	Kg	EN 1602
Product composition:			
- Hemp fibre	85**	%	
- Binding fibres (PES BiCo) recycled	15	%	
Thermic properties:			
- Thermic conductivity	0,039	W/m.K	EAD 040005-00-1201 - Annex A EN ISO 10456
Fire resistance:			
- Fire rating	Class E		DIN EN 13501-1
	Class B2		DIN 4102-1
Reaction to vapour:			
- Resistance to water vapour μ	≤ 2		EAD 040005-00-1201 EN 12086
Sound absorption:			
- Acoustic absorption index	0,70		EAD 040005-00-1201
- Sound absorption class	Class C		EN ISO 354; EN ISO 11654
Dimensions:			
- Width	± 1,5		EN 822
- Length	± 2,0		EN 822
- Thickness – tolerance class	T3		EN 823; EN 13171+A1

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



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