

NAIL STRIP PANEL



ARCHITECTURAL
PANEL SYSTEMS
AUSTRALIA

PRODUCT OVERVIEW

Architectural Panel Systems Nail Strip panels are a modern solution for contemporary and heritage style wall cladding, facades and roofing projects.

The defined rib and flat tray system provides a uniquely elegant appearance.

The male / female relationship between the panels creates a very similar look to the Standing Seam profile, without the use of clips or mechanical seaming tools, making it a cost effective and economical cladding and roofing option.

Panels are available in both a 25mm and 38mm rib height, with fully customised panel widths and cut to length features, the Nail Strip panel is able to accommodate almost all roofing and cladding applications.

Nail Strip panels are an ideal option for those looking to achieve a clearly defined rib and flat panel appearance on their cladding or roofing project.

CHARACTERISTICS

- » Concealed fix cladding & roofing system
- » Clearly defined vertical ribs
- » Versatile and lightweight
- » Continuous flat panel surface finish
- » Suitable for modern & heritage looks
- » Quick and efficient installation

BENEFITS

- » Minimal maintenance requirements
- » Ease of installation via a direct fix method
- » No clips or tools required for installation

DESIGN AND SPECIFICATION

- » Vertical, horizontal and diagonal laying of panels
- » Staggered, brick pattern options
- » Fully customised panel widths
- » 25mm & 38mm rib heights available
- » Endless possibilities for implementing design ideas

USES

- » Commercial
- » Residential
- » Industrial
- » Interior
- » Exterior
- » Wall Cladding
- » Facades
- » Soffits
- » Roofing



MATERIAL FINISHES

Architectural Panel Systems Nail Strip panels are available in a wide range of material finishes, designed to suit all kinds of project applications from basic residential homes and renovations, right through to architecturally designed homes. Our Nail Strip panels have been used on some of the most prestigious and well known projects, nation wide.

From Copper to Colorbond, Nail Strip has been designed to suit the needs of each individual person, while keeping budgets in mind.

PRESTIGE MATERIALS

Our range of prestige materials are on offer for people looking to step outside the box of everyday architecture and design.

These metals are an ideal choice for anyone wanting to achieve the ultimate WOW factor on their project.

This range of materials will bring maximum attention and envy to your design when completed, while providing a unique finish unseen anywhere else.

A perfect choice for anyone who wants to have their project as the talk of the town.

- » Coloured, Textured & Patina Copper
- » Coloured & Patina Copper Alloys (Brass and Bronze)
- » Coloured Titanium
- » Coloured and Textured Stainless Steel
- » Patina Mild Steel
- » Patina Aluminium

COPPER ALLOYS

- » Copper
- » Brass
- » Bronze

SPECIALTY METALS

- » Zinc
- » Corten Steel
- » Stainless Steel
- » Aluminium

BASIC METALS

- » Colorbond Metallic
- » Colorbond Ultra
- » Colorbond
- » Zinalume
- » Galvanised
- » Mild Steel

TOPICAL FINISHES

- *Anodising
- *Powdercoating

Please contact Architectural Panel Systems or visit our website for further information and data on our range of materials and sample requests



INSTALLATION & TECHNICAL DATA

GENERAL INSTALLATION

Nail Strip panels are recommended to be installed on a solid plywood substrate for both roofing and cladding applications.

A continuous ventilated air gap beneath the plywood substrate is required, 20mm for all facades and 40mm for all roofing installations.

Ventilation is recommended to remain at the top and bottom of all panels where possible.

Nail Strip panels are preferably installed with a breathable vapour barrier between the plywood substrate and the panels, to act as a secondary water and moisture shield.

Panels are directly fastened to the plywood substrate, through the pre-punched perforated slots in the underlap of the panel, creating a completely concealed fixing system.



VERTICAL INSTALLATION

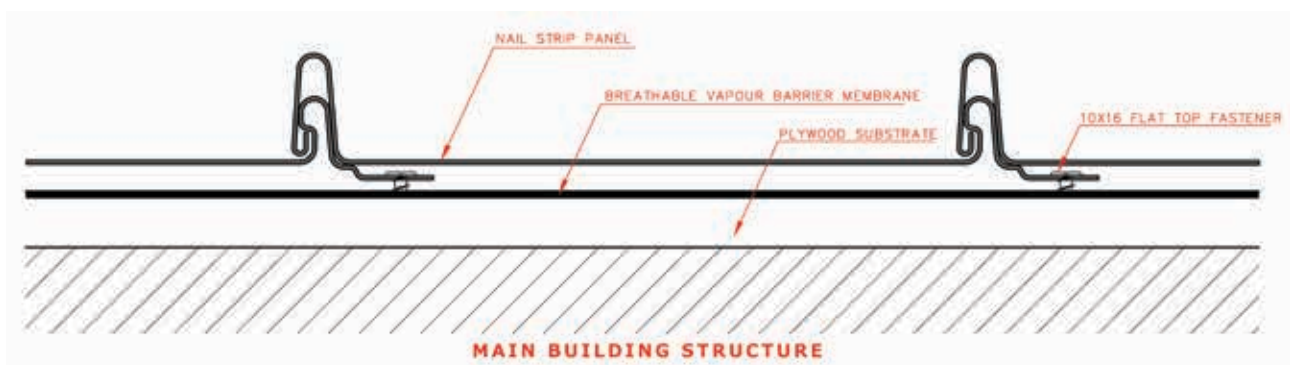
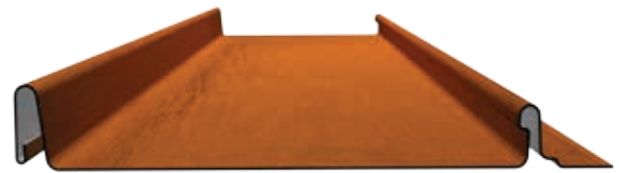
All vertical panels will be required to have a 90 degree wall for recommended installation.

HORIZONTAL INSTALLATION

All panels are required to be installed beginning from the top, working down towards the bottom of the project. The male side of the panel will be required to be facing up at all times.

CURVED INSTALLATION

Curved walls can only be achieved by using a vertical installation.



PANEL WIDTH:

165mm Minimum - 560mm Maximum

STANDARD WIDTHS(25mm Rib):

195mm, 295mm & 495mm

STANDARD WIDTHS(38mm Rib):

165mm, 265mm & 465mm

LAYING DIRECTION:

Vertical, horizontal and diagonal orientations.

Rib Height:

25mm & 38mm rib heights available. (Panels can be mixed and matched)

PANEL LENGTH:

Panels are available up to any length required. We recommend contacting Architectural Panel Systems for further information on material selection and maximum panel lengths for your project, as all materials will react differently depending on the lengths supplied.

PANEL DEPTH(25mm Rib):

25mm depth overall from base of panel to top point of rib.

PANEL DEPTH(38mm Rib):

38mm depth overall from base of panel to top point of rib.

MATERIAL THICKNESS:

0.55mm minimum to 1.0mm maximum. *Material thickness is dependent on material chosen and panel width and length required*

FIXING REQUIREMENTS:

All panels should be fixed directly through the pre-perforated strip on the underlap side of the panel, with the appropriate flat top fastening screws, supplied by Architectural Panel Systems. Please ensure the correct screws are used, to avoid problems and dents in the pans. The fasteners should be driven directly into the plywood substrate, in the centre of the pre-perforated slots, not towards the top or bottom of the slots. This allows for appropriate expansion and contraction of the panels. No clips are required for this system.

SUBSTRUCTURE:

Wall Cladding / Facades: 15mm Plywood, covering the entire area where cladding is required.

Roofing: 19mm Plywood, covering the entire area where roofing is required.

An anti abrasive breathable vapour barrier membrane is required between the plywood substrate and the Nail Strip panel. Each sheet of plywood must rest on at least 3 bearing structure elements. The plywood substrate must be free of any protruding elements that may affect the face of the installed panel.

FLASHING:

All associated flashings are available directly through Architectural Panel Systems. We recommend all installers to use the traditional concealed fixing method with all flashings to provide a high quality finish. The concealed fix method of flashings also allows for thermal expansion and contraction.

PANEL FINISHING:

Architectural Panel Systems recommends all panels are installed and supplied with a stop end or over fold at the top and bottom of the panels for all applications. This will stiffen the panel face, remove any oil canning and also provide a much cleaner, flatter surface finish on all panels. This detailing can be done in house at the factory prior to delivery on site.

CORNER PANELS :

The benefit of using Nail Strip is that all panels can be folded and around vertically laid internal and external corners, eliminating the need for unsightly flashings. All corner panels can be custom fabricated to site specific measurements.

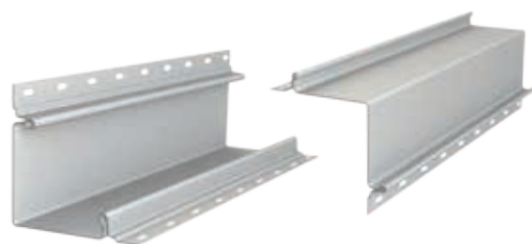
Double Underlap Straight

The double underlap straight panel is an ideal option as a starter panel on one long straight wall, where panels will terminate at both ends. This panel is the perfect choice to start right in the centre of the wall, and begin laying panels in either direction, left and right, so that you end up with an exact same sized panel at the completion of laying the wall.



Double Underlap Corner

The perfect choice for a project in which there is 2 walls only, with either a single internal or external location. This panel is used to start right in the corner position, and begin laying panels in either direction, left and right, so that you end up with an exact same sized panel at the completion of laying the wall. To enhance the effect of this, we recommend using this panel as an exact half size panel, either side of the fold, of your standard width panels.



External & Internal Corners

When laying panels, starting from a generic starting point, you can encounter external and internal corners, where the use of flashings can become unsightly and take away from the overall look of the project. In this case, we can put a fold in the appropriate position of the panel, so you can avoid flashings, keep that clean detailed look and continue laying panels in the same direction.



Double Overlap Corner

Another option for a project where there is 2 walls, which meet at an internal or external corner. This panel can be used where laying has began on the 2 furthest points away from the corner and panels are being laid towards this final corner point. A double overlap corner panel can be measured exactly and clipped over 2 underlaps where the panels are coming to meet at the internal or external corner.



Double Overlap Straight

An option where one long wall is present, and laying has began at either end of the wall, laying towards the middle of the wall. As the panels come towards the centre point, to meet this final panel, an accurate measurement is required from centre to centre of the 2 underlaps and a double overlap straight panel is clipped on over both underlaps of the final panels being laid towards the centre from either direction.



SPECIFICATION TABLE

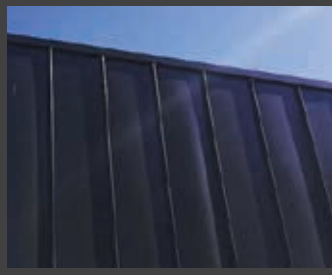
MATERIAL SELECTION	RIB HEIGHT	STD. PANEL WIDTH	THICKNESS	L/M Per M2	WEIGHT PER M2 (PANELS ONLY)	SCREWS PER M2
Copper	25mm	185mm	0.7mm	5.41	10.21	18
	25mm	285mm	0.7mm	3.51	8.84	12
	25mm	485mm	0.9mm	2.07	10.03	7
Zinc	25mm	220mm	0.7mm	4.55	7.7	15
	25mm	385mm	0.7mm	2.6	6.61	9
Stainless Steel	25mm	185mm	0.55mm	5.41	7.52	18
	25mm	285mm	0.55mm	3.51	6.51	12
	25mm	485mm	0.7mm	2.07	7.23	7
Aluminium	25mm	185mm	0.8mm	5.41	3.53	18
	25mm	285mm	0.8mm	3.51	3.05	12
	25mm	485mm	1.0mm	2.07	3.37	7
Brass	25mm	220mm	0.6mm	4.55	8.16	15
	25mm	385mm	0.8mm	2.6	9.22	9
	25mm	185mm	0.6mm	5.41	8.74	18
Bronze	25mm	185mm	0.7mm	5.41	9.34	18
Corten	25mm	285mm	0.7mm	3.51	8.08	12
	25mm	485mm	0.7mm	2.07	7.15	7
	25mm	185mm	0.55mm	5.41	7.39	18
Colorbond Metallic	25mm	285mm	0.55mm	3.51	6.39	12
	25mm	485mm	0.55mm	2.07	5.66	7
	25mm	185mm	0.55mm	5.41	7.39	18
Colorbond Ultra	25mm	285mm	0.55mm	3.51	6.39	12
	25mm	485mm	0.55mm	2.07	5.66	7
	25mm	185mm	0.55mm	5.41	7.39	18
Colorbond	25mm	285mm	0.55mm	3.51	6.39	12
	25mm	485mm	0.55mm	2.07	5.66	7
	25mm	185mm	0.55mm	5.41	7.32	18
Zincalume	25mm	285mm	0.55mm	3.51	6.33	12
	25mm	485mm	0.75mm	2.07	7.58	7
	25mm	185mm	0.55mm	5.41	7.63	18
Galvanised	25mm	285mm	0.55mm	3.51	6.6	12
	25mm	485mm	0.75mm	2.07	7.87	7
	25mm	185mm	0.55mm	5.41	7.63	18
Perforated	25mm	285mm	0.55mm	3.51	6.6	12
	25mm	485mm	0.75mm	2.07	7.87	7

*All information provided above is to be used as a guide and is a recommendation only.

*Panel width, thickness, foam, batten spacings and stop ends can be changed accordingly to suit individual project needs.

*All Panel widths listed are standard sizes only, panels can be rolled into any width required for specific projects.

*Panel weights listed are approximate only.*For a 38mm high rib Nail Strip Panel, please deduct 20mm from the above listed "Std. Panel Width" column.



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