

# MINI CORODEK®

MULTI-PURPOSE DESIGNER CLADDING



A Met-TECH™ GUIDE

MAY 2023



**Metroll®**

BETTER SERVICE • BETTER BUILDING SOLUTIONS

# MINI CORODEK®

- Designer aesthetic
- Custom cut
- Versatile & Easy to install
- Horizontal or vertical installation
- Suitable for curving



**Cover: 825mm Height: 6mm**  
**33 corrugations of 25mm centres per sheet**

Mini Corodek® is a cladding profile manufactured from 0.42mm and 0.48mm BMT COLORBOND® and ZINCALUME® steels. It is suited to interior and exterior applications, but is not intended as a principal roofing material. Mini Corodek® has a vast range of applications; it can be installed flat or curved and with the corrugations in either direction. The longitudinal corrugations provide substantial strength and rigidity while allowing for curving across its width. Mini Corodek® offers a blend of sophisticated styling with the practicality of COLORBOND® steel.

## WALLING

BMT mm	Steel Base Mpa	Mass Colorbond <sup>1</sup> kg/m <sup>2</sup>	Mass Zinc kg/m <sup>2</sup>	Max Spans mm*	
				End	Internal
0.42	G550	3.97	3.91	1150	1450
0.48	G550	4.51	4.45	1150	1450

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

## FASTENERS & FASTENER LOCATIONS

Mini Corodek® may be fastened to timber or steel supports by valley fixing. There should be 11 fixings per sheet at end supports and 6 fixings per sheet at intermediate supports. Always face side laps away from the prevailing weather. Mini Corodek® has a 2 corrugation lap and can be fixed with corrugations running horizontally or vertically. For horizontal fixing start at the bottom of the surface so the upper sheets lap the sheet below it.

<b>Softwood &amp; Hardwood Timber Supports</b>	M4.8-16 x 25mm Ripple Zips®
<b>Steel Supports up to 1.2mm BMT</b>	M4.8-16 x 25mm Ripple Zips®

## LENGTH

Metroll supplies Mini Corodek® 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. Length tolerance for Mini Corodek® is +0mm, -15mm.

## OVERHANGS

The overhangs on Mini Corodek® 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)
0.42	100	100
0.48	125	125

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

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

## AVAILABILITY & DELIVERY

Mini Corodek® is available nationwide. 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.

## 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.

## 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 roof surface and/or inside gutters. Failure to do so may result in premature corrosion of the roof or gutters.

## MATERIAL SPECIFICATION & SCOPE

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

## MATERIAL COMPATIBILITY

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

# MINI CORODEK® LIMIT STATE CAPACITY TABLES

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

### MINI CORODEK® WITH 6 FASTENERS/SHEET/BATTEN

LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	0.42mm				0.48mm			
			PRESSURE (kPa) FOR SPAN (mm)				PRESSURE (kPa) FOR SPAN (mm)			
			600	900	1200	1500	600	900	1200	1500
SERVICEABILITY	Internal	All	5.23	2.67	1.33	0.46	5.23	2.80	1.52	0.53
	End	All	4.69	2.17	1.00	0.34	4.69	2.28	1.14	0.39
STRENGTH	Internal	1.50+	9.25	5.85	4.30	3.50	9.25	6.14	4.91	4.00
		1.20	9.25	5.85	4.30	3.50	9.25	6.14	4.91	4.00
		1.00	8.89	5.85	4.30	3.50	8.89	5.93	4.44	3.56
		0.75	6.67	4.44	3.33	2.67	6.67	4.44	3.33	2.67
		0.55	6.67	4.44	3.33	2.67	6.67	4.44	3.33	2.67
		0.48	5.56	3.70	2.78	2.22	5.56	3.70	2.78	2.22
	End	1.50+	7.30	5.10	3.95	3.15	7.30	5.36	4.51	3.60
		1.20	7.30	5.10	3.95	3.15	7.30	5.36	4.51	3.60
		1.00	7.30	5.10	3.95	3.15	7.30	5.33	4.00	3.20
		0.75	6.00	4.00	3.00	2.40	6.00	4.00	3.00	2.40
		0.55	6.00	4.00	3.00	2.40	6.00	4.00	3.00	2.40
		0.48	5.00	3.33	2.50	2.00	5.00	3.33	2.50	2.00

### 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.

# MINI CORODEK® SPAN CHARTS

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

SPAN TYPE	SUPPORT THICKNESS (mm)	0.48mm						0.42mm					
		WALL SPANS (mm) FOR WIND CATEGORY						WALL SPANS (mm) FOR WIND CATEGORY					
		N1	N2	N3	N4	N5	N6	N1	N2	N3	N4	N5	N6
Internal	1.50+	1450	1450	1400	1250	1100	900	1450	1450	1350	1200	1050	850
	1.20	1450	1450	1400	1250	1100	900	1450	1450	1350	1200	1050	850
	1.00	1450	1450	1400	1250	1100	850	1450	1450	1350	1200	1050	850
	0.75	1450	1450	1400	1250	900	650	1450	1450	1350	1200	900	650
	0.55	1450	1450	1400	1250	900	650	1450	1450	1350	1200	900	650
	0.48	1450	1450	1400	1100	750		1450	1450	1350	1100	750	
End	1.50+	1150	1150	1100	1000	850	700	1150	1150	1050	950	800	650
	1.20	1150	1150	1100	1000	850	700	1150	1150	1050	950	800	650
	1.00	1150	1150	1100	1000	850	700	1150	1150	1050	950	800	650
	0.75	1150	1150	1100	1000	700		1150	1150	1050	950	700	
	0.55	1150	1150	1100	1000	700		1150	1150	1050	950	700	
	0.48	1150	1150	1100	850	600		1150	1150	1050	850	600	

## 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.

### QLD

Cairns	07 4054 0888
Townsville	07 4779 8266
Mackay	07 4968 1255
Rockhampton	07 4920 0900
Bundaberg	07 4155 5999
Toowoomba	07 4634 6144
Sunshine Coast	07 5493 7872
Brisbane	07 3375 0100

### NSW

Lismore	02 6622 6677
Tamworth	02 6765 4799
Newcastle	02 4954 5799
Sydney	1300 766 346
Dubbo	02 6883 4800
Wagga Wagga	02 5924 4500
Canberra	02 6298 2777
Albury	02 6043 6800

### VIC

Sunshine	03 9480 3744
Laverton	03 8369 8300
Geelong	03 5248 2006
Ballarat	03 5335 6416
Pakenham	03 8710 9300
<b>TAS</b>	
Hobart	03 6335 8555
Launceston	03 6335 8555

### SA

Adelaide	08 8282 3300
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### NT

Darwin	08 8935 9555
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### WA

Kalgoorlie	08 9024 1388
Perth	08 9365 5444
Bunbury	08 9796 9796
Albany	08 9841 6966

## 29 Metroll Branches Nationwide

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