



Matrix Series

Product Data Sheet

Insulated Panels
Australia



Product Data

Overview

Matrix Series is a concealed fastener rainscreen wall panel system that features a range of profiles with unique and bold box rib configurations. Profiles within the range can be combined with each other or with panels from the Pulse Series. By combining these interlocking profiles, various architectural effects can be created at the same elevation.

Application

The Matrix Series is a secret-fix solution that can be installed in a vertical or horizontal application. All profiles within the range are offered in the same width allowing for easier site-handling.

Matrix Series profiles are attached via a clip system which can be directly fixed to the external skin of Kingspan Karrier Panels and K-Roc™ Karrier Panel.

Finishes

- **Aluminium:** 3004-H44 aluminium alloy
- **Steel:** G300S steel with AM100 or AM150 metallic coating in accordance with AS 1397:2021. Paint coating in accordance with AS/NZS 2728:2013

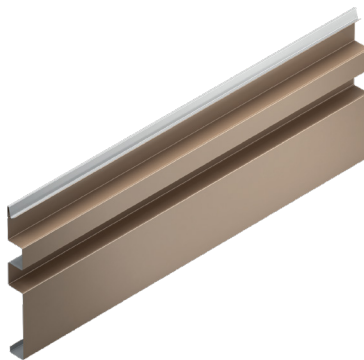
Cassette Profile Types

Matrix Series profile options include MX-1, MX-2, MX-3, MX-8 and MX-10.

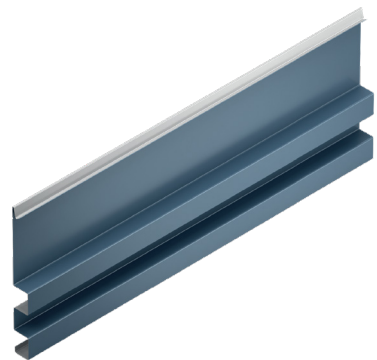
| Matrix MX-1



| Matrix MX-2



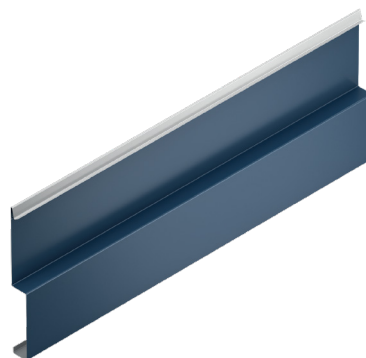
| Matrix MX-3



| Matrix MX-8



| Matrix MX-10



Product Data

Thickness & Weight

- **Steel:** 0.55mm & 0.75mm G300S
- **Aluminium:** 0.9mm AA3004, H44

Aluminium

Profile	0.90mm kg/m ²
MX-1	4.72
MX-2	4.15
MX-3	4.07
MX-8	3.60
MX-10	3.60

Steel

Profile	0.55 BMT kg/m ²	0.75 BMT kg/m ²
MX-1	8.29	11.31
MX-2	7.30	9.96
MX-3	7.14	9.74
MX-8	-	8.64
MX-10	-	8.64

Available Lengths

Maximum length	8000 mm
Minimum lengths	1200 mm

Tolerances

Length	± 5 mm
Width	± 3 mm
Height	± 2 mm

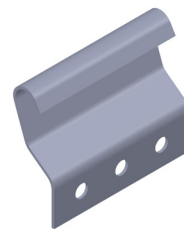
Cover Widths

Standard cover width 305mm

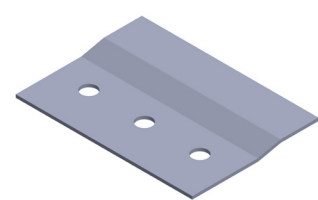
Fixing Method & Material

- **Method:** Secret-fix via a clip system.
- **Material:** Galvanised steel for steel sheets.
Stainless steel for aluminium sheets.
- **Clips:**

| Panel Clip



| Starter Clip



Fire Performance

Reaction to Fire			
Test	Test Method	Aluminium Results	Steel Results
Ignitability (Ignitability Index)	AS/NZS: 1530.3: 1999	0	0
Flame Spread (Spread of Flame Index)		0	0
Heat Release (Heat Evolved Index)		0	0
Smoke Release (Smoke Developed Index)		4	0-2

NCC C2D10(6)(e) requires pre-finished metal sheeting to have a surface finish not exceeding 1mm thick and a Spread of Flame Index non greater than '0'.

Structural Performance

Specific span performance can be provided by Kingspan Technical Services on a project-by-project basis.

Quality & Durability

Matrix Series components are manufactured from the highest quality materials to rigorous quality control standards, complying with the ISO 9001: 2000 standard, ensuring long-term reliability and service life.

Guarantees & Warranties

Kingspan will provide external coating and product guarantees on an individual project basis.

Delivery

All deliveries (unless indicated otherwise) are by flatbed road transport to project site. Off loading is the responsibility of the client. Export orders are transported in shipping containers. WA orders are transported in shipping containers, unless road freight is opted for.

Packaging & Storage

Proper storage of panels is essential. Place on a clean and level surface within a covered area, with a maximum of two bundles stacked on top of each other. Prolonged storage in non-covered areas is not recommended. In cases where storage in a non-covered area is unavoidable, position the sheets on a gently inclined surface to avoid water buildup. Protect the bundles with a UV-resistant waterproof covering that allows for adequate air circulation underneath. Ensure the storage area is located away from potential fire hazards and falling objects to prevent any potential damage.

Handling

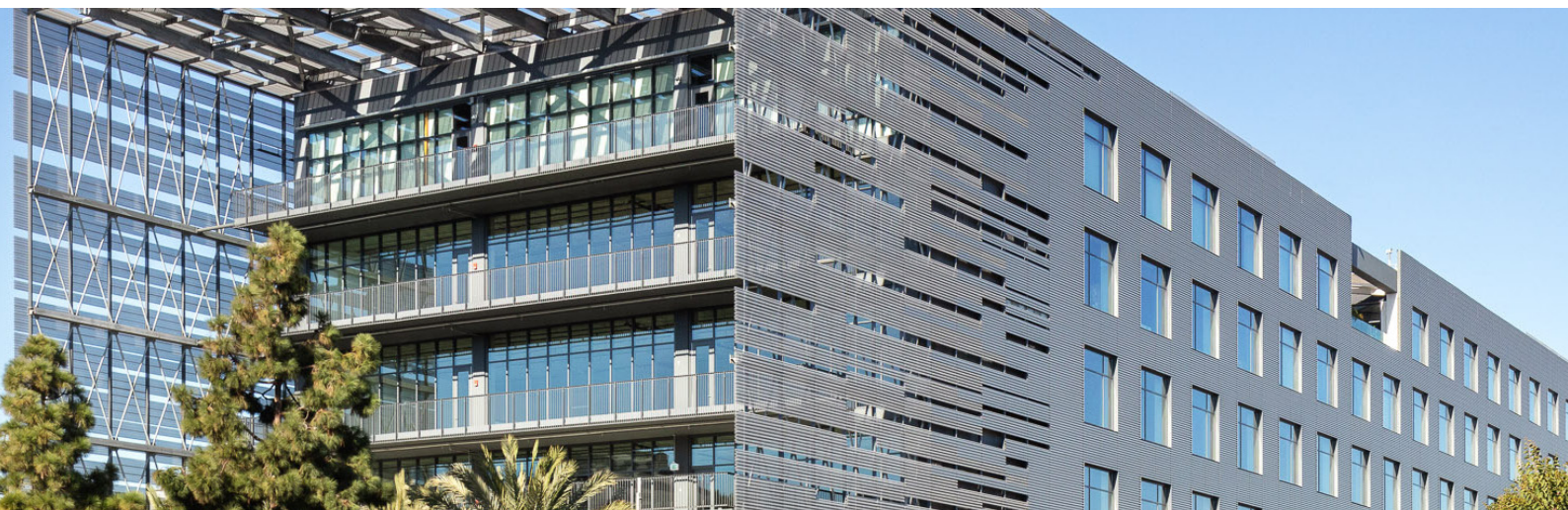
Individual panels must be handled and supported in a longitudinal orientation. When handling panels exceeding 4 metres, additional personnel will be required to support the panel. The recommended distance between each handler will be 2.5 metres. Insufficient number of handlers could cause damage to panel such as warping, buckling or creasing.

Panel handled in a flat orientation will cause warping, buckling or creasing due to improper support at the midpoint.

For details information on bundle loading/unloading methods by forklift or crane, contact Kingspan Customer Services.

Site Installation Procedure

Site assembly instructions are available from Technical Services. Kingspan recommend that the appointed contractor attend the product installation training course prior to installation, which is provided by Kingspan Field Services.



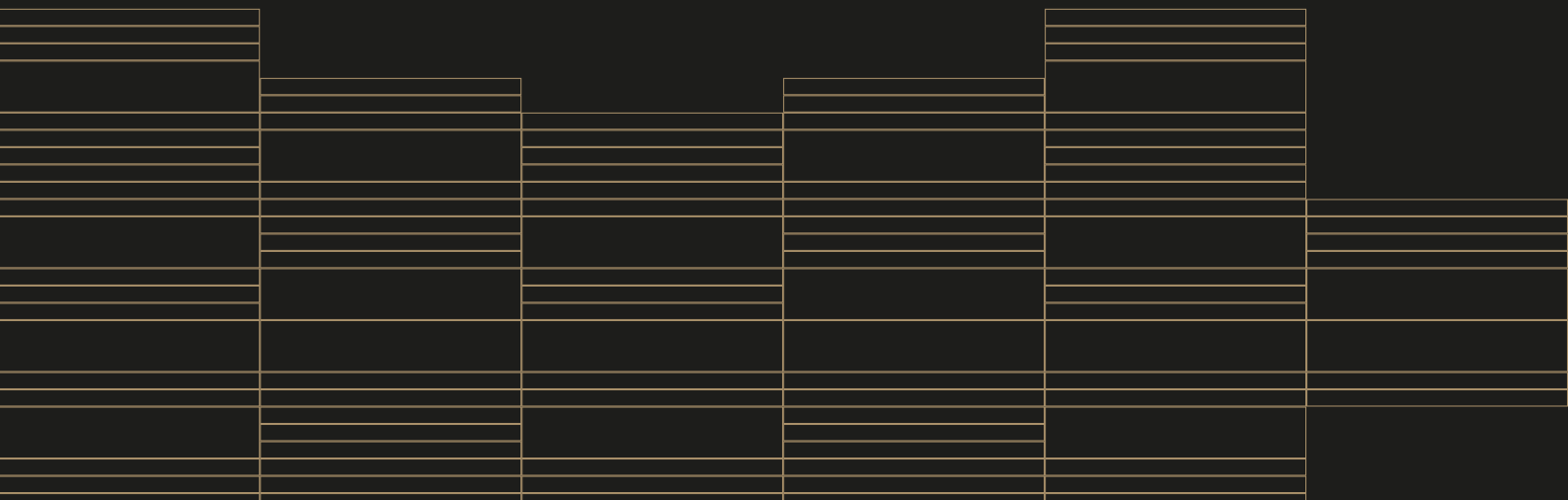


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