

Hempcrete

A simple solution to housing problems

Some common threats, health & safety risks in housing today



- ▶ Fire
- ▶ Mould
- ▶ Material offgasing
- ▶ Rodents and pests like termites/ants
- ▶ Downstream contaminants from factory produced goods
- ▶ Carbon emissions and pollution from conventional construction

What is Sick Building Syndrome (SBS)

- Sick building syndrome is used to describe occupants who experience illness and discomfort from an indoor environment.
- Although no cause is determined, it is believed to be related to toxic material offgassing found in paints, fabrics, carpets, damp insulation &/ or rotting of materials.



"Human kind has not woven the Web of life. We are but one thread in it. Whatever we do to the Web, we do to ourselves. All things are bound together. All things connect".

-Chief Seattle, 1854



Hemp offers hope

▲ Why did i choose Hempcrete?

- ✓ Fire resistant
- ✓ Mould resistant
- ✓ Pest resistant
- ✓ Earthquake resistant
- ✓ Locally produced
- ✓ Quickly renewable
- ✓ Purifies the air
- ✓ Provides an excellent *thermal mass*
- ✓ Makes use of hemp waste material
- ✓ It's carbon NEGATIVE construction
- ✓ It will sequester carbon and become petrified.

The 1 minute elevator pitch

Hempcrete offers greater health, safety, and prosperity for my agricultural community and indigenous freinds.

We can grow enough hemp to build an average house on **FIVE** acres of land in **ONE** growing season.

Hempcrete is mainly mixed with a waste product of an established textile and food industry. It can also be spread back on the farmland at the end of its wall-life to improve soil health and further close the (eco) loop of sustainability.

Hempcrete in the Raw



Efficiency

- ▶ Hemp itself has an R value of between 3-4/per wall inch
- ▶ Hempcrete has an R value of 2-3/ per wall inch.

It doesn't work like that

The "Micro project"











OPPORTUNITY

- Development of CSA approved models are being designed in Alberta.
- The first CSA approved hempcrete prefab home is currently in production in BC. This was modeled from my prototype.
- Indigenous groups throughout Canada are actively searching for housing solutions like hempcrete to improve quality of life on their settlements. I am working with representatives from Treaty 8, and an investor group to develop some local solutions.
- Northern Alberta Institute of Technology (NAIT) has contacted me in regards to an applied research project.
- Public demand is driving education & training workshops
- Investment, and public demand for green energy is high

Challenges

- ▲ Raising public awareness
- ▲ Shortage of trained workers
- ▲ Shortage of trained inspectors
- ▲ Knowledge at the municipale level
- ▲ Provincial code ammendments
- ▲ Federal code ammendments

Quality, Ethics, Comfort



Pioneering

For information about upcoming workshops, events, and projects from the **8th fire** contact Dion at 780 283 2837
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