



SPECIFICATIONS

GaiaBrick

1. Definition of Material:

The GaiaBrick is a non-toxic, 100% bio based/ renewable, carbon negative solid-state product. GaiaBloc can be produced on site or manufactured offsite. They are produced with the inner core of industrial hemp/ kenaf plant, hot lime, misc. pozzolans and water. The material is mixed, molded, and compressed. They cure in the open air or humidity-controlled environment. Sizes for GaiaBrick can and may vary on size. Standard sizes include 9 to 21 cm wide.

2. Applications:

Interior insulation, renovation projects, and new build construction. GaiaBricks are fast and easy to install. The bricks can be used to provide room partitions, replacement of unhealthy insulation and drywall/ plaster and or create new spaces in open areas like basements, warehouses, barns garages and more. They can also be used to cover existing drywall/ plaster interior walls.

3. Physical Characteristics:

Density: TBD

Thermal Conductivity: TDB

Resistance to Compression: TBD

Fire Rating: TBD

Bio Based- 100%

4. Product Characteristics:

GaiaBricks have a porous appearance and construction. The color of these bricks varies from light tan to grey in nature. They have a smooth to rough surface. They are lightweight and can/ may float in water.

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5. Accreditations:

GaiaBrick has been Bio Base Tested by Beta Analytics of Miami Florida for a 99.96% Bio Based Content. This Test was done in accordance with the USDA Bio Preferred Program. GaiaBrick is awaiting USDA Bio Preferred certification (11/22).

6. Carbon Footprint:

The hemp plant stores carbon during its growth and this, combined with the low carbon footprint of lime and its very efficient insulating properties, gives the material a 'better than zero carbon' footprint.

7. Application:

The installation of GaiaBricks are to be done in accordance to the manufacturers instructions. These instructions vary from project to project however the following are basic guidelines for installation.

A. Mortar

To be used as a bedding compound and for all joints bricks. This mortar is to be used in accordance with the manufacturer's recommendations.

B. First Course of Brick

Bricks should be installed 15 inches above slab in damp locations. A waterproof membrane on the underside of the first course of brick is advised. This first course should be bed in mortar.

C. Additional Courses

Bricks are to be installed in a bedding of ¼ inch +/- of mortar. Joints should be offset 4 inches. Mortar may be applied with a margin trowel, bricklayers' trowel, and finished with a brick jointer (if desired).

D. Last Course

A minimum space of 1/4 inch +/- no more then a 1/2 to be left on top of last course of brick. This gap is to be filled with mortar. A margin trowel and brick jointer are useful in this step.



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8. Finishing:

These bricks can be finished in several eco-friendly breathable materials. These materials should be used in accordance with the manufacturer's instructions.