

# Syst'HEMP Pro.

Build zero carbon with a  
biosourced monowall solution

1m<sup>2</sup> of IsoHemp  
36 blocks  
= 51,87 kg CO<sub>2</sub>  
**STORED.**

✓ Biosourced,  
breathable,  
insulating &  
versatile

Certified and recognised .

**ATEX**  
DE CAS A  
N°3211\_V2

**atg**  
3169



Why choose  
the Syst'HEMP Pro ?

# Complete.

The hemp block  
ticks all the boxes



- ✔ **Monowall building system**  
reduce the steps of your construction process
- ✔ **Winter comfort**  
minimize your consumption
- ✔ **Summer comfort**  
Inertia and phase shift for natural coolness
- ✔ **Healthy interior**  
No harmful compounds (VOCs)
- ✔ **Absolute safety**  
highly fire-resistant, emits no toxic smoke
- ✔ **Exceptional lifespan**  
150 years, 6× longer than conventional insulation
- ✔ **Traditional installation**  
thin-joint adhesive application

“ The Syst'HEMP Pro allowed us to build a high-performance envelope without adding additional insulation. Quick to install, with remarkable thermal inertia... and a wall ready to last more than a century”.

Marc, real estate developer and contractor

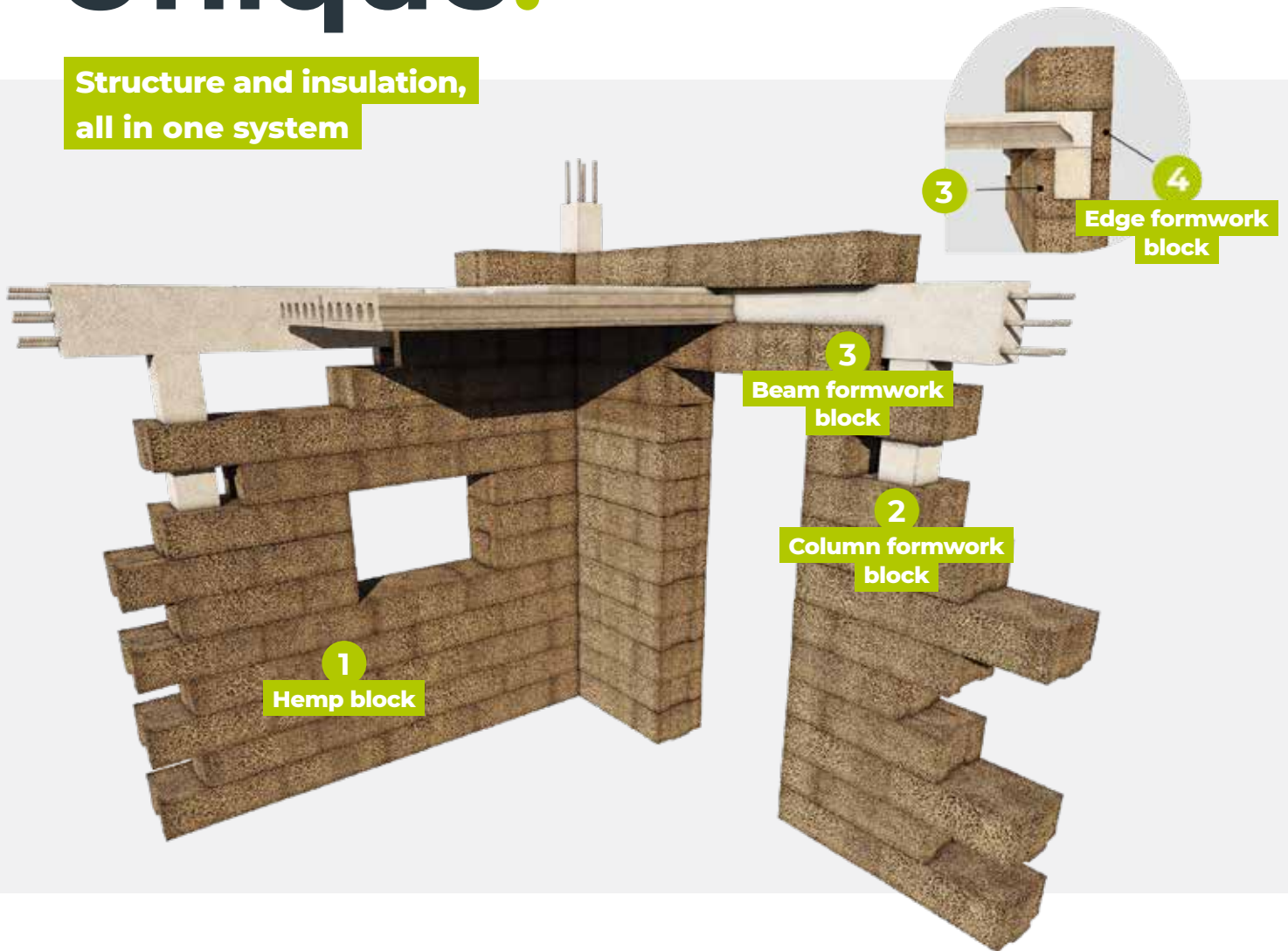
## Applications



- Detached houses
- Public buildings
- Terraced houses
- Small apartment blocks
- Industrial buildings

# Unique.

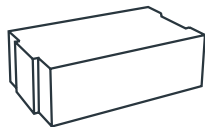
Structure and insulation,  
all in one system



A complete solution,  
easy to implement

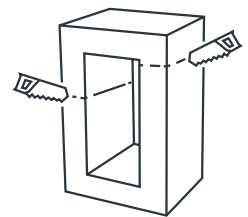
## 1 IsoHemp Plus

Our hemp blocks from the Plus range come in 30 and 36 cm thickness.



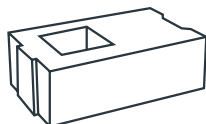
## 3 IsoHemp Technic U

Your reinforced concrete beams poured directly into our Technic U blocks.



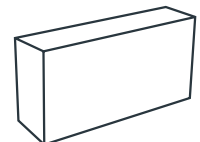
## 2 IsoHemp Technic P

Your reinforced concrete columns poured directly into our Technic P blocks.








## 4 IsoHemp Origin

Use of IsoHemp blocks as edge formwork block to treat thermal bridges.



# Take an **energy leap**

	LOW ENERGY	VERY LOW ENERGY	PASSIVE	Unit
<b>IsoHemp block thickness</b>	<b>30</b>	<b>36</b>	<b>36 + 12</b>	cm
 <b>THERMAL COMFORT</b>	★★★	★★★★	★★★★★	
<b>THERMAL RESISTANCE R'</b>	4,427	5,272	6,962	m <sup>2</sup> K/W
<b>THERMAL TRANSMITTANCE U</b>	0,226	0,19	0,144	W:m <sup>2</sup> K
Thermal conductivity λ		0,071		W/mK
Thermal phase shift		Maximal		h
Damping**		> 100		
Specific heat capacity c		1600		J/KgK
 <b>MOISTURE REGULATION</b>		★★★		
Permeability μ		2,8		
Equivalent diffusion thickness Sd	0,84	1	1,344	m
Sorption-desorption W23/50		0,012		m <sup>3</sup> /m <sup>3</sup>
 <b>ACOUSTIC COMFORT</b>		★★★		
Acoustic insulation index R <sub>w</sub>	42 (-1;-5)	44 (-1;-6)	46 (-1;-4)	dB
Acoustic absorption coefficient α		0,85		
 <b>FIRE RESISTANCE</b>		★★★		
Fire behaviour		B,s1,d0		
EI fire resistance with 12 mm PCS		240		min
 <b>100% DURABLE</b>		★★★		
Biosourced material		Hemp – Lime – Water		
Service life		150		years

\* Compris R<sub>e</sub>+R<sub>i</sub> = 0,17m<sup>2</sup>K/W

\*\* L'amortissement décrit à quel point l'onde de température est atténuée par la paroi.



**Ready 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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