

INNNOWOOD
- SUSTAINABLE TIMBER ALTERNATIVE SOLUTIONS

Capability Statement

INNOWOOD develops engineered material technologies that support complete architectural building systems.

INNOWOOD®
SUSTAINABLE TIMBER ALTERNATIVE

Company Overview:

Founded in 2005, Innowood specialises in the production of high-quality, sustainable timber alternative solutions. With a commitment to innovation, environmental sustainability, and premium quality, we have become industry leaders in providing composite timber building materials that offer the aesthetic appeal of natural timber with superior fire properties and without the associated maintenance challenges.

Key Strengths and Capabilities:

1. EPD & Certifications: Having an Environmental Product Declaration (EPD) gives a clear footprint of the product's environmental impact, enhancing its credibility in green and sustainable building projects with the goal of zero net carbon.

2. Sustainability: Innowood products are made from sustainable materials, which is not only good for the environment but also aligns with contemporary architectural and construction trends focused on green and sustainable building.

3. Aesthetics: Comprising approximately 70% timber content, Innowood mimics the natural timber look, delivering the beauty of wood without its maintenance complexities.

4. Versatility: Innowood offers bespoke products and systems, from cladding, ceiling, to decking and screening.

5. Customisation: Innowood offers customised solutions, ensuring that architects and builders get products tailored to their specific needs.

6. Fire Performance: Innowood products can be tailored to attain superior fire resistance, achieving a Group 1 rating for internal use and BAL-29 for external applications.

7. Durability: Innowood products are built to last and resist various environmental factors, such as UV radiation, termites. We also warrant that our material won't crack, split, swell, or rot.

8. Low Maintenance: Unlike natural timber, Innowood doesn't require the same level of care and maintenance. Innowood retains its colour when used internally or on a soffit, shielded from UV. Externally, its colour longevity surpasses that of natural timber.

9. Acoustic & Thermal Properties: The products have good acoustic and thermal properties, contributing to energy efficiency and comfort.

10. Global Reach: Innowood is established in major global markets, highlighting our credibility and the widespread acknowledgment of our product's capabilities and value.

Sydney Wildlife Zoo, NSW, Australia 2006



Background:

In 2006, the Sydney Wildlife Zoo, situated in the iconic Darling Harbour in the heart of Sydney, embarked on a distinctive project. The architectural vision initially encompassed the use of recycled natural hardwood timber. Yet, the weight of this timber posed significant structural challenges and the required volume wasn›t readily available in Australia.



Why INNOWOOD?

Enter INNOWOOD: our innovative approach to extruding composite timber into hollow profiles proved pivotal. Our solution not only offered the aesthetic appeal of natural hardwood but was 70% lighter, addressing the weight concern head-on. Plus, we pioneered a unique clipping system, eliminating the need for visible screws and nails. This expedited the installation process, translating to marked cost savings.



Outcome:

The project witnessed considerable savings, and the façade mirrored the desired texture, finish, and hue. Our contribution to the Sydney Wildlife Zoo project not only underlined the potential of INNOWOOD's composite timber in the building industry but also showcased its versatility.



Project Design & Evolution:



The Sydney Wildlife Zoo stands as an architectural marvel, its exterior enveloped by a grand stainless steel mesh roof. Supported solely by curved beams, the design is reminiscent of the rainbow snake›s ribs, a nod to Aboriginal mythology. Back in 2006, the lightweight Innowood cladding and screening in a Natural Weathered Wood colour became an integral part of the exterior façade and soffits.

Fast forward 15 years, the zoo envisioned a revamp. The choice? Transitioning from the original Weathered Wood hue of Innowood to a vibrant Western Red Cedar.

Longevity & Environment:

Over the span of 15 years, our products have bravely endured the harshness of scorching summers and the maritime ambiance at Darling Harbour. This not only emphasizes INNOWOOD's commitment to durability but also our dedication to environmental sustainability. Our Environmental Product Declaration (EPD) is a testament to this commitment, showcasing our transparent and responsible approach towards a greener construction industry. With INNOWOOD, clients are not just investing in top-quality and durable products, but also in an eco-conscious future.

Our material's durability has been validated by a comprehensive analysis conducted by Timbaigl Optics. The microscopic study of Innowood material installed at the Sydney Wildlife Zoo confirmed the material's undiminished structural integrity over time.



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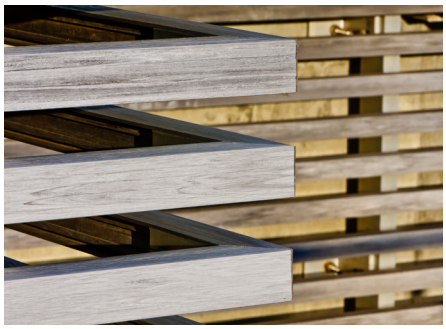
Sydney Wharf 8 & 9, NSW, Australia 2009

Architect: PTW Architects











Architectural Brief:

The architects had originally intended for the project to be built using natural timber. However, they were rightly concerned that natural timber would fail to withstand the harsh saltwater environment resulting from the ebb and flow of the tidal line. So their brief was to supply them with a sustainable, durable and aesthetically appealing timber alternative that could withstand marine intertidal zones and salt spray.

INNOWOOD's Solution:

Tested and proven as being suitable for marine inter tidal zones and salt spray environments, INNOWOOD's sustainably sourced and manufactured composite timber product used to construct Wharf 8 & 9 met every requirement of the architectural brief.

The Result:

The architect's original desire to create the look of natural timber was achieved while the composite timber material used ensured the structure would withstand the test of time, salt water and the weather, including the harsh Australian sun.
This project demonstrated to the industry that INNOWOOD is capable of delivering the ideal solution and timber alternative, even in the most challenging environment.

UNSW Student Village, NSW, Australia 2010

Located on High Street Kensington on the grounds of the University of NSW campus, the UNSW Village was built in 2010 to provide modern self-contained accommodation for students.



Architect: ARCHITECTUS

Awards: 2010 UDIA (NSW) Austral Bricks Awards of Excellence - Sustainable Development Award.

Architectural Brief:

The architects for this project presented us with the challenge of specifying a sustainably sourced single product that would deliver multiple requirements including the look and texture of natural timber while simultaneously delivering a high level of fire, water, and thermal resistance.



INNOWOOD'S Solution:

INNOWOOD's proven fire, water and thermal resistance ratings combined with the product's high aesthetic appeal and sustainable manufacturing process made it the obvious choice for the project, most notably for use on the building's façade cladding and shade screening areas. The product has since been installed in multiple locations on the campus for a range of applications.



The Result:

Not only has the completed building been widely acclaimed for its elegant timeless beauty, safety ratings and low maintenance ease, but INNOWOOD has also been credited for helping the Architect win a string of awards for the project, including an award for Sustainability.

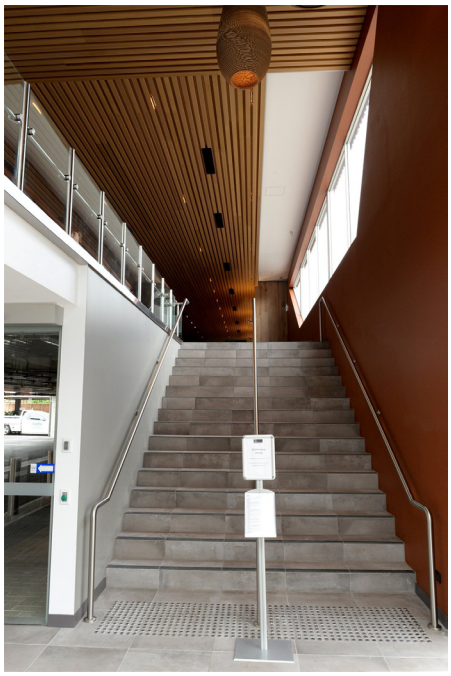
GU Film House,
South Australia 2014











Architectural Vision:

The architect for the GU Film House project specified a timber ceiling that would satisfy both safety and aesthetic requirements. The ceiling had to have a GROUP 1 fire rating while simultaneously offering a sophisticated modern design that would incorporate the building's lighting requirements.

Product Specification:

INNOCEIL - Group 1 Fire Rating Product.

The INNOWOOD Approach:

INNOWOOD produced a custom-made ceiling profile crafted from a specially formulated material to achieve the required GROUP 1 fire rating in accordance with AS/NZS 3837 - Specification A2.4 of the BCA. The ceiling panels were designed in such a way that they seamlessly incorporate the building's LED lighting within the design.

Outcome:

INNOWOOD's custom made ceiling products enabled the architect of the GU Film House project at Glenelg in South Australia to achieve the elegant interior look he had envisioned for the project while simultaneously meeting the required GROUP 1 fire rating.

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Jordan Springs Public School, NSW, Australia 2020



Architect: GroupGSA
Landscape Contractor: Landscape Solutions



Project Brief:

Like many of the proposed school designs, Jordan Springs Public School has a large emphasis on outdoor spaces and in particular the connection between the soft & hard surfaces, outdoor spaces and the nature that surrounds them.

Creating an extensive decking area that connects the modern building design with the natural landscape, required the right material to not only provided a safe surface for students to move and congregate but to also be environmentally and sustainably sound while withstanding the day-to-day traffic of a public school.



FIBA-DEK™
PREMIUM DECKING

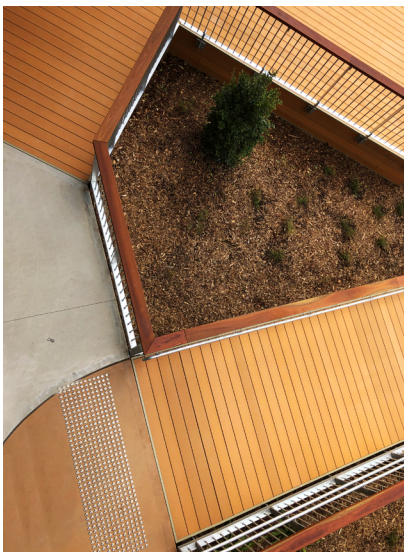
Solution:

FIBA-DEK is the latest decking technology that utilises a patented dual fibre layer in a coextrusion that dramatically reduced and restricts the movement that is a common issue in most composite decking products.

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A truly sustainable and environmentally friendly material, FIBA-DEK is produced by EPD (Environmental Product Declaration) accredited INNOWOOD, that includes stringent life cycle assessments that are on top of the inherent superior material performance that INNOWOOD is renowned for.

The importance of the highest wet pendulum slip rating is achieved with the hardwearing unique 3-dimensional embossed pattern that does not affect coating adhesion over time like the past sand/grit coating combination.






Result:

FIBA-DEK was the material of choice that helped bring the design and vision of the outdoor spaces of Jordan Springs Public School to reality by offering all the benefits of FIBA-DEK with the amazing resemblance to the look and feel of natural timber in a material that will remain structurally sound for many years to come.

FIBA-DEK has now become the premium decking product that is being specified in schools along with the many other INNOWOOD products.



Wildlife Retreat at Taronga Zoo, NSW, Australia 2020



Architect: Cox Architecture
Photographer: Mike Chorley

Background:

Officially opened in 1916 and located on the northern shores of Sydney Harbour, Taronga Zoo Sydney is Australia's largest and most iconic zoo that is operated by the Taronga Conservation Society.



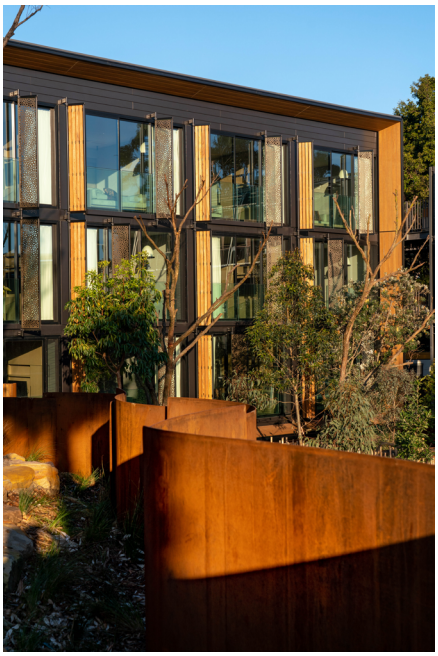
The newly completed state of the art 'Wildlife Retreat at Taronga' is set to become a premier example of an ecological resort with luxury facilities within the grounds of the zoo.



Architectural Vision:

As designed and described by COX Architecture, 'The Wildlife Retreat at Taronga consists of five environmentally sensitive, sustainably designed lodges that are integrated into the native bushland setting of Taronga Zoo'.

This extraordinary ecological design reinforces the connection to the natural environment by blurring the boundaries between the resort, the environment, and the zoo residents.

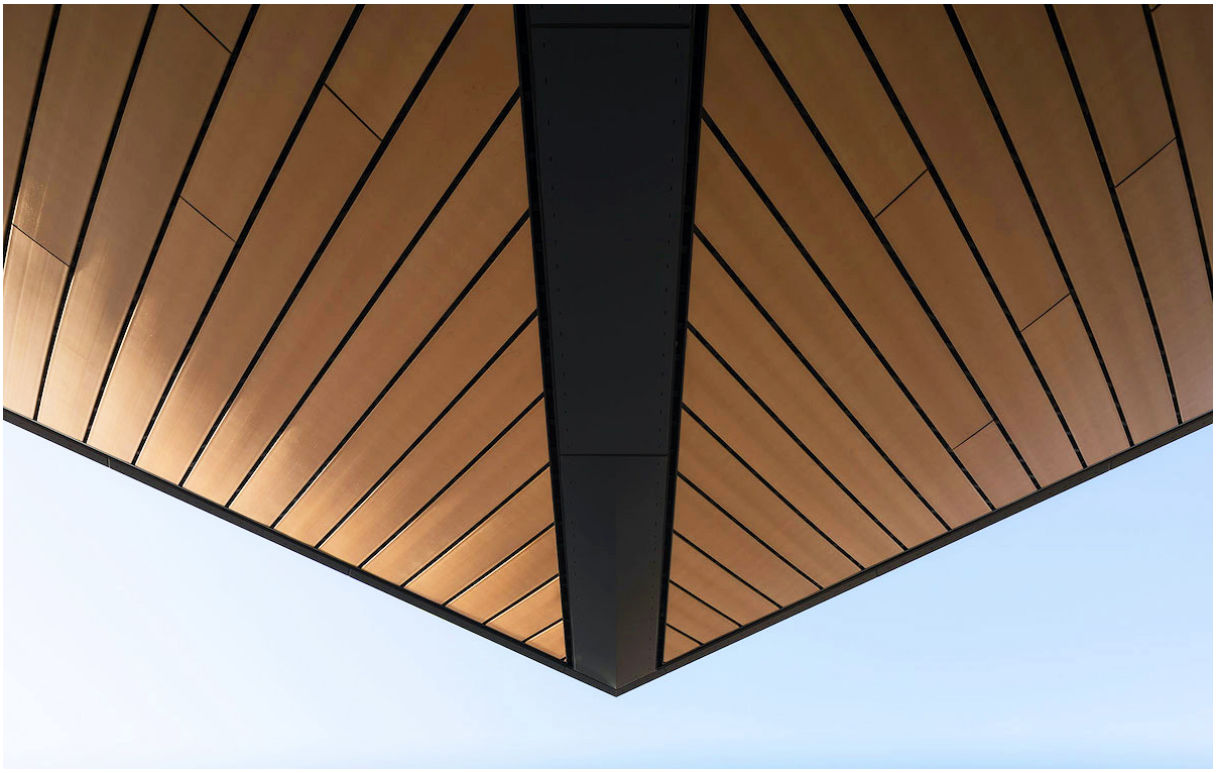


Solution:

INNOWOOD Sustainable Timber Alternative Cladding Systems are featured as part of the walls and soffit areas and were chosen as the environmentally friendly and sustainable material to seamlessly integrate into the natural setting as the closest look and feel to natural timber.

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Puhinui Station Interchange, Auckland, New Zealand 2021



Architect: Jasmax
Photography: Mark Scowen

Introduction:

Auckland's Puhinui Station Interchange, opened on July 26th, has been hailed as a pivotal investment in the city's transport landscape. Positioned as a key gateway to Auckland, the interchange seamlessly connects the city to the airport, paving the way for a more interconnected Tāmaki Makaurau.



Architectural Vision:

Tasked with the monumental responsibility of shaping this infrastructural marvel, Jasmax envisioned a passenger experience like no other. The station›s roof, reminiscent of a feather canopying over its users, stands as a testament to the station›s identity and a prominent visual beacon for the community.



The Challenge:

Beyond aesthetics, the challenge was two-fold: realising this unique architectural dream while meeting the dual mandates of functionality and crucial fire rating standards.



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The INNOWOOD Solution:

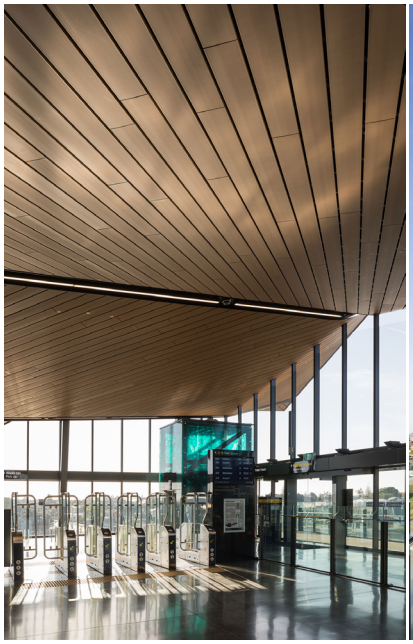
Jasmax's quest for perfection led them to Innowood, renowned for its mastery over composite architectural materials. Together with The Building Agency, our New Zealand counterpart, we introduced the CL30025 Clip Fixed Cladding System. This system is not just simple to install, but its concealed fixings ensure a sleek finish. The interspersed panels cast delicate shadows, enhancing the roof's voluminous appeal, while the timber-esque appearance infuses warmth throughout the space.

What truly distinguishes our contribution is the dual advantage of aesthetics coupled with practicality. Maintenance woes are significantly reduced due to the product's design, a critical aspect considering ceiling accessibility challenges. Moreover, our commitment to safety was unwavering, ensuring the cladding system complied with the EN13501 B s2-d0 fire rating, meeting the project's Group 1S rating (NZBC – C3.4A) criterion.

Conclusion:

The Puhinui Station Interchange now stands as a harmonious blend of design finesse, functional brilliance, and stringent safety standards, truly embodying Innowood's promise to deliver beyond expectations.





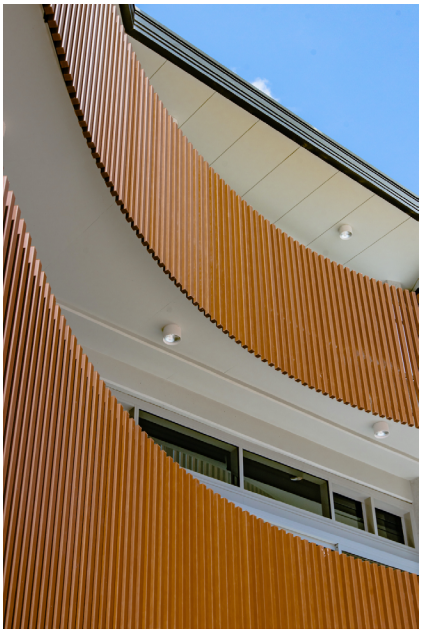


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Central Coast Grammar School, NSW, Australia 2021



Architect: NBRS Architecture





Project Brief:

It is an amazing time for Central Coast Grammar School. It has recently completed its development, which consists of different functional facilities across three buildings. It is a school that is surrounded by beautiful bushes and hills, and now with nature built into its foundation through INNOWOOD.

INNOWOOD Screen on the outdoor corridor of the classroom adds a neat, unique and natural ambience to the buildings, which is a very attractive look. The architect's design concept fully demonstrates the perfect combination that can be achieved with INNOWOOD.

Why Chosen INNOWOOD?

INNOWOOD material has been the chosen sustainable timber alternative for schools throughout the Australia and even the world for Cladding, Screening and Decking applications. Sustainable product choice has become a significant trend as the locus on outdoor spaces has emphasised importance of natural materials in wall cladding designs.





Conclusion:

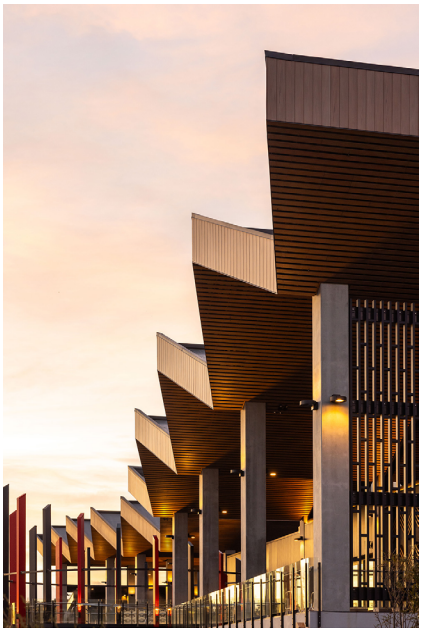
A number of studies have proven that being surrounded by nature and natural products can improve cognitive functions and productivity and increase pleasant feelings. It is easy to understand why INNOWOOD products would be a natural pick in developments to enhance the natural look and ambience of a building. INNOWOOD is ideal as it looks natural and is made from wood. It is also amazing in that it is also environmentally friendly.

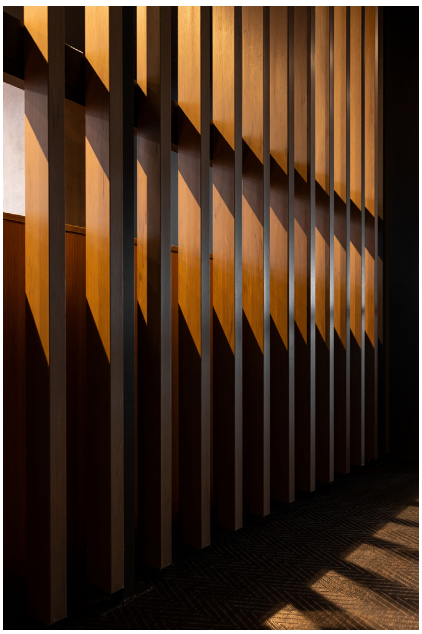
INNOWOOD is a great material to balance at time the harsh look of non-natural materials, like concrete, aluminium, steel, and glass.

Wai Ariki Hot pring and Spa, Rotorus, New Zealand 2023



Architect: ***RCG*** *- Architectural & Property, together by Design*
Photographer: ***Jono Parker***
Proudly Represented by ***The Building agency***





Project Brief:

The Wai Ariki Hot Springs and Spa designed by RCG is a terrific showcase of INNOWOOD's ability to bring out the best in a building whether indoors or outdoors. Located near the edge of Rotorua Lake the Wai Ariki Hot Springs and Spa is well positioned to welcome locals and tourists alike with its natural timber look. The selection of Innowood products, with their natural wood appearance, allows the Wai Ariki Hot Springs and Spa to be seamlessly integrated with nature.

By utilising our various cladding, ceiling, and screening products in our Tasmanian Oak finishes RCG was able to accomplish their goal of creating an aesthetically pleasing façade. This facade highlights an earthy feel and natural warmth, two very important elements for a spa establishment so in touch with their cultural roots.

Why Chosen INNOWOOD?

The INNOWOOD battens serve as feature screens providing a subtle organic hint while serving as partial dividers. These are a great example of bringing the natural feel of the outdoors inside with a simple batten screen.







Conclusion:

INNOWOOD was the perfect match for the Wai Ariki Hot Springs is its innate environmental resistance and easy maintenance. Rotorua is famous for its hot springs. These springs inherently increase both condensation and mineral accumulation on nearby surfaces which can lead to staining. However, the condensation and the staining from the mineral build-up on the INNOWOOD products can be easily removed with no adverse effects. Our Care and Maintenance Guide is a great tool for keeping your INNOWOOD products looking their best and in case of special circumstances our team is happy to provide technical support.

Product Innovation:

We have collaborated with market leaders like Dulux to explore coatings that elevate the longevity and aesthetic appeal of our products. Initial tests with Duluxs EndureDeck product showcased remarkable results, offering clients even more value and design possibilities.

Certifications and Partnerships:

- Member of Australasia Environmental Product Declaration.
- Certified by CodeMark.
- Partnered with renowned brands like Dulux.
- Extensively tested by CSIRO, SGS, University of Sydney and Industry Experts.

Contact Information:

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