



# Life-Cycle Assessment: Hempcrete Building

An assessment of the environmental impacts associated with all the stage's of the hempcrete building process

## Raw Materials



1. Grown hemp - absorbs CO2 as it grows
2. Binder - dehydrated lime and Metakaolin - some CO2 impacts
3. Water - to bring them all together!

## Disposal



Can be a resource for a new building by being broken apart and reused

## Distribution



If required have raw materials shipped to location as close as possible to be processed i.e., train, truck, or plane - CO2 emissions

## Use



- Creates renewable insulation
- Little to no money to upkeep
- Healthy air quality

## Processing



Simple Recipe, mix well:  
4 parts hemp hurd + 1 part lime binder + 1 part water

## Building Process



1. Pack down the hempcrete in 4 to 6 inches layers
2. Let set between timber frames until solid
3. Can be applied to walls, floor, ceiling and windows as an excellent source of natural insulation

