METRIB® PLUS

SHADOW LINE CLADDING PROFILE

WESTERN AUSTRALIA ONLY

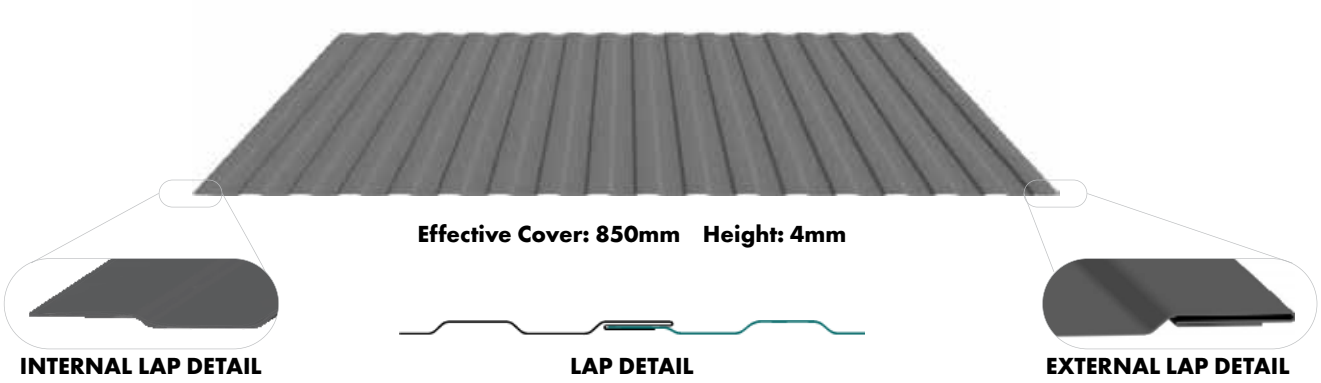
A Met-TECH™ GUIDE

APRIL 2025

Metroll®

BETTER SERVICE • BETTER BUILDING SOLUTIONS

METRIB® PLUS



Metrib® Plus is a wall cladding profile manufactured from 0.35mm and 0.42mm BMT COLORBOND® and ZINCALUME® steels. It features S-Lock side laps to prevent dust and water ingress. The longitudinal flutes provide rigidity along the length of the sheet whilst retaining full flexibility across the width. Metrib® Plus is suitable for many applications where flat sheets cannot be used; including portable buildings, sheds, bus shelters, internal wall linings, soffits and the inner curve of arches.

FEATURES & BENEFITS

- Superior Seal
- Low rib profile.
- Easy & Fast Installation
- Straight & Curved Surfaces
- Internal & External Structures
- Ideal for portable buildings

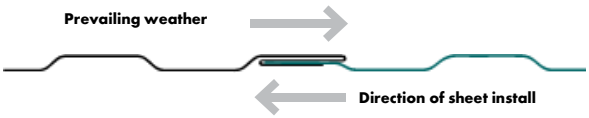
METRIB® PLUS - WALLING

BMT mm	Steel Base Mpa	Mass Colorbond* kg/m²	Mass Zinc kg/m²	Max Spans mm*	
				End	Internal
0.35	G550	3.25	3.19	1000	1250
0.42	G550	3.86	3.80	1000	1250

*Max. Spans are based on N2 Wind Category and 1.5mm substrate

FASTENERS

Metrib® Plus may be fastened to timber or steel supports by valley fixing. There should be 4 fasteners per sheet per support at all supports. For an improved appearance, use 8 fasteners per sheet at end supports. Always face side laps away from the prevailing weather.



WALL FIXING

TIMBER SUPPORTS

RECOMMENDED	#10 x 25mm Hex Head Type 17 Screw + EPDM Washer, OR
ALTERNATIVE	M6 x 25mm Hex Head Universal Screw + EPDM Washer

STEEL SUPPORTS 0.48mm - 1.5mm BMT

M6 x 25mm Hex Head Universal Screw + EPDM Washer

STEEL SUPPORTS 1.5mm - 4.5mm BMT

#10 x 16mm Hex Head Self Drilling Screw + EPDM Washer

Screws are available in a variety of materials, finishes and colours to match COLORBOND® pre-painted steel and design. Use screws to AS 3566.1 (or better). Additional information on fastener finishes is in the BSL technical bulletin TB-16, which provides further guidance as to corrosivity category and fastener selection.

What is Met-TECH™?

Met-TECH™ is Metroll's Technical Resource Centre. It is the one stop shop for all of Metroll's product and technical information. Perfect for builders, contractors and specifiers to source all the information they may require. You can find other Met-TECH™ items on our website **www.metroll.com.au/resources**

SIDE LAPS

The S-Lock side laps of Metrib Plus allow for superior sealing. The use of side lap fasteners is not required making installation quicker. The resulting better appearance accentuates the smooth multi ribbed lines of the cladding.

METRIB® PLUS OVERHANGS - WALLING

The overhangs on Metrib® Plus are limited to the values in the following table. Overhangs have a minimum length of 50mm. Stiffened overhangs incorporate an angle or gutter attached to the sheet end.

BMT (mm)	Plain (mm)	Stiffened (mm)
0.35	100	100
0.42	150	150

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

LENGTH

Metroll supplies Metrib® Plus cut to order as required, but is normally limited to 5m in length. Long lengths, generally exceeding 3m, require careful handling with extra personnel to prevent excessive sheet flexing and shape distortion. Lengths for manufacture need to be site measurements and not taken off plans.

TOLERANCES

Consideration should be give to the following manufacturing tolerances: **Length** +0mm, -15mm **Width** ±4mm.

THERMAL EXPANSION

Change in temperature will cause all metals to expand and contract. There is minimal effect with steel 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	Light Colours
Metrib® Plus	Up to 17m	Up to 24m

MATERIAL SPECIFICATION & SCOPE

All walling should be specified on drawings as Metrib® Plus, manufactured by Metroll and installed in accordance with the manufacturers recommendations. Base sheet steel is G550 with specified finish.

CLEAN UP

Prior to departing the work site remove all foreign debris, screws, rivets and especially any swarf created by drilling or cutting from the wall surface and/or inside gutters. Failure to do so may result in premature corrosion of the roof or gutters.

CUTTING

Cut sheets with a method and in a location so that damage is avoided to sheets and other building products. Material should be cut on the ground and not above other materials. Remove all swarf and debris from the work and installation area. Sheets may be cut using a power saw with a steel cutting blade, a power nibbler or with tin snips. Avoid using abrasive discs as these can cause edge and coating damage.

CARE, HANDLING & STORAGE

Care should be taken at all times when handling sheets to preserve the quality of the finish. Keep packs 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.

MATERIAL COMPATIBILITY

Never use lead flashings with Metrib® Plus sheeting made from COLORBOND® and ZINCALUME® steels. Lead, copper, bare metal and some chemically treated timbers are not compatible with Metrib® Plus.

ADVERSE CONDITIONS

Localised environmental conditions can impact the corrosive nature of a site which may impact on material choice. Conditions that may impact on material choice include; direction of prevailing winds, rainfall intensity, duration of exposure, temperature, shelter and areas not washed by rainfall. Contact your local Metroll branch if you intend to use Metrib® Plus within 1 km of industrial, chemical, marine or corrosive environments.

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, avoid twisting or bending the sheets when handling the product. For more information please refer to the Oil Canning Data Sheet on our website.

AVAILABILITY & DELIVERY

Metrib® Plus is available from select Metroll branches. Contact Metroll for lead times, colours and availability. Ensuring suitable arrangements are made to assist the unloading of Metroll trucks will help supply material in good order. When lifting long lengths by crane please ensure the load is evenly spread. Where a crane cannot be made available it is the customers responsibility to provide sufficient labour to assist the driver in unloading.

0.35mm METRIB® LIMIT STATE CAPACITY TABLE

Tables and values must be used in conjunction with the Design Notes to Limit State Capacity Tables.

0.35mm METRIB® WITH 4 FASTENERS/SHEET/BATTEN

LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	PRESSURE (kPa) FOR SPAN (mm)			
			600	900	1200	1500
SERVICEABILITY	Internal	All	3.95	2.13	0.78	
	End	All	3.39	1.68	0.45	
STRENGTH	Internal	1.50+	8.25	5.95	4.20	3.35
		1.20	8.15	5.43	4.07	3.26
		1.00	5.93	3.95	2.96	2.37
		0.75	4.44	2.96	2.22	1.78
		0.55	4.44	2.96	2.22	1.78
		0.48	3.70	2.47	1.85	1.48
	End	1.50+	7.35	5.15	3.40	
		1.20	7.33	4.89	3.40	
		1.00	5.33	3.56	2.67	
		0.75	4.00	2.67	2.00	
		0.55	4.00	2.67	2.00	
		0.48	3.33	2.22	1.67	

0.42mm METRIB® PLUS LIMIT STATE CAPACITY TABLE

Tables and values must be used in conjunction with the Design Notes to Limit State Capacity Tables.

0.42mm METRIB® PLUS WITH 4 FASTENERS/SHEET/BATTEN

LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	PRESSURE (kPa) FOR SPAN (mm)			
			600	900	1200	1500
SERVICEABILITY	Internal	All	6.21	3.00	0.73	
	End	All	3.60	1.87	0.61	
STRENGTH	Internal	1.50+	10.35	7.50	5.40	4.35
		1.20	8.15	5.43	4.07	3.26
		1.00	5.93	3.95	2.96	2.37
		0.75	4.44	2.96	2.22	1.78
		0.55	4.44	2.96	2.22	1.78
		0.48	3.70	2.47	1.85	1.48
	End	1.50+	8.25	6.05	4.30	3.25
		1.20	7.33	4.89	3.67	2.93
		1.00	5.33	3.56	2.67	2.13
		0.75	4.00	2.67	2.00	1.60
		0.55	4.00	2.67	2.00	1.60
		0.48	3.33	2.22	1.67	1.33

DESIGN NOTES

- For timber battens/purlins, use 1.50+ support thickness values.
- Type 17 screws must penetrate more than 25mm into hardwood or 35mm into softwood.
- Metal supports are produced from 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.

METRIB® SPAN CHARTS

Tables and values must be used in conjunction with the Design Notes to Limit State Capacity Tables.

MATERIAL THICKNESS	SPAN TYPE	SUPPORT THICKNESS (mm)	WALL SPANS (mm) FOR WIND CATEGORY					
			N1	N2	N3	N4	N5	N6
0.35	Internal	1.50+	1250	1250	1150	1100	950	800
		1.20	1250	1250	1150	1100	950	800
		1.00	1250	1250	1150	1100	800	
		0.75	1250	1250	1150	850	600	
		0.55	1250	1250	1150	850	600	
		0.48	1250	1250	1050	700		
	End	1.50+	1000	1000	900	850	750	600
		1.20	1000	1000	900	850	750	600
		1.00	1000	1000	900	850	600	
		0.75	1000	1000	900	700		
		0.55	1000	1000	900	700		
		0.48	1000	1000	850			
0.42	Internal	1.50+	1250	1250	1150	1100	1050	950
		1.20	1250	1250	1150	1100	1050	800
		1.00	1250	1250	1150	1100	800	
		0.75	1250	1250	1150	850	600	
		0.55	1250	1250	1150	850	600	
		0.48	1250	1250	1050	700		
	End	1.50+	1000	1000	900	850	800	750
		1.20	1000	1000	900	850	800	650
		1.00	1000	1000	900	850	600	
		0.75	1000	1000	900	700		
		0.55	1000	1000	900	700		
		0.48	1000	1000	850			

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Can we assist with any additional Steel Building Products?

QLD		NSW		VIC		SA	
Cairns	07 4054 0888	Lismore	02 6622 6677	Sunshine	03 9480 3744	Adelaide	08 8282 3300
Townsville	07 4779 8266	Tamworth	02 6765 4799	Laverton	03 8369 8300	**NT**	
Mackay	07 4968 1255	Newcastle	02 4954 5799	Geelong	03 5248 2006	Darwin	08 8935 9555
Rockhampton	07 4920 0900	Sydney	1300 766 346	Ballarat	03 5335 6416	**WA**	
Bundaberg	07 4155 5999	Dubbo	02 6883 4800	Pakenham	03 8710 9300	Kalgoorlie	08 9024 1388
Toowoomba	07 4634 6144	Wagga Wagga	02 5924 4500	**TAS**		Perth	08 9365 5444
Sunshine Coast	07 5493 7872	Canberra	02 6298 2777	Hobart	03 6335 8555	Bunbury	08 9796 9796
Brisbane	07 3375 0100	Albury	02 6043 6800	Launceston	03 6335 8555	Albany	08 9841 6966

29 Metroll Branches Nationwide

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