

# MINI CORODEK®

MULTI-PURPOSE DESIGNER CLADDING



A Met-TECH™ GUIDE

OCTOBER 2021



**Metroll®**

BETTER SERVICE • BETTER BUILDING SOLUTIONS

# MINI CORODEK®



**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.

## FEATURES & BENEFITS

- Designer aesthetic
- Custom cut
- Versatile
- Wide range of colours
- Easy to install
- Horizontal or vertical installation
- Suitable for curving

## MINI CORODEK® - WALLING

| BMT<br>mm | Steel Base<br>Mpa | Mass<br>Colorbond®<br>kg/m <sup>2</sup> | Mass Zinc<br>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.

### Softwood & Hardwood Timber Supports

M4.8-16 x 25mm Ripple Zips®

### Steel Supports up to 1.2mm BMT

M4.8-16 x 25mm Ripple Zips®

## 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](http://www.metroll.com.au/resources)

## MNI CORODEK® 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.

## 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.

## 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.

## 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 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 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.

## 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.

## 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.

## 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.

# MINI CORODEK® LIMIT STATE CAPACITY TABLES

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

## 0.42mm MINI CORODEK® WITH 6 FASTENERS/SHEET/BATTEN

| LIMIT STATE    | SPAN TYPE | SUPPORT THICKNESS (mm) | PRESSURE (kPa) FOR SPAN (mm) |      |      |      |
|----------------|-----------|------------------------|------------------------------|------|------|------|
|                |           |                        | 600                          | 900  | 1200 | 1500 |
| SERVICEABILITY | Internal  | All                    | 5.23                         | 2.67 | 1.33 | 0.46 |
|                | End       | All                    | 4.69                         | 2.17 | 1.00 | 0.34 |
| STRENGTH       | Internal  | 1.50+                  | 9.25                         | 5.85 | 4.30 | 3.50 |
|                |           | 1.20                   | 9.25                         | 5.85 | 4.30 | 3.50 |
|                |           | 1.00                   | 8.89                         | 5.85 | 4.30 | 3.50 |
|                |           | 0.75                   | 6.67                         | 4.44 | 3.33 | 2.67 |
|                |           | 0.55                   | 6.67                         | 4.44 | 3.33 | 2.67 |
|                |           | 0.48                   | 5.56                         | 3.70 | 2.78 | 2.22 |
|                | End       | 1.50+                  | 7.30                         | 5.10 | 3.95 | 3.15 |
|                |           | 1.20                   | 7.30                         | 5.10 | 3.95 | 3.15 |
|                |           | 1.00                   | 7.30                         | 5.10 | 3.95 | 3.15 |
|                |           | 0.75                   | 6.00                         | 4.00 | 3.00 | 2.40 |
|                |           | 0.55                   | 6.00                         | 4.00 | 3.00 | 2.40 |
|                |           | 0.48                   | 5.00                         | 3.33 | 2.50 | 2.00 |

## 0.48mm MINI CORODEK® WITH 6 FASTENERS/SHEET/BATTEN

| LIMIT STATE    | SPAN TYPE | SUPPORT THICKNESS (mm) | PRESSURE (kPa) FOR SPAN (mm) |      |      |      |
|----------------|-----------|------------------------|------------------------------|------|------|------|
|                |           |                        | 600                          | 900  | 1200 | 1500 |
| SERVICEABILITY | Internal  | All                    | 5.23                         | 2.80 | 1.52 | 0.53 |
|                | End       | All                    | 4.69                         | 2.28 | 1.14 | 0.39 |
| STRENGTH       | Internal  | 1.50+                  | 9.25                         | 6.14 | 4.91 | 4.00 |
|                |           | 1.20                   | 9.25                         | 6.14 | 4.91 | 4.00 |
|                |           | 1.00                   | 8.89                         | 5.93 | 4.44 | 3.56 |
|                |           | 0.75                   | 6.67                         | 4.44 | 3.33 | 2.67 |
|                |           | 0.55                   | 6.67                         | 4.44 | 3.33 | 2.67 |
|                |           | 0.48                   | 5.56                         | 3.70 | 2.78 | 2.22 |
|                | End       | 1.50+                  | 7.30                         | 5.36 | 4.51 | 3.60 |
|                |           | 1.20                   | 7.30                         | 5.36 | 4.51 | 3.60 |
|                |           | 1.00                   | 7.30                         | 5.33 | 4.00 | 3.20 |
|                |           | 0.75                   | 6.00                         | 4.00 | 3.00 | 2.40 |
|                |           | 0.55                   | 6.00                         | 4.00 | 3.00 | 2.40 |
|                |           | 0.48                   | 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.

## 0.42mm MINI CORODEK®

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

## 0.48mm MINI CORODEK®

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

### DESIGN NOTES

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- 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?



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