



HEMP BLOCK AUSTRALIA

Hemp BLOCK LB 300 is a construction system that consists of hempcrete blocks that are dry-bonded and serve as formwork and filler to a reinforced concrete column / beam structure.

Composition

The hempcrete is composed of hemp (the stem or wood of hemp) and prompt natural cement (rock fired at low temperature).

Hemp wood: 84%

Prompt cement : 16%

Installation and construction

This system, designed to optimize construction sites, saves considerable installation time :

- Block placing with out mortar
- Ease of installation
- No Insulation needed
- No installation or design constraints

Composition

Industrial Hemp	Prompt Cement
<ul style="list-style-type: none">- Plant with zero waist- No pestcontrol /Roundup needed- Little irrigation needed- Promotes biodiversity- Does not deplete the earth- Can use fallow or uncultivated land	<ul style="list-style-type: none">- Captures CO2- Excellent durability- Cured by l temperature- A unique mineralogical composition, compatible with the plant
Hempcrete	
<ul style="list-style-type: none">- Not steamed or baked, dries naturally- Hempcrete is 100% renewable- Light wheight	

Properties

The Hemp BLOCK LB 300 construction system offers high performances:

- Thermal resistance
- Sequestering CO2
- Hydroscopic regulation
- Fire resistant
- Acoustic performance
- Loadbearing and insulation in one

Hemp Block Australia

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Technical characteristics

Dimensions	600 x 308 x 300 mm
Weight	18 kg
Rendement	only 5,4 blocks/m ²
Wall thickness	300 mm
Thermal resistance (m ² K/W λ sec)	block walls: R 4.2 and R 4.8 with inner and outer render
Reaction to fire	B-S1, d0 Compliant to Australian Standards
Fire resistance FRL	
Resistance to impact	Excellent
Dew point	Non
Acoustic performance	Rw 43 db
Sequestering CO ²	4,5 T for one 130 m ² house
Carbon impact of blocks	0.889 kg CO ₂ /m ²
Phase shift	Between 10 and 18 Hours
Life duration of the blocks	100 year
Equivalent thickness of sd diffusion	0,6 m (relative humidity 100%)- 1,2 m (relative humidity 0%)
Air tightness	0,30 m ³ /h.m ²