

a Tiny House DADU

Universal Design & Aging in Place

This Tiny DADU is designed for those on a tight budget with minimal space. It's just enough space for a single person or couple with all the elements needed to be comfortable in a home. In addition to mini-split heads in the main living area, an HRV with HEPA filter is specified for extended periods of time indoors due to weather, fires, illness or covid. Though parking was not a requirement, consideration was made for a space that meets zoning codes that can be used by the inhabitants or for guests. See floor plans for more extensive list.

Affordability & Cost Effectiveness

Building with hempcrete has been proven to be in the same cost per square foot as an average well built home. This home is designed to be built on a metal skid so that it can be constructed remotely and moved to the site either by attaching temporary wheels to the skid or by using a flat bed truck. Once on site, the home can be set on pin-piles for the least amount of site disturbance. It could be used as temporary housing for a family member and then moved to another site in the future. Building small with a simpler roof and added porch once on site keeps the structure affordable.

Sustainability and Resilience

I'm deeply impassioned about the transformative potential of hemp/lime as a building material utilizing either hemp panels or bricks. They're not just methods of construction, they represent regenerative solutions to confront the pressing issues of our time, including the housing crisis and the profound impacts of climate change. Hemp/Lime walls create a durable, breathable and energy efficient wall assembly allowing for a high level of indoor air quality and carbon neutral construction. Note that though this is a preferred method for construction in this design, the modular layout would also lend itself to advanced framing principles with more conventional materials. Hemp/lime has a fire rating of zero making it an important building material to mitigate fire concerns. Building small is one of the most impactful design strategies.

Innovation & Creativity/Aesthetics

Hemp Panels or Bricks are finished with natural clay plaster which has the same look as a stucco finish and can be colored to suit the overall site design and aesthetics. The skid design with temporary wheels allows for construction to take place remotely with little impact on the site and neighborhood. Once the home is delivered to the site, the wheels are removed and the home rests on pin piles.