0.60 CORODEK®

FOR CURVED APPLICATIONS

A Met-TECH™ GUIDE

APRIL 2025

Metroll®

BETTER SERVICE • BETTER BUILDING SOLUTIONS

0.60 CORODEK®

Cover: 762mm Height: 16mm

0.60 Corodek® is corrugated roofing and wall sheeting manufactured from 0.60mm BMT COLORBOND® steel, ZINCALUME® steel and galvanised steel. G300 soft feed steel is used in 0.60 Corodek® to allow for curving and bending.

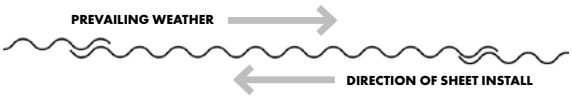
FEATURES & BENEFITS

- Variety of curving styles
- Ideal for Heritage styles
- Wide range of COLORBOND® colours

	BMT mm	Steel Base MPa	Mass CB* kg/m²	Mass Zinc kg/m²	Min. Pitch°	Max. Spans (mm)**	
						End	Internal
0.60 CORODEK® ROOFING	0.60	G300	5.95	5.88	5 (1 in 12)	1600	1800
0.60 CORODEK® WALLING	0.60	G300	5.95	5.88		2400	3000

* CB = Colorbond®
** Max. Spans are based on N2 Wind Category and 1.5mm substrate

FASTENERS



0.60 Corodek® may be fastened to timber or steel supports by conventional crest fixing. There should be 5 fixings per sheet at ends and end laps, and 3 fixings per sheet at intermediate supports. For severe exposure conditions, higher wind pressures can be achieved by use of 5 fixings per sheet at intermediate supports. Always face side laps away from the prevailing weather. 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 in fastener finishes is in the BSL Technical Bulletin TB-16, which provides further guidance as to corrosivity category and fastener selection.

TIMBER SUPPORTS	
ROOF & WALL (CREST FIX)	#12 x 50mm Hex Head Type 17 Screw + EPDM Washer, OR
	M6 x 50mm Hex Head Universal Screw + EPDM Washer
WALL ONLY (VALLEY FIX)	#12 x 25mm Hex Head Type 17 Screw + EPDM Washer, OR
	M6 x 25mm Hex Head Universal Screw + EPDM Washer
STEEL SUPPORTS 0.48mm TO 1.5mm BMT	
ROOF & WALL (CREST FIX)	M6 x 50mm Hex Head Universal Screw + EPDM Washer
WALL ONLY (VALLEY FIX)	M6 x 25mm Hex Head Universal Screw + EPDM Washer
STEEL SUPPORTS 1.5mm TO 4.5mm BMT	
ROOF & WALL (CREST FIX)	#12 x 35mm Hex Head Self Drilling Screw + EPDM Washer
WALL ONLY (VALLEY FIX)	#12 x 20mm Hex Head Self Drilling Screw + EPDM Washer
SIDE LAP FASTENERS (WHERE REQUIRED)	#10 x 16mm Hex Head Universal Screw + EPDM Washer
	OR, 3.2mm Sealed Blind Aluminium Rivet

FASTENER LOCATION

3 FASTENERS PER SHEET

5 FASTENERS PER SHEET

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**

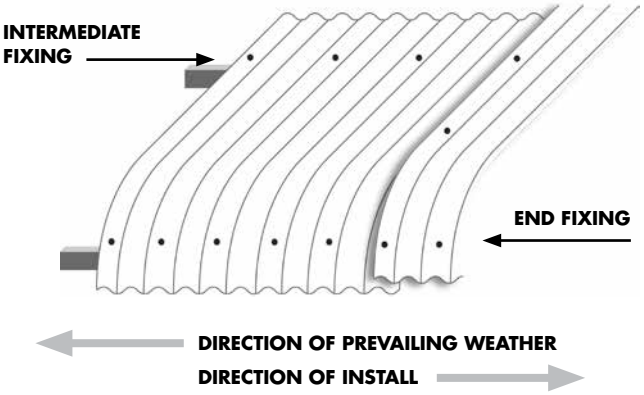
SUPPORT SPACINGS & END LAPS

For typical bullnose verandahs in non-traffic applications, the maximum allowable span is 1800mm. Overlapping sheets need to be secured at mid span with either a heavy duty pop rivet or stitching screw. For roofs with end laps the minimum lap is 200mm for pitches between 5 - 15° and 150mm for pitches above 15°. For walls allow maximum end laps of 100mm.

NOTE: To allow for successful end lapping, always ensure lapped sheets are the same profile, material grade, gauge and coating type.

SIDE LAPS

It is considered good practice to use fasteners on side laps, although these are generally not necessary when the sheeting is supported as indicated in the maximum span tables or for roof spans under 900mm and wall cladding spans under 1200mm. Side lap fastening should be considered if the weather resistance of the joint is questionable for any reason. It is common industry practice to fasten side laps on curved roofs.



SPRING CURVING

BMT	CONCAVE ROOFS		CONVEX/ARCHED ROOFS		
	Min. Radius (m)	Support Spacing	Min. Radius (m)	Support Spacing	Max. Radius for Drainage (m)
0.60	8	800	9	900	35

RIDGE SPRING CURVING
Minimum Spacing of Supports at Ridge (mm)

BMT	PITCH		
	1 in 12 (5°)	1 in 10 (6°)	1 in 8 (6°)
0.60	1300	1400	1400

- Sides to be sealed the length of the curvature with appropriate silicone or sealing tape.
- Fasten each sheet on one side of the curve and pull down.
- Fix alternate sheets from the opposite side of the roof.
- Slight lip wave or crease marks may appear when subjected to foot traffic. These do not affect strength.
- Roof pitch in the non-curved area must not be less than standard recommendations
- Rainfall intensity of 400mm/hr to be used for maximum drainage for curved roofs.
- Side laps only require sealing where the roof pitch is lower than the minimum slope of 5 degrees.

0.60 CORODEK® OVERHANGS

The overhangs on 0.60 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.

	Plain (mm)	Stiffened (mm)
ROOFING	200	250
WALLING	200	300

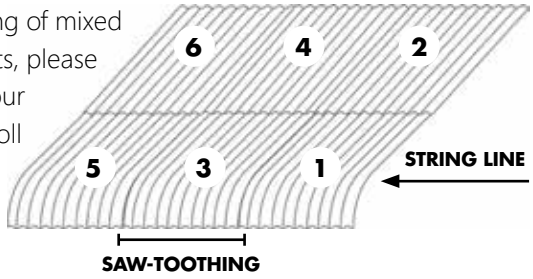
- Plain overhangs are limited to 20% of the adjacent end span.
- Stiffened overhangs are limited to 33% of the adjacent end span.

INSTALLATION

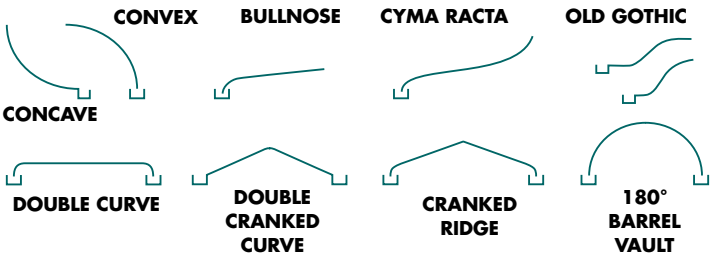
Use a level to lay the first sheet of 0.60 Corodek®. To ensure overlaps are snug Metroll recommends using a rope with a hook. Position the overlap and place the hook over the far end of the sheet running the rope down the overlap towards the curved end. Apply a downward force to the end of the rope while tapping the sheet. A loop in the end of the rope can act as a stirrup for the fixer. Always measure every third or fourth sheet to check for squareness.

LAYING SEQUENCE

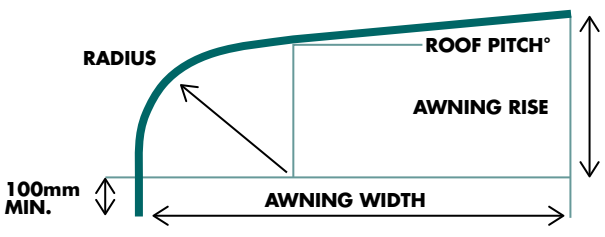
For projects that require lapping of 0.60 Corodek®, ensure the below sequence of sheet installation is followed. For end lapping of mixed BMT sheets, please contact your local Metroll branch.



CURVING STYLES



CURVING DETAILS



NOTE: Metroll takes no responsibility for variances on sheets curved from drawings. A template should be supplied to ensure accuracy. The min. recommended curving radius is 450mm.

0.60 CORODEK® LIMIT STATE CAPACITY TABLES

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

0.60 CORODEK® WITH 3 FASTENERS / SHEET / BATTEN

LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	PRESSURE (kPa) FOR SPAN (mm)								
			600	900	1200	1500	1800	2100	2400	2700	3000
SERVICEABILITY	Internal	All	4.61	3.65	2.83	2.20	1.73	1.35	1.06	0.81	0.59
	End	All	4.66	3.57	2.61	1.93	1.37	1.04	0.78	0.57	0.40
STRENGTH	Internal	1.5+	10.99	9.87	7.80	6.24	5.20	4.46	3.90	3.47	3.12
		1.2	8.74	5.83	4.37	3.50	2.91	2.50	2.18	1.94	1.75
		1.0	8.11	5.41	4.06	3.25	2.70	2.32	2.03	1.80	1.62
		0.75	6.87	4.58	3.43	2.75	2.29	1.96	1.72	1.53	1.37
		0.55	4.99	3.33	2.50	2.00	1.66	1.43	1.25	1.11	1.00
		0.48	4.37	2.91	2.18	1.75	1.46	1.25	1.09	0.97	0.87
	End	1.5+	9.99	9.36	7.02	5.62	4.68	4.01	3.51	3.12	2.55
		1.2	7.87	5.24	3.93	3.15	2.62	2.25	1.97	1.75	1.57
		1.0	7.30	4.87	3.65	2.92	2.43	2.09	1.83	1.62	1.46
		0.75	6.18	4.12	3.09	2.47	2.06	1.77	1.54	1.37	1.24
		0.55	4.49	3.00	2.25	1.80	1.50	1.28	1.12	1.00	0.90
		0.48	3.93	2.62	1.97	1.57	1.31	1.12	0.98	0.87	0.79

0.60 CORODEK® WITH 5 FASTENERS / SHEET / BATTEN

LIMIT STATE	SPAN TYPE	SUPPORT THICKNESS (mm)	PRESSURE (kPa) FOR SPAN (mm)								
			600	900	1200	1500	1800	2100	2400	2700	3000
SERVICEABILITY	Internal	All	9.69	8.28	4.80	2.60	1.54	1.26	1.08	0.97	0.80
	End	All	9.69	6.43	3.87	2.19	1.29	0.91	0.76	0.62	0.45
STRENGTH	Internal	1.5+	11.71	11.71	11.71	10.96	9.14	7.83	6.85	6.09	5.48
		1.2	11.71	10.23	7.68	6.14	5.12	4.39	3.84	3.41	3.07
		1.0	11.71	9.50	7.13	5.70	4.75	4.07	3.56	3.17	2.85
		0.75	11.71	8.04	6.03	4.82	4.02	3.45	3.02	2.68	2.41
		0.55	8.77	5.85	4.39	3.51	2.92	2.51	2.19	1.95	1.75
		0.48	7.68	5.12	3.84	3.07	2.56	2.19	1.92	1.71	1.54
	End	1.5+	11.75	11.75	11.75	9.87	8.22	7.05	6.17	5.38	4.35
		1.2	11.75	9.21	6.91	5.53	4.61	3.95	3.45	3.07	2.76
		1.0	11.75	8.55	6.41	5.13	4.28	3.67	3.21	2.85	2.57
		0.75	10.86	7.24	5.43	4.34	3.62	3.10	2.71	2.41	2.17
		0.55	7.89	5.26	3.95	3.16	2.63	2.26	1.97	1.75	1.58
		0.48	6.91	4.61	3.45	2.76	2.30	1.97	1.73	1.54	1.38

DESIGN NOTES

- For timber battens/purlins, use 1.5+ support thickness values.
- Fasteners 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.
- Refer to the fastener location guide for correct fastener locations.

0.60 CORODEK® SPAN CHART

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

FASTENER FREQUENCY	SPAN TYPE	SUPPORT THICKNESS (mm)	ROOF SPANS (mm) FOR WIND CATEGORY						WALL SPANS (mm) FOR WIND CATEGORY					
			N1	N2	N3	N4	N5	N6	N1	N2	N3	N4	N5	N6
3/SHEET	Internal	1.5+	1800	1800	1800	1800	1400	1000	3000	3000	2650	2200	1750	1350
		1.2	1800	1800	1800	1300	850	650	3000	3000	2550	1700	1150	850
		1.0	1800	1800	1800	1200	800	600	3000	3000	2350	1600	1050	800
		0.75	1800	1800	1500	1000	650		3000	3000	2000	1350	900	650
		0.55	1800	1700	1100	700			3000	2300	1450	950	650	
		0.48	1800	1500	950	650			2750	2000	1250	850		
	End	1.5+	1600	1600	1600	1450	1100	800	2400	2400	2100	1750	1400	1050
		1.2	1600	1600	1550	1000	700		2400	2400	2050	1350	900	700
		1.0	1600	1600	1400	950	650		2400	2400	1900	1250	850	650
		0.75	1600	1600	1200	800			2400	2400	1600	1050	700	
		0.55	1600	1350	850				2400	1800	1150	750		
		0.48	1600	1200	750				2200	1600	1000	650		
5/SHEET	Internal	1.5+	1800	1800	1800	1750	1550	1400	3000	3000	2900	2100	1700	1500
		1.2	1800	1800	1800	1750	1550	1150	3000	3000	2900	2100	1700	1500
		1.0	1800	1800	1800	1750	1400	1050	3000	3000	2900	2100	1700	1400
		0.75	1800	1800	1800	1750	1200	900	3000	3000	2900	2100	1600	1200
		0.55	1800	1800	1800	1300	850	650	3000	3000	2550	1700	1150	850
		0.48	1800	1800	1700	1100	750		3000	3000	2250	1500	1000	750
	End	1.5+	1600	1600	1600	1400	1200	1100	2400	2400	2300	1650	1350	1200
		1.2	1600	1600	1600	1400	1200	900	2400	2400	2300	1650	1350	1200
		1.0	1600	1600	1600	1400	1150	850	2400	2400	2300	1650	1350	1100
		0.75	1600	1600	1600	1400	950	700	2400	2400	2300	1650	1300	950
		0.55	1600	1600	1550	1000	700		2400	2400	2050	1350	900	700
		0.48	1600	1600	1350	900	600		2400	2400	1800	1200	800	600

DESIGN NOTES

- Spans shown reflect the minimum value of the Serviceability, Strength and Foot Traffic tables.
- The Wind Category is based on AS 4055 and results include an allowance for local pressure factors.
- If roof pitch is less than 10 degrees, then increase the Wind Category upwards by 1, e.g lift N2 to N3 and apply to an area not less than 1.2m from all corners.
- For timber battens/purlins, use 1.5+ support thickness values.
- Fasteners 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.

SAW-TOOTHING

Saw-toothing occurs when curved sheets are overlapped. This is an inherent part of bullnosing and cannot be avoided. To ensure that the roof is running square it is essential that the saw-tooth at each sheet end are equal in measurement.

LENGTH

Metroll supplies 0.60 Corodek® cut to order as required; depending on load limit regulations as set by local transport authorities. Lengths for manufacture and shape/ radius of curves need to be site measurements and not taken off plans.

TOLERANCES

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

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.

WALKING ON 0.60 CORODEK®

When walking on 0.60 Corodek® roof sheeting always wear flat rubber soled shoes and only walk in areas where purlins or batten supports are installed.

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.

CLEAN UP

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

MATERIAL SPECIFICATION & SCOPE

All roofing and walling should be specified on drawings as 0.60 Corodek®, manufactured by Metroll and installed in accordance with the manufacturers recommendations. Base sheet steel is G300 with specified finish.

MATERIAL COMPATIBILITY

Never use lead flashings with 0.60 Corodek® sheeting made from COLORBOND® and ZINCALUME® steels. Avoid drainage from copper roofs onto COLORBOND®, ZINCALUME® or galvanised steel roofing or rainwater products. Lead, copper, bare material and some chemically treated timbers are not compatible with 0.60 Corodek®.

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

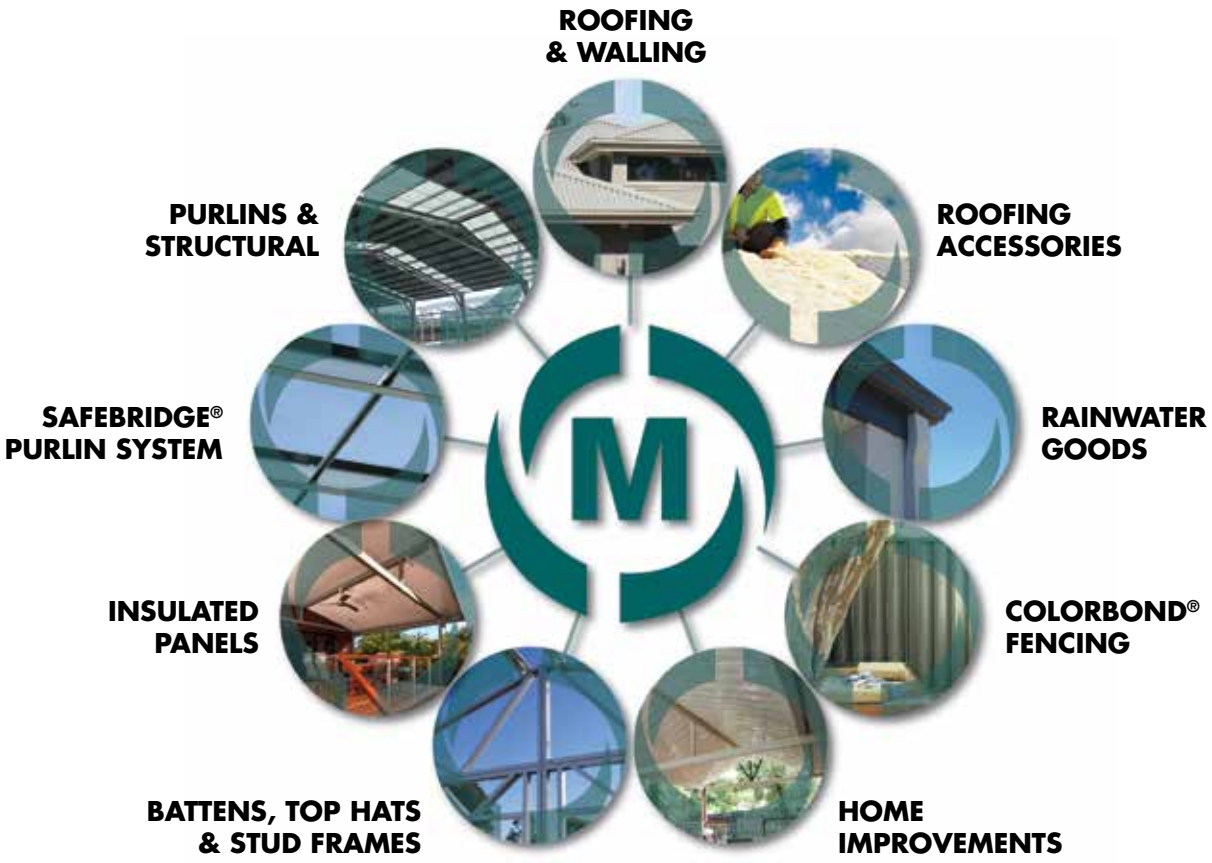
AVAILABILITY & DELIVERY

0.60 Corodek® 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.

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.

Can we assist with any additional Steel Building Products?



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

NSW	
Albury	02 6043 6800
Canberra	02 6298 2777
Dubbo	02 6883 4800
Lismore	02 6622 6677
Newcastle	02 4954 5799
Smithfield	02 9756 5277
Sydney	1300 766 346
Tamworth	02 6765 4799
Wagga Wagga	02 5924 4500

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

NT	
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