



## INNOVATE YOUR NEXT BUILDING OR HOME

### Colour, energy efficiency and quality

As an alternative to kiln fired bricks, the Geo Brick can help you to build *stylish, award winning and energy efficient* buildings and homes. A finalist in the 2009 HIA GreenSmart Product Awards, Geo Brick has recently featured on the ABC New Inventors. AusIndustry and Sustainability Victoria are also assisting Geo Brick to commercially produce Australia's first carbon negative brick.

#### **Colour innovation:** *Exclusive colours to build award winning and stylish homes*

Innovate the style of your buildings and homes with these unique bricks that capture the natural soft pastel golds, reds and browns of Victorian Goldfields' clays and gravels. The Geo Brick product range includes colour matched mortar and render style paint, with experimental variations also available.

#### **Energy innovation:** *Energy efficient and environmentally friendly*

Achieve a minimum reduction of 3.6 tonnes of greenhouse gas emissions than traditional kiln fired bricks, with every new brick home built with Geo Bricks.\*

- Production of 50% to 90% less greenhouse gases than traditional kiln fired methods
- Up to 45% less water consumption during production
- 700 tonne less slag to landfill annually (based on five million bricks)
- No oxides used in production
- Restoration and replanting of land gold mined in the 1850s
- End of life reuse

#### **Quality innovation:** *High-quality functionality at a competitive price*

Geo Bricks are aesthetically superior, allowing you to enjoy consistency of shape and colour, no oxides, efficient insulated mass properties and excellent working capabilities. These innovative bricks meet or exceed the Australia Standard for strength, growth and shrinkage, salt attack, efflorescence and water absorption. Importantly, they are competitively priced in the premium brick category, ranging from \$1,100 to \$1,250 per thousand bricks.

\* Assumes 10,000 "Geo Brick 16" bricks used during production

**ASK US TO SEND YOU A FREE SAMPLE OF OUR CLAY BRICKS AND RENDERS**



**SPECIAL OFFER: Be the first architect in Victoria, New South Wales or Queensland to use our bricks and we will promote your company and your building in our marketing.**

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## Specifications for Geo Brick

### Description

Geo Brick is a clay / gravel and cement composite brick, manufactured through a dry press process at Bealiba, Victoria.

### Application

Geo Bricks can be used in:

- External and internal brickwork features
- Structural and load bearing applications
- Landscaping and garden walls
- Thermal mass

### Properties

Geo Brick Range		Geo Brick 4	Geo Brick 8	Geo Brick 12	Geo Brick 16
Dimensions	Length (mm)	230	230	230	230
	Width (mm)	110	110	110	110
	Height (mm)	76	76	76	76
Dimension Tolerance	Length	± 1 %	± 1 %	± 1 %	± 1 %
	Width	± 1 %	± 1 %	± 1 %	± 1 %
	Height	± 1 %	± 1 %	± 1 %	± 1 %
Dimension Category		DW2	DW2	DW2	DW2
Average Weight/unit	kg	3.7	3.7	3.7	3.7
Geo Brick Colour Range		All	All	All	All
Oxides		Nil	Nil	Nil	Nil
Greenhouse Gas Emissions Reduction#	%	90%	77%	63%	50%
<i>Unconfined Comprehensive Strength</i>					
Average Unconfined Comprehensive Strength*	Mpa	7	14	19	27
Unconfined Comprehensive Strength	Mpa	> 6	>12	>18	>25
<i>Potential to effloresce</i>					
Classification *		Slight	Slight	Nil	Nil
<i>Resistance to salt attack</i>					
Exposure category*		General Purpose	General Purpose	General Purpose	Exposure
<i>Shrinkage and Expansion</i>					
Shrinkage					
Mean coefficient of drying contraction*	mm/m	1.3	1.3	1.3	1.1
Expansion	mm/m	Nil	Nil	Nil	Nil
<i>Initial rate of absorption</i>					
Mean gross initial rate of absorption*	kg/m <sup>2</sup> /min	0.2	0.2	0.2	0.2
Mean net initial rate of absorption*	kg/m <sup>2</sup> /min	0.2	0.2	0.2	0.2

# Estimated greenhouse gas emission reduction during production compared to solid kiln fired bricks, subject to full life cycle analysis in conjunction with Sustainability Victoria

\* The Brick & Mortar Research Laboratory testing in accordance with AS/NZS 4456

NB Geo Brick specifications subject to change without notice as research and development outcomes are reflected in improved products.

### Brick Cleaning

Geo Bricks are a premium product that offer decades of unprecedented colour and presentation, if best practice brick cleaning is conducted. We advise that you do not use an acid mixture or apply too much pressure. Geo Brick recommends pressure cleaners are set no higher than 15 litres per minute, no greater than 1000psi and held no closer than 300mm. For an exceptional finish, Geo Brick recommends choosing a bricklayer that cleans down brickwork at the end of each course.