

Description

Parkland Industrial Hemp Growers Co-op in Manitoba processes hemp. Hemp as batt insulation is just one use for this plant. Hemp batts are a natural fibre insulation made from hemp fibres. They are an effective, ecological alternative to conventional insulation.

Durability

Lifetime expectancy: Lasts 'forever' if properly installed.

Guaranteed for: Unknown.

Environmental Impact

CFC's used in production: None.

Any emissions/off-gassing from product: None.

Toxic waste produced from manufacturing: Hemp is grown without pesticides, fungicides or herbicides..

Toxic waste produced from harvesting raw materials: None.

Toxic waste produced from transportation: CO, CO2, related engine emissions.

Embodied Energy

Origin of material(s): Varies, but mainly hemp farms located in Western Canada as a result of the expense associated with growing hemp in climates and soil types found in Eastern Canada.

Location of manufacturing: Dauphin, Manitoba.

Transportation by: Insulation is transported

by truck.

Energy used in production: Unknown.

Degree of Recyclability

List of raw materials: Hemp.

List of recycled materials: Waste cotton fibres.

Recyclable materials: The final product is compostable.

Notes: Scrap materials generated during the manufacturing process would likely be able to be recycled back into the system. Final product lasts for the lifetime of a building.

Use of Renewable Resources

Method of extraction/harvesting of material: Hemp is grown on farms.

Is the method of extraction renewable: Yes.

Does the method of extraction produce toxins/waste: There is pollution from the machines used to grow and harvest hemp.

Locally or Regionally Produced

Location of raw materials: Hemp farms in Canada.

Location of production: Dauphin, Manitoba.

Distance between raw materials and production plant: Same site.

Distance between production plant and Halifax: Approximately 4,000 km.

Energy Efficiency

Increases energy efficiency: Yes.

Production methods are energy efficient

compared with similar products: Yes.

Economy of materials compared with similar products: Compared with conventional insulation materials, working with hemp does not require the use of protective clothing.

Positive Social Impact

Scale of company: Unknown.

Manufacturing plant conditions: Unknown.

Use of local/vernacular skills: The production of hemp batts relies on a farmer's knowledge of hemp farming.

Affordability

Cost of product: \$150.00/cubic meter.

Cost compared with similar products : Similar products are more affordable.

Is it affordable to budget home builders/owners: Yes.

Building Code Tips

NSBC Compliant: Yes.



Hemp Batts are a natural fibre insulation made from hemp fibres and an effective, ecological alternative to conventional insulation. Hemp processing is clean and low on dust. Hemp fibre soaks up moisture and distributes it along its fibres which results in optimal moisture regulation.

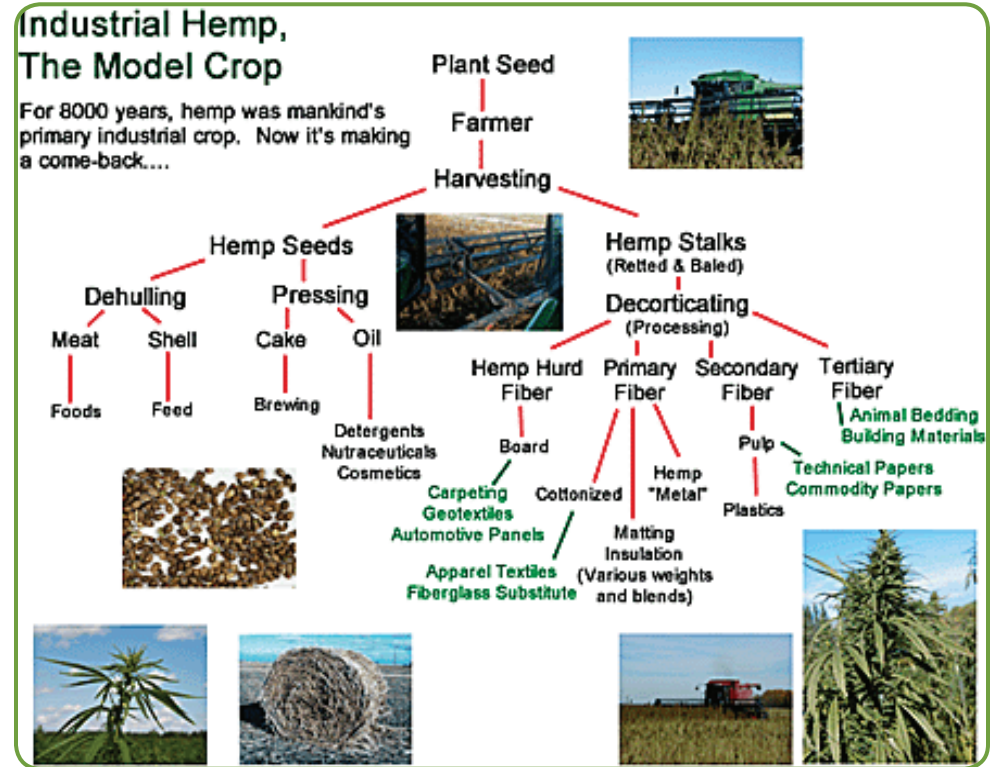
Hemp can be grown as a dual crop (seed and fiber) or for the fiber alone. If grown for dual crop, there is a multitude of uses for the oil, seed and cake. The fibre becomes secondary and is used for car panels, insulation, etc. If grown for fibre alone, the end product is a cottonized fibre used in the textile industry. The seeds are often used whole for cooking and can be crushed into an oil that replenishes the body's own natural oils. The stalk is where the fibre comes from. This means that clothing, rope and insulation all come from the same part of the plant and it is the processing that determines how thick the final material is.

Natural fibre insulations, such as hemp, require no protective clothing for safe installation. It is a durable, non-toxic, itch free insulation that comes in batts of standard thicknesses and relatively equal R-values compared to typical insulation materials.

The first hemp processing plant in Manitoba - The Co-op - is facilitating the growth and harvest of industrial hemp in the Parkland Region of Manitoba. They are seeking partners who can assist with processing the seeds and fibre and making value-added products.

References:

<http://www.pihg.net/>



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