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CeramaPANEL is manufactured from engineered fibre cement which is deemed as a non-combustible material in accordance with C1.9(e) and part 3.7.1.2 of the National Construction Code. Made available via a distribution arrangement

with PANELCORP, Fairview offers CeramaPANEL to the QLD and VIC markets.

Cerama**PANEL** fibre-cement facade boards provide architects with freedom to apply and exploit the visual opportunities on any building facade. With multiple options for colour, shading and texture, we have created countless possibilities when designing your stunning facade... so go ahead and unleash your creative flair!

BIOPHILIC DESIGN IN ARCHITECTURE: NATURE MEETS CEMENT

Biophilic design is about connecting people and nature within our built environments and communities.

The demands of the modern world have forced us to find a sense of calmness and comfort in our home environment, which could partially explain why we are seeing a significant increase in the use of natural and earthy construction materials.

While we're technically surrounded by nature, the quality of the nature that surrounds us has changed. Currently, 54 percent of the world's population live in an urban environment. By 2050, it's estimated that percentage will increase to 66 percent—two thirds of the world's population! Humans spend on average, 93 percent of their time indoors separated from natural elements.

This issue represents an unhealthy byproduct of this current societal behavior. As we continue to move toward the city and spend more time indoors, our day-today interaction with quality nature is shrinking. Ultimately, this is increasing our potential to experience psychological and physiological harm. How can we work to reverse this trend and improve the overall well-being of our communities?

One contemporary concept is biophilic design, a strategic approach to tap into—and harness—nature in the built environment.

"I entered architecture with the commitment to connect people and nature through the buildings we spend 90% of our time in."

Amanda Sturgeon I CEO, International Living Future Institute



WHY BIOPHILIC ARCHITECTURE?

The growing trend in biophilic design is twofold, intent is to improve quality of life by reconnecting humans with nature using the built environment - shifting the urban landscape from a steel and cement scenario to a greener one, where the integration of greenery, light, water and all sorts of natural elements in design positively affects people's perception of space and the time spent in it.

Finding the balance between aesthetics and function is the key challenge when it comes to architecture, and irrespective of project scale, type, or function, there are now many natural cladding products available to pioneer the progression towards the future of built environments.



"By using more untreated and natural materials, we strive to build links that connect us physically and emotionally, rather than just digitally to our world."

CERAMAPANEL CAN FULFIL YOUR BIOPHILIC DESIGN INTENTIONS

Whichever style and profile become part of the final design decision, CeramaPANEL offers endless opportunities.

Architects can find biophilic inspiration from the multitude of natural materials and finishes that, rather than refine away the surface irregularities, highlight the organic elements to further enhance the urban experience. The eye-catching finishes can be created in seamless monochrome palettes or arranged to optimise colourful visual adaptations.

The collection is made from natural, throughcoloured materials, which offer sophisticated shades appropriate for countless design palettes suitable for sleek, modern applications.

Achieve synchronous compliance and sustainability with CeramaPANEL's use of environmentally friendly, raw materials in the manufacture of the stylish, high-performance cladding.

CeramaPANEL encourages creative flair, allowing any installer and builder to deliver the architect's design vision, no matter how vivid or bespoke.

The beauty of the through-coloured fibre cement cladding is that each panel has its own variations via the cement composite material delivered during the manufacturing process.

With the construction industry's move towards greener compliance, CeramaPANEL's ethical materials make it a winner in today's marketplace. The energy-efficient fibre cement panels are manufactured from natural products, without the use of ozone-harming CFC chemicals.

Raw

Hewn

Groove

PRODUCT

RANGE

Do you to want a solution that is colourful and has a nice texture or would you like a smooth surface with clean lines?

In addition to the range of colours and shades, CeramaPANEL facade boards are available with a variety of distinctive characteristics.







DEEMED NON-COMBUSTIBLE

CeramaPANEL is a deemed non-combustible facade material that can be used internally or externally wherever a deemed non-combustible material is required in accordance with C1.9e.

KEY

FEATURES



LOW MAINTENANCE

CeramaPANEL Raw, Hewn, Groove, Infuse and Depth is a truly maintenance free material that is scratch resistant with no re-sealing, painting or ongoing maintenance ever required during install or anytime thereafter.



EASILY CUT AND INSTALLED ONSITE

CeramaPANEL is easily cut to size and installed onsite minimising lengthy lead time between site measure, production and delivery of pre-finished panels.



ENVIRONMENTALLY FRIENDLY

CeramaPANEL panels are installed on a ventilated sub-construction system allowing for the building envelope to breathe which increases thermal and energy efficiency and promotes healthier buildings.



ROBUST DURABILITY

CeramaPANEL panels are an exceptionally durable panel making it impact resistant. Even in the most demanding applications and harsh environments CeramaPANEL has a life expectancy exceeding 50 years.



COST EFFECTIVE

CeramaPANEL allows installers to provide a rapid and cost effective installation.



THROUGH COLOURED MATERIAL

CeramaPANEL Raw, Hewn, Groove, Infuse and Depth are all through-coloured fibre cement material that offers elegant shades of natural colour.



GRAFFITI AND SCRATCH RESISTANT

Raw

CeramaPANEL Raw has a authentic, textured surface that exhibits the raw characteristics of the fibre cement, along with the visible sanding lines on the surface of the boards giving it an extra tactile and visual impact. As the seasons change and the years pass, the natural ageing of the fibre cement leaves subtle traces on the surface, and the facade will gradually acquire a distinctive Patina.

CeramaPANEL Raw is much easier to handle on site than surface coated sheets and retains its appearance for longer. Being a through colour fibre cement with no surface coating, there is no need to seal edges or other cuts and minor damage is less visible than coated sheets.

With strong dirt, stain and water-repellent properties, as well as their resistance to all kinds of weather conditions it is a virtually maintenance-free facade with exceptional durability.



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Earthy Exteriors



DISCOVER THE ENDLESS DESIGN POSSIBILITIES WITH Row Elements



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CASE STUDY: WESTFIELD SPORTS HIGH SCHOOL

Embracing a dynamic and flexible learning environment, the recently completed Westfields Sports High School infuses contemporary school design philosophy while encompassing a variety of programs and learning spaces to accommodate for 460 students. These spaces can be categorised into two primary types - the noisy and the quiet. It is this dichotomy that formed the architectural framework of producing both acoustic and visual separation between these two distinctive spaces.

The NSW Department of Education project has been delivered in a challenging location, well inside an operational school, and surrounded by operational and occupied areas. Complex staging of works within the existing facilities of the school had been carefully planned with active stakeholder engagement to ensure harmony was maintained between the School and construction site.

Products were required on site within stringent time frames and installation efficiency and simplicity was a high priority. All products were required to conform to the EFSG (Education Facilities Standards and Guidelines) and be compliant to the current NATSPEC (National Building Specification). Additionally, the builder required a cost-effective solution that fitted within their budget.

PROJECT DETAILS

PROJECT Westfield Sports High School (NSW Department of Education)

LOCATION Fairfield, New South Wales, Australia

PRODUCTS CeramaPANEL Raw, CeramaPANEL Natural, CeramaPANEL Depth. In colours CPR-7038, CPN-9001, CPD-3009

BUILDER Hindmarsh Constructions

ARCHITECT Mode Design

INSTALLER Cathay Chung Yue Estate (CCYE)



Cerama**PANEL** Hewn

CeramaPANEL Hewn has a rough, structured surface - as if hewn from natural stone. This appearance will add a mineral, naturally and subtly eroded surface finish to your facade, as if it were built using natural materials - for instance, naturally aged sandstone.

The sandblasted surface will also give your facade a dynamically changing appearance throughout the day depending on external light and viewing angle.

Just like the CeramaPANEL Raw, it is a through colour fibre cement with no need to seal edges or other cuts. With strong dirt, stain and water-repellent properties, as well as their resistance to all kinds of weather conditions it is a virtually maintenance-free facade with exceptional durability.





Groove

CeramaPANEL Groove gets its name from its unique grooved surface.

The lineal groove in its surface creates a play of light and shadow and will give your facade a dynamically changing appearance throughout the day depending on external light and viewing angle.

Just like the other CeramaPANEL colour through boards, it is a through colour fibre cement with no need to seal edges or other cuts. With strong dirt, stain and water-repellent properties, as well as their resistance to all kinds of weather conditions it is a virtually maintenance-free facade with exceptional durability.

FATRVIEW



Cerama PANEL Classic

CeramaPANEL Classic is a 9mm prefinished compressed fibre cement facade panel which is finished with a highly durable factory applied fluoropolymer paint system.

This product is both an aesthetically appealing and cost-effective solution available in an unlimited colour range... simply choose your preferred colour and we will handle the rest! It can be cut-to-size and offers all the benefits of the raw fibre cement board such as impact resistance and noncombustibility.

No need for traditional on site painted methods that involve messy and time consuming trades.





CASE STUDY: WAHROONGA PREPATORY SCHOOL

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At Wahroonga Prep, students are encouraged to challenge themselves and explore topics of interest to them through inquiry-based learning. Meanwhile, teachers are supported to be innovative, passionate educators through comprehensive professional development.

Using CeramaPANEL, Wahroonga Preparatory School was able to showcase a desired sense of innovation, creativity, collaboration and excellence.

Create a dramatic & modern landmark with CeramaPANEL.



PROJECT Wahroonga Preparatory School

LOCATION 61 Coonanbarra Road, Wahroonga, New South Wales, Australia

> PRODUCT Ceramapanel 9mm Pre-finished Compressed Fibre Cement

> > ARCHITECT GGF Architects

BUILDER Admire Build Pty Ltd

CeramaPANEL Infuse boards are unique as they're the same colour all the way through, it's although the core has been infused with the same vibrant yet resilient colour of the painted surface!

This means when you choose CeramaPANEL Infuse boards to provide a facade with a particular colour, every board will feature that colour on every surface and edge, and with the same colour on the edges of any cut-outs or drilled holes.

The range includes 18 intense colours incorporating the most popular shades with some accents for highlighting your facade, offering a long-lasting facade solution for creative designers.





Cerama**PANEL** Depth

CeramaPANEL Depth facade boards combine the natural characteristics of the through coloured fibre cement with the extremely durable clear topcoat. The colour added to the fibre cement reveals and highlights the fibres and other raw materials that provide its strength and character. The extremely durable clear coating then protects the board and ensures a smooth surface with a long service life.

PANELCORP





Ventilated Facade systems also known as double-skin facades or rain-screens, greatly assist in protecting buildings against wind, rain and temperature variations and keeping the building dry and energy efficient.

A ventilated facade system consists of two layers of different facades separated by an air cavity which prevents rainwater from penetrating and diffuses water vapour from the inside. While the external cladding protects from rain and wind, the air cavity plays a major role in the ventilated facade system. A naturally ventilated facade results in a temperature difference between the face of the cladding panel and the air cavity behind. This in turn creates a variation in air density causing air to flow upwards within the cavity resulting in a chimney effect. The airflow transports heat from the cavity out through openings at the top of the wall, reducing humidity and increasing the efficiency of insulation.

Benefits of ventilated facades

Thermal

Significant reductions in HVAC reliance through:

- A reduction in the amount of heat the building absorbs in hot weather conditions from the partial reflection of solar radiation by the outside facade, and the naturally ventilated air cavity.
- In cold weather conditions ventilated walls retain heat, resulting in a lower reliance on heating. HVAC electricity consumption typically accounts for around 40% of total building consumption.

Acoustic

Ventilated facade systems provide an increase in the reflection of external noise, with some projects achieving an average reduction of up to 8dB. With the primary external noise sources affecting buildings being road traffic noise, a reduction of this level can greatly improve occupant comfort.

Structural

Ventilated facades don't suffer from mould, fungi and rot, making them extremely durable and virtually maintenance free. The natural bottom-to-top airflow through the cavity assists in eliminating moisture accumulation on the facades, helping to prolong the structural integrity and ultimately the lifespan of a building.



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