



SPECIFICATIONS

GaiaBloc

1. Definition of Material:

The GaiaBloc 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 GaiaBloc can and may vary on size. Standard sizes include 9 to 40 cm wide.

2. Applications:

Interior insulation, renovation projects, and new build construction. GaiaBlocs are fast and easy to install. The blocs 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:

GaiaBlocs have a porous appearance and construction. The color of these blocs 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:

GaiaBloc 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. GaiaBloc 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 GaiaBlocs 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 of blocks. This mortar is to be used in accordance with the manufacturer's recommendations.

B. First Course of Block

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

C. Additional Courses

Blocks are to be installed in a bedding of ¼ inch +/- of mortar. Joints should be offset 8 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 block. His 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 blocks can be finished in several eco-friendly breathable materials. These materials should be used in accordance with the manufacturer's instructions.