METRIB®

SHADOW LINE CLADDING PROFILE

A Met-TECH™ GUIDE

APRIL 2024

Metroll®

BETTER SERVICE • BETTER BUILDING SOLUTIONS

METRIB®

Cover: 850mm Height: 4mm

Metrib® is a cladding profile manufactured from 0.42mm and 0.48mm BMT COLORBOND® and ZINCALUME® steels. It can be used on internal and external structures. The longitudinal flutes provide rigidity along the length of the sheet whilst retaining full flexibility across the width. Metrib® can be used on interior or exterior walls; on straight or curved surfaces and with the flutes in either direction. Designed as a low rib profile, Metrib® is suitable for many applications where flat sheets cannot be used; including sheds, portable buildings, bus shelters, internal wall linings, soffits and the inner curve of arches.

FEATURES & BENEFITS

- Low rib profile - almost flat
- Straight & Curved Surfaces
- Easy & Fast Installation
- Durable & Strong
- Multipurpose
- Suitable as lining
- Alternative to fibre cement & plasterboard

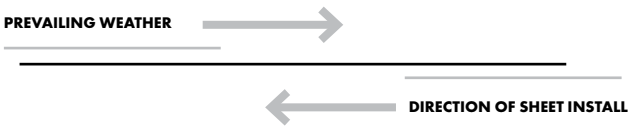
METRIB® - WALLING

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
0.48	G550	4.38	4.32	1000	1300

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

FASTENERS

Metrib® may be fastened to timber or steel supports by valley fixing. There should be 4 fastners per sheet per support at all supports. Always face side laps away from the prevailing weather.



WALL FIXING	
TIMBER OR METAL SUPPORTS ≤ 1.0mm	M6 x 25mm Hex Head Roof Zips, OR
	#10 x 25mm Hex Head Type 17
METAL SUPPORTS > 1.0mm	M6 x 25mm Hex Head Roof Zips, OR
	#10 x 16mm Hex Self Drilling Screws

Use 4 fasteners per sheet at every batten.
For an improved appearance, use 8 fasteners per sheet at end supports.

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**

LENGTH

Metroll supplies Metrib® 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

METRIB® OVERHANGS

The overhangs on Metrib® 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.

WALLING

BMT (mm)	Plain (mm)	Stiffened (mm)
0.35	100	100
0.42	150	150
0.48	150	150

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

MATERIAL SPECIFICATION & SCOPE

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

MATERIAL COMPATIBILITY

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

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®	Up to 17m	Up to 24m

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.

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.

AVAILABILITY & DELIVERY

Metrib® is available from the national network of Metroll branches. Contact your local Metroll branch 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.

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® within 1 km of industrial, chemical, marine or corrosive environments.

0.35mm METRIB® LIMIT STATE CAPACITY TABLES

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® LIMIT STATE CAPACITY TABLES

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

0.42mm 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	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.

0.48mm METRIB® LIMIT STATE CAPACITY TABLES

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

0.48mm 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	7.10	3.43	0.83	
	End	All	4.11	2.14	0.70	0.14
STRENGTH	Internal	1.50+	11.83	7.90	5.93	4.74
		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+	9.43	6.91	4.91	3.71
		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.
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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			
0.48	Internal	1.50+	1300	1300	1200	1150	1050	1000
		1.20	1300	1300	1200	1150	1050	800
		1.00	1300	1300	1200	1150	800	
		0.75	1300	1300	1200	850	600	
		0.55	1300	1300	1200	850	600	
		0.48	1300	1300	1050	700		
	End	1.50+	1000	1000	950	900	800	800
		1.20	1000	1000	950	900	800	650
		1.00	1000	1000	950	900	600	
		0.75	1000	1000	950	700		
		0.55	1000	1000	950	700		
		0.48	1000	1000	850			

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.

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

Visit our website
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