



# Gnome Homes

Hempcrete+

Proud to build with:



## The Natural & Alternative Building Solution



### Everybody wants a Hempcrete house. They just don't know it yet.

One of the best geo-polymers known, Hempcrete has begun its surge as a building material in North American homes. Natural, renewable, and non-toxic, the mixture of hemp “hurd” and lime creates a masonry-type material which provides a plethora of living benefits. Through the use of “thermal mass” hempcrete works to reduce heating costs by regulating temperature. It improves structural integrity and longevity by suppressing moulds, pests, and other environmental factors which typically threaten modern housing; including fire. Furthermore the material improves the quality of the living space by purifying the air, balancing humidity, and creating a “grounding” effect for your body’s energy systems.

1

#### THERMAL MASS

The material acts as a thermal battery to minimize heating costs.

2

#### FIRE RESISTANT

Naturally, hempcrete works to absorb energy thus making it virtually fireproof\*

3

#### ECO

Non-toxic and purifying it improves the quality of our living spaces in multiple ways.



#### DiVita™ Precast Blocks

Time saving and engineer friendly solution.



#### Cast In Place

Built to fit, yet time and labour intensive.



#### Alternative Building

Skoolies, Tiny Homes, Cabins, Permaculture integration, Adobe Cob, Living Roofs, and more!

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## Thermal Mass

It's like a battery for your comfort.

Modern HVAC focus on maintaining your homes temperature through the air. The problem being that air doesn't hold this energy well, causing it to cool quickly if not continuously heated; costing more money. The process of thermal mass is simple, using a denser material (earth) to hold heat in a space so when your heat generator is "off" the warmth releases back into the living space, keeping it warmer longer, thus reducing heating costs.

## Fire Resistant

Because it's not IF the forest burns, it's WHEN.

Being rock, the lime mortar that makes hemp hempcrete is in itself fireproof. After mixing with the hurd an incredible thing happens, it becomes its own firefighter. When hempcrete is exposed to extreme temperatures (fire) it does not burn but will 'smoulder'. In doing so it releases CO2 which smothers the flame source thereby slowing and preventing further fire damage. \*We are not legally allowed to call hempcrete fireproof... yet.

## Ecological Solution

Turning "extra material" into home.

Originally a byproduct of commercial hemp production, hemp "hurd" or "shiv" is the woody core in the stem of the hemp plant. It is all that remains after producers take the seed oils, resins, and fibres for textiles from the plant. This woody fibre has a very high cellulose content (44-55%) which works to chemically strengthen the bond between the hurd and the lime mortar.



## Total Wall System

From paint to siding, simply upgraded..

With an interior and exterior lime plaster finish a hempcrete wall is a complete wall system; replacing a number of trades including Paint, drywall, mud and tape, vapour barrier, insulation, sheathing, house wrap, and siding. Being a "breathable" wall hempcrete uses the properties of thermal dynamics to balance temp and humidity in the home. This helps it maintain an exceptionally comfortable living space with much less wasted energy.



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## THE DIVITA™ PRECAST HEMPCRETE BLOCK

From the mind of Canadian hempcrete pioneer Dion Lefebvre, the DiVita hempcrete block offers a unique opportunity to bring the many benefits of hempcrete into your home. The Divita Block is uniquely designed to fit into conventional framing to speed up the permit process and code Inspections. This functional design also allows the DiVita block to be used in your home renovation to turn your typical house into a hempcrete home. Furthermore the use of a precast block eliminates the 6-week cure/dry time for hempcrete to be finished, expediting your natural building timeline.

