



CASE STUDY

**SEAMLESS INTEGRATION:
ALUMINIUM CLADDING FOR
FLAT AND CURVED SECTIONS**



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ALUMINIUM CLADDING IN AUSTRALIA

Durable and easily fabricated, aluminium cladding panels feature a wide variety of styles, are available in a range of forms including sheets, extruded profiles and flat panels, and come in different finishes, colours and textures to suit almost any design requirement.

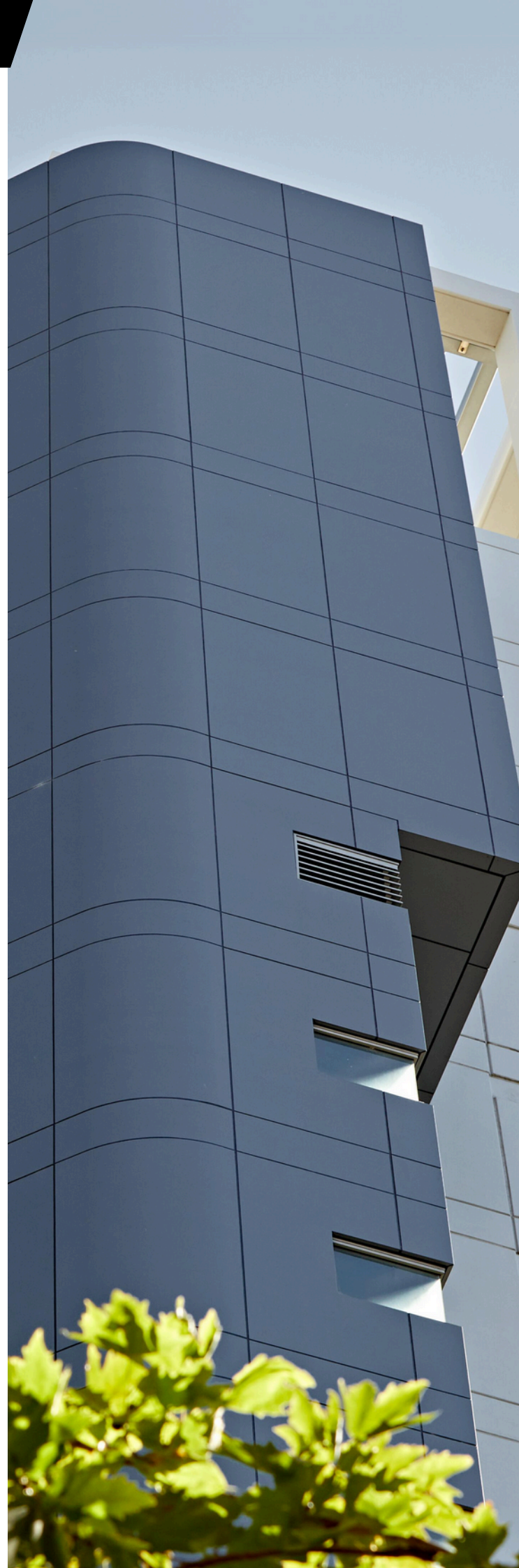
Aluminium as a building material has garnered a reputation as a popular and reliable choice for exterior cladding for its ability to replicate favoured cladding styles, be customised to specific design briefs and withstand a variety of conditions, all while complying with the relevant Australian standards for non-combustibility and weatherproofing.

The most widely used and robust styles include solid and lightweight engineered aluminium sheet cladding that allow architects to achieve modern and unique designs. Fairview's leading panels range, which encompasses a variety of profiles, offers designers creative freedom and customisation when it comes to specification.



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VITRACORE G2



Vitracore G2 is an engineered aluminium panel designed for high performance as a façade material, that is half the weight, 5x more rigid and has 70% greater resistance to oil canning than its solid aluminium counterparts.

It holds CodeMark Certification to the NCC 2022 and is the ideal façade product for all types of construction, from residential developments to large-scale government infrastructure projects. Installed in a pre-made cassette system, Vitracore G2 is cost-effective, corrosion and pollution-resistant, and finished in PVDF for added longevity.



The revitalised façade for the Myer Centre Rundle Mall in Adelaide, SA, is a prime example of how aluminium cladding can be used for both flat and curved sections of the building.

Lightweight Vitracore G2 engineered aluminium panels were installed on the flat sections and Vitradual solid aluminium panels were prefabricated and curved for the iconic gold posts.





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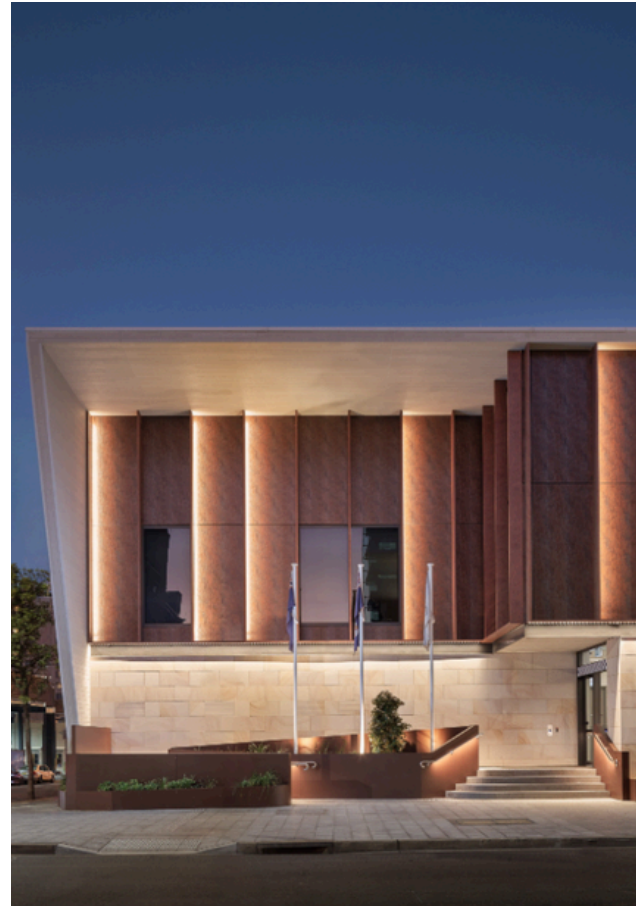
VITRADUAL

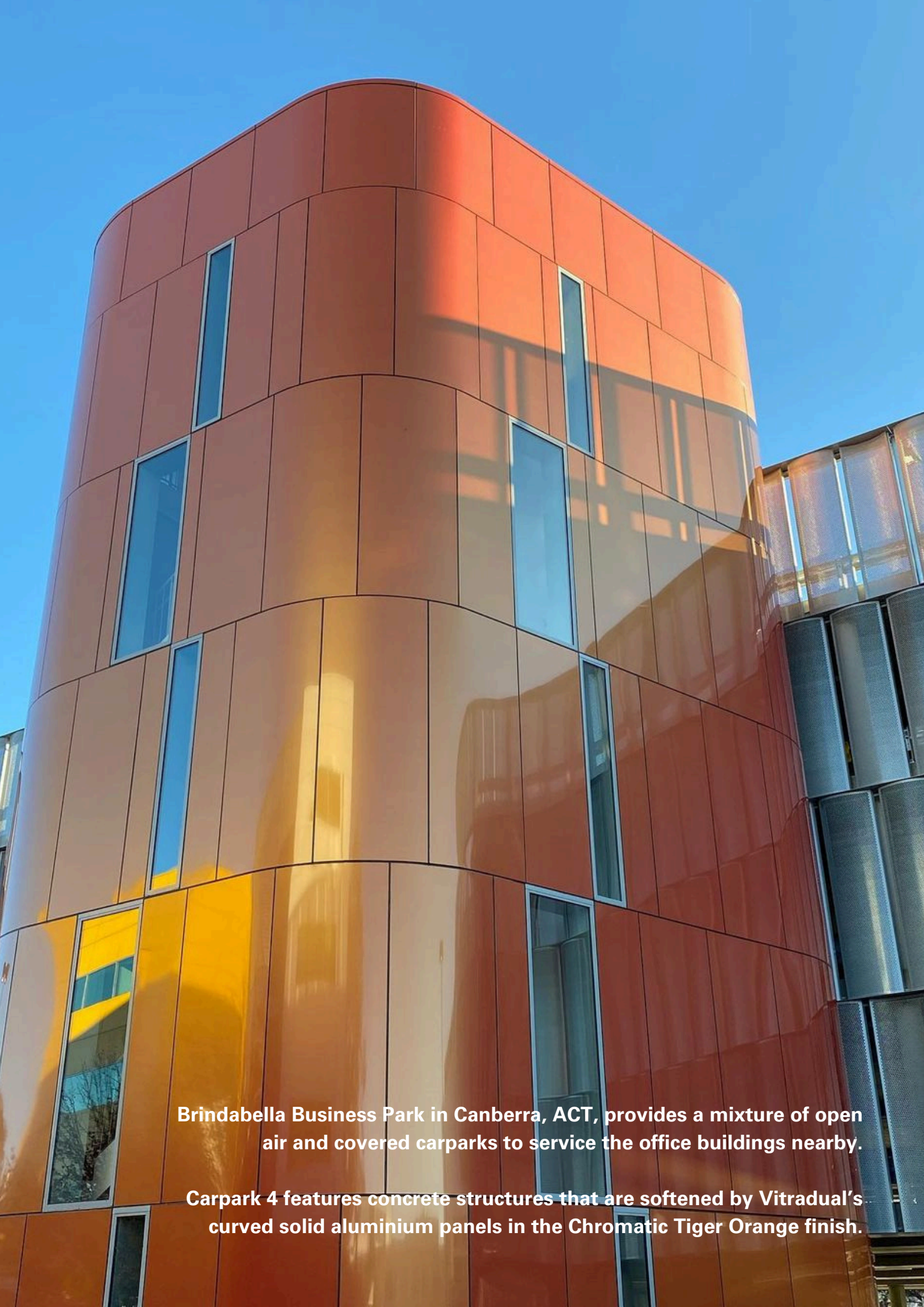


Australia's first non-combustible cassette cladding, **Vitradual** is a prefinished 3mm solid aluminium panel system with CodeMark Certification to the NCC 2022.

With proven integrity and performance, Vitradual boasts high impact resistance and can withstand significant weather and pollution, making it a market-leading performer.

Available in both 3003 and 5052 series aluminium, Vitradual offers a sustainable façade option, as it is 100% recyclable and finished in durable PVDF for an extended lifespan.





Brindabella Business Park in Canberra, ACT, provides a mixture of open air and covered carparks to service the office buildings nearby.

Carpark 4 features concrete structures that are softened by Vitradual's curved solid aluminium panels in the Chromatic Tiger Orange finish.

ACHIEVE SEAMLESS INTEGRATION BETWEEN FLAT AND CURVED SECTIONS WITH VITRACORE G2 AND VITRADUAL

Aluminum cladding can create seamless integration between flat and curved sections on buildings, with the following considerations:

MATERIAL FLEXIBILITY

Aluminum cladding can be installed as a flat panel or easily shaped into various forms, allowing the creation of custom curved panels that complement the flat sections. Advanced bending techniques, such as roll bending or CNC machining, allow for precise curvature without compromising structural integrity.



DESIGN STRATEGIES

The integration of flat and curved sections creates dynamic facades that capture attention and evoke curiosity. Curved sections can help establish a distinct architectural identity, setting it apart from its surroundings. Curved surfaces can also reflect and refract light in interesting ways, enhancing the interplay of light and shadow throughout the day.





The Lantern Apartments in Collingwood, VIC, is a bespoke development featuring a prominent veil of cascading white ribbons that are created with Vitracore G2 engineered aluminium panels in Snow White.

FUNCTIONAL BENEFITS

Curved designs can create more usable interior spaces, allowing for unique layouts and configurations. Curved sections can facilitate smoother transitions between spaces, promoting a more natural flow for occupants.

STRUCTURAL ADVANTAGES

Curved forms can help distribute loads more efficiently, potentially reducing the need for additional structural support. Curved shapes can better withstand wind loads, enhancing the building's durability and resilience.

SUSTAINABILITY

The design can optimise natural light and ventilation, reducing reliance on artificial lighting and climate control. Thoughtful integration of flat and curved elements can minimise waste and maximise material efficiency.

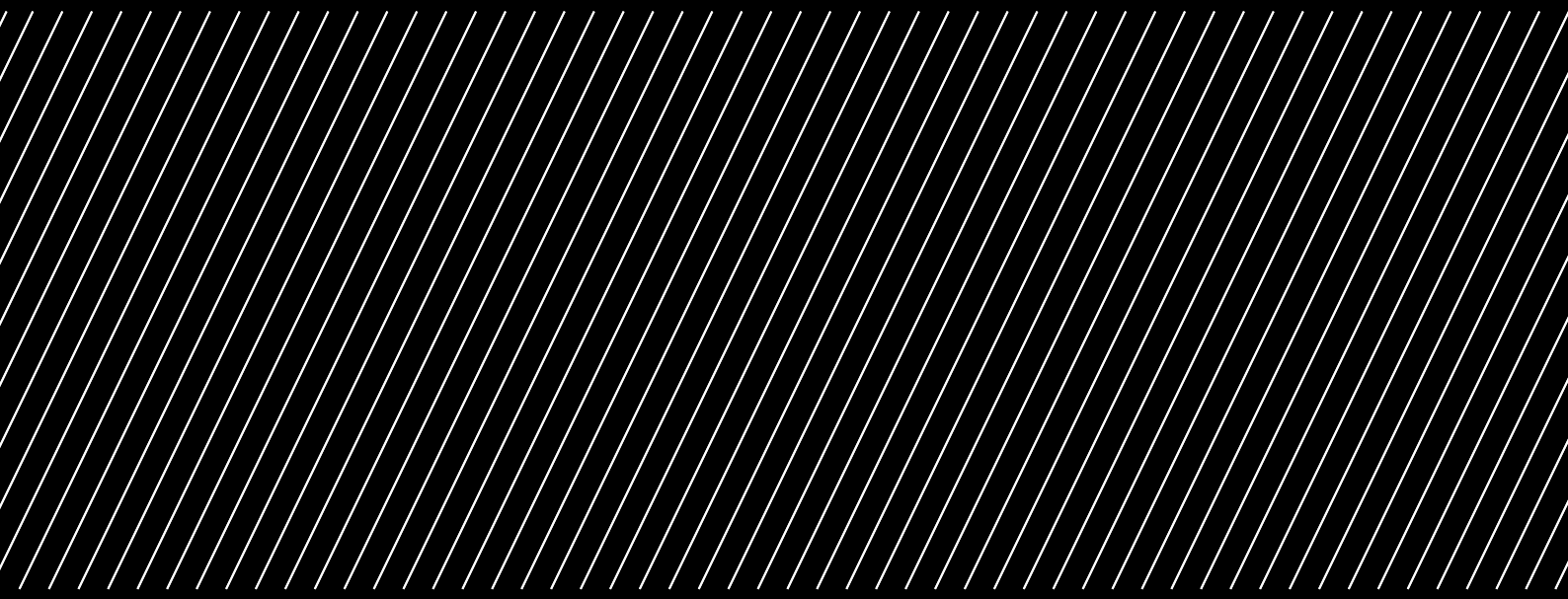
Learn more about Fairview's aluminum cladding systems [here](#).





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