

metroll
architectural
collection

MAC Snap Lock



Colorbond®

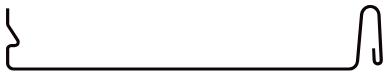
 Metroll®
BETTER SERVICE • BETTER BUILDING SOLUTIONS

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.



MAC Snap Lock



MAC Snap Lock roofing and walling is a concealed fix profile with an adjustable pan and a raised seam.

MAC Snap Lock is similar to MAC Nail Strip in appearance but uses a robust clip system for fast and simple installation. Male and female ribs snap together to create a strong sealed joint making MAC Snap Lock ideal for buildings exposed to severe weather.

Pan Widths	200 to 465 mm
Rib Height	25 mm and 38 mm
Panel Lengths	1000 to 18,000mm. Restrictions may apply.
Min. Roof Pitch	7.5°

CLIPS & FASTENERS

MAC Snap Lock uses concealed fasteners and requires no specialised tools for installation.



STEEL BATTEN	2 x 10g - 16 x 16 Tri Fix Flat Top Screws per Clip
TIMBER BATTEN	2 x 10g - 16 x 16 Wafer Head Screw per Clip

MATERIAL AVAILABILITY

COLORBOND® Steel
 COLORBOND® Ultra
 COLORBOND® Matt
 SUPERDURA® Stainless Steel
 Copper
 Aluminium



DATA SHEET: MAC Snap Lock

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"> • 19 mm CD grade structural plywood AS/NZS 2269. • Timber battens 90 x 45 mm / 70 x 45 mm, or; • Direct fix to 25 mm or 40 mm steel battens. • Use recommended ProctorWrap roofing grade fully breathable waterproof membrane between MAC Snap Lock 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"> • 15 mm CD grade structural plywood AS/NZS 2269. • Timber battens 90 x 45 mm / 70 x 45 mm, or; • Direct fix to 25 mm or 40 mm steel battens. • Use recommended ProctorWrap commercial wall grade fully breathable waterproof membrane between MAC Snap Lock 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: 2 x 10g - 16 x 16 Tri Fix Flat Top Screws per Clip			
	TIMBER BATTEN: 2 x 10g - 16 x 16 Wafer Head Screw per Clip			

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.
- 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.
- Individual material warranties warranted by supplier.
- Recommended max. length 4000 mm. Please enquire with your Metroll branch.

SPAN CHARTS

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

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 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.

MAC SNAP LOCK	WIND CATEGORY	INTERNAL	END
25 x 325 mm ROOFS	N1	900	600
	N2	900	600
25 x 325 mm WALLS	N1	1150	900
	N2	1150	600
	N3	800	600
38 x 285 mm ROOFS	N1	900	600
	N2	900	600
	N3	750	600
38 x 285 mm WALLS	N1	1200	1050
	N2	1200	1050
	N3	1000	800
	N4	650	550

LIMIT STATE CAPACITY TABLES

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.

25 x 325 mm MAC SNAP LOCK

LIMIT STATE	SPAN TYPE	PRESSURE (kPa) FOR SPAN (mm)			
		450	600	900	1200
SERVICEABILITY	Internal	0.55	0.98	0.79	0.53
	End	0.44	0.78	0.79	0.53
STRENGTH	Internal	4.11	3.38	2.52	1.88
	End	3.30	2.71	2.16	1.66

38 x 285 mm MAC SNAP LOCK

SERVICEABILITY	Internal	1.20	1.58	1.52	1.39
	End	1.00	1.27	1.41	1.15
STRENGTH	Internal	4.23	3.83	3.29	2.82
	End	3.40	3.07	2.64	2.49

FOOT TRAFFIC LIMITS

- 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 Snap Lock roof sheeting always wear flat rubber soled shoes and walk only in the roof pans. Walk only above supports where possible.

MAC SNAP LOCK	INTERNAL	END
25 x 325 mm-	900	600
38 x 285 mm	900	600

OIL CANNING

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 your Metroll branch.



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