

# Innovations in Education

Terraçade helps build a  
brighter, more sustainable  
future for our next generation.



## The Basics

Austral Bricks' Terraçade Façade System is an Australian-developed curtain wall cladding that is revolutionizing building design and construction.

The basis of the system is a large-format (300 x 600 mm) "tile" made from kiln-fired terracotta, a material renowned for its durability, long life and natural beauty.



Wine Innovation Central Building,  
University of Adelaide,  
more information and photos page 6

## How does Terraçade work?

The tiles are captured on specially-designed rails attached to a loadbearing wall which can be masonry, concrete or a framed structure. Both systems, XP and TN, can be installed on existing structures as well as new work, the XP system to a remarkable 40 storeys high.

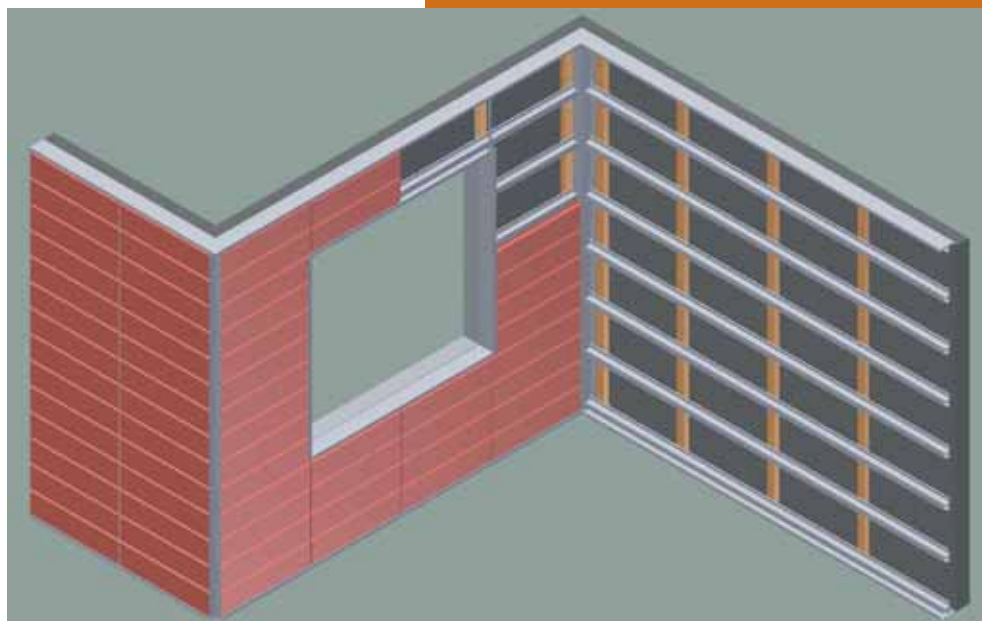
The assembly forms a curtain wall that is the first line of defence against water and heat penetration. The airspace between the Terraçade cladding and the wall structure does double duty, draining moisture that may penetrate the wall and acting as a “heat chimney” to naturally ventilate the cavity and minimise heat energy and condensation reaching the building structure.

## How is Terraçade finished?

Terraçade is a self-finished product. It does not require expensive finishes such as render or paint. Its colour is fired deep into the ceramic body of every tile and guaranteed fast for life.

## Does Terraçade meet Australian Standards?

The Terraçade Façade System has been fully tested to all relevant Australian Standards including AS/NZS 4284:2008 *Testing of Building Facades*. Additional testing has been carried out at the Cyclone Testing Station to AS4040.3:1992. The tiles are tested to AS/NZS 4455:2008 *Masonry Units* and the international standard ISO 13006:1998 *Ceramic Tiles*. Copies of all test results are available at [www.terraçade.com.au](http://www.terraçade.com.au) (Terraçade Information) and on request.



## BUILDING IN THE BENEFITS

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# ICA Casey College

Location: Narre Warren

South VIC

Architect: TFA Architects

Builder: Lanskey

Constructions

Terraçade installation: C&S  
Lightweight

Casey College's main building and an adjacent plant room feature Terraçade at the base level, contrasting with aluminium panels above.

The striking, dark, terracotta finish is easy to clean and maintain, an essential consideration where active kids are concerned!

"(Terraçade) went on fine, there haven't been any problems with leaks, so from our respect we are happy," says Colm O'Reilly, project manager for Lanskey Constructions.



Terraçade TN in Simpson



# BUILDING IN THE BENEFITS

#1

Terraçade is student tough



Educational facilities are busy places that can be treated fairly robustly. Collisions with balls, running or jostling students, and out-of-control trolleys are all in a day's work.

Terraçade tiles are very smooth, with no sharp edges, harsh textures or protrusions to catch clothing or cause injury.

They are remarkably strong and easily replaced if the worst comes to the worst.

Tiles can be mechanically secured to prevent theft.

Tiles clean readily but if additional protection is needed against graffiti or scuffing, we recommend Dry-Treat, an Australian developed and made sealer that has proven effective ([www.drytreat.com](http://www.drytreat.com)).

# University of Adelaide

Location: Urrbrae SA

Architect: HASSELL

Builder: Hindmarsh  
Construction

Terraçade installation:  
Cladding & Roofing  
Contractors

The Wine Innovation Central Building provides laboratory and associated facilities for wine researchers. The use of Terraçade references historic campus buildings while allowing the building to make its own mark. "Our brief was to create a world-class facility and we wanted people to recognise it as a significant modern piece of architecture," says project architect Mark Coventry. "It's not trying to be overly bold; it's just providing a pleasant envelope to a very functional design."

Terraçade XP  
in Pilbarra Linear





# BUILDING IN THE BENEFITS

#2

## Terraçade is cost-effective for life



Whether primary, secondary or tertiary, educational institutions are always keen to get the best value for their dollar, even more so in these constrained times. Terraçade offers a unique trifecta of low initial cost, low maintenance requirements and zero finishing costs.

The Terraçade system does not require special building practices or procedures and is easily installed by the builder's team or qualified installers. Being self-finished, Terraçade does not require expensive finishes such as render or paint, a further cost saving.

Once installed, the cost benefits continue:

- Terraçade does not require periodical refinishing to maintain its colour and good looks.
- Minimal maintenance is required, a light hose down or sponging to remove grime every few years at the most.
- Individual tiles are easily replaced.

# Latrobe University

Location: Bundoora VIC

Architect: Darren Carnell  
Architects

Builder/Terraçade installation:  
Concept Building

Terraçade was specified for the Problem-Based Learning Suite, a cluster of laboratories built over a walkway. Weight was a major consideration, which ruled out brickwork, despite its strong campus presence. "And yet I felt strongly that the building deserves some 'masonry'," says architect Darren Carnell. "So when I saw Terraçade, I saw it had a synergy of proportions with the adjacent buildings." He rejected fibre-cement sheeting because of its potential for impact damage. "I didn't want this building to look tired in a very short period of time. We wanted a perimeter that sparkles, is interesting and robust."

**Terraçade XP**  
**in Tennant Linear**





# BUILDING IN THE BENEFITS

#3

## Terraçade gives designers a creative edge



Like most great ideas, the Terraçade Façade System is a simple concept that is remarkably flexible in its application.

As well as being ideal for new projects, the Terraçade system can also be installed on most existing structures. The basic requirement is that the underlying wall structure be level and sound.

Designers and their clients are attracted to Terraçade's unique blend of natural colours and textures with a minimalist aesthetic. These colours are fast for life and come in a contemporary range.

The colour range also enables the designer to use Terraçade to harmonise with existing campus buildings where appropriate, or create a new identity. Terraçade also harmonises beautifully with other premium building materials such as brickwork, stone, steel and stained timber.

Different Terraçade colours can also be used to differentiate functions, identify areas such as entrances, or simply create a lively play of surface colour. Terraçade can also be used to create internal feature walls, screens and even fencing.



# Canning Vale College

Location: Canning Vale WA

Architect: HASSELL

Builder: Universal  
Constructions

Terraçade installation: Perth  
Façade Systems

Terraçade is the robust heart of Canning Vale's new Senior School building. "We wanted to express the core of the building as a stand-alone, separate element to the rest of the building," explains design architect David Gulland. Terraçade also requires minimal maintenance and being self finished, doesn't need repainting. The resulting finish is deliberately more sophisticated as befits senior school students. "The (Terraçade) panelised system gives a more sophisticated feel without breaking the bank," Gulland concludes.



**Terraçade XP  
in Bunbury Linear**



# Scotch College

Location: Swanbourne WA

Architect: Taylor Robinson

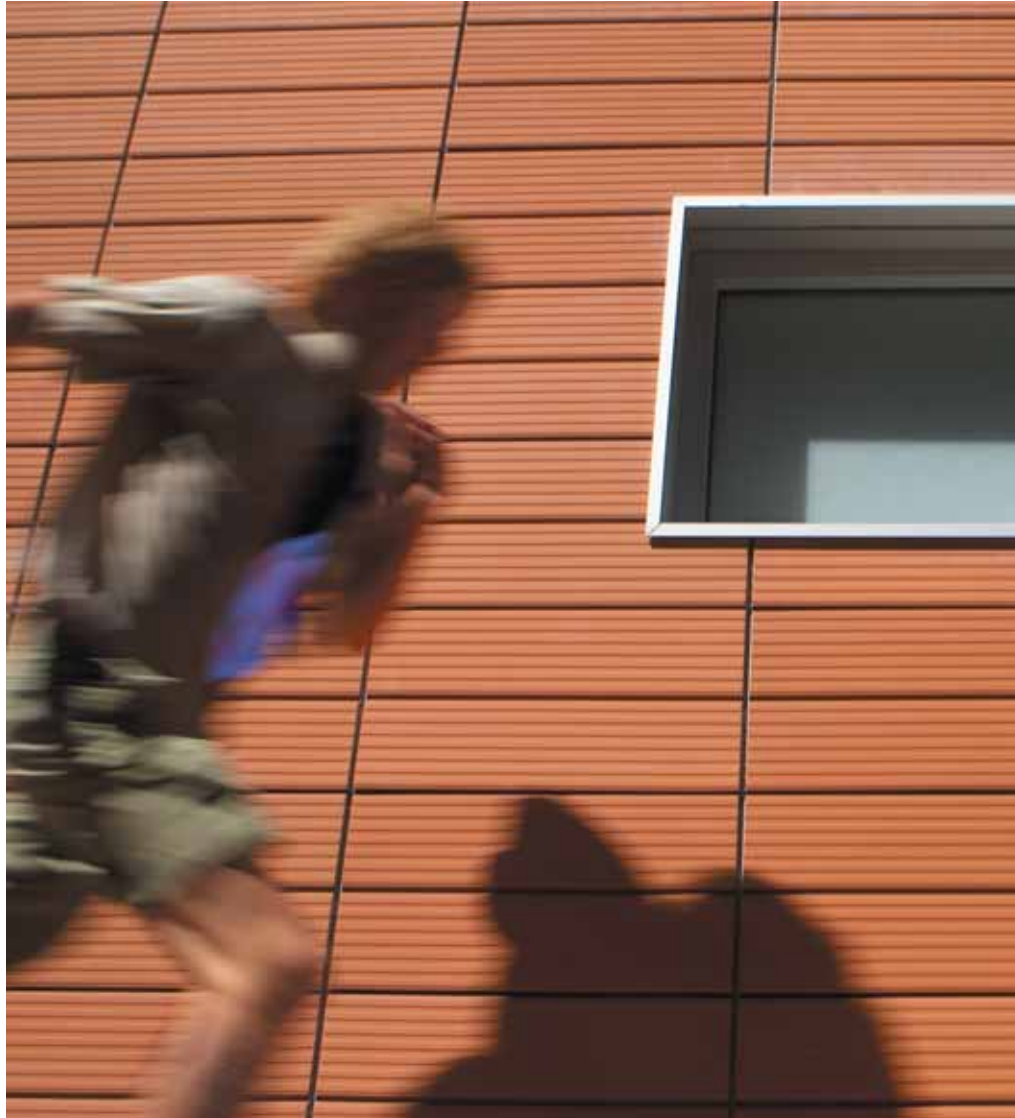
Builder: Loxam  
Developments

Terraçade installation:  
Thommo's Roofing

The Dickinson Centre, a multi-purpose auditorium, is Scotch College's signature building. Load restrictions prompted the specification of lightweight cladding systems, with Terraçade placed in the most vulnerable locations. "We were looking for a product down at 'boy level' that was light enough for the inherent structural conditions but robust enough to withstand reasonable boy wear and tear," explains architect Leigh Robinson. "It's a quality product and we will certainly consider using it again."



**Terraçade XP**  
in Pilbarra Linear





# McKinnon Primary School

Location: McKinnon VIC

Architect: Kneeler Design

Builder: WP Contractors

Terraçade installation: C&S  
Lightweight

Terraçade is distributed in relatively small panels across the exterior of this Melbourne school, picking up the red brick of the original 1930 brick building. "The beauty of that was the lightweight nature of the product and its thermal qualities," says architect Robert Bienvenu. "The Terraçade went on quite easily." The school is also happy with the outcome. "It's outstanding," enthuses McKinnon Primary's Edwin Janse. "We're looking forward to a very bright future."

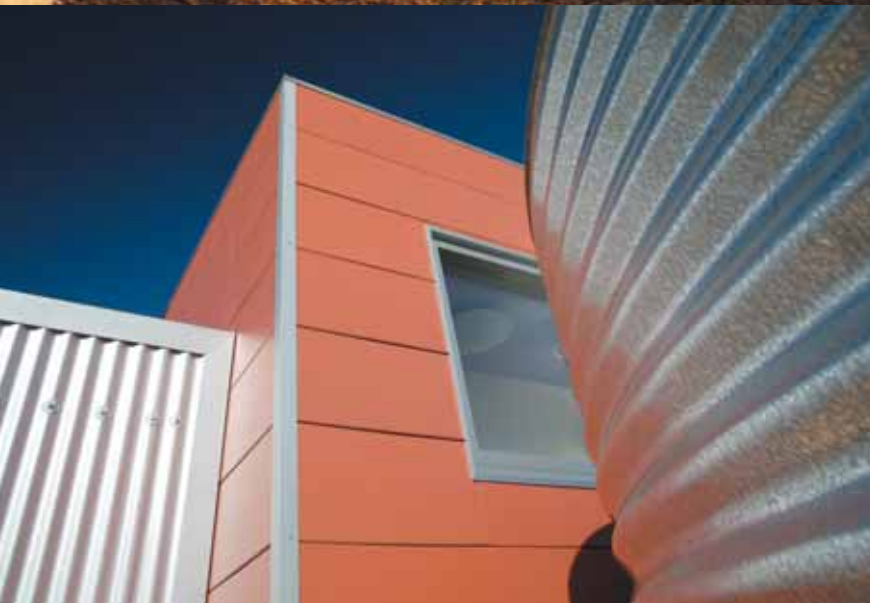
Terraçade TN in Gibson



# BUILDING IN THE BENEFITS

#4

## Terraçade is sustainable



Many building products tout their ecological credentials but the Terraçade Façade System is unique in offering five levels of sustainability:

**Low-impact manufacturing** Terraçade tiles are made from clay and shale, two of the earth's most abundant minerals. From mineral extraction through production to packaging and delivery, Terraçade consumes minimal resources. Material waste generated during manufacturing is returned into the process.

**Energy-efficient design** Terraçade is an ideal cladding component in an energy-efficient building design. The thermal mass of the tiles acts as a barrier to heat penetration. Heat energy that passes through the cladding is directed away from the underlying structural wall by the chimney effect created by the ventilated cavity.

**Low maintenance** The Terraçade system requires minimal maintenance and no finishes such as paint or render, both of which are high in embodied energy.

**Long life** Fired ceramic products have an enviable record for long life and durability. The colours of Terraçade are guaranteed fast for life.

**Reuse/recycle** Over 99 percent of the Terraçade Façade System's components (tiles and metal) can be fully recycled. Additionally the tiles can be reused without the costs – energy and financial – of reprocessing or remanufacture.

# Scotch Oakburn College

Location: Launceston TAS

Robert Dean Senior Student  
Centre

Design: Fielding Nair in con-  
junction with HASSELL

Construction, fitout,  
Terraçade installation: Scotch  
Oakburn College staff

Health & Physical Education  
Centre

Design/fitout and finishing:  
Scotch Oakburn College staff

Builder/Terraçade installation:  
Hinman, Wright and Manser

Two projects: a former  
gymnasium now a student  
centre, and a purpose-built  
gym/teaching facility. One  
cladding solution: Terraçade.  
"Finding a texture to put on  
a building is not always  
easy," says Mike  
Widdowson, the college's  
works and projects manager.  
"You don't want to  
necessarily go to a rendered  
product all the time, there's  
so much of it. We were  
trying to add another  
texture to these buildings  
and Terraçade has certainly  
done that."

Terraçade TN in Gibson





## BUILDING IN THE BENEFITS

#5

Terraçade is comprehensively guaranteed



Austral Bricks, one of Australia's foremost building products manufacturers, stands behind the Terraçade Façade System and every Terraçade tile.

The system is guaranteed for 15 years and a lifetime warranty applies to the colourfastness and durability of every Terraçade tile. Conditions apply; see [www.terracade.com.au](http://www.terracade.com.au).

**15 YEAR WARRANTY ON THE SYSTEM**

**LIFETIME WARRANTY COLOURFASTNESS & DURABILITY**

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**Terraçade XP**



Bunbury



Kimberley



Whitehaven



Pilbarra



Tennant



Kalbarri

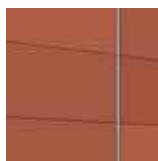
**Terraçade TN**



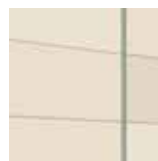
Gibson



Sturt



Tanami



Sandy



Simpson

**Please note:** The Terraçade TN system replaces the previous Terraçade TL system and some images have been updated to reflect this change. Photographs should be considered indicative of colour and texture only. Variations in colour and shade are inherent in all fired clay products. All Terraçade tiles and accessories should be ordered at the same time to avoid batch variation. No responsibility will be accepted for colour selection, matching, blending and any other physical or colour-related defects once the tiles have been incorporated into any construction. Terraçade is a registered trademark of the Austral Brick Company Pty Ltd. ABN 52 000 005 550

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