

# Naturally Efficient.

Building, retrofitting and partitioning  
easily with hemp blocks

- ✓ Biobased, breathable, insulating & versatile
- ✓ A positive environmental impact: stores CO<sub>2</sub>
- ✓ A recognised and certified material

# Why choose IsoHemp hemp blocks?



## Thermal comfort

Maintains a stable indoor temperature and reduces heating and cooling requirements by up to 70%.



## Moisture regulation

Thanks to its water vapour permeability, it ensures a healthy, balanced indoor climate.



## Acoustic insulation

Absorbs sound and reduces noise pollution for optimum comfort.



## Fire resistance

Non-flammable and with no toxic emissions, it guarantees fire resistance for up to 240 minutes.



## 100% natural

Stores CO<sub>2</sub>, contributes to low-carbon construction and is part of an eco-responsible approach.

## Technical data



### Thermal resistance

from 1 to 5 m<sup>2</sup> K/W



### Thermal conductivity

$\lambda = 0.071$  W/mK



### Fire resistance

from 45 to 240 minutes



### Water vapour resistance

2.8  $\mu$



### Phase shift

from 4 to 24 hours



### Acoustics

Attenuation from 37 to 45 dB



### Compressive strength

0.2 MPa

## Wide range

comes in 8 thicknesses and technical blocks



# Syst'HEMP.

Versatility and adaptability  
Solutions to suit all your projects



**BUILD**

## > Syst'HEMP Pro.

Biosourced monolithic wall combining structure and insulation.

## > Syst'HEMP Wood.

Inertia and summer comfort for timber constructions.

## > Syst'HEMP Building.

Low-carbon envelope for large-scale buildings.



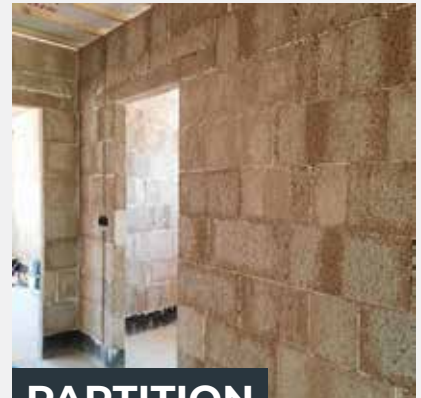
**RETROFIT**

## > Syst'HEMP Reno.

Breathable interior insulation.

## > Syst'HEMP Façade.

Durable external insulation.



**PARTITION**

& OTHER APPLICATIONS

## > Syst'HEMP Partition.

Internal, industrial and fireproof partitions.

## > Syst'HEMP Specific.

Tailor-made solutions for technical projects, floors, listed buildings, etc.



## Summary table

Technical characteristics	Origin range						Plus range		Unit
Block	ISH7	ISH9	ISH12	ISH15	ISH20	ISH25	ISH30	ISH36	
Thickness	7,5	9	12	15	20	25	30	36	cm
Modular dimensions	60 x 30						60 x 20		cm
Apparent density	367*		320*						kg/m <sup>3</sup>
Maximum weight of a block	5,3	5,9	7,9	9,9	13,2	16,5	13,1	15,8	kg
Masonry weight	0,32	0,36	0,48	0,60	0,80	1,00	1,15	1,38	kN/m <sup>2</sup>
Dry thermal resistance	1,12	1,34	1,79	2,24	3	3,73	4,48	5,37	m <sup>2</sup> K/W
Thermal resistance at 50% Relative humidity	1,00	1,27	1,69	2,11	2,82	3,52	4,23	5,07	m <sup>2</sup> K/W
Thermal conductivity $\lambda$	0,080		0,071						W/mK
Water vapour resistance factor	2,8								$\mu$
Phase shift	4,9	5,9	7,9	9,8	13,1****	16,4****	19,7****	23,6****	h
Sound attenuation index**	37 (0;-2)	37 (-1;-3)	38 (-1;-3)	38 (0;-3)	40 (-1;-5)	41 (-1;-5)	42 (-1;-5)	44 (-1;-6)	dB
Coefficient of sound absorption $\alpha$	0,85								
Reaction to fire	B, s1, d0								
Fire resistance***	45		60		120		240		min

\* +/-10% - bulk density at delivery

\*\* Hemp block masonry with rendering on one side - Simulated value

\*\*\* Hemp block masonry with rendering on fire side

\*\*\*\* Insignificant in view of damping greater than 300

### Need some help?

# Let's talk about your project.

## At your side

- Expertise and technical support: help with sizing and appropriate solutions.
- Training & implementation assistance: for optimised installation.
- Sustainable & local manufacturing: a strong commitment to the environment.

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