

Syst'**HEMP** Reno.

Breathable interior insulation



✓ **Biosourced,
breathable,
insulating &
versatile**

Certified and recognised.



A successful interior renovation must not be taken lightly.

It respects:



The character
of the building



The health and comfort
of its occupants



Nature and the
environment



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Comfort, breathability and performance, hemp blocks adapt to any renovation project. From protected historic buildings to timber-framed houses and stone walls, they ensure optimal interior insulation for generations to come.

With IsoHemp, modernise your space while preserving its character.

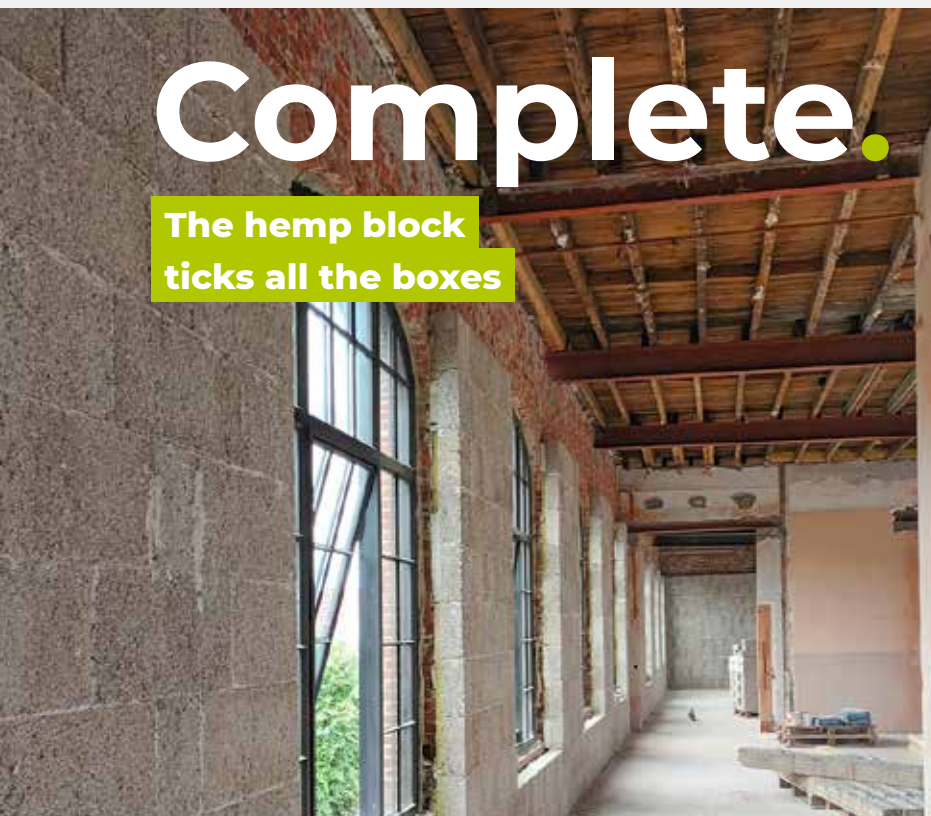


We absolutely didn't want a 'thermos house'! We were instantly charmed by this material. It tells a different story than conventional insulations."

Pascal, architect,
owner of an 18th-century barn

Complete.

**The hemp block
ticks all the boxes**



- ✓ **Winter comfort**
reduce your consumption
- ✓ **Summer comfort**
inertia and phase shift for natural coolness
- ✓ **Self-regulated humidity**
no mould, neither too dry nor too humid air
- ✓ **Healthy interior**
No harmful components (VOC)
- ✓ **Acoustic comfort**
cosy ambiance (reduction of noise pollution)
- ✓ **Absolute safety**
high fire resistance, emits no toxic smoke
- ✓ **100% natural**
biosourced, zero carbon
- ✓ **Exceptional lifespan**
150 years, 6x more than a conventional insulator

Unique.

A unique indoor comfort,
summer and winter



A complete solution easy to implement

1 IsoHemp Origin

Choose from a full
range from 7 to 25 cm
thickness



2 IsoHemp Mix

Our ready-to-use dry
plant-based insulating
granulate



3 IsoHemp Technic Lintels

Facilitate your openings
and window passages



4 IsoHemp Essential

Choose a breathable
solution such as our
PCS Render



Take a leap in comfort

SYST'HEMP RENO SOLUTION - ISOHEMP BLOCK + HL MIX INFILL						
	ESSENTIAL		COMFORT		PERFORMANCE	Unit
IsoHemp block thickness	9	12	15	20	25	cm
HL Mix granulate	3					cm
 THERMAL COMFORT	★		★★		★★★	
THERMAL RESISTANCE R'	1,86	2,28	2,71	3,41	4,11	m²K/W
Thermal conductivity λ	0,071					W/mK
Thermal phase shift	8	9,8	Insignificant			h
Damping**	72	86	>100	>100	>100	
Specific heat capacity c	1 600					J/KgK
 MOISTURE REGULATION	★★★					
Permeability μ	2,8					
Equivalent diffusion thickness Sd	0,34	0,42	0,50	0,64	0,78	m
Sorption-desorption W23/50	0,012					m³/m³
 ACOUSTIC COMFORT	★★★					
Acoustic insulation index Rw***	37(-1;-3)	38(-1;-3)	38(0;-3)	40(-1;-5)	41(-1;-5)	dB
Acoustic absorption coefficient α	0,85					
 FIRE RESISTANCE	★★	★★★				
Fire behaviour	B,s1,d0					
El fire resistance with 12 mm PCS	45	60		120		min
 100% DURABLE	★★★					
Biosourced material	Hemp – Lime – Water					
Service life	150					years

* Includes $R_e + R_i = 0.17 m^2K/W$

** The values were simulated on a standard retrofit wall in an existing building.

The attenuation describes the extent to which the wave is dampened by the wall. This value explains why, at a thickness of 15 cm, the phase shift is insignificant.

*** Values specific to IsoHemp blocks.



Want to move forward with your project?

Let's talk.

IsoHemp by your side

Pre-studies

Analysis of your needs and plans.

Specification support

Assistance with sizing, technical advice.

Training & assistance

Implementation guidance.

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