

Naturally Efficient.

Building, retrofitting and partitioning
easily with hemp blocks

- ✓ Biobased, breathable, insulating & versatile
- ✓ A positive environmental impact: stores CO₂
- ✓ A recognised and certified material

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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 CO₂, contributes to low-carbon construction and is part of an eco-responsible approach.

Technical data



Thermal resistance

from 1 to 5 m² K/W



Thermal conductivity

$\lambda = 0.071$ W/mK



Fire resistance

from 45 to 240 minutes



Water vapour resistance

2.8 μ



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.



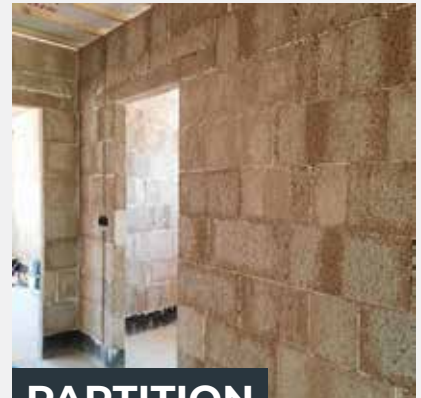
RETROFIT

› 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 ³
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 ²
Dry thermal resistance	1,12	1,34	1,79	2,24	3	3,73	4,48	5,37	m ² 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 ² K/W
Thermal conductivity λ	0,080		0,071						W/mK
Water vapour resistance factor	2,8								μ
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 α	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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