

Aeonian Brick Homes

Product Data and Test sheet

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DISTRIBUTION

1025 W. 5th North St.
Summerville, SC 29483
Office: 843-851-2830
<http://AeonianBricks.com>

PRODUCT DESCRIPTION

Of all the building materials man has used, bricks stand out as the strongest and most durable. Every brick ever made had one thing in common, they all use clay.

Clay and everything else in nature has an electrical charge. One clay molecule has an electrical charge that can attract and hold 79 water molecules. This is why clay bricks are not waterproof.

We have found a way to treat clay with a non-toxic, environmentally friendly chemical and neutralize its electrical charge permanently, making it waterproof.

We compress the waterproof, clay based bricks into an interlocking shape and glue them together with a construction adhesive. We then can erect a wall that is much stronger than concrete block.

Test results by certified testing laboratories, testing according to ASTM testing standards and methods, proved that a wall built with our bricks can withstand 243 MPH winds for 60 seconds without a crack (a concrete block wall must withstand a 110 MPH wind for 3 seconds!).

Our bricks are compressed at 6,000 lbs. psi, and have a compressive strength that is 2 ½ times that of a concrete block. They hold screws 5% stronger than a block of wood. The bricks are very dense and block air, heat and even sound.

They have a thermal mass insulation value of R-45 and a coating applied will give the home a R-20 heat resistance. Since these bricks are waterproof at a molecular level, they should last for thousands of years!

MANUFACTURING PROCESS

The manufacturing process of Aeonian Bricks is very simplistic. No firing in kilns is required. According to the EPA, each traditionally fired clay brick requires approximately 5944 Btu of energy, mostly natural gas is used for firing bricks in kilns, ([Energy in Making Bricks: A Comparison between Clay Bricks and Flyash Bricks](#) by Henry Liu, 7/14/07)

Aeonian Bricks have a small energy footprint since we don't fire our bricks, the bricks are wet cured for three days in a steam room, and then moved to cure for three weeks on shelves. A brick product that can reduce energy cost during production helps the environment.

APPLICATIONS

Currently: Residential, after ICC Certification: schools, hospitals, clinics, office buildings, storage units, apartment buildings, etc.

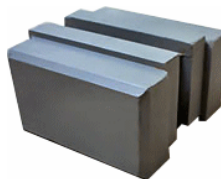
ADVANTAGES

There are many advantages to using our brick, it's one of the greenest building products on the market, and has the following benefits:

- ❖ **Waterproof** (the only brick in the U.S. that comes out of the "mold" waterproof. No spray-on application needed to waterproof out brick) once painted, brick is 100% waterproof.

- ❖ **Hurricane and tornado proof** (wind shear test exceeded 240 mph before 1st brick cracked)
- ❖ **Mold and mildew proof** (there is no sheetrock required when using our bricks. The interior walls of our brick is smooth as glass, and looks and feels as if it is sheetrock)
- ❖ **Termite and insect proof** (there is no wood used with our bricks, no joint spaces between bricks (no mortar) for insects to enter the house, and no food source to feed on)
- ❖ **Soundproof** (because of the density of our bricks, sound is not able to enter the home through the walls, and is soundproof from room-to-room)
- ❖ **Fireproof** (no wood or sheetrock to burn, a typical house fire burns at 1200 degree Fahrenheit, our brick loses a little bit of strength at 1800 degrees Fahrenheit, and regains it after it cools)
- ❖ **Flood proof** (it takes a water surge 15+ feet high to damage our monolithic wall)
- ❖ **No fiberglass insulation required** (saves energy cost by providing a R-21 heat resistance and a R-45 thermal mass in the walls). Has 15 times more insulating value than concrete blocks
- ❖ **Concrete roofing system** can withstand 300 mph winds
We eliminate toxic and environmentally sensitive building materials.

APPEARANCE



Weights: 20 lbs.
Measurements:
8" x 8" x 4.5"

TECHNICAL DATA

Content:

1. Clay
2. Dirt
3. 10% Portland Cement
4. Stabilizer

TEST DATA

1. [ASTM E 488-96, Standard Test Method for Strength of Anchors in Concrete and Masonry Elements](#)
2. [ASTM E 564 Monotonic Testing](#), [ASTM E 2126 Cyclic Testing](#)
3. [ASTM C 76 Water Absorption and ASTM C 1072 Flexural Bond Test](#)
4. [ASTM C 518 Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission](#)

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