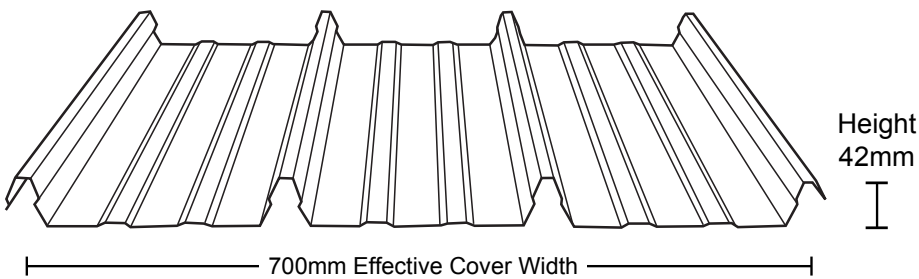


*Concealed Fixing System*

# METLOK<sup>®</sup> 700

*Technical  
Specifications*





## Specifications

### Referenced Australian Standards

1° Minimum Roof Pitch

<b>AS 1170.2</b>	SAA Loading Code - Wind Loads
<b>AS 1397</b>	Sheet and Strip Hot-Dipped Zinc-Coated or Aluminium/Zinc Coated
<b>AS 1526</b>	One Part Polysulphide-based Sealing Compounds for the Building Industry
<b>AS 1562.1</b>	Design and Installation of Sheet Roof and Wall Cladding, Part 1: Metal
<b>AS 2179</b>	Specifications for Rainwater Goods, Accessories and Fasteners - Metal Shape or Sheet Rainwater Goods, and Metal Accessories and Fasteners
<b>AS 2180</b>	Metal Rainwater Goods - Selection and Installation
<b>AS 2728</b>	Prefinished/Prepainted Sheet Metal Products for Interior/Exterior Building Applications - Performance Requirements
<b>AS 3566</b>	Self-drilling Screws for the Building and Construction Industries

## Scope

Where indicated on the drawings, provide and fix (by means of concealed clips) rib and pan roof sheeting having ribs of truncated triangular shape as specified with all necessary fasteners, accessories, trims and flashings. All such work shall be in accordance with AS 1562.1, AS 2179, AS 2180 and AS 3566.

## Materials

### Roofing/Walling

Roofing/walling shall be Metlok® 700 clip-fixed rib and pan roof/wall cladding as described below:

<b>Number of Ribs</b>	1 underlap, 1 overlap, 2 internal (1 underlap, 1 overlap)
<b>Rib Height</b>	42mm + 0.4mm - nil
<b>Anti-Capillary Feature</b>	Cavity formed between underlapping and overlapping ribs
<b>Cover Width</b>	695mm + 1.0mm - 2.0mm
<b>Base Metal Thickness</b>	0.42mm, 0.48mm
<b>Approximate Total Coated Thickness</b>	0.47mm or 0.53mm
<b>Steel Base Description</b>	AS 1397-G550 (550MPa minimum yield strength)
<b>Metallic Coating Description</b>	AS 1397-AZ 150 (150g/m <sup>2</sup> minimum coating mass)
<b>Organic Coatings (If Used)</b>	To AS 2728
<b>Normal Environments</b>	COLORBOND® XRW Steel
<b>Severe Environments</b>	COLORBOND® Ultra Steel

\*BMT means Base Metal Thickness

## Clips & Fasteners

Self-drilling and tapping screws shall comply with AS 3566 Class 3 and shall be the types and sizes indicated in the table below.

### Fastener Selection

Profile	Clip TYPE	Steel Supports <2.5mm thick	Steel Support 2.5mm-12.5mm thick	Hardwood	Softwood
-	-	10-16 x 16mm wafer head self-drilling and tapping screw†	12-24 x 32mm wafer head Series 500 Tek	10-12 x 25mm wafer head type 17 self-drilling screw* or 3.75 x 40mm galvanised flat head spiral threaded nail ø	10-12 x 35mm wafer head type 17 self-drilling screw* or 3.75 x 60mm galvanised flat head spiral threaded nail ø

† increase screw length to 22mm when installed over insulation blanket

\* increase screw length to 45mm when installed over insulation blanket

ø increase screw length to 60mm when installed over insulation blanket

### Notes

1. Coating of fasteners should comply with AS 3566 Class 3 for exterior applications. XRW - Climaseal®, Ultra - ZAC® or 40 Micron Zinc, COLORBOND® Stainless Steel - Stainless Steel fasteners.
2. Add a minimum on 10mm to the nominated fastener length, when fixing over insulation blanket.
3. All fasteners exposed to the weather should be fitted with sealing washers to comply with ASTM, D 2000.
4. Any selection made from this table is to be checked against the latest version of BlueScope Steel Australia Technical Bulletin TB-16 to ensure that fastener finish is appropriate for the service conditions.

## Workmanship

### Care Storage & Handling

Packs of sheets should be kept dry in transit and on-site to prevent water and/or condensation being trapped between adjacent surfaces. Packs should be safely and neatly stacked on site, clear of the ground and protected from rain and moisture. Any sheets which become wet should be separated, wiped clean, dried and re-stacked in a manner to allow free air circulation.

### Cutting

Sheets should be cut in a manner, and in a location, such that damage is avoided both to the sheets and to other nearby finished building products.







## Installation

Sheets should be installed with correct overlaps on battens or purlins spaced at centres not exceeding the manufacturer's maximum recommended span for the specific conditions pertaining at the site of the works, as determined by the building designer. Wherever practicable roof runs should be covered with single-length sheets from crest to gutter. End laps and/or expansion joints should be provided in longer roofs at the spacings, and to the details, set down by the manufacturer's installation manual, and purlin/batten spacings and positions adjusted accordingly.

Sheets should be handled carefully, in the interests of Occupational Health and Safety (OHS) and to avoid damage to nearby finished building products. Where sheets and/or accessories are provided with stripable plastic coatings, this material should be removed at time of installation and disposed of in a responsible manner. Fix sheeting with appropriate fasteners in accordance with the instructions given in the manufacturer's installation manual.

Turn high ends of sheets up, and gutter ends down to the extent, and using the tool, specified in the manufacturer's installation manual. All flashings, trims and closures to adjoining work should be made from matching material, or from other approved compatible material and should be formed, notched and fitted so as to present an effective, neat and workmanlike finished job. Where necessary, flashings should be lapped and sealed at joints in accordance with the manufacturer's installation manual.

At the conclusion of each day's work, and at the completion of the roofing contract, all roof areas should be swept clean, ensuring that all metal swarf and other debris are removed. A close inspection should follow to make certain that no small, heavy items (e.g. unused fasteners or mandrels of concealed-fastening rivets) are lodged in places from which coating damage could be initiated.

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