

The TRUTH Revealed about AAC BLOCKS

Don't be fooled by tricky words

*Solid, Safe and Sensible Shell
Construction System
Omnocrete is the authentic ICF system*



that is the Greenest, most sustainable, energy efficient, fire proof, termite proof, mold proof and driest building system ever to enter the construction market. It costs less and is over twice the wind resistance and impact resistance of all other ICF systems.

Did you know?

Omnocrete is the only system in the world that uses AAC as a "stay in place" forming wall. This ingenious patented invention strategically places two forming walls, moisture barriers and special twisted stainless steel connectors in place to create the most strongest, driest, energy efficient and structural wall system ever invented. AAC by itself is the best material ever to enter the construction market. But since it's inception in Europe in 1927 two issues have been plaguing the material and preventing broad acceptance. One, is the moisture transference through the porous walls that could cause mold in tropical climates especially in the southeast US. Secondly, the lack of proper structural and compressive strength capabilities especially when used in multi story buildings. AAC coupled with a dense solid core containing two moisture barriers completely solved both problems and offers far more benefits with the combination of materials than AAC by itself. In short, AAC plus, additional insulation, plus vapor barriers and a solid concrete core equals Omnocrete.

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OMNICRETE ICF



Omnocrete is the only authentic ICF stay-in-place wall forming system. Our forming walls are made from concrete (*Autoclaved Aerated Concrete*) not from Polystyrene like all other ICF systems. Omnocrete uses a 4" AAC solid block (no rebar holes) that is 24 inches high and 24 inches long. Each block weighs 50 to 55 pounds and is easy to handle for one worker. All rebar is located in the center of the cavity and therefore it is not necessary to maneuver heavy blocks over the top of the rebar. Unlike the thicker AAC block, training is at a minimum, which makes the learning curve easier than erecting an 8" AAC wall. Cutting a 4" block is much less tedious and more accurate than the larger blocks.

AAC BLOCKS



Autoclaved Aerated Concrete (AAC) is concrete with thousands of tiny air bubbles created during the manufacturing process. This makes the concrete cellular in nature and reduces the mass and weight of the concrete by 33.3%. It is manufactured in various size blocks and panels. Notice the hole in the block on the saw. All 8" blocks have holes to accommodate code required reinforcement rods. Depending on the density, each 8" block weighs approximately 90 to 110 pounds, which is more than one worker can handle. It is very labor intensive to mortar the block and then lift the block over the rebar and then place it level on the wall. Roof and wall panels require large cranes to place the panels. A great product to construct but too heavy to work with.

Autoclaved aerated concrete (AAC) is a lightweight, precast building product used around the world. Available in blocks and panels of various sizes, AAC is an ideal material for walls, firewalls, sound walls, floor and roof systems. Even though Omnocrete requires two forming walls to be erected, the speed and ease of construction due to its unique design within the system is less time consuming than one thicker wall of AAC by itself.

FEATURES AND BENEFITS COMPARISONS

Description of Feature:

Are the finish walls monolithic (1 piece)?
Are sustainable building materials used?
How wind resistant are the finish walls?
What about termites & other insects?
How is base molding attached to walls?
How is crown molding attached?
Is drywall used inside of the home?
Can heavy pictures be hung on walls?
Can rats, mice & bugs nest in wall cavity?
Can forms move while pouring?
How are finished coatings applied?
Can forming walls burn?
Are walls impact resistant?
Fire rating of forming walls?
Are walls environmental friendly?
Are forming walls considered "Green"?
Are windows attached to concrete core?
What maintenance is req. around windows

Omnocrete ICF

Yes
Yes
300 mph; will test at 500 mph
100% resistant to all insects
Nail Gun - With Ease
Nail Gun - With Ease
No
Anywhere on Wall With Ease
No
No
Both sides one coat Plaster
No; they are 100% concrete
Durable 100% concrete walls
1 hr / inch = 8 hrs total + core
Yes, all concrete
Yes, best of all systems
Yes
None

AAC Blocks

No; in small to large panels
Yes
190 MPH
100% resistant to all insects
Nail Gun -With Ease
Nail Gun -With Ease
Yes
Yes with special anchors
n/a—No Core
n/a - No Core
Drywall inside, stucco out
No, they are 100% AAC
Durable 100% AAC
1 hr / inch = 8 hrs total + core
Yes, all AAC
Yes
n/a - wood bucks are used
Frequent caulking required