

Basic Specifications

Dimensions	300 x 162 x 90	300 x 76 x 90	600 x 190 x 90	600 x 190 x 140	600 x 190 x 190	600 x 200 x 75	600 x 200 x 100	600 x 200 x 150	600 x 200 x 200	600 x 400 x 100	600 x 600 x 100
Avg real weight kgs	2.64	1.25	8.1	11.9	16.3	6.15	8.8	13	17.80	17.6	26.4
No per Pallet	288	624	110	70	50	140	110	70	50	44	40
Face area mm ²	0.0486	0.0228	0.114	0.114	0.114	0.12	0.12	0.12	0.12	0.24	0.36
Approx No per m ²	18.8	37	8.8	8.8	8.8	8.3	8.3	8.3	8.3	4.2	2.8
M ² per pallet	14.00	14.2	12.5	8.0	5.7	16.8	13.2	8.4	6	10.56	14.4
Pallet - kgs*	775.32	795	906	848	830	967	983	925	905	789.4	1071
* Pallet weight determined from weight bridge and includes 15 kgs for the pallet.											
Compressive strength	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa	≥ 3.5 mpa
Bulk density	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²	550 kg/m ²
Fire rating - single leaf	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240	-/240/240
4hours - non load bearing											
R Values	0.64 m ² K/W	0.64 m ² K/W	0.64 m ² K/W	1.0 m ² K/W	1.36 m ² K/W	0.54 m ² K/W	0.71 m ² K/W	1.07 m ² K/W	1.43 m ² K/W	0.71 m ² K/W	0.71 m ² K/W
Sound Ratings											

Specific details available on request and dependent on thickness of wall and wall finish.

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.

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.

* Some images are used for illustration purposes only.

Advanced Concrete Technologies
ABN: 62 005 736 005

info@ecobrick.com.au

www.ecobrick.com.au



Building basics with ecobrick



Cement and Mortar

Builders Choice Thin Bed mortar to a finished mortar joint of 3mm thick is recommended to bond ecobricks together.

The Thin Bed mortar powder is mixed with water to form a loose paste, which can then be applied with a standard bricklayers trowel or a specialised notched trowel.

As the mortar open time is short, it is preferable to lay only one or two ecobricks at one time rather than trying to lay a line of bricks. We recommend that you clean up with water before the mortar has dried, otherwise it may have to be removed by mechanical means.

Builders Choice AAC Cement is specialised cement that is mixed with sand and lime to form a 10mm mortar joint. The mortar is applied with a standard bricklayer's trowel to a joint of 10mm.

The ratio for this mortar is 6 parts bricklayer sand, 1 part AAC Cement and 1/3 Lime and is used in the same way a standard bricklaying mortar is used.

We recommend that you clean up with water while the mortar is still moist, otherwise it may have to be removed by mechanical means.

Builders Choice Thin Bed mortar

Builders Choice AAC Cement



Packaging

For convenient storage and your peace-of-mind, ecobrick's are delivered on sturdy pallets and wrapped in watertight plastic.

Wet Weather Storage

If you are storing your ecobricks in wet weather, it is important to remember that they will hold surface water. As such, if the bricks are not going to be used immediately, we recommend you keep them covered whenever possible.

Dry Weather Storage

ecobrick's can be left uncovered in the dry summer months and will require a light spray of water prior to laying to ensure a good bonding of the mortar to the bricks.

Handling

As ecobrick's have a rough surface, it is recommended that you use sturdy gloves when handling for extended periods, or in extreme weather conditions.

Dust Exposure

As ecobricks are a cement based product, unprotected long-term exposure to the cement dust is not advisable. When using power cutting tools, please remember that it is a health requirement to have dust extraction equipment connected to the cutting tool.

Shaping

For ease of use, you'll be pleased to hear that ecobrick can be conveniently shaped with both hand tools and power tools.

Refer - Dust exposure for health requirements.

Fixings

Our recommended fixings are the Hilti or Ramset designated AAC fixings.

For full fixing details download the ecobrick Fixings Manual from ecobrick.com.au.

DIY Builder

ecobrick is ideal for low walls like flower beds and low retaining walls (under 1.0metre in height) and small constructions like barbeque stands.

Even though ecobrick is a light weight building material a solid footing is still required when building a wall. ecobricks can be used as a footing for an ecobrick wall.

ecobrick can be used for larger constructions and higher, longer walls with a builder or structural engineer's advice.

Construction Adhesive

A neoprene based construction adhesive can be used to create walls under 1.0 metre in height, check that the adhesive can be used with cement or concrete based products, and always remember to apply the adhesive to manufacturers instructions.

Cutting

ecobrick is a light-weight concrete product and can be safely cut with a standard timber or metal saw, or with hand tools like brick bolsters and chisels.

For large numbers of bricks, we recommend that you use a tungsten tipped saw. Alternatively, if you wish to use a brick cutting machine or angle grinder, you may do so as long as the grinder has suitable dust collection equipment connected.

A hand chisel is suitable when chasing out a wall, although power tools can also be used so long as there is a dust collecting device attached.

