

**STRYÜM**®

Interlocking • Aluminium • Façade

NEW ZEALAND

**PRODUCT INFORMATION**

[WWW.PANELTEC.CO.NZ](http://WWW.PANELTEC.CO.NZ)



A close-up, low-angle shot of a modern architectural ceiling. The ceiling features a grid of recessed lighting fixtures, with one fixture in the foreground being particularly prominent. The lighting is warm and creates a rhythmic pattern of light and shadow across the ceiling's surface.

MODERN

DURABLE

VERSATILE

RECYCLABLE

LIGHTWEIGHT

AUSTRALIAN MADE

INTERLOCKING INSTALLATION

NON-COMBUSTIBLE AS1530.1 AND AS1530.3

## ABOUT STRYÜM

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Offering the largest range of inspiring interlocking boards in the marketplace, utilising Stryüm on your next project will deliver design flexibility. Stryüm can be installed either horizontally or vertically when specified for a truly modern and versatile exterior cladding option.

Using only premium raw materials and finish options – Stryüm achieves an unprecedented level of quality, reliability and longevity. It is a 100% Australian owned and manufactured, solid aluminium facade system; providing maximum fire performance and is deemed non-combustible and certified to AS1530.1 and AS1530.3.

The ventilated rainscreen façade is available in three distinct profiles: Shadow, Seam and Step; allowing for simple concealed fixing and express installation, meeting the demands of every sector where non-combustible materials are required.

Stryüm’s interlocking aluminium panels are designed to be installed on a ventilated substructure in order to create the free circulation of air behind the panels themselves.

Available in an unlimited range of colours, textures and contemporary finish options as well as the availability of both standard and custom sizes; the Stryüm range delivers limitless aesthetic options for use in applications of any scale or in any environment. The express installation system reduces time and cost efficiencies, along with its 15-year warranty, national delivery, support and technical expertise; Stryüm is the ideal premium cladding solution for construction and architectural design professionals.

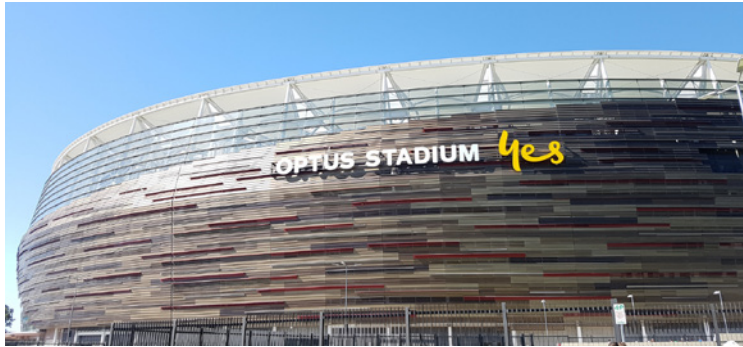
## DOCUMENT TRACKING

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| VERSION # | DATE     | CHANGES                     |
|-----------|----------|-----------------------------|
| 1.0       | 01/02/22 | Initial Issue - New Zealand |



# CASE STUDY



## OPTUS STADIUM

- PROJECT:** OPTUS STADIUM
- LOCATION:** PERTH, WA
- ARCHITECT:** WESTADIUM CONSORTIUM
- BUILDER:** MULTIPLEX
- PRODUCT:** STRYÜM
- COLOUR:** VARIOUS

Stryüm, our Australian-made, non combustible interlocking solid aluminium facade system, was chosen to provide a unique and customised finish to the 60,000 seat Perth Stadium development. The innovative façade for this world-class sporting venue was designed by WESTADIUM, a consortium of three architectural teams: HASSELL, Cox Architecture and HKS Sport + Entertainment.

The stadium features over 16,000m<sup>2</sup> of Stryüm in 6 different anodized colours: 5 variations of bronze and 1 of red. In total, 200 tonnes of local aluminium cladding was manufactured for the project of which 20% was perforated and 80% was solid. There were also an impressive 15 custom extruded profiles used on the façade.

Stryüm high performance cladding profiles are independently tested by the CSIRO according to AS1530.1 and are non-combustible making it a safe choice for any development.



## KEY FEATURES

Quality runs through every element of the Stryüm product range - from aesthetics and the rainscreen facade installation system, through to reliability and product longevity. Committed to sustainability, it is 100% recyclable offering an eco-friendly building solution.

All Stryüm profiles are made of solid aluminium moulded to form the interlocking panels. The New Zealand Building Code highlights the use of non-combustible and limited combustible cladding in which Stryüm is compliant having been fully tested as required to AS1530.1 and AS1530.3.

| PRODUCT       | STRYÜM   |
|---------------|--|
| Product DNA   | Prefinished solid aluminium panel  |
| Finish        | Unlimited powder coat finishes, innovative textured woodgrain finishes and authentic anodised finishes.  |
| Fixing System | Interlocking panels with concealed fixings for express installation.   |
| Application   | Unrestricted use on any building, such as mixed-use developments, residential & commercial construction and large-scale government infrastructure projects like hospitals. |
| Warranty      | 15-year warranty, subject to standard terms and conditions.  |

## PANEL INFORMATION

The typical composition of Stryüm incorporates two elements – extruded solid aluminium and applied finish. In comparison to cassette style ACPs, this interlocking façade system requires minimal fabrication, resulting in lower installation costs and increased efficiency.

Offered in five different profiles, each providing a distinct aesthetic appearance, the Stryüm range is available in various lengths, custom profiles and widths where required.

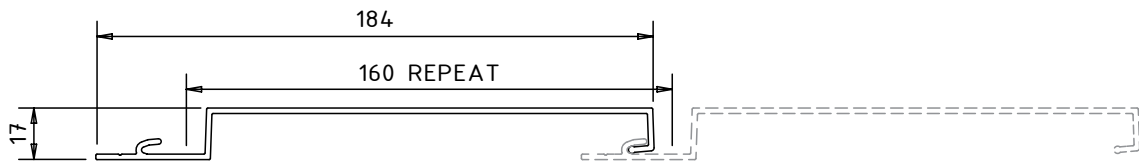
# PROFILES

## SHADOW

Shadow's brilliance lies in its simplicity. From the installation process, to the sustainability factor and finish options – Shadow makes simple special.

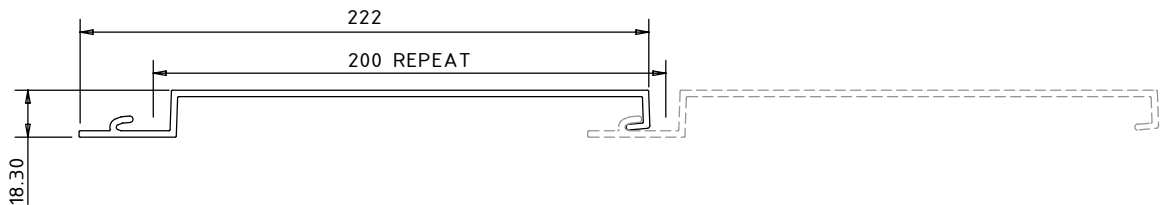
For use in facades of any scale or in any environment – Shadow will bring an enduring and sophisticated flat finish aesthetic with clean shadow lines that are guaranteed to stand the test of time.

### SHADOW 160



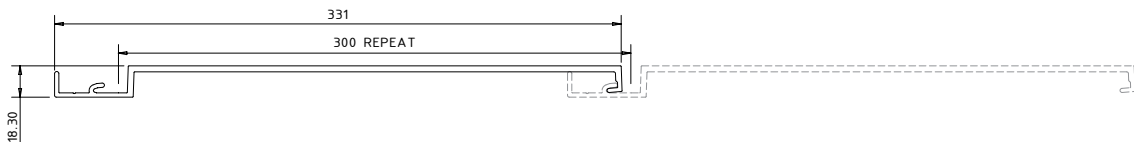
|                  |                              |              |                                  |
|------------------|------------------------------|--------------|----------------------------------|
| Thickness: 1.8mm | Weight: 6.9kg/m <sup>2</sup> | Length: 5.8m | Effective Cover: 160mm per panel |
|------------------|------------------------------|--------------|----------------------------------|

### SHADOW 200



|                  |                               |              |                                  |
|------------------|-------------------------------|--------------|----------------------------------|
| Thickness: 2.5mm | Weight: 8.82kg/m <sup>2</sup> | Length: 5.8m | Effective Cover: 200mm per panel |
|------------------|-------------------------------|--------------|----------------------------------|

### SHADOW 300



|                  |                                |              |                                  |
|------------------|--------------------------------|--------------|----------------------------------|
| Thickness: 3.5mm | Weight: 11.29kg/m <sup>2</sup> | Length: 5.8m | Effective Cover: 300mm per panel |
|------------------|--------------------------------|--------------|----------------------------------|

CUSTOM SIZES AND PROFILES ARE AVAILABLE, PLEASE SPEAK TO THE PANELTEC TEAM

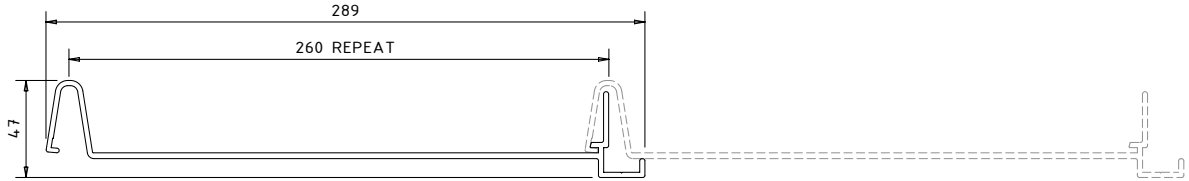




# SEAM

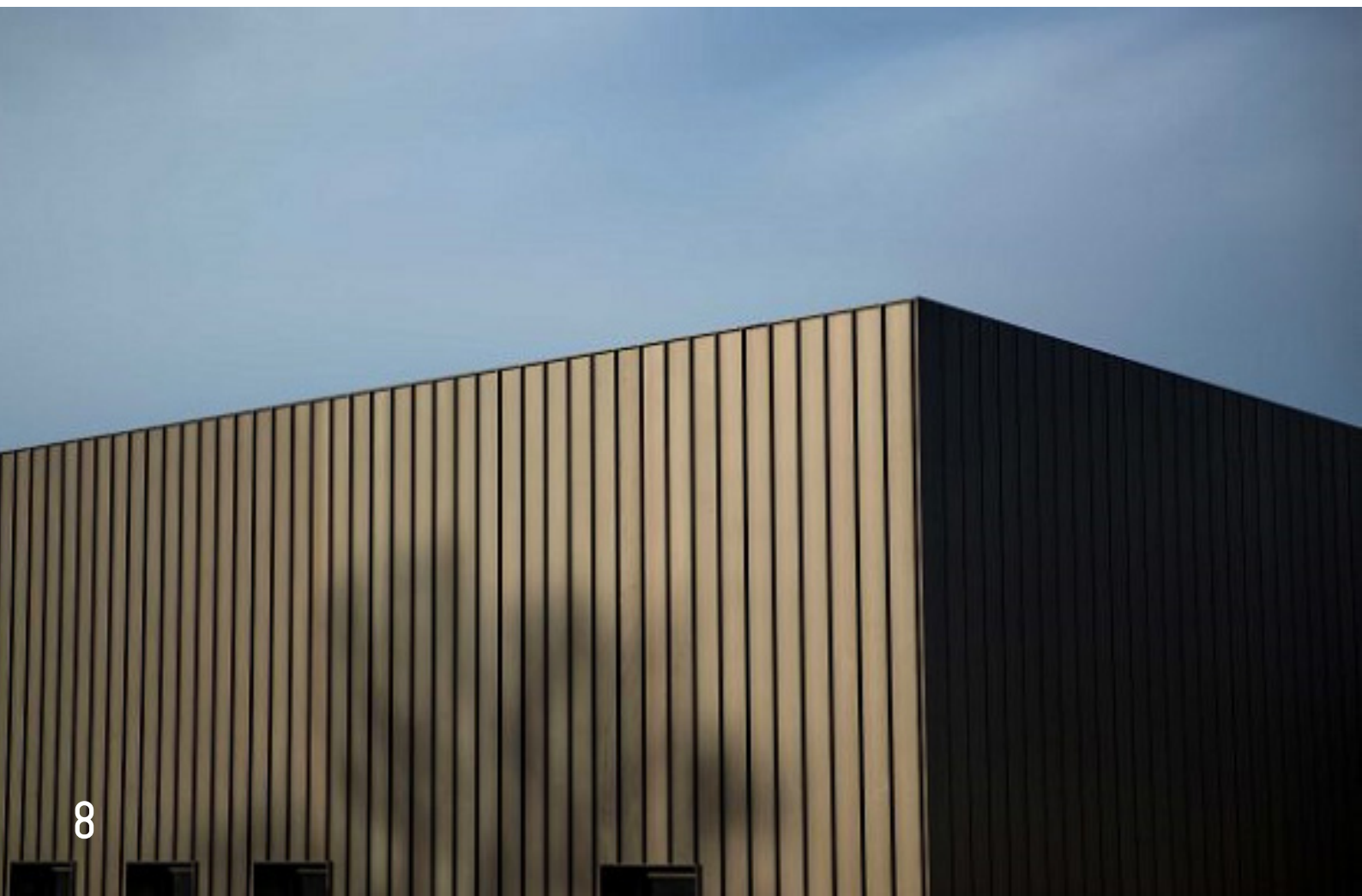
Bold and unrestrained – the standing seam sits proud above the façade – reacting to the environment and casting shifting shadows as light conditions change.

## SEAM 260



|                  |                                |              |                                  |
|------------------|--------------------------------|--------------|----------------------------------|
| Thickness: 2.8mm | Weight: 11.07kg/m <sup>2</sup> | Length: 5.8m | Effective Cover: 260mm per panel |
|------------------|--------------------------------|--------------|----------------------------------|

CUSTOM SIZES AND PROFILES ARE AVAILABLE, PLEASE SPEAK TO THE PANELTEC TEAM



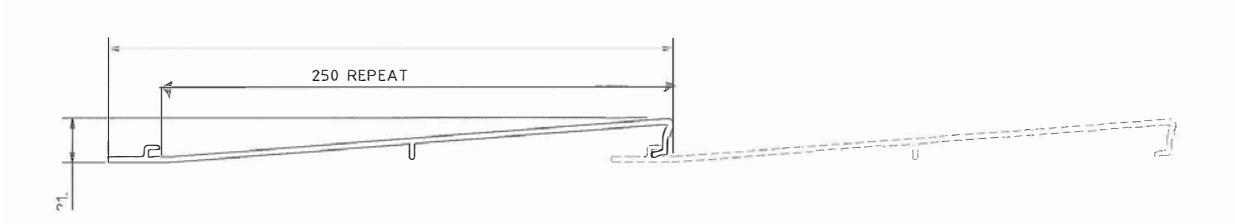


# STEP

Step was the first design in the Stryüm interlocking solid aluminium facade range. A modern take on an enduring classic, reinventing a lasting legacy.

Step panels cascade over one another across a surface adding a sharp and dynamic edge to any façade. familiar dynamic provides clients a sustainable and versatile option for facades of any scale.

## STEP 250



|                  |                               |              |                                  |
|------------------|-------------------------------|--------------|----------------------------------|
| Thickness: 2.8mm | Weight: 9.37kg/m <sup>2</sup> | Length: 5.8m | Effective Cover: 250mm per panel |
|------------------|-------------------------------|--------------|----------------------------------|



## **FINISH**

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To view Stryüm's colour range please visit the Stryüm Colour Chart on our website [www.paneltec.co.nz](http://www.paneltec.co.nz)

### **POWDER COATED**

Powder coating is a process by which electrically charged paint particles are sprayed onto Stryüm's aluminium surface. The aluminium is then cured through baking in a specialised oven to produce a highly durable, flat, powder coated finish.

Stryüm's powder coat range utilises the Interpon Commercial Collection, with the full range of Dulux finishes also available. Can't find a colour that suits?

Custom finishes are also available for any landmark or special project. Consequently, Stryüm customers have access to an almost limitless choice of powder coated finish options, capable of suiting any architectural application and environment.

### **ANODISING**

Anodising is an electrochemical process of highly controlled oxidation of the aluminium product. This process transforms the surface into a highly durable, corrosion resistant finish that maintains a natural yet highly variable look.

Stryüm anodised finishes are available in a wide variety of clear, bronze and coloured finishes. Custom colours are also available for landmark projects. This unlimited versatility provides Stryüm customers with an abundance of options to suit any appearance or application requirement while retaining the unparalleled environmental resistance of anodised products.

### **WOODGRAIN**

Stryüm utilises a new woodgrain technology recently introduced into Australia from Europe. This technology allows for textured woodgrains with a raised grain and much greater durability than traditional methods.

This process is achieved through a powder coat process and has the same durability as our powder coat finishes. Stryüm woodgrains are available in a multitude of finishes and textures, with custom woodgrains available for landmark or special projects.







## APPLICATION DIRECTION

One of Stryüm's finish options is the direction in which the panels are applied. The Stryüm profiles incorporate the ability to apply panels to a façade in vertical or horizontal fashion with equal ease. To make an bold and unique statement, panels may even be applied at an angle across the face of a building, bringing unusual innovation and individuality to any façade.

For custom application angles, please contact Paneltec to discuss the detailing requirements.

| PROFILE    | HORIZONTAL | VERTICAL | CUSTOM |
|------------|------------|----------|--------|
| Shadow 160 | ✓          | ✓        | ✓      |
| Shadow 200 | ✓          | ✓        | ✓      |
| Shadow 300 | ✓          | ✓        | ✓      |
| Seam       |            | ✓        | ✓      |
| Step       | ✓          |          | ✓      |

## FIXING SYSTEM

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Stryüm plate aluminium façade panels have been designed by a team of dedicated engineers and commercial façade installation professionals. Applying the rainscreen principle, the Stryüm system is installed over a weatherproof substructure with air flow, drainage, and ventilation occurring beneath the façade.

Stryüm's panels employ a simple tab-and-hook mechanism that allows each panel to interlock with pre-loaded strength. Stryüm panels then overlap one another, concealing all fixtures and implementing a more modern and dynamic aesthetic.

The Stryüm system has been designed to eliminate the need for external sealants, making installation faster while reducing labour and material costs.

The Stryüm system also incorporates a specially-designed selection of trims, allowing every architectural detail to be met with an effective and aesthetically-pleasing solution.



## APPLICATION

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Stryüm is suitable for application on any construction project including hospitals, mixed-use developments and residential projects. The New Zealand Building Code highlights the use of non-combustible and limited combustibles cladding in which Stryüm is compliant having been fully tested as required to AS1530.1 and AS1530.3. Longevity of Stryüm panels is further enhanced due to the product being designed to eliminate oil-canning, providing long term protection of investments.

## VENTILATED RAINSCREEN FAÇADE

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Developed in Scandinavia in the 1960's as a way of combating harsh climatic conditions – the rainscreen facade principle is integral to the Stryüm system and its installation. Acknowledging that traditional face-sealed facades are unlikely to maintain their watertightness over the life of the cladding, rainscreen facades are more durable and provide much greater weathertightness longevity.

A rainscreen facade involves an outer building layer which deflects heat and moisture with a ventilated void behind, which facilitates air flow and drainage. Maintaining a space between the cladding and the building wall prevents water from infiltrating the building's structure.

This has many benefits including:

- Prevention of thermal bridging
- Dissipation of solar gain
- Reducing thermal movement of the structure
- Prevention of internal condensation and mould growth
- Long term weathertightness durability
- Condensation control
- Allowance for water drainage

## WARRANTY

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The Stryüm sustainable façade range is an incredibly durable material when used in the right application and installed by licensed professionals. Stryüm includes a 15-year warranty, subject to standard terms and conditions.



## DISCLAIMER

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## FOR MORE INFORMATION

For more information and to order online samples about the Stryüm system - visit our website [www.paneltec.co.nz](http://www.paneltec.co.nz) or call 09 439 4357

You'll find resources detailing:

- All architectural details
- Finishing options and colour swatches
- Stryüm technical data
- Stryüm maintenance info
- Warranty information
- Contact information

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1800 007 175  
[www.fv.com.au](http://www.fv.com.au)  
[helpdesk@fv.com.au](mailto:helpdesk@fv.com.au)

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09 439 4357  
[www.paneltec.co.nz](http://www.paneltec.co.nz)  
[info@paneltec.co.nz](mailto:info@paneltec.co.nz)



