



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

## 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 <sup>2</sup>
Wall thickness	300 mm
Thermal resistance (m <sup>2</sup> 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 <sup>2</sup>	4,5 T for one 130 m <sup>2</sup> house
Carbon impact of blocks	0.889 kg CO <sub>2</sub> /m <sup>2</sup>
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 <sup>3</sup> /h.m <sup>2</sup>