Hempitecture is the only quality construction company in the US focused on building with hempcrete.

HEMPCRETE: An insulating bioaggregate building material derived from limestone and the woody core fiber of industrial hemp stalks.
Industrial Hemp is a rapidly renewable plant based commodity. The inner core, referred to as the “Hurd,” is considered a waste product of the Hemp Industry and is well suited for use as a filler in insulating biocomposites. Industrial Hemp isn’t energy intensive to grow and contributes to soil biodiversity during growth. Using this waste product on a large scale will empower US farmers.

The Hurd is mixed with a mineral based binder and water in a specific ratio to achieve a cohesive mixture which will solidify into the form in which it’s cast. During solidification the minerals bind to the hurd, resulting in a final product containing rot-proof and fireproof qualities. Hempitecture has studied the potential for improved binder formulations to increase performance.

Industrial Hemp absorbs CO$_2$ from the air during its growth. After mixing the hurd with the binder, CO$_2$ is absorbed during the solidification process ultimately offsetting the building material’s carbon footprint. 1 ft$^3$ of hempcrete building material offsets approximately 7.27 lb$_{eq}$ of CO$_2$. 

Hemp + Lime + $H_2O$ = CO$_2$ Sequestration
Insulating, durable, fire resistant, breathable, and beautiful buildings.

Hempcrete is mixed and cast around a structural frame. Hempcrete is a monolithic wall system that is best used as a thermal envelope for energy efficient building projects.
Hempcrete can be used in new construction and renovations. Hempcrete is suitable for a wide variety of climates.
Hempcrete construction can happen in many forms, such as cast in place around a timber structure, as an infill between existing studs in a renovation project, or in panels. Hempitecture designed and built a series of insulating structural panels to complete the Idaho Basecamp Hemp Building Project.
Technology Enabled Natural Building

Hempitecture is innovating the way hempcrete structures are built through applying technology to enable natural building to be more cost competitive and scalable.

We are implementing conveyence and material delivery systems that we have custom designed for the sole purpose of installing hempcrete more effectively and efficiently.

Our equipment is just part of the Hempitecture System.
The Hempitecture System:

When you work with Hempitecture, you get more than just a building material, you get a building system. From farm to finished product, we specify the best quality materials.

We provide all the materials, equipment, and expertise to make your project a success.

With our regional supply chain, we have the best possible price on a hemp biocomposite thermal envelope system.
SERVICES: Hempitecture is able to work through all phases of the project from design to installation. Hempitecture is able to work on a consultant basis in the planning and development stages and is able to work on site leading the process with a focus on high quality hempcrete installations. We'd love to help your hempcrete building project come to life.

Matthew Mead, Hempitecture Inc.
Idaho Base Camp
Built by Hempitecture
2015