



# RespiraBlock

The **RespiraBlock** provides the highest thermal performance of any hempcrete block available on the market,

A specific and **unique** composition of hemp, dolomitic lime and probiotics provides an **unmatched** thermal **performance** with exceptionally easy and affordable installation.

## Characteristics

- ✓ High thermal and acoustic comfort
- ✓ **Vapour open**
- ✓ Resistant to fire, frost, insects and rodents
- ✓ **Carbon negative and 100% natural ingredients**
- ✓ Hypo-allergenic, no VOC and combats Sick Building Syndrome

## Applications

- ✓ Construction of insulating and breathable masonry walls
- ✓ **External wall insulation system for existing buildings**
- ✓ Internal wall insulation system for existing buildings
- ✓ **Internal partitions with acoustic insulation**

## Laying

The blocks are laid in a thin bed of mortar composed of hemp and lime according to the proportions indicated in the installation manual.

**A handsaw, reciprocating saw or alligator saw can be used to cut the blocks.**

Internal surfaces and partition walls can be finished with a lime mortar, a lime wash or a clear coat. Please refer to our design Booklet for further finishing information.

**External facing blockwork must be coated with a lime plaster or render.**

NB. [height] +/- 1 cm	RP8	RP12	RP20	RP30
Sizes - Length, Height, Thickness - cm	50x20x8	50x20x12	50x25x20	50x20x30
Density - Kg/m3 dry	310	310	310	310
Conductivity - W/mk LAMBDA λ	0,048	0,048	0,048	0,048
R-Value	R-1.84	R-2.67	R-4.34	R-6.42
Total thermal resistance (Rt) - m²K/W	1,84	2,67	4,34	6,42
Thermal offset without plaster	2h 49'	5h 24'	10h 44'	17h 22'
Specific heat capacity - J/KgK	1280	1280	1280	1280
Vapour permeability - μ	4,5	4,5	4,5	4,5
Sound absorption coefficient (aw)	1 - CLASSA	1 - CLASSA	1 - CLASSA	1 - CLASSA
Soundproofing index (Rw) - dB	-	-	-	-
Compressive strength - N/mm2	0,8	0,8	0,9	0,9
Shear traction with rawplug - kN	2,067	2,067	2,067	2,067
Orthogonal traction with rawplug - kN	2,734	2,734	2,734	2,734
Reaction to fire with plaster	B - s1, d0			
Fire resistance without plaster - min	-	BAL-29	-	-

