



# Secure Anchor

S Y S T E M S

## Technical Data Sheet “SD-09 Roof Anchor”

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t/a

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ALEXANDRIA NSW 2015

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### 1. PRODUCT NAME:

The “SD-09” (Patent & Trademark Pending) standing rib and pan metal roof profile 360° fall arrest roof anchor to suit certain roof profiles such as Spandek®. Other roof anchors are available for some other styles of standing seam metal roof profiles.

### 2. MANUFACTURER/DISTRIBUTOR:

American Shingles Pty Limited trading as Secure Anchor Systems

### 3. PRODUCT DESCRIPTION:

A surface mounted stainless steel roof anchor to suit standard square rib metal roof profile sheeting with a minimum base metal thickness (BMT) of 0.42mm. The roof sheeting should be continually spanning a minimum three metal battens, purlins or timber roof battens (MGP10, 75mm x 34mm minimum) providing 360° protection 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). Do not use if, the anchor does not firmly fit the roof sheet profile. The anchor is NOT to be used for fastening/tethering other items such TV antennae, satellite dishes, solar panels, shade structures etc...

**Composition and Materials:** The ‘SD-09’ is composed of 304 Stainless Steel in either a mill finish or powdercoated to match the roof sheet colours. The ‘SD-09’ utilises 22 screws of varying types depending on the sub-structure and is surface mounted with a waterproof, self adhering EPDM foam separation strip.

**Applicable Standards:** Australian/New Zealand Standard 1891.4 (2000)

### 4. TECHNICAL DATA:

Weight (approximately):	250 Grams (without fixings)
Dimensions (overall):	175mm x 90mm x 1.2mm nominal foot print
Screw Fixings:	18 off Buildex 15-15x25mm Hex Head HG Seal ‘MBTeks’ (6-310-3498-1C4) 4 off Buildex M5.5x40 Hex Head HG Seal ‘Metal Batten Zips’ (6-311-0605-5MP) All screws are Climaseal 4 - AS3566 Class 4 coating

### 5. INSTALLATION:

Installation instructions 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 ‘SD-09’ 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 ‘SD-09’ to a standing square rib metal roof profile 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 ‘SD-09’ to ensure fall arrest when installed in accordance with these instructions.

## Application & Fastening to various types of supporting structure:

### A: To timber battens at 1200mm centres maximum:

Make sure that the EPDM flashing/separation is fixed between the roof sheeting 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 Colorbond or Zinalume roof sheeting.

The eight (4) x Buildex M6x50mm Hex Head HG Seal C4 'Roof Zips' are required to be used across the centre 4 holes fixing into the timber batten support structure. The eighteen (18) Buildex 15-15x25mm Hex Head HG Seal 'Metal Batten Tek's' are to be used to fix into the roof sheet only across the top and bottom 18 holes. Ensure that the screws are secured firmly against the anchor and the roof sheet so there is no movement. DO NOT over tighten the screws as they 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.

### B: To C or Z section purlins at 1200mm maximum:

Make sure that the EPDM flashing/separation is fixed between the roof sheeting 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 Colorbond or Zinalume roof sheeting.

The four (4) Buildex M5.5x40mm Hex Head HG Seal C4 'Batten Zips' are required to be used across the centre 8 holes fixing into the metal purlin support structure. The eighteen (18) Buildex 15-15x25mm Hex Head HG Seal 'Metal Batten Tek's' are to be used to fix into the roof sheet only across the top and bottom 18 holes. Ensure that the Metal Batten Tek's are secured firmly against the anchor and the roof sheet so there is no movement. DO NOT over tighten the screws as they 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.

### C: To Portable buildings or equivalent with 1.15 mm (base metal thickness) C section stud framing

Make sure that the EPDM flashing/separation is fixed between the roof sheeting 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 Colorbond or Zinalume roof sheeting.

All twenty two (22) Buildex 15-15x25mm Hex Head HG Seal 'Metal Batten Tek's' are to be used to fix into the roof sheet. The centre four (4) screws need to be fixed into the supporting C section stud frame structural support, with the top and bottom eighteen (18) to be used to fix into the roof sheet only. Ensure that the Metal Batten Tek's are secured firmly against the anchor and the roof sheet so there is no movement. DO NOT over tighten the screws as they 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 existing roof screws to fasten the 'SD-09'. 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 'SD-06' is removed and re installed. The anchor is NOT to be used for fastening/tethering other items such TV antennae, satellite dishes, solar panels, shade structures etc...DO NOT install on roof runs longer than 10m where the sheet could expand excessively and shear the anchor or roof fixings.

**Flashing:** The 'SD-09' requires no additional flashings or sealing other than the application of the enclosed self adhering EPDM foam seal/separation strip.

## 6. AVAILABILITY AND COST:

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

## 7. MAINTENANCE:

The 'SD-09' should be checked, recorded and identified 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 'SD-09' 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 'SD-09' is firmly attached to the roof, not loose, using of all screw fixings as detailed in Item 4. Technical Data (noted above) and no other attachments fixed to the anchor. Ensure all safety equipment to be used in conjunction with the 'SD-09' 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**

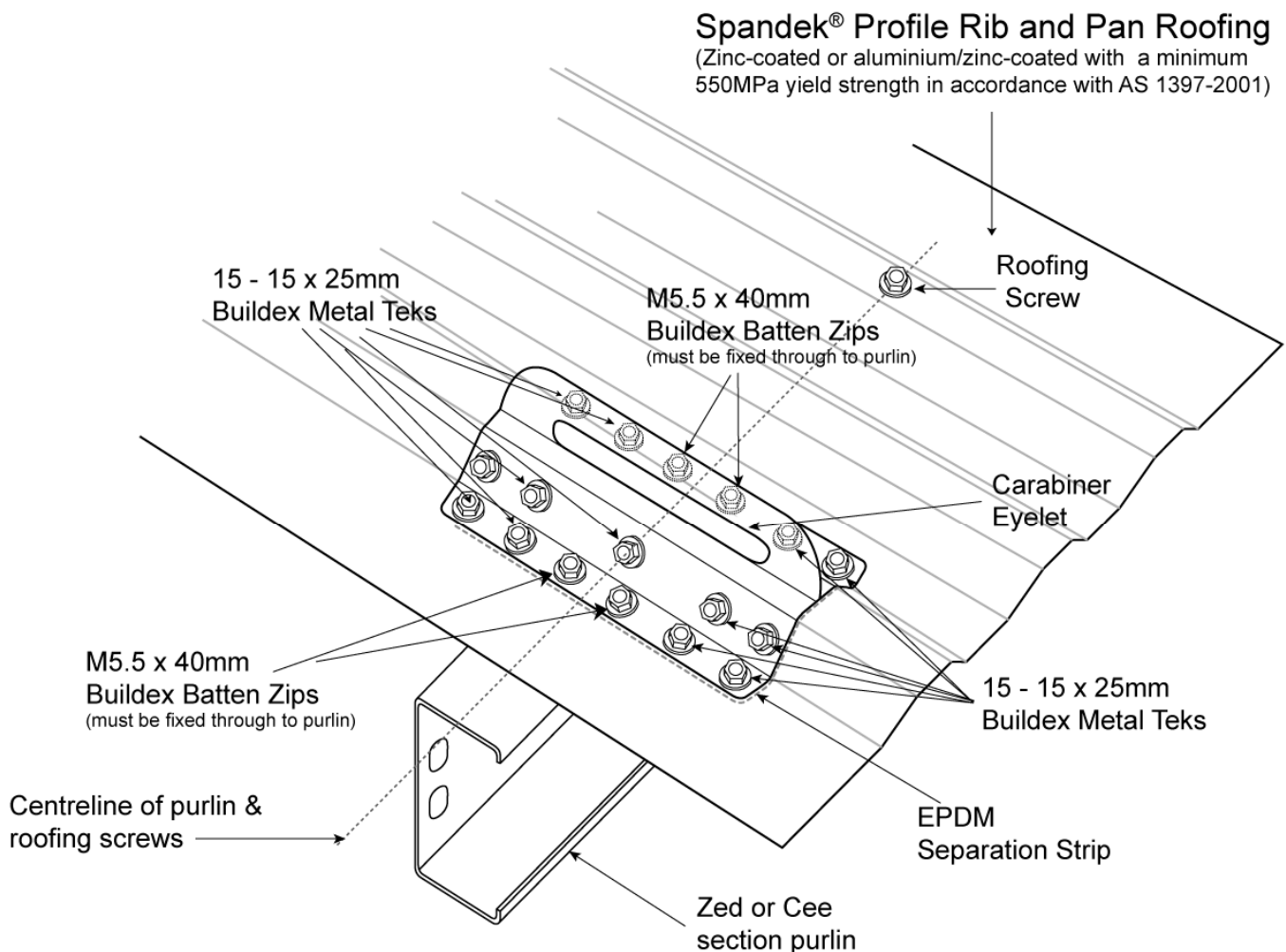
# The SD-09:

Patent Pending

**Fall Arrest Roof Anchor**  
rated 15kN for single person attachment  
in accordance with AS1891.4

## Fixing Illustration

(To be read in conjunction with Tech Data Sheet)

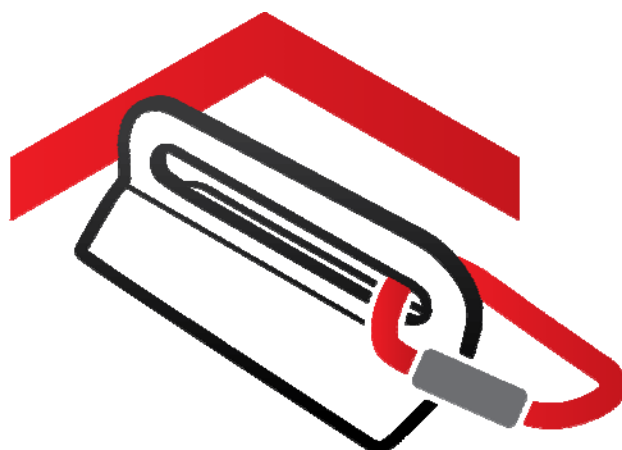


### NOTES:

- Place SD-09 on a raised rib/square flute centred in line with existing roofing screws (remove a screw for placement)
- The EPDM separation strip adhered to the underside of SD-09 must be in place when fitting the anchor.
- The SD-09 MUST be fixed into a purlin laterally through the centre four (4) holes first.
- The remaining eight (8) Batten Tek's must then be fixed into the pan to ensure a snug fitting over the rib.
- Then fix all ten (10) holes along the either side of the rib of the SD-09 with the remaining 25mm metal tek's.
- Ensure that all screws are firmly fixed but NOT overtightened with all washers in tact under the heads of the screws.

**SECURE ANCHOR SYSTEMS recommends that all anchor installers & 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.**



# SecureAnchor

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*“It’s all about staying on top”*

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