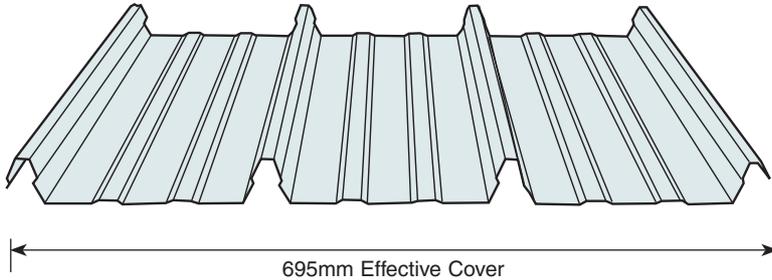


**Clip-fixed truncated triangular rib and pan roof and/or wall cladding**



**METLOK 700<sup>®</sup> - 1° Minimum Roof Pitch**

**SPECIFICATION**

**REFERENCED AUSTRALIAN STANDARDS**

AS 1170.2	SAA Loading Code - Wind Loads
AS 1397	Sheet and Strip Hot-Dipped Zinc-Coated or Aluminium/Zinc Coated.
AS 1526	One Part Polysulphide-based Sealing Compounds for the Building Industry.
AS1562.1	Design and Installation of Sheet Roof and Wall Cladding, Part 1: Metal.
AS 2179	Rainwater Goods - Specification.
AS2180	Rainwater Goods - Design and Installation.
AS 2728	Pre-painted and Organic Film/Laminate Products - Performance Requirements for Interior & Exterior Applications in Buildings.
AS 3566	Screws Self-Drilling 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 all as specified herein complete 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 (AND/OR WALLING)**

Roofing (and/or walling) shall be METLOK<sup>®</sup> 500 clip-fixed rib and pan roof/wall cladding all as described below:

Number of ribs:	1 underlap, 1 overlap, 2 internal (1 underlap, 1 overlap)
Rib height:	42mm + 0.4mm - nil
Anti-Capillary Feature:	Cavity formed between underlapping and overlapping ribs.
Cover width:	695mm + 1.0mm - 2.0mm
Base metal thickness:	0.42mm, 0.48mm
Approximate total coated thickness:	0.47mm or 0.53mm.
Steel base description:	AS 1397-G550 (550MPa minimum yield strength)
Metallic coating description:	AS 1397-AZ 150 (150g/m <sup>2</sup> minimum coating mass)
Organic coatings (if used):	To AS 2728
Normal environments:	Colorbond XRW
Severe environments:	Colorbond ULTRA

**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 overleaf.

**Fastener Selection**

Profile	Clip Type	Steel Supports <2.5mm thick	Steel Supports 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 <sup>o</sup>	10-12 x 35mm wafer head type 17 self-drilling screw* or 3.75 x 60mm galvanised flat head spiral threaded nail <sup>o</sup>

† increase screw length to 22mm when installed over insulation blanket  
\* increase screw length to 45mm when installed over insulation blanket

<sup>o</sup> increase screw length to 60mm when installed over insulation blanket

**NOTES:**

1. Coating of fasteners shall comply with AS 3566 Class 3 for exterior applications. XRW - Climaseal, ULTRA - ZAC or 40 Microns Zinc, Colorbond Stainless - Stainless Steel.
2. Add a minimum on 10mm to the nominated fastener length, when fixing over insulation blanket.
3. All fasteners exposed to the weather shall 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 BHP Coated Steel Australia Technical Bulletin TB-16 to ensure that fastener finish is appropriate for the service conditions.
5. Climaseal, HiGrip, Shank Guard and ZAC are registered trade marks of TW Buildex.

**WORKMANSHIP**

**CARE STORAGE & HANDLING:**

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

**CUTTING:**

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

**INSTALLATION**

Sheets shall be laid 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 shall be covered with single-length sheets from crest to gutter. End laps and/or expansion joints shall 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 shall be handled carefully, in the interests of occupational health and safety and to avoid damage to nearby finished building products. Where sheets and/or accessories are provided with stripable plastic coatings, such material shall be removed at time of installation and disposed of in a responsible manner. Fix sheeting with appropriate fasteners (from table herein) in all respects 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 shall be made from matching material, or from other approved compatible material and shall be formed, notched and fitted so as to present an effective, neat and workmanlike finished job. Where necessary, flashings shall 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 shall be swept clean, ensuring that all metal swarf and other debris is removed. A close inspection shall 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.