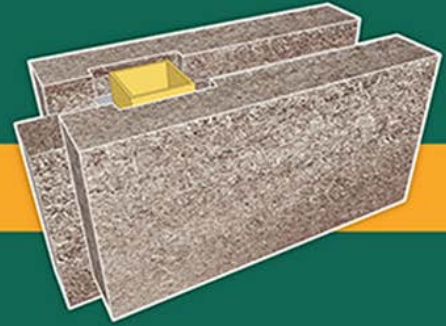




HEMPBLOCK[®]
INTERNATIONAL



BIO-BASED CONSTRUCTION!

Why Choose HempBLOCKs?

- Online material estimation tool
- Fast, smart design & engineering services
- Fire, mould & pest resistant
- HempBLOCK installer training

Benefits for You and Your Clients

- **Faster Builds:** Interlocking mortar-less block system
- **Eco-Friendly:** Natural, low waste, carbon-negative
- **Durable:** High thermal mass, breathes, excellent air tightness
- **Safe & Healthy:** VOC free means healthy indoor living



Ready To Build Fast, Clean & GREEN?

**LB300 HEMPBLOCK BUILD SYSTEM
KEY CLASSIFICATIONS & PERFORMANCE DATA**

Exceptional Performance & Life Span



Dimensions - mm	300(w) x 308(h) x 600(l)	Air Tightness (Passive Performance)	0.30 m ³ /h.m ²
Weight	18 kilograms	Dew Point	None
Efficiency	5.4 blocks/m ²	Air Quality	A+
Wall Thickness	300mm + render	Water Buffer Value	2.35 g / (m ² .% RH)
Thermal Resistance (m ² K/W λ sec)	4.61 m ² .K/W (300mm)	Water Vapor Permeability	μ < 35
Thermal Conductivity	0.065 W/(m.k)	Embodied CO ² /m ²	-56kg CO ₂ e/m ²
Acoustic Resistance	Rw (C;Ctr) 43dB (-1;-2)	HempBLOCK Wall Life Span	100 Years Minimum
Reaction to Fire Classification	A1 (non combustible)	Mould and Pests	Resistant
Fire Resistance Level (FRL)	180/180/180 (w/ render)	Volatile Organic Compounds (VOC's)	Nil
Resistance to Impact	Excellent	Equivalent Thickness of Sd Diffusion	0.6m (RH 100%) - 1.2m (RH 0%)





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HEMPBLOCK BUILD & CONCRETE BLOCK BUILD SYSTEMS COMPARED - EMBODIED CO2

HEMPBLOCK BUILD SYSTEM COMPARED
TO CONCRETE BLOCK BUILD SYSTEM
<< ENVIRONMENTAL IMPACT >>

**Total Building Materials
Embodied Emissions**
+2.82 tonnes CO2

Mortarless HempBLOCKS
Fibre Reinforced Polymer (Posts & Beams)
Perlite Cement
Lime Render
Fire, Pest & Mold Resistant
Highly Insulative

**HempBLOCK Walling
Systems Removes CO2
from the Atomphere**

**Positive
Environmental
Impact**

**-56kg
CO2/m2
of Wall**

**+64kg
CO2/m2
of Wall**

**Negative
Environmental
Impact**

**Reinforced Steel Concrete
Walling Systems Adds CO2
to the Atomphere**

Continuous Air Barrier And Smart Vapor Retarder
Gyprock Drywall - Mold Resistant
Render/Stucco (Cement)
Timber Battens
Mortar Premix for Blocks
OSB 3 Timber Sheathing
Insulation Batts - Fire Resistant
Concrete Blocks
Steel Reinforced Concrete (Posts and Beams)

**Total Building Materials
Embodied Emissions**
+8.93 tonnes CO2

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