

## Product overview



**Made in Perth**



**Deemed non-combustible**



**Acoustic rated**



**Design flexibility**



**Light weight material**



**Easy to install**



**Low maintenance**

## Product description

Paneline panels have been widely used in construction since the 1980s, gaining a reputation as a trustworthy building material celebrated for their exceptional acoustical qualities, design adaptability, strength, and durability. Manufactured locally in Perth, Western Australia, Paneline provides a reliable solution for a wide range of construction needs, with panels measuring 82mm in width and a set 18mm gap (100mm module).

Paneline, evaluated per AS 1397:2011, AS 1530.3, and AS 1580.3 standards, harnesses the inherent qualities of Colorbond steel. It boasts fire resistance and corrosion resistance. Paneline is incredibly versatile and can be customized to fulfill specific requirements for both exterior and interior applications.

## Common applications

- Interior acoustic ceiling systems
- Soffits/ under covered ceilings

## Substrate

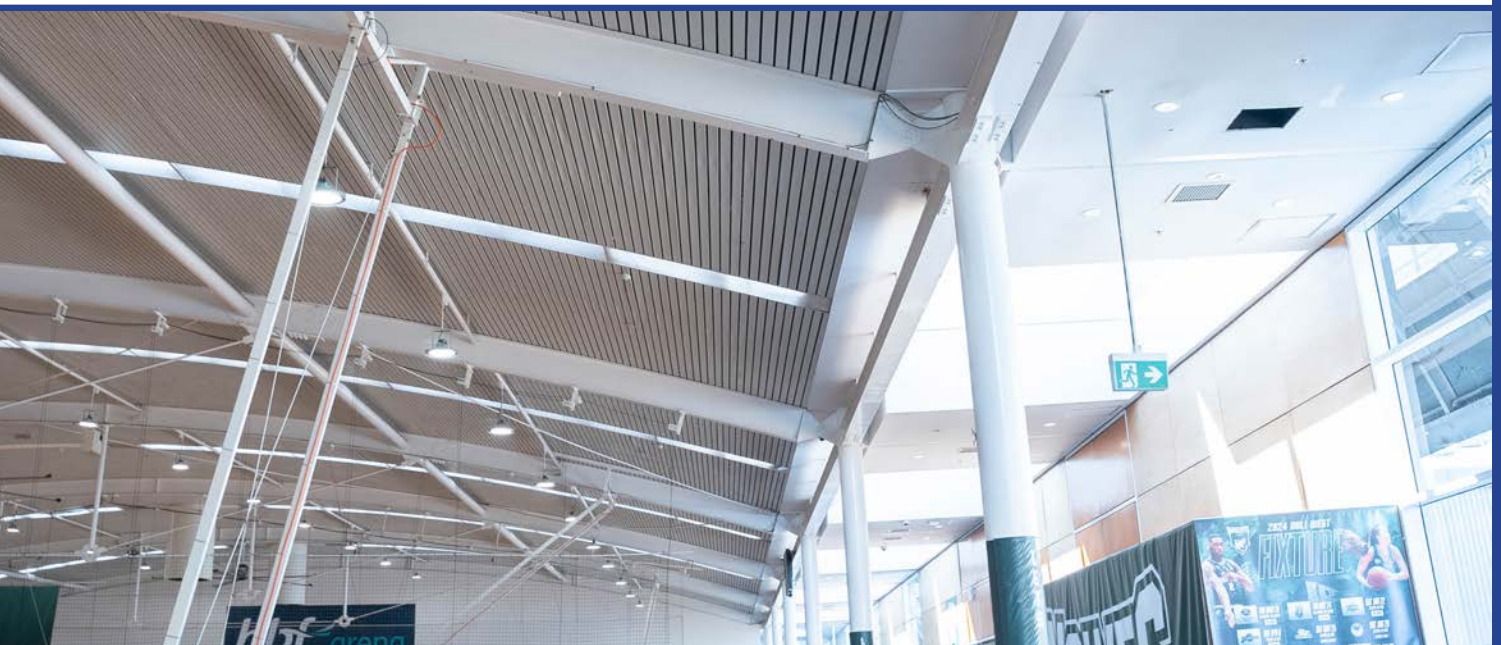
- Australian Colorbond steel

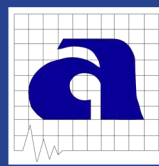
## Panel lengths

Paneline is available in standard panels measuring 82mm x 6m panels, but can be customized to fit specific project requirements, reducing on-site cutting and minimising material waste.

## Warranty & maintenance

Paneline is warranted for 10 years. Please refer to the Acoustics warranty and maintenance documents for the terms and conditions.





## Corrosive and Humidity resistance

Paneline panels are manufactured from steel coils coated in Zinalume, which derives its strength and resilience from the elemental composition of zinc and aluminum. This unique blend results in strips that exhibit the robustness of steel and the corrosion resistance of aluminum. As a result, Paneline is the ideal choice for external and internal soffits, particularly in coastal and humid environments. It complies with:

### Corrosive

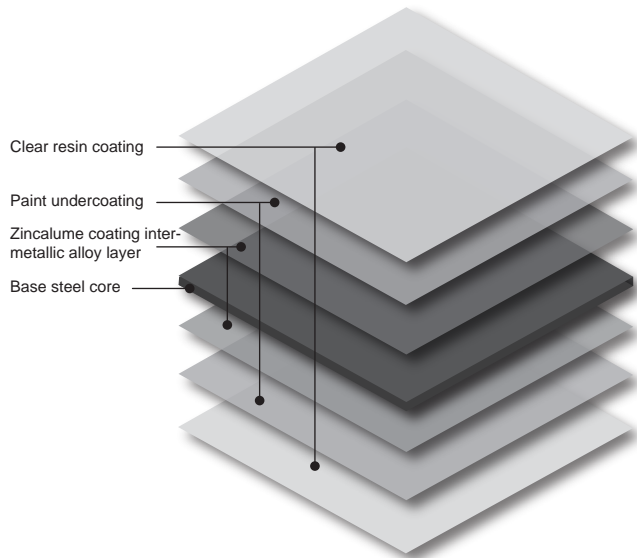
- AS 1397. "Steel sheet and strip - Hot-dipped zinc-coated or aluminium/zinc-coated,"
- AS 1580.481.3-2002 "Paints and related materials"
- AS/NZS 1580.481.1.9:1998 "Blisters"

### Humidity

- AS/NZS 1580.481.1.9:1998 "Blisters"
- AS 1580.408.4-2004 "Adhesion"

## Fire resistance

Paneline is made from Colourbond steel is deemed to be a non-combustible for the purposes of the National Construction Code (NCC) in accordance with Deemed-to-Satisfy (DtS) Provision C1.9 (e) (v) of the NCC BCA Volume One, and Acceptable Construction Practice 3.7.1.1 of the NCC BCA Volume Two . May be used wherever a non-combustible material is required.



## Fire indices

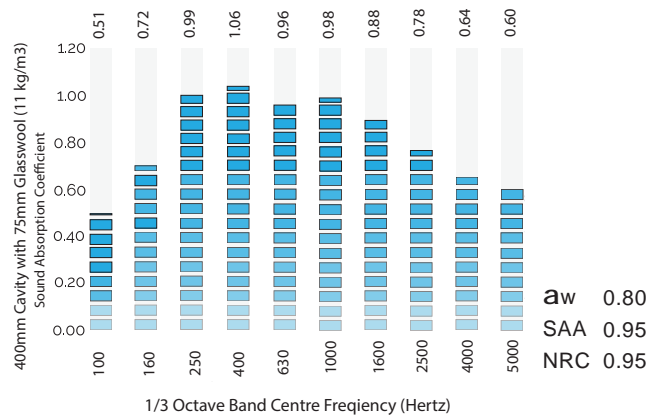
Ignitability Index	Spread of flame Index	Heat evolved Index	Smoke developed Index
0	0	0	2

\*Table reference - BlueScope Certificate of Test, Report No.:FNE11602

## Acoustic performance

Paneline provides a perforated surface option which, when combined with our black acoustic scrim and 75mm glasswool, enhances its ability to achieve a minimum noise reduction level of 0.95. This combination makes it an extremely versatile ceiling product for acoustic performance. Additionally, utilizing the Acoustics "Resilient mount system" can further elevate the NRC level, resulting in superior outcome.

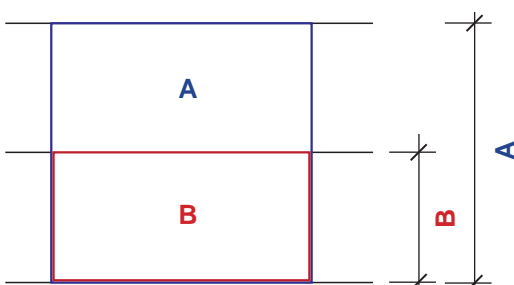
## Acoustics chart for Paneline



## Weight and dimensions

Paneline exhibits remarkable lightweight yet robust properties, weighing approximately 3.55kg/m<sup>2</sup> when installed on a Panelok suspended ceiling system with three or more carriers.

## Panelok spacing Diagram

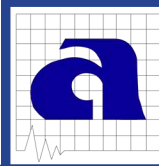


## Weight chart

Width	Module	Min. Length	Max. Length	Weight of panels & carriers/m <sup>2</sup> * With aluminium carriers Including C. 11 joiners
82	100	100	6000	3.55 Kg/m <sup>2</sup>

## Panelok spacing & Max. allowable loads

Ceiling system	Panelok carrier spacing (mm)	Panelok carrier Span (mm)	Allowable Load (kg/m <sup>2</sup> )
A	1200	1200	12.4
B	600	1200	26.0



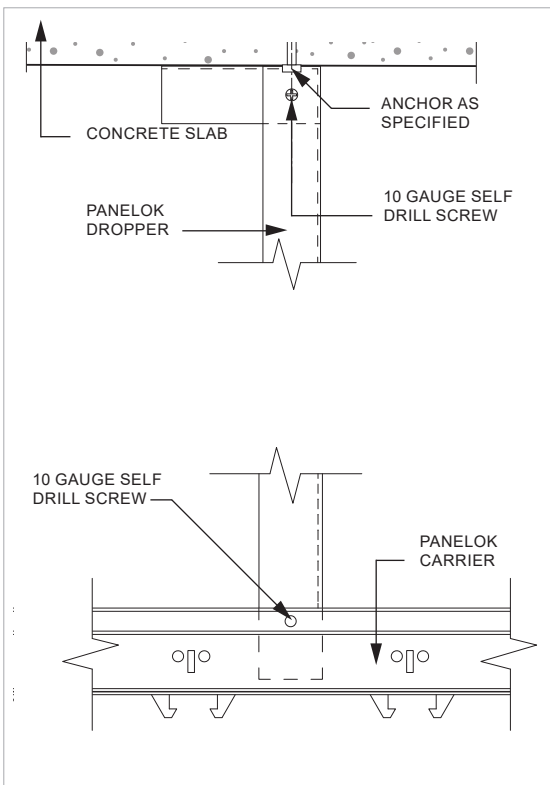
**Paneline installation**

Paneline offers two installation methods, each with unique strengths and costs.

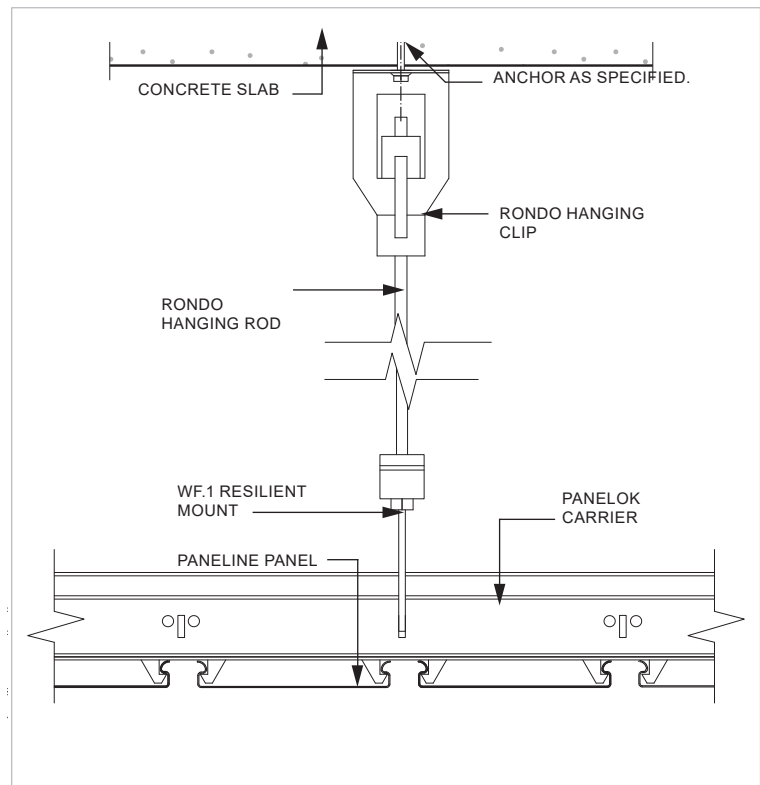
The standard method involves using Panelok droppers, which are quick to assemble, seamlessly integrate with the Panelok carrier rail and Paneline panels, and are cost-effective. They allow for quick adjustments when needed, making them a convenient choice for installation.

For projects demanding an elevated NRC value, we offer a Resilient Mount option. This method employs conventional suspended ceiling construction, utilizing Rondo hanging clips and rods. Attached to these elements are WF.1 Resilient mounts, which effectively diminish the vibration of noise transmitted through Paneline panels, thereby reducing noise transfer throughout the structure.

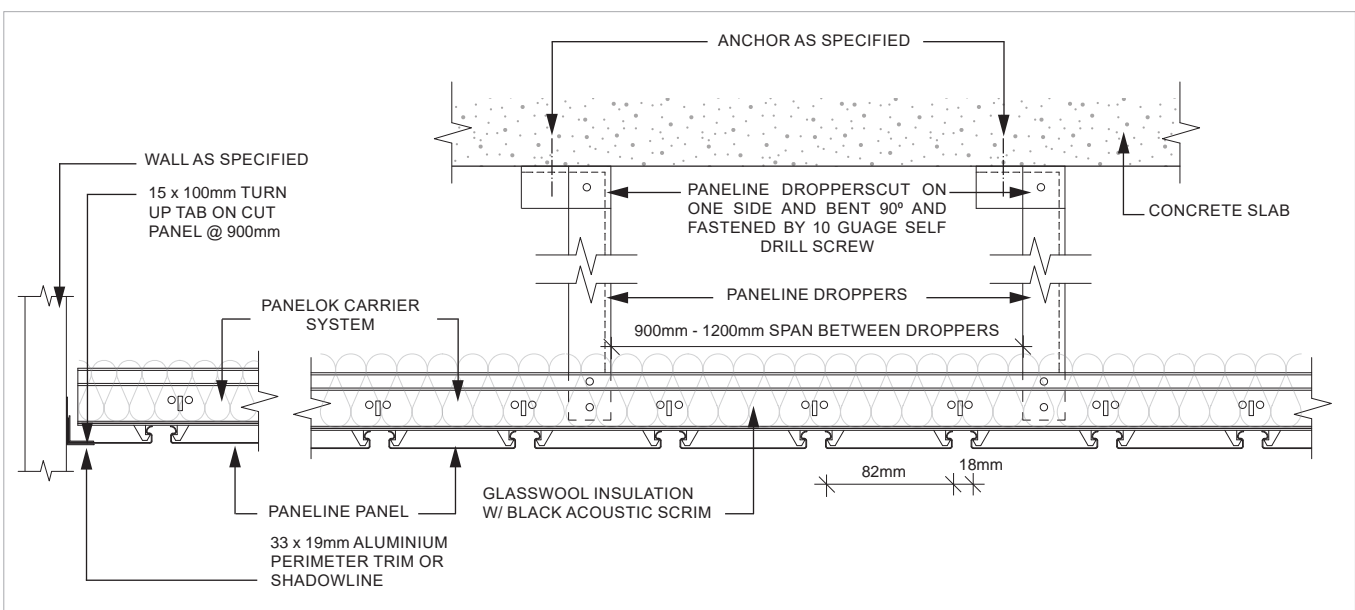
**Panelok dropper to carrier rail**

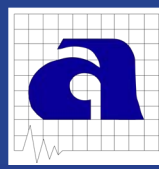


**FW.1 Resilient mount to carrier rail**



**Typical Panelok suspended ceiling section**





### Receiving products / Storage

Upon arrival at the site, it is essential to conduct a thorough inspection of the received products to identify any signs of damage. Subsequently, securely maintain all panels within their packaging and store them in a location protected from direct exposure to the weather or other possible cause of damage. Select a storage area away from high-traffic corridors, ensuring optimal conditioning of the panels before installation.

In the event of Paneline getting wet during storage, it is crucial to separate the panels. Utilise a clean cloth to wipe them dry, keeping them apart to facilitate thorough air drying before returning them to storage. This precautionary step is vital to prevent the occurrence of water stains, which could negatively impact the final appearance of the product.

### Handling and cutting

Exercise caution when handling panels, both during and after delivery, with special attention to edges, corners, be aware of the very sharp edges at the panel ends and take special care to avoid injury. When removing the products from the stack, lift them rather than drag to avoid scratches and/or damage to the surface coating.

When cutting Paneline for installation, employ tools explicitly designed for cutting steel, such as circular saws, nibblers, and jigsaws. Ensure each tool is equipped with appropriate blades tailored for cutting this product, as the use of incorrect blades may result in irreversible damage to the slats. Adhere to recommended tools and accessories, exercising caution, and wearing proper personal protective equipment (PPE) when handling the product

### Installation overview

Before installing Paneline panels, confirm that the suspended ceiling carriers are properly installed at the correct spacing. Inspect the carriers for proper alignment and are at the correct spacing, ensure you replace any damaged carriers before slat installation.

Plan the ceiling layout, considering space dimensions. Refer to ceiling plans for service locations, marking and referencing these points for a smoother installation. When cutting panel, mark and measure them, considering openings and light fixtures. Use appropriate tools to ensure clean and precise cuts.

Commence panel installation from a predetermined reference point used in the set-out, securing them to the ceiling carriers carefully so as not to damage holding clips. Regularly check panel alignment during the process, making necessary adjustments if misalignment occurs. At panel to panel abutments, insert C.11 panel joiners and hand adjust the joint to give best joint alignment. Joints should be within 150mm of carrier rail for the best results.

Towards the end of the installation, remove any dust and debris, ensuring each panel is free of issues or defects. Referring to the Paneline installation guide for details.

