

America's First Hemp House Pulls CO2 From the Air

Amanda Froelich | [Humans Are Free](#)

The gorgeous, eco-friendly home costs only \$133 per square foot to build. Hemp is making a major comeback around the world. In the US, five states have legalized the recreational use of cannabis, and hemp-based building materials are now gaining in popularity.

The [first house built in America with hemcrete](#) was constructed in Asheville, North Carolina, and the 3,400 square foot Push House boasts a number of eco-friendly features.

To create a solid – yet breathable – wall system, hemp hurds were mixed with lime and water on-site and poured in-between the exterior supporting studs in lift.

As USA Today notes, Hempcrete is actually less like concrete and more like infill straw bale, as it is non-structural. The insulating quality is R-2.5 per inch, and it has the unique ability to capture airborne pollutants over time – absorbing carbon when it is grown and in place.



In addition, the material's high thermal mass helps keep a steady interior temperature, rather than allowing it to fluctuate.

The interior walls of this gorgeous, eco-friendly house are made from Purepanel, a unique product made from recycled paper. It consists of a rigid skin with a corrugated paper core, similar to cardboard. (Below)



As CNN reports, the house also features 30 salvaged window frames that have been fitted with high tech glass. They were placed to allow the most daylighting without overheating the space. An open floor plans also allows the light to pervade deep into the home.

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