

metroll
architectural
collection

MAC Nail Strip

DECEMBER 2023



Colorbond®

 Metroll®
BETTER SERVICE • BETTER BUILDING SOLUTIONS

MAC - the Metroll Architectural Collection, is a range of contemporary roofing and walling products created specifically with leading edge design in mind.

The many options for material and application provide limitless scope for design, and the quick and easy installation saves cost and time.



NAIL STRIP - MONUMENT®

MAC Nail Strip



MAC Nail Strip roofing and walling is a concealed fix profile ideal for modern and traditional architectural façades.

MAC Nail Strip has an adjustable recessed pan with a raised seam of either 25 mm or 38 mm. The effect of a structure covered with this cladding is a series of continuous wide bands neatly framed by thin ribs.

WEST AUSTRALIA BRANCHES

RIB HEIGHT	25 mm	38 mm
STANDARD PANEL COVER*	190 mm, 283 mm	260 mm
PANEL WIDTH RANGE	190 mm - 465 mm	200 mm - 465 mm
PANEL LENGTHS	1,200 to 6,000 mm. Restrictions may apply.	

SOUTH AUSTRALIA BRANCH

RIB HEIGHT	25 mm	38 mm
STANDARD PANEL COVER*	192 mm, 292 mm	265 mm, 465 mm
PANEL WIDTH RANGE	192 mm - 465 mm	
PANEL LENGTHS	1,000 to 8,000 mm. Restrictions may apply.	

WA & SA BRANCHES

MIN. ROOF PITCH	7.5°
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*Other sizes may be available. Please enquire with your Metroll branch.

CLIPS & FASTENERS

MAC Nail Strip uses concealed fasteners along the perforated edge to secure the panel to the sub-structure. The next panel simply clips on.

STEEL BATTEN	10g - 16 x 16 Wafer Head Screw
TIMBER BATTEN	10g - 12 x 25 mm Wafer Head Wood Screw

MATERIAL AVAILABILITY

COLORBOND® steel
 COLORBOND® steel - Matt finish
 COLORBOND® steel - Metallic finish
 COLORBOND® Ultra steel
 REDCOR® Weathering Steel
 Copper*



Aluminium*

*Subject to enquiry

Front cover photo

Courtesy of Serena Pearce - Code Lime Photography

DATA SHEET: MAC Nail Strip

PROFILE				
PANEL TYPE				
PANEL TOLERANCE	Plus or minus 3 mm			
LAYING DIRECTION	Vertical, Horizontal and Diagonal			
MATERIAL	Material Thickness	Weight m²	Material Warranty	Flammability
Colorbond® Range	0.55 mm	4.9 kg	15 years	Non-combustible
Aluminium	0.70 mm	2.23 kg	15 - 40 years	Non-combustible
Copper	0.7 m	5.5 kg	30 years	Non-combustible
Please contact Metroll for further information on material warranty specifications.				
SUB-STRUCTURE DETAILS				
ROOFING	<ul style="list-style-type: none"> • Timber battens 90 x 45 mm / 70 x 45 mm, or; • Direct fix to 25 mm or 40 mm steel battens. • Optional 19 mm CD grade structural plywood AS/NZS 2269. • Use recommended ProctorWrap roofing grade fully breathable waterproof membrane between MAC Nail Strip and substrate to create separation barrier to avoid condensation. • Minimum roof pitch 7.5° (38 mm recommended). 			
WALL CLADDING	<ul style="list-style-type: none"> • Timber battens 90 x 45 mm / 70 x 45 mm, or; • Direct fix to 25 mm or 40 mm steel battens. • Optional 15 mm CD grade structural plywood AS/NZS 2269. • Use recommended ProctorWrap commercial wall grade fully breathable waterproof membrane between MAC Nail Strip and substrate to create separation barrier to avoid condensation. 			
SUPPORT SPACING	<ul style="list-style-type: none"> • Support/fastened to suit wind load category and span type (see back page for details). • Minimum of 25 mm fastener embedment in CD grade structural plywood. 			
FIXING METHOD	Fastener mechanical fix (Male tab).			
FASTENERS	STEEL BATTEN: 10g - 16 x 16 Wafer Head Screw			
	TIMBER BATTEN: 10g - 12 x 25 mm Wafer Head Wood Screw			

NOTES:

- Metroll recommend installing pan stiffeners. Please contact your Metroll branch for more information.
- Dimensions are subject to manufacturing tolerances.
- Specifications are general and should be used as a guide only.
- Please check with local building codes for specification requirements.
- Individual material warranties warranted by supplier.
- Recommended max. length 4000 mm. Please enquire with your Metroll branch.
- Installation of the product is the sole responsibility of the specified site installer to ensure compliance with the Australian Building Code and site specific requirements.

SPAN CHARTS

Tables and values must be used in conjunction with the Design Notes. These tables apply only for the listed products.

		WIND CATEGORY	INTERNAL	END
MAC NAIL STRIP 25 x 295 mm	ROOFS	N1	900	600
		N2	900	600
	WALLS	N1	1200	1000
		N2	1200	1000
MAC NAIL STRIP 38 x 260 mm	ROOFS	N1	900	600
		N2	900	600
	WALLS	N1	1200	1000
		N2	1200	950

DESIGN NOTES

- Spans shown reflect the minimum value of the Serviceability, Strength and Foot Traffic tables.
- Wind category is based on AS 4055 and results include an allowance for local pressure factors.
- If roof pitch is less than 10 degrees, increase the wind category upwards by 1 and apply to an area not less than 1.2m from all corners.
- Metal supports are produced from a min. 0.55mm hi-tensile steel.
- For most economic results use longer internal spans than end spans (in a ratio of 10:8).
- Equal span systems must be designed using end span values.

LIMIT STATE CAPACITY TABLES

Tables and values must be used in conjunction with the Design Notes. These tables apply only for the listed products.

	LIMIT STATE	SPAN TYPE	PRESSURE (kPa) FOR SPAN (mm)			
			450	600	900	1200
MAC NAIL STRIP 25 x 295 mm	SERVICEABILITY	Internal	0.80	0.80	0.80	0.80
		End	0.80	0.80	0.74	0.65
	STRENGTH	Internal	4.02	3.35	2.30	1.59
		End	3.22	2.68	1.95	1.28
MAC NAIL STRIP 38 x 260 mm	SERVICEABILITY	Internal	0.80	0.80	0.80	0.80
		End	0.80	0.80	0.80	0.80
	STRENGTH	Internal	3.83	3.10	2.30	-
		End	3.07	2.49	1.85	1.20

DESIGN NOTES

- Metal supports are produced from a minimum of 0.55mm hi-tensile steel.
- For most economic results use longer internal spans than end spans (in a ratio of 10:8).
- Equal span systems must be designed using end span values.

FOOT TRAFFIC LIMITS

MAC NAIL STRIP	INTERNAL	END
25 x 295 mm	900	600
38 x 260 mm	900	600

- Foot traffic limits are based on AS/NZS 1170.1 for R2 - Other roofs.
- All traffic must use the designated foot traffic path, and at all times, follow safe practices.
- When walking on MAC Nail Strip roof sheeting always wear flat rubber soled shoes and walk only in the roof pans. Walk only above supports where possible.

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P: 08 9365 5444

OIL CANNING is an inherent characteristic of non-ferrous metals with broad flat areas. The Architect, Builder and Homeowner needs to be aware that Oil Canning may affect the overall aesthetic outcome. There are measures that can be taken during design and installation to minimise the risk, such as ensuring the plywood is flush, the panels are fixed vertically, limiting the continuous length of each panel and reducing the size of the pan. For more information please contact Metroll.

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All reasonable care has been taken in the compilation of the information contained in this brochure. All recommendations on the use of Metroll products are made without guarantee as conditions of use are beyond the control of Metroll. It is the customers responsibility to ensure that the product is fit for its intended purpose and that the actual conditions of use are suitable. Metroll pursues a policy of continuous development and reserves the right to amend specifications without prior notice. The Metroll M and Logo are registered trademarks of Metroll. COLORBOND® and REDCOR® are registered trademarks of BlueScope Steel Limited.



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