



The Hempcrete Block

Purpose

Made-in-USA hemp blocks for new construction or retrofits and renovations. Using pre-cast blocks allows you to quickly build up hempcrete walls without the extended cure-time delays and increased labor that is common with other methods of installing hempcrete.

Hempcrete is a bio-composite, non-structural, insulation infill material made of hemp hurd fiber (the strong inner stalk) and a lime-based binder. The many benefits of hempcrete construction include energy efficiency, utility cost reduction, high thermal/insulation performance, low embodied energy and carbon emissions in production, carbon sequestration in use, fire and mold resistance, and healthy indoor air quality.

The line of hempcrete blocks manufactured by *Hemp and Block* are designed to meet or exceed all quality standards and expectations for use in hempcrete (hemp-lime) construction, as outlined in the [2024 International Residential Code Appendix BL for Hempcrete](#).

Applications

Use hempcrete insulation for new construction or energy efficient renovation projects on existing homes and buildings. For non-structural use in external and internal walls, floor and ceiling insulation and more. Creates a thermal building envelope for walls that “breathe” (are vapor permeable). Acts as substrate for applying a lime-based plaster or render wall finish. Replaces drywall, fiberglass insulation, sheathing, plastic wrap and more with a simple, natural, and beautiful form of sustainable masonry.

Product Characteristics

Hempcrete blocks are off-white/beige to gray in color and have a unique, choppy hemp texture. They are lightweight (12.5 – 25 lbs. / cubic foot) and strong enough to be self-supporting for building walls. Highly insulating, R-value of 2 for every inch depth of hempcrete (varies based on density). Installation is simple, using lime mortar (hempcrete binder + sand and/or hemp fiber) to lay blocks. Offered in U.S. building sizes such as 8x8x16” and 12x8x16” nominal (including mortar joint).

Composition and Sustainability Statement

For performance and sustainability, the *Hemp and Block* line of hempcrete blocks are made with only: hemp hurd, hydrated lime, and natural volcano-based pozzolan. All specifically sourced from within the USA to make a true, “low footprint” building material.

See product examples on the following page...

14090 6100 RD
Montrose, CO 81403
970-318-0479
Hempandblock.com



Solid blocks:



Notched blocks to fit stud framing:



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