

# Secure Anchor

## S Y S T E M S

## Technical Data Sheet

### “Corrugator™360 Roof Anchor”

#### 1. PRODUCT NAME:

The Corrugator™ LP06–360 360 degree corrugated iron fall arrest roof anchor  
Patent #2006100063

#### 2. MANUFACTURER/DISTRIBUTOR:

American Shingles Pty Limited trading as Secure Anchor Systems in Australia

#### 3. PRODUCT DESCRIPTION:

A surface mounted stainless steel roof anchor to suit standard corrugated iron roof sheeting with a minimum base metal thickness (BMT) of 0.42mm continually spanning a minimum three battens providing height safety in fall arrest and restraint applications.

**Limitations:** The anchor is not to be utilised by more than one person at any time nor be subject to a load of more than 15kN in accordance with AS/NZS 1891.4 (Table 3.1).

**Composition and Materials:** The ‘Corrugator™360’ is composed of 304 Stainless Steel in either a mill finish or powdercoated to match roof sheet colours. The ‘Corrugator™360’ utilises 18 screws to surface mount the anchor with an EPDM, self adhering separation strip.

**Applicable Standards:** Australian/New Zealand Standard 1891.4

#### 4. TECHNICAL DATA:

Weight (approx.):	250 Grams
Dimensions (overall):	175mm x 70mm x 75mm nominal
Screw Fixings:	4 off Buildex M6x65mm Hex Head HG Seal C4 ‘Roof Zips’ (1-030-9306-CTPEB) 14 off Buildex 15-15x25mm Hex Head HG Seal ‘Metal Batten Tek’s’ (6-310-3498-1C4)
Weather exposure:	175mm x 70mm x 75mm

#### 5. INSTALLATION:

Installation instructions including diagrams are supplied with each anchor, or separate application sheets may be obtained from Secure Anchor Systems and are provided as a guide only. Following is a general summary of the installation method.

**NOTE** - Refer to application instructions supplied with the ‘Corrugator™360’ for further information and application procedures.

If there is any doubt or non surety as to the application of this anchor in accordance with these instructions please contact Secure Anchor Systems or a certified practising structural engineer for further direction or clarification.

**Roof Requirements:** Apply the ‘Corrugator™360’ to a corrugated iron roof fixed in accordance with the roof sheet manufacturer’s instructions, all applicable building codes and Australian Standards. A roof sheet with minimum base metal thickness of 0.42mm (with a minimum 550MPa yield strength in accordance with AS 1397-2001) must be utilised and continually span across three battens for the ‘Corrugator™360’ to ensure fall arrest when installed in accordance with these instructions.

**Application & Fastening:** The separation strip provides a separation between the corrugated iron and the stainless steel fabric of the roof anchor ensuring a tight waterproof seal. This must also be placed to ensure no reaction will occur between the stainless steel anchor and the roof sheeting. Ensure that it is adhered to the roof anchor

Eighteen (18) screws are required to be used on the ‘Corrugator™360’ roof anchor. Nine holes across two rows are placed along either side of the anchor stem containing the eyelet. Two (4) M6 x 50mm Roof Zips are required to be fastened through the middle hole along the base line on either side of the anchor into a roofing batten that has a minimum strength grade of MGP10. Place the anchor over a corrugation between an existing line of screw fixings in the roof sheet. DO NOT remove an existing screw fixing and place the anchor in that same position utilising the existing hole. With the remaining Fourteen (14) Metal Batten Tek screws, fix them through the remaining holes into the roof sheet.

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When fixing the Corrugator360 in place, fix the two upper rows (6 x metal batten teks) along the crest of the corrugation first, then fix the lower rows on either side towards the valleys of the sheets. This will enforce a closer fit to the profile of the corrugated iron.

Ensure that the Metal Batten Tekes are secured firmly against the anchor and the roof sheet so there is no movement. DO NOT over tighten the screws as this may strip the thread and compromise the screw's holding power and shear strength in the event of a fall. We suggest using a torque setting commonly available on cordless drills.

DO NOT use/reuse existing roof screws to fasten the 'Corrugator™360'. DO NOT use any other screws than those supplied or specified above. DO NOT reuse any screws nor the holes of an existing application if a 'Corrugator™360' is removed.

**Flashing:** The 'Corrugator™360' requires no additional flashings nor sealing other than the application of the enclosed EPDM self adhering sealing/separation strip.

## 6. AVAILABILITY AND COST:

Contact **Secure Anchor Systems** for current pricing and supply information for Australia and New Zealand.

## 7. MAINTENANCE:

The Corrugator™ should be checked annually at the very least by a 'competent' person as required and/or detailed in Government OH&S Acts, Codes of Practice and all applicable building codes. The 'Corrugator™' must also be checked prior to any attachment or use ensuring that the anchor has not been subject to any fall loads nor that it has been tampered with. Ensure that the 'Corrugator™' is firmly attached to the roof and not loose with the use of all screw fixings as detailed in 4. Technical Data above. Ensure all safety equipment to be used in conjunction with the 'Corrugator™' is checked prior to use.

If there is any doubt or non surety as to the performance of any installed anchor DO NOT USE OR ATTACH TO IT and contact a certified practising structural engineer or Secure Anchor Systems for further direction.

## 8. TECHNICAL SERVICES:

Technical support and assistance is available through **Secure Anchor Systems**.

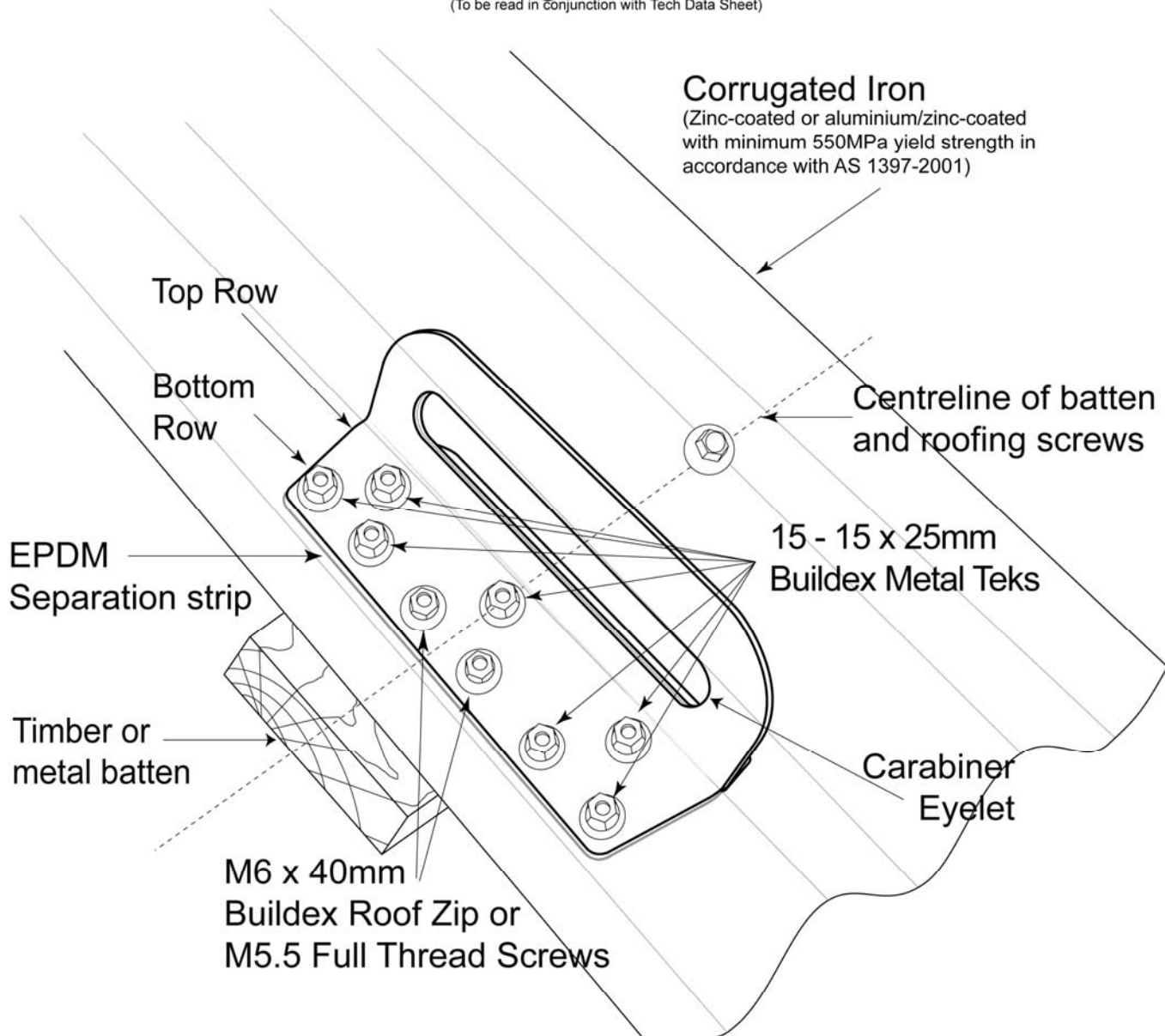
For additional information and literature contact **Secure Anchor Systems: Telephone 1300-131-881 | Facsimile 1300-731-881**

# The Corrugator360:

Patent No. 2008100063

## Fixing Illustration

(To be read in conjunction with Tech Data Sheet)

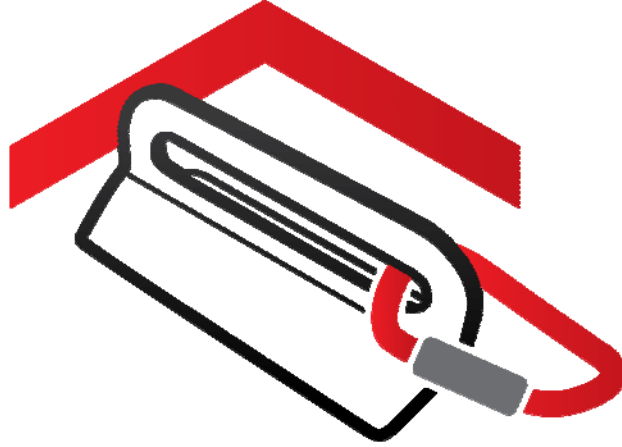


### FIXING NOTES:

- Place The Corrugator360 on a ridge of the corrugation between existing roofing screws across a roof batten
- The separation strip adhered to the underside of The Corrugator360 must be in place when fitting the anchor.
- Fix Six (6) 25mm Metal Batten Tekes along the Top Rows (each side of eyelet) FIRST to ensure a snug fit over top of corrugation.
- The Corrugator360 MUST be fixed into the batten with the four (4) Roof Zips through the centre two holes of the Bottom Rows
- The remaining eight (8) holes along the bottom rows must be fixed with the remaining 25mm metal batten tek.
- Ensure that all screws are firmly fixed but NOT overtightened with all washers in tact under the heads of the screws

**SECURE ANCHOR SYSTEMS** requires that all installers of anchors & users be 'competent' in accordance with AS 1891, relevant Codes of Practice and applicable OH&S Acts in your state.

**SECURE ANCHOR SYSTEMS** always recommends placement of anchors using a '*fall restraint*' methodology and working in a '*fall restraint*' mode when working at heights.



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***“It’s all about staying on top”***

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