

CARBON NEUTRAL BRICKS

build for living





Australia's first certified carbon neutral bricks

Using sustainable practices and protecting our environment are major concerns for Brickworks Building Products. That's why Austral Bricks (Tasmania) are the first in Australia to have certified Carbon Neutral bricks. That means we have significantly reduced our carbon footprint and offset the remaining emissions

ZERO NET EMISSIONS

*reducing Austral Bricks
and Daniel Robertson's carbon footprint*

More than 70 types of Austral Bricks, including the Tasmanian Metallix range and the Tasmanian made Daniel Robertson bricks are carbon neutral.

The carbon neutral certification of the Austral Bricks (Tasmania) products was achieved by reducing emissions through efficiency improvements and by offsetting the remaining emissions. This breakthrough has been assessed and certified against the Australian Government's National Carbon Offset Standard.



WHAT WE DO

to produce carbon neutral bricks

We use sawdust, a biomass, as fuel

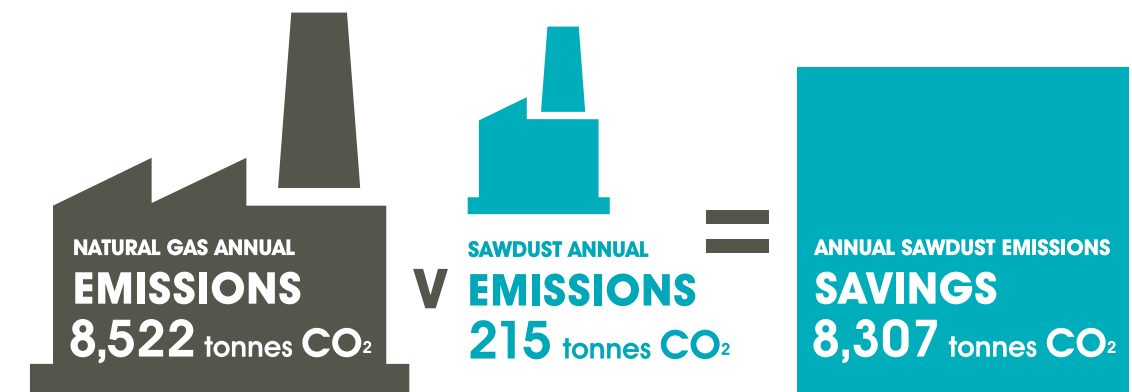
Our manufacturing process to produce Austral Bricks (Tasmania) products use waste sawdust from the local Tasmanian timber industry as a fuel to fire kilns. Sawdust is known as a biomass – a biological material derived from living, or recently.-living organisms. The sawdust produces a more sustainable manufacturing process than any traditionally used fossil fuel

SAWDUST FIRING

versus natural gas

Sawdust, a local Tasmanian waste product, is the secret ingredient to our Carbon Neutral success

The graphic below shows the annual CO₂ reduction at the Tasmanian Longford plant, from the use of sawdust as fuel versus natural gas. Using sawdust in comparison to natural gas to fire the kilns reduces the emissions by 8,307 tonnes of CO₂ annually



**Annual variations*

MAKE, MOVE, USE

the carbon neutral assesment and audit

Planning from ground to site to meet exacting emission standards involves all divisions of the company. Factors measured to calculate total emissions for production at the Longford plant in Tasmania include:



Clay extraction and transport

Excavation and stockpiling of clay and shale deposits



Fuel usage for vehicles

Diesel and petrol usage for on-site vehicles including forklifts and loaders



Transport from suppliers

Raw materials, additives and packaging delivered to site



Energy and fuels for production

The use of sawdust, electricity, coal, natural gas and lubricants were measured



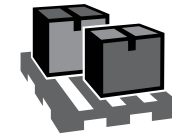
Waste handling

Cardboard is separated for recycling. Non-recyclable solid waste is transported to landfill from our site. Bricks and pavers that reach the end of their useful life are reused, recycled or sent to landfill



Water usage

Waste water at Longford is recycled and mains water carefully monitored



Packaging

Producing labelling, pallets, straps and shrink wrap



Transport

The delivery of Austral Bricks and Daniel Robertson's products interstate and to anywhere in the world by our own transport fleet and contractors, including shipping to countries such as Japan and New Zealand



Inherent emissions

From the kiln firing of clays and shales in the production process



Business operations

The day to day operations of Austral Bricks and Daniel Robertson's business including the running of business-provided company cars, interstate and international travel and the energy required to run office facilities



Austral Bricks Metallix Bronze

ARCHITECT: OLA STUDIO
PHOTOGRAPHER: PAUL CARLAND, XICREATIVE

WE HAVE IMPLEMENTED

energy efficient projects

Brickworks Building Products continues to invest in making our Tasmanian operation as energy efficient as possible to reduce both energy consumption and our environmental footprint

gas burner system

The introduction of a new gas burner system in the pre heat section of the kiln has improved the energy efficiency of the overall brick making process allowing more bricks to be produced per unit of energy. Just another way Austral Bricks (Tasmania) work hard to be sustainable

new sawdust drying system

Austral Bricks (Tasmania's) previous electric sawdust dryer system was replaced with a more energy efficient gas dryer system. Austral Bricks (Tasmania) continually monitors all equipment and upgrades technology regularly for more energy savings

new lighting system

Another important change has been the installation of a more energy efficient induction lighting system which has lowered our carbon output

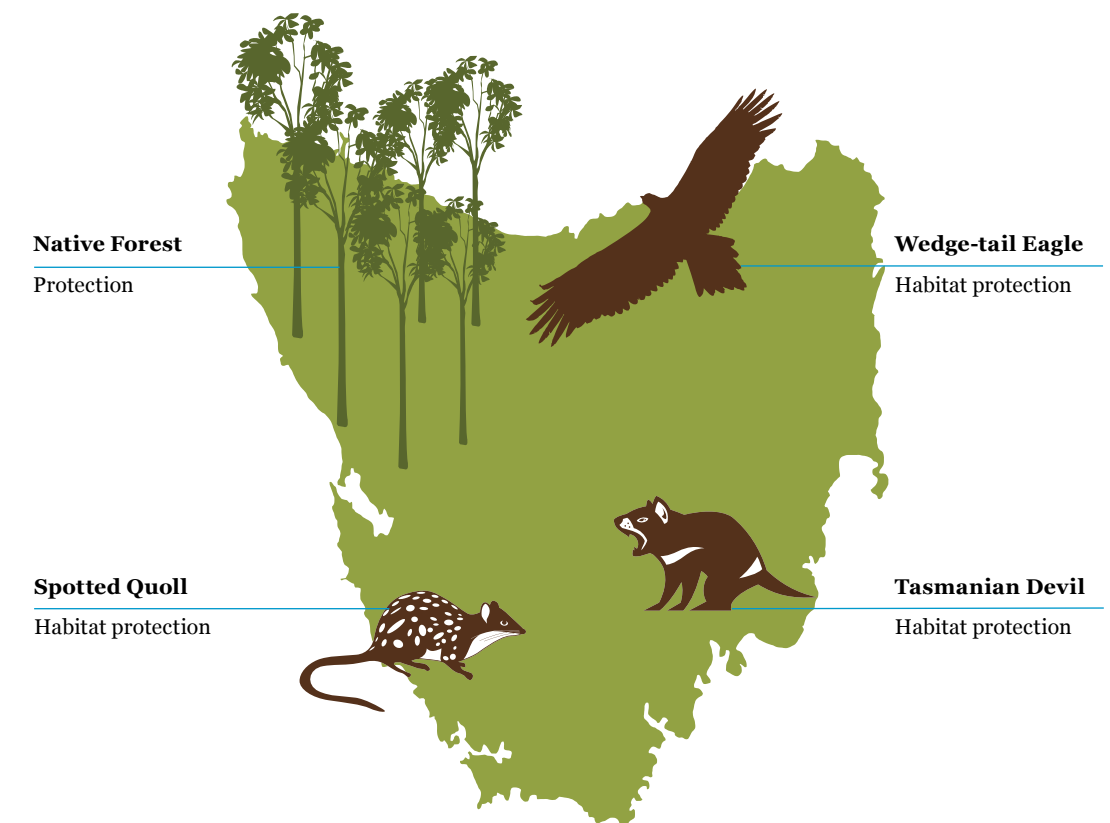
recycled kiln heat

Waste heat from the kilns at Longford Tasmania is recycled to help dry sawdust. The re-use of waste heat reduces the amount of heat vented into the atmosphere and again contributes to considerable energy savings helping Austral Bricks (Tasmania) to achieve carbon neutral bricks

CARBON OFFSETS

we purchase carbon offsets to offset the remaining embodied carbon

Carbon offsets are units which represent the reduction of greenhouse gas emissions. Brickworks Building Products purchases the offset units which are eligible under NCOS. The offset units come from various projects such as tree planting. Brickworks Building Products support the Tasmanian community through the acquisition of locally sourced Carbon Alive offsets



we offset globally and locally

We recognise that carbon is a global issue, therefore we offset our emissions with international and local units issued under the verified carbon standard



WE ARE

Brickworks

Brickworks Building Products is one of Australia's largest and most diverse building material manufacturers. Under the Brickworks Building Products umbrella are some of Australia's best known building materials brands. Our products include bricks, pavers, masonry blocks, retaining wall systems, precast concrete panels, concrete and terracotta roof tiles, timber products, terracotta façades and specialised building systems.

With a broad product portfolio and manufacturing and sales facilities across Australia, Brickworks Building Products is uniquely placed to service the demands of the building industry.

With over 1,200 staff across Australia and New Zealand, we pride ourselves on our commitment to product, service excellence and our leadership position.

BRICKWORKS
— BUILDING PRODUCTS —

australbricks

australmasonry

australprecast

auswesttimbers

bristiler roofing

**southern cross
cement**

BOWRAL BRICKS

nubrik
authentic brickwork



terracade
TERRACOTTA FAÇADE SYSTEMS

Pronto Panel

INEX>BOARDS

GB Masonry

URBANSTONE



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Richmond
VIC 3121

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70 Hindmarsh Square
Adelaide
SA 5000

Brisbane

27 James Street
Fortitude Valley
QLD 4006

Perth

67 King Street
Perth
WA 6000

Hobart

9 Franklin Wharf
Hobart
TAS 7000

Austral Bricks and Daniel Robertson are part of the Brickworks Group

The product images in our brochures give a general indication of colour for your preliminary selection.
We also recommend you view current product samples before making your final decision.

Partners in Design 08/2018