

Practical Issues

ecobrick can be cut with a standard hand saw, brick cutting machine or by hand with a hammer and brick bolster. High volumes of hand cutting will require a saw with tungsten teeth.

Chasing cavities or cutting through ecobrick can be done easily with power tools but a dust extraction system is a Worksafe requirement. Need a round shape? ecobrick can be shaped with hand tools and sanded into smooth curved shapes. Dust masks are recommended when cutting or sanding ecobrick. Sturdy gloves are essential for regular handling of ecobrick.

The concerted approach.

The higher insulating values of ecobrick make it an ideal partner in good passive solar design.

Making ecobrick an integral part of a home will improve the thermal and acoustic performance of your home, but more importantly reduce the running costs of your home.

ecobrick Uses

ecobrick is ideal for both internal and external rendered walls in houses and can be used as a retaining wall system when built on sound footings appropriate to the soil conditions.

Rendered or painted ecobricks are also ideal for small constructions like barbeque stands or planter boxes if appropriate footings are used.

Be Cautious With...

Remember, there are particular requirements for unsupported wall heights and the need for expansion joints in continuous walls over 6m in length.

An ecobrick wall is capable of supporting the imposed loads from a roof constructed in accordance with AS1684-2006, for a roof load width (RLW) of up to 6.0m. (Refer to a structural engineer for specific load calculations).

When building walls in high wind or moving soils, please consult a Structural Engineer familiar with the environment and conditions.

Generally, when ecobrick walls are fully exposed to the weather they should be rendered or painted in appropriate products. We suggest the Rockcote render systems, and major paint companies can supply appropriate paint systems for aerated autoclaved concrete products like ecobrick.

Please contact the ecobrick office for more technical details or check the website for additional information.



Energy Efficient



Excellent Acoustic Barrier



Low Density



Fire Resistant



Strong



Easily Worked



Recyclable



Efficient Construction Practice



Environmentally Friendly

Your local distributor



Warranty

Advanced Concrete Technologies warrants its products to be free from defects caused by faulty manufacture or materials. If any of its products are so defective the Company will at its option, repair or replace them, supply equivalent replacement products or reimburse the purchase price.

The warranty shall not apply to any loss or consequential loss suffered through or resulting from defects caused by faulty manufacture or materials.

Fittings or accessories supplied by third parties is beyond the control of Advanced Concrete Technologies and such is not warranted by Advanced Concrete Technologies.

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* Studies conducted by Sustainable Energy Development Office.

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ecobrick Achieves
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Why I Should Use ecobrick?

That's a very good question!

ecobrick is lighter in weight, has better R and acoustic values, a four (4) hour fire rating, plus it is 100% recyclable.

This means that when used as an internal wall in conjunction with clay bricks or in reverse veneer walls, heat loss and gain is minimal inside the building whilst annoying external sound is drastically reduced. In addition, with its closed cell air bubbles, ecobrick reduces heat and sound movement in the same ways as bulk insulation does in your ceiling.

What's more, ecobrick is easier to carry, which means less back pain and faster laying times.

Personal Comfort

Boasting thermal insulation properties close to double conventional clay brick, ecobrick ensures you and your family enjoy a more constant, stable and comfortable temperature inside your home all-year round, without having to resort to costly artificial heating and cooling techniques.

Doing my bit for Climate Change

Today, protecting our fragile environment is important to us all. That's why you'll be pleased to hear that the ecobrick manufacturing process does not use or create any toxic materials or gases, leaving a product that is chemically stable and non-allergenic. Made from sand, lime, cement, water and a small amount of aluminium paste less than .1% of the mix volume, ecobrick utilises a production line process with the bricks being autoclaved to complete the chemical bonding of the raw materials. This autoclaving process uses up to five (5) times less energy to produce than a traditional clay brick.

Our Community

Today, we must look towards tomorrow, and the role that we all play in protecting our world. By creating developments that meet our current demands without compromising the ability of future generations to meet their own needs, we are ensuring that our fragile environment will be protected forever.

ecobrick is 100% recyclable and all new bricks contain between 10% and 12% of recycled material. This recycled material improves the structural strength of the new product and decreases landfill waste.

Brick Sizes

ecobrick is manufactured in the following sizes.

Length (mm)	Height (mm)	Thickness (mm)
600	200	75
600	200	100
600	200	150
600	200	200
300	162	90
300	76	90

These sizes may not be available from your reseller but can be obtained through special order.

Putting them together

Providing you with ease of use, ecobrick's can be assembled using either Builders Choice AAC Cement or Builders Choice Thin Bed Mortar.

The preferred AAC Cement mix is 6 x sand: 1 x AAC cement: ½ x lime. This mix is used as a normal mortar with a standard 10mm mortar joint.

The Builders Choice Thin Bed Mortar is mixed with water to make a paste which is then applied by special trowel to create a 3mm mortar joint.

Please note that ecobrick must have a surface coating if exposed to the weather and we recommend Rockcote render system or an appropriate paint system.

Basic Specifications

Dimensions	600 x 200 x 75	600 x 200 x 100	600 x 200 x 150	600 x 200 x 200	300 x 162 x 90	300 x 76 x 90
Avg real weight kgs	6.15	8.8	13	17.80	2.64	1.25
No per Pallet	140	110	70	50	288	624
Face area mm ²	0.12	0.12	0.12	0.12	0.0486	0.0228
Approx No per m ²	8.3	8.3	8.3	8.3	18.8	37
M ² per pallet	16.8	13.2	8.4	6	14.00	14.2
Pallet - kgs*	967	983	925	905	775.32	795
Compressive strength	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa
Bulk density	555 kg/m ²	556 kg/m ²	557 kg/m ²	558 kg/m ²	550 kg/m ²	551 kg/m ²
Fire rating - single leaf	-/240/245	-/240/246	-/240/247	-/240/248	-/240/240	-/240/241
4hours - non load bearing						
Thermal resistance	0.73 m ² K/W	0.73 m ² K/W	0.73 m ² K/W	0.73 m ² K/W	0.73 m ² K/W	0.73 m ² K/W
Acoustic Ratings	Available by request	Available by request	Available by request	Available by request	Available by request	Available by request

* Pallet weight determined from weightbridge and includes 15 kgs for the pallet.



ecobrick...
Using the knowledge of the
past to build for our future...