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MAC Interlocking Panel

Colorbond®

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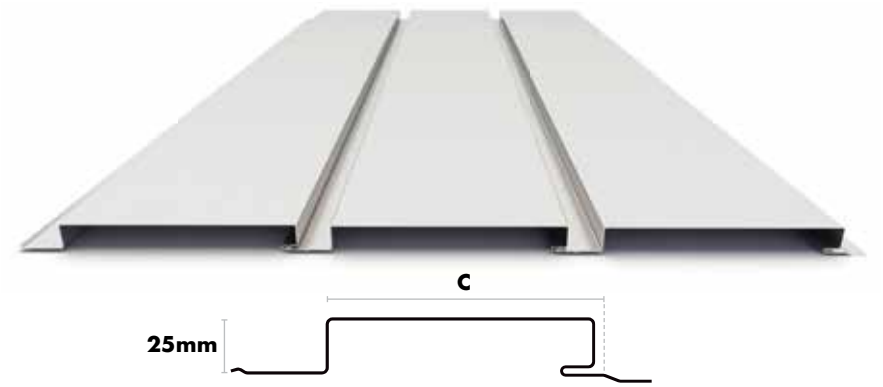
BETTER SERVICE • BETTER BUILDING SOLUTIONS

MAC INTERLOCKING PANEL



FEATURES & BENEFITS

- Architectural appeal
- Quick & easy installation
- Easy to handle tray size
- Horizontal, vertical or diagonal installation allowing for complex designs

MAC Interlocking Panel walling is a concealed fix profile recognised by its shadow-line express joint. MAC Interlocking Panel can be installed horizontally, vertically or diagonally to create an ultra-modern and streamlined aesthetic. Panel width and express joints can be customised, giving flexibility on complex designs. MAC Interlocking Panel is available in WA, SA, QLD and NSW. Enquire with your Metroll branch for availability.

STATE	RIB HEIGHT mm	COVER WIDTH (C) mm	BMT mm	Steel Base MPa	Mass CB kg/m²
WESTERN AUSTRALIA	25	203	0.55	G300	6.55
		296			6.01
SOUTH AUSTRALIA	25	200	0.55	G300	6.65
		300			5.93
QUEENSLAND & NEW SOUTH WALES	25	300	0.55	G300	5.93

FASTENERS

MAC Interlocking Panel is fastener fixed through the female tab.

TIMBER SUPPORTS or 19mm STRUCTURAL PLYWOOD	#10 x 25mm Hex or Wafer Head Type 17 Fastener
STEEL SUPPORTS TO METAL BATTENS 0.55 - 1.0mm	#10 x 16mm Hex or Wafer Head Self Drilling Fastener

Designer head screws can be substituted where preferred

MATERIAL AVAILABILITY

COLORBOND® Steel
COLORBOND® Ultra
COLORBOND® Matt

Copper, Aluminium and other materials may be available, check with your Metroll branch. Material compatibility must be considered.

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MAC INTERLOCKING PANEL LIMIT STATE CAPACITY TABLE

Tables and values must be used in conjunction with the Design Notes.

PROFILE	LIMIT STATE	SPAN TYPE	PRESSURE (kPa) FOR SPAN (mm)			
			450	600	900	1200
25mm Rib Cover up to 300mm	Serviceability	Internal	5.99	6.12	5.91	4.31
		End	3.14	3.21	3.10	2.26
	Strength	Internal	4.50	4.12	2.90	2.37
		End	3.89	3.56	2.51	2.05

DESIGN NOTES:

- MAC Interlocking Panel is suitable for walls only.
- Metal supports are produced from minimum 0.55mm high 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 INTERLOCKING PANEL SPAN CHART

Tables and values must be used in conjunction with the Design Notes.

PROFILE	WIND CATEGORY	INTERNAL SPAN (mm)	END SPAN (mm)
25mm Rib Cover up to 300mm	N1	1200	1050
	N2	1200	1000
	N3	1200	950
	N4	850	650
	N5	450	

DESIGN NOTES:

- Spans shown reflect the minimum value of the Serviceability, Strength and Foot Traffic values of the Limit State Capacity table.
- Wind category is based on AS 4055 and results include an allowance for local pressure factors.
- Table based on 0.55mm hi tensile steel battens or 19mm structural plywood.
- 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 INTERLOCKING PANEL OVERHANGS

The overhangs on MAC Interlocking Panel are limited to the values in the table. Overhangs have a minimum length of 50mm. Stiffened overhangs incorporate an angle attached to the sheet end.

	PLAIN	STIFFENED
WALLING	200mm	400mm

NOTE:

- Plain overhangs are limited to 20% of the adjacent end span.
- Stiffened overhangs are limited to 33% of the adjacent end span.

PANEL LENGTH

MAC Interlocking Panel is made to order to suit the project.

MIN. PANEL LENGTH	800mm
RECOMMENDED MAX. PANEL LENGTH	8000mm

Lengths greater than 8000mm may be available.
Please enquire with your Metroll branch.
Transport length restrictions may apply.
Lengths greater than 8000mm require additional care to reduce the possibility of oil canning.

FOOT TRAFFIC

MAC Interlocking Panel is intended for walls only and should not be used for roofing.

TOLERANCES

Consideration should be given to the following manufacturing tolerances:

Length +0mm, -15mm **Width** ± 4mm

CUSTOM SIZES

MAC Interlocking Panel can be produced to almost any width from 180mm to approximately 500mm. Additional care is required as wider trays become more susceptible to oil canning. Enquire with your Metroll branch for minimum order quantities and technical information.

OIL CANNING

Oil canning appears as waviness or rippling in the flat areas of metal panels. It is a characteristic of light gauge cold rolled metal roofing and cladding products. It can occur on all types of metal sheeting and is not considered a defect. Oil canning is a cosmetic issue and does not affect the structural integrity of the product. Oil canning may occur due to installation methods, thermal expansion and contraction and material colour. To minimise the risk of oil canning, when handling the product avoid twisting or bending the sheets. For more information please refer to the Oil Canning Data Sheet on our website.

THERMAL EXPANSION

Change in temperature will cause all metals to expand and contract. There is minimal effect with steel roofing and walling, however care must be taken when long sheet runs are used and high temperature variations occur. Metroll recommends the following maximum runs:

Dark Colours: Up to 17m	**Light Colours: Up to 24m**

CARE, HANDLING & STORAGE

Care should be taken at all times when handling sheets to preserve the quality of the finish. Keep sheets dry, stored clear of the ground and protected from rain and moisture. Any sheets which become wet should be separated, wiped and placed in the open air to dry. To minimise the risk of oil canning, when handling the product avoid twisting or bending the sheets.

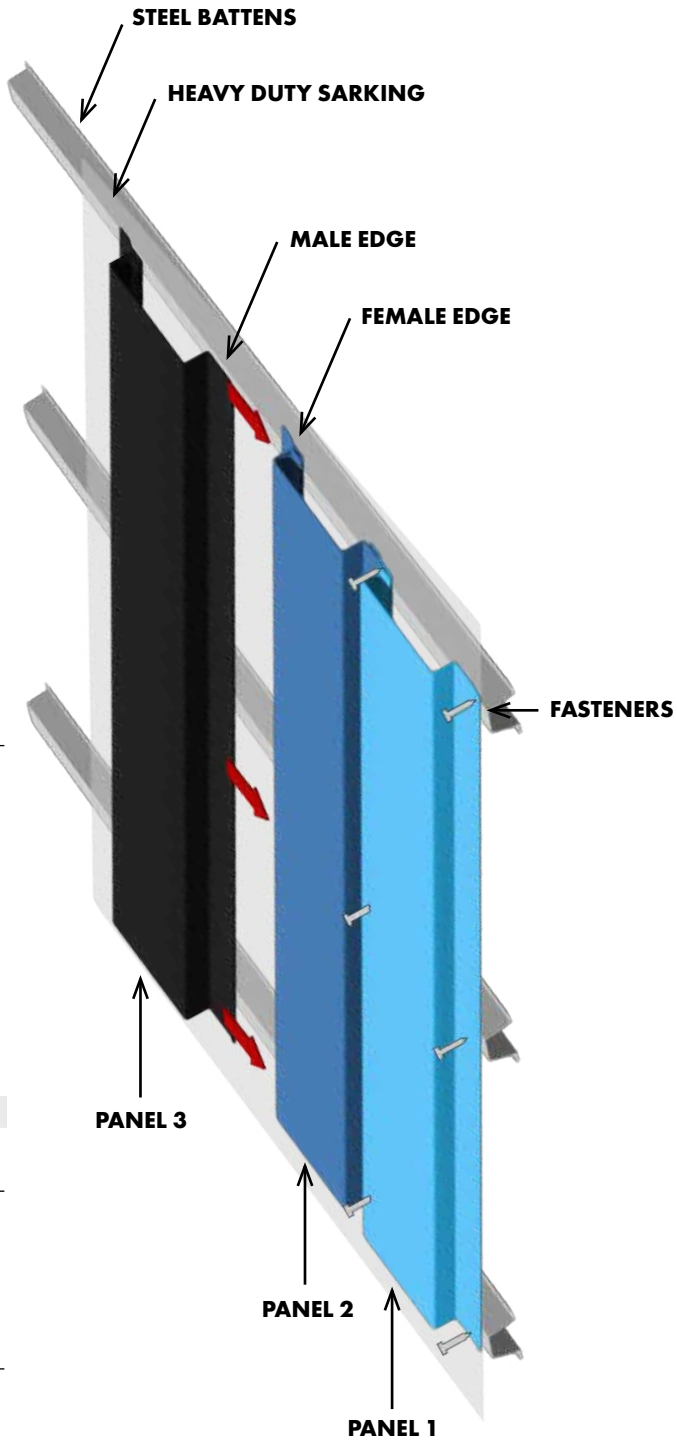
FLAMMABILITY

BlueScope materials used in the production of MAC Interlocking Panel have been tested in accordance with AS 1530.3, Spread of Flame Index is 0. This is considered non-combustible by the NCC.

MAC INTERLOCKING PANEL INSTALLATION

MALE EDGE FEMALE EDGE

Metroll recommends the use of heavy-duty sarking behind the sheeting for condensation control and to ensure weather tightness.



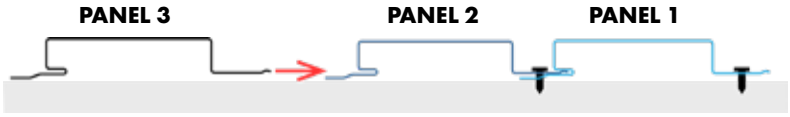
FIXING TO STEEL BATTENS (NON CYCLONIC)

STEP 1

- Position the first panel in the desired location. Secure with fasteners through the leading edge (male edge) of the panel.

STEP 2

- Position the second panel so the leading edge (male edge) slides into place inside the trailing edge (female edge) of the first.
- **IMPORTANT:** Fix into place with fasteners ensuring the fastener penetrates both panels.



STEP 3

- Continue to install the following panels.
- Check every 4th or 5th panel for fanning or cover variation.

STEP 4

- Complete installation fixing fasteners through the trailing edge of the final panel.

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