

INSTALLATION HANDBOOK

SafetyLink Anchor Points

SafetyLink is an innovative anchor company achieving success and keeping you safe whilst working at heights.

- 🔍 ROOF ANCHORS
- 🔍 HORIZONTAL LIFELINES
- 🔍 PERMANENT LADDERS
- 🔍 LADDER STABILISERS
- 🔍 TEMPORARY ANCHOR



Read entire handbook before installing SafetyLink products. All products must be installed in accordance with SafetyLink's installation handbook, using only products supplied by SafetyLink Pty Ltd. Failure to follow all warnings and instructions may result in serious injury or death.



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WARNINGS

READ CAREFULLY SOMEONE'S LIFE DEPENDS ON IT

INSTALLATION MUST BE CARRIED OUT BY, OR UNDER THE SUPERVISION OF A COMPETENT HEIGHT SAFETY INSTALLER.

The building or structure for the anchorages should be assessed by an engineer, unless it is clear to a competent height safety installer that the anchorages system is structurally adequate.

STANDARD EYEBOLTS MUST ONLY BE USED AS A FALL ARREST ANCHOR.

ABSEILING EYEBOLTS ARE TO BE USED FOR ROPE ACCESS (ABSEILING).

SURFACE MOUNTED ANCHORS MUST NOT BE USED FOR ROPE ACCESS (ABSEILING).

RETRO EYEBOLTS USED FOR ROPE ACCESS (ABSEILING) EXCEPT ON HIGH PROFILE SECTION.

When installing anchor points all safety procedures must comply in accordance with the current safety code/s of practice/s for working at heights.

- Recommended waterproofing for roof tiles: *Sika Flex Co-Polymer Sealant*.
- Recommended waterproofing for metal roof: *Silicone Sealant*.
- All threads must be coated with Loctite prior to assembly (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions**).
- A personal energy absorber or a fall-arrest device with a personal energy absorber must be used to connect to all SafetyLink Anchorages and (or) Strops.

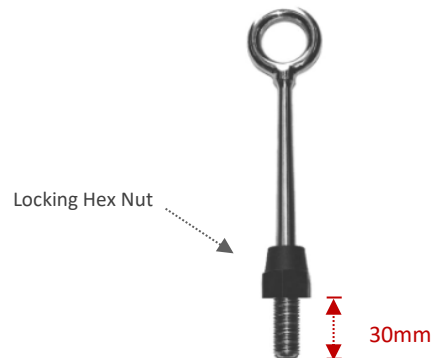
MAXIMUM USER PER EYEBOLT IS ONE (1)

WARNING

Locking Hex Nut must be fully screwed up the thread of the eyebolt to expose 30mm of thread.

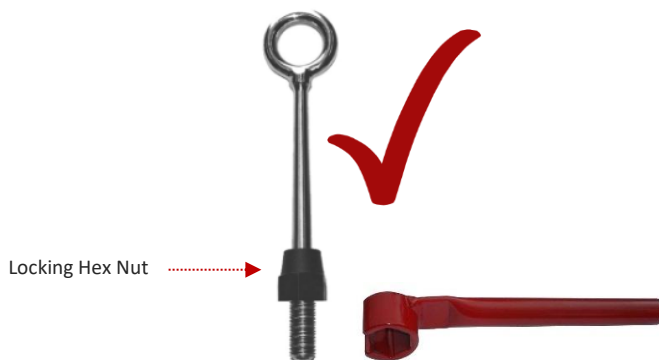
This thread must be fully screwed into the bracket, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions**).

Locking Hex Nut must be firmly tightened onto the bracket to stop the eyebolt from unscrewing and to gain maximum strength.



EYEBOLTS - Threads need to have a minimum of **SIX FULL 360° TURNS** into the ultimate thread.

RETRO EYEBOLTS - Threads need to have a minimum of **EIGHT FULL 360° TURNS** into the ultimate thread.



CORRECT

Always use a spanner when tightening and un-tightening the locking hex nut.



WRONG

DO NOT place an object into the eye of the eyebolt to tighten or un-tighten the locking hex nut, as this may damage the eyebolt.

MAINTENANCE – PERIODIC INSPECTIONS

All items of height safety equipment which are in regular use shall be subjected to periodic inspection and servicing. These regular scheduled inspections and servicing must be carried out by a competent height safety installer.

FIXED LADDERLINK: LADDER SUPPORT BRACKET

ALL LADDERLINKS MUST BE INSPECTED EVERY 12 MONTHS, INSPECTIONS NEED TO BE CARRIED OUT BY A COMPETENT HEIGHT SAFETY INSTALLER.

Procedures to be followed at inspection time:

- Visually inspect ladder support brackets for any signs of deterioration or the protective coating being removed. *(Note: LadderLink is made from marine grade aluminium and therefore should not corrode).*
- Ensure LadderLink is firmly secured to the structure as per SafetyLink Installation Handbook. *(refer to [Installing LadderLink](#)).*

SAFETYLINK ANCHORAGES

ALL ANCHORAGES MUST BE INSPECTED EVERY TWELVE MONTHS, INSPECTIONS NEED TO BE CARRIED OUT BY A COMPETENT HEIGHT SAFETY INSTALLER.

Procedures to be followed at inspection time:

- Visually inspect anchors for signs of deterioration.
- The FrogLink/TileLink anchor point has two energy absorbing regions and two stabilising joints which hold the eyelet in place during use. If these energy absorbing regions are expanded this will indicate the anchor point has arrested a fall. Similarly, if the two stabilising joints have been broken this would also indicate the FrogLink/TileLink has arrested a fall and should be replaced.
- The eyebolt should remain straight, a bent eyebolt will indicate that the anchor point has arrested a fall *(The design features of the eyebolt includes the ability to bend like a fishing pole starting from the top and working its way to the bottom, enabling it to use up energy as the eyebolt bends whilst lessening the force on the person falling and the attachment point).*
- Visually inspect the components of the anchor for corrosion, superficial surface marking is permitted while deeper corrosion or pitting would require attention.
- Manually (by hand) check the eyebolt for rigidity and tightness, if the eyebolt can turn in the anticlockwise direction it will require attention.
- Visually inspect the rubber hat washer and waterproofing components to ensure it has remained sealed.
- Visually inspect the attachment component of the anchorage where practically possible.
- Visually inspect the parent structure for modifications or deterioration which might lead to loss of anchorage strength.
- For Concrete Installation Only: To comply with Australian Standards, each ConcreteLink must be tested after installation and at every recertification inspection. Ensure you wait the recommended curing time as specified by the chemical anchor instructions. The pull test can be done using a 16mm threaded eyebolt. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.
- A personal energy absorber or a fall-arrest device with a personal energy absorber must be used in conjunction with all SafetyLink Anchorages and Lifeline systems.

IN ADDITION TO SAFETYLINK PTY LTD EQUIPMENT, ALL ANCILLARY EQUIPMENT MUST BE INSPECTED IN ACCORDANCE WITH APPLICABLE REGULATORY REQUIREMENTS AND THE MANUFACTURER'S INSTRUCTIONS.



**FOR MAINTENANCE ADVICE AND SERVICES PLEASE CONTACT SAFETYLINK
ON +61 249 641068 OR 1300 789545 FOR YOUR NEAREST SAFETYLINK INSPECTION SERVICE
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WARRANTIES

EXTRACT: SafetyLink Pty Ltd STANDARD TERMS AND CONDITIONS

- 11.1 To the extent permitted by law all implied conditions, warranties and undertakings are expressly excluded.
- 11.2 Except as provided in this clause the Company shall not be liable for any loss or damage, whether direct or indirect (including consequential losses or damage) arising out of any breach of contract by the Company or any negligence of the Company, its employees or agents.
- 11.3 Should the Company be liable for a breach of a guarantee, condition or warranty implied by the Australian Consumer Law (not being a guarantee, condition or warranty implied by sections 51, 52 and 53 of that Law) then its liability for a breach of any such condition or warranty express or implied shall be limited, at its option, to any one or more of the following.
- A) in case of Goods
- (I) the replacement of the Goods or the supply of equivalent Goods.
 - (II) the repair of the goods,
 - (III) the payment of the cost of replacing the Goods or acquiring equivalent Goods.
 - (IV) The payment of the cost of having the Goods repaired.
- Provided that any such Goods are returned to the Company by the Purchaser at the Purchaser's expense.
- B) in the case of services
- (i) the supply of the services again,
 - (ii) the payment of the cost of having the services supplied again.
- 11.4 The Company will not be liable for the costs of recovery of the Goods from the field, loss of use of the Goods, loss of time, inconvenience, incidental or consequential loss or damage, nor for any other loss or damage other than as stated above, whether ordinary or exemplary, caused either directly or indirectly by use of the Goods.
- 11.5 The Company warrants that at the time of shipment, Products manufactured by it will be free from defects in material and workmanship. In the absence of a modified written warranty, the Company agrees to making good any such defects by repairing the same or at the Company's option by replacement, for a period of (1) one year from the date of shipment. This limited warranty applies provided that:
- (a) defects have arising solely from faulty materials or workmanship;
 - (b) the Products have not received maltreatment, inattention or interference;
 - (c) **the Products have been installed in accordance with the Company's Installation Handbooks using only products supplied by the Company;**
 - (d) accessories used with the Products are manufactured by or approved by the Company;
 - (e) the Products are maintained in accordance with Australian Standard 1891.4 (section 9).
 - (f) you notify any claim under this warranty to SafetyLink in writing to the address below no later than 14 days after the event or occurrence concerning the produce giving rise to the claim and you pay all costs related to your claim.
- This warranty does not apply to any defects or other malfunctions caused to the Goods by accident, neglect, vandalism, misuse, alteration, modification or unusual physical, environment or electrical stress.
- Please note that the benefits to the purchaser (as a consumer) given by this warranty are in addition to your other rights and remedies under the Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
- 11.6 If any goods are not manufactured by the Company, the guarantee of the manufacturer thereof shall be accepted by the Purchaser as the only express warranty given in respect of the goods.
- 11.7 Except as provided in this clause 11, all express and implied warranties, guarantees and conditions under statute or general law as the merchantability, description, quality, suitability or fitness of the Products for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded (to the extent to which they may be excluded by law).

PLEASE SEE SAFETYLINK PTY LTD FULL STANDARD TERMS OF CONDITIONS OF SALE FOR FURTHER REFERENCE.



FIXED LADDERLINK – LADDER SUPPORT BRACKETS



Product Code: LADFX001



Product Code: LADFX002



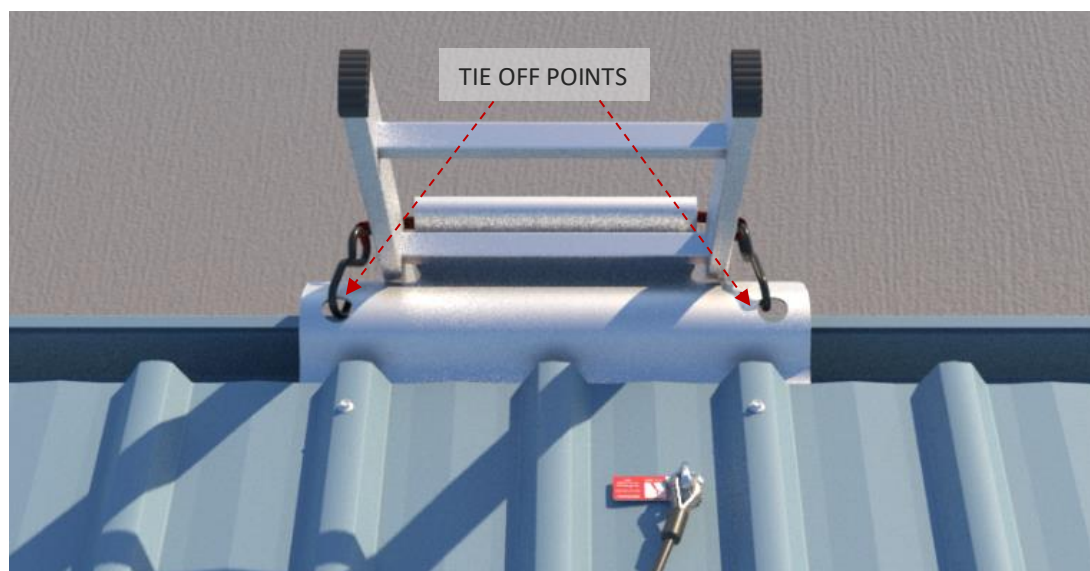
Product Code: LADFX003

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

- ⚠ Adjusting the pitch of the LadderLink to suit steeper roof pitches maybe required. This must be completed with an appropriate sheet metal bending machine only. LadderLink's are made from high tensile aluminium, the bender must be set on a high radius to prevent cracking. Failure to do so may result in a damaged and unsafe ladder bracket.
- ⚠ Always use a leash in conjunction with securing points on the LadderLink to secure your ladder once fitted to a ladder bracket.
- ⚠ Protective coating must not be removed.

Fixed LadderLink: Safe Ladder Access

Made from marine grade aluminium the LadderLink is designed to support a ladder, stopping sideways movement and therefore holding the ladder in place safely. In addition, the LadderLink has securing points to tie off the ladder providing a safe access point.



Safety Centre Training



Installation Guide



Video Installation
METAL ROOF



Video Installation
TILE ROOF

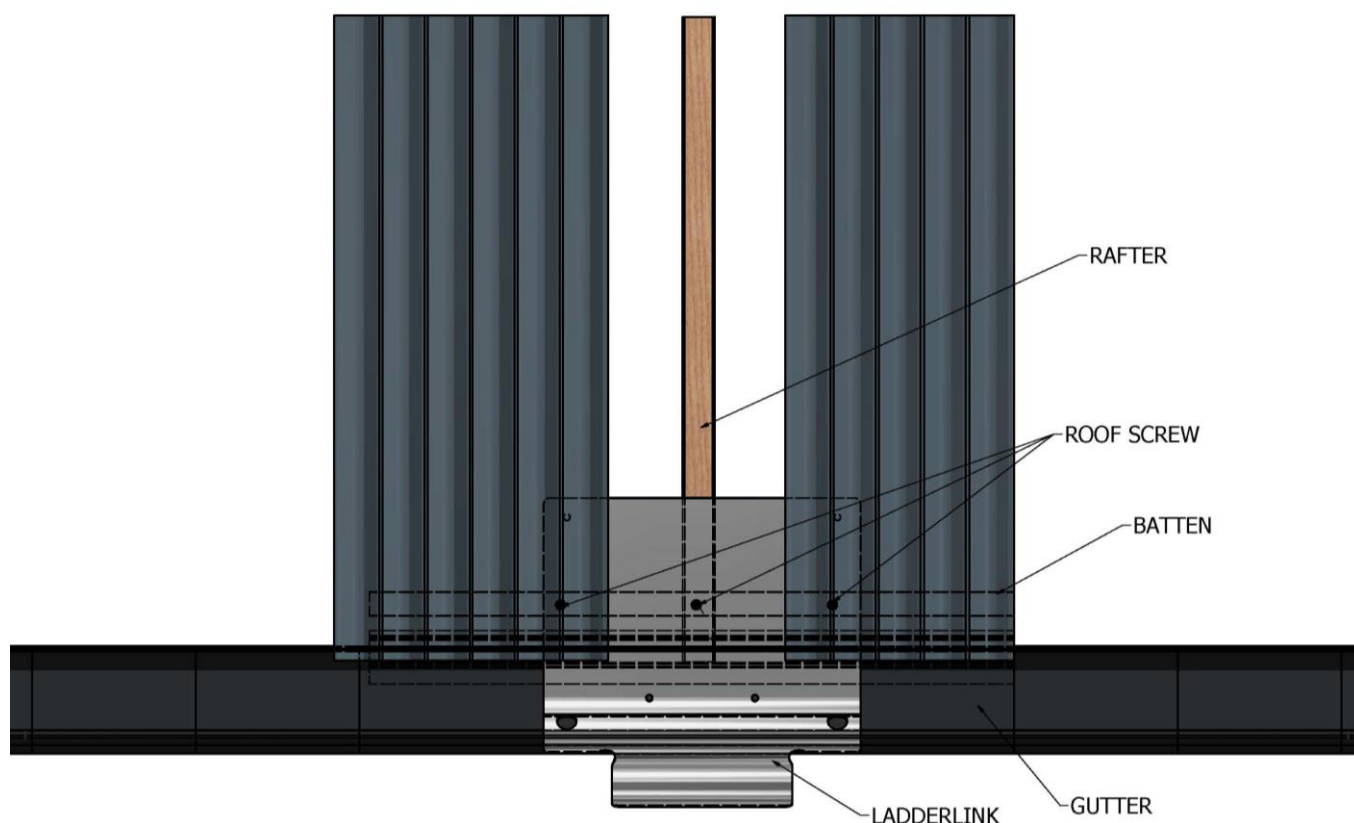
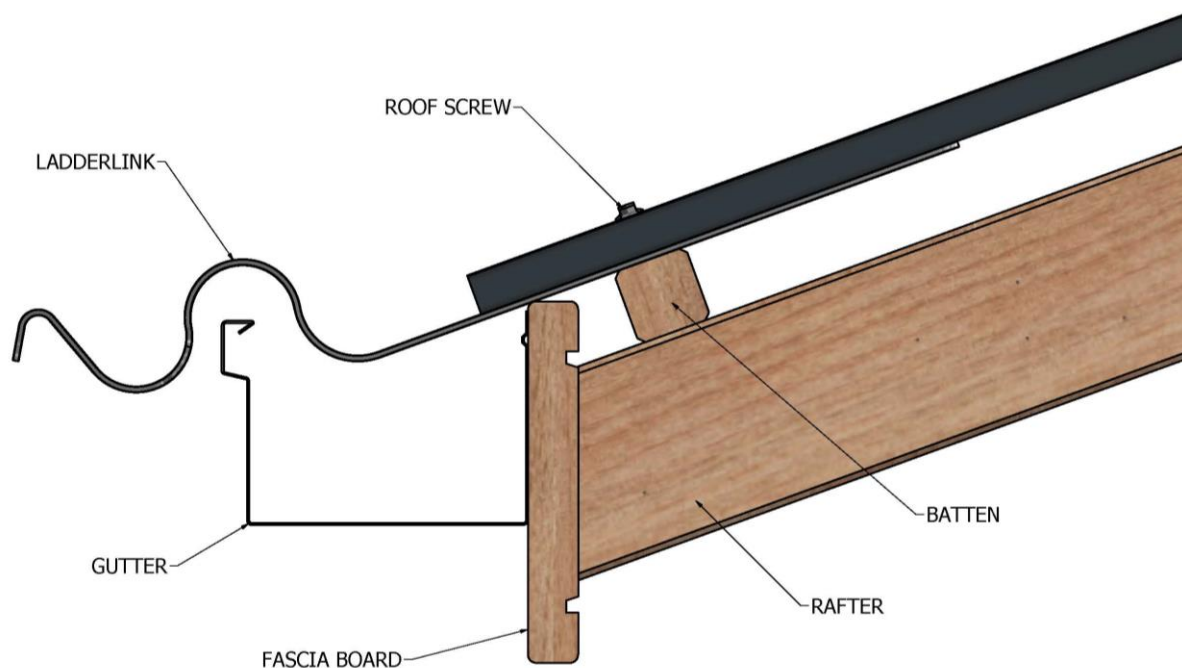


Catalogue

FIXED LADDERLINK – METAL ROOF LADDER SUPPORT BRACKET

INSTALLATION FOR METAL ROOFS – UNDER ROOF SHEETING

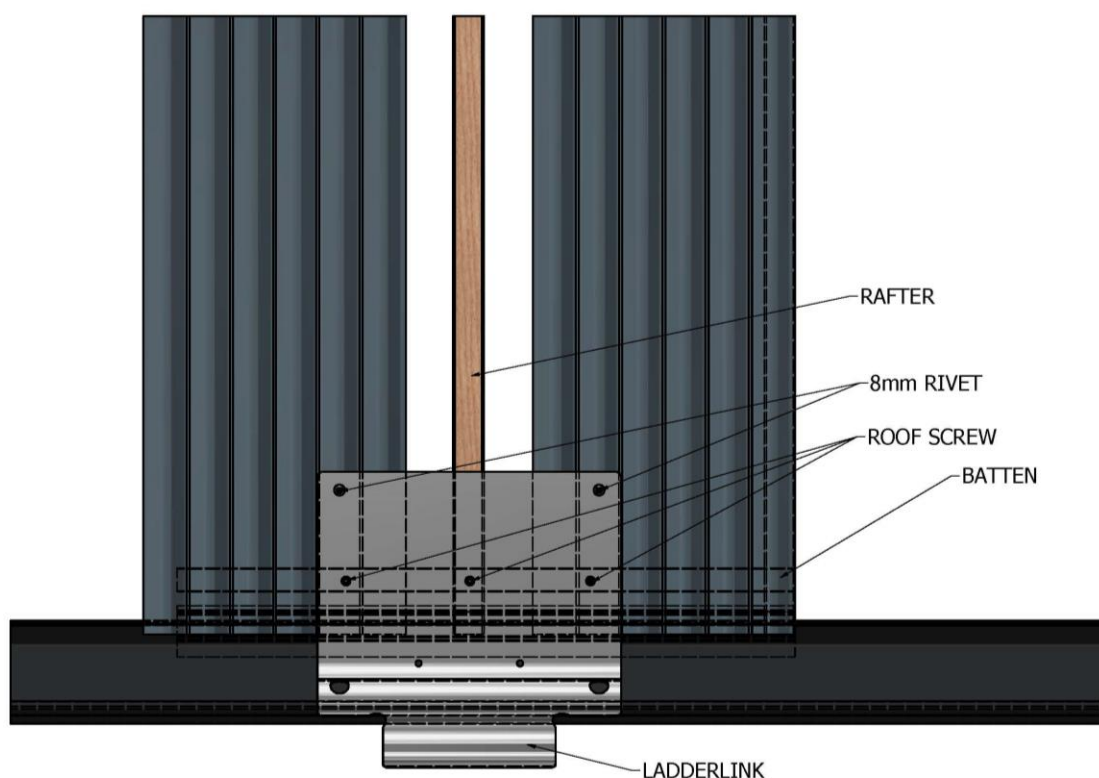
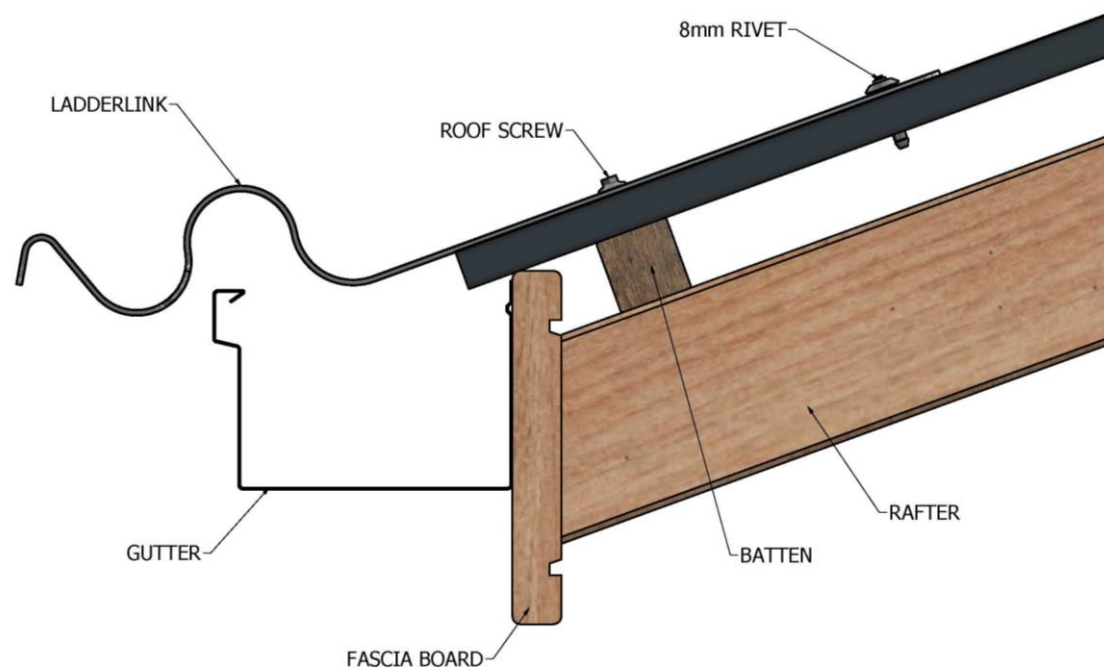
1. To install the LadderLink simply remove existing hex head roofing screws along the bottom edge of the roof sheeting at the desired location.
2. Slide the ladder bracket under the roof sheeting between the sheeting and batten as shown in the diagram below.
3. Position the ladder bracket so the rolled section is centred over the gutters front edge.
4. Once the ladder bracket is in the desired location, re-install the hex head roofing screws through the original holes, through the ladder bracket and into the roof batten below.
5. Ensure that a minimum of three (3) x 12g 65mm roofing screws anchor the ladder bracket to the structure (recommended to pilot drill holes).



FIXED LADDERLINK – METAL ROOF LADDER SUPPORT BRACKET

INSTALLATION FOR METAL ROOFS – ON TOP OF ROOF SHEETING

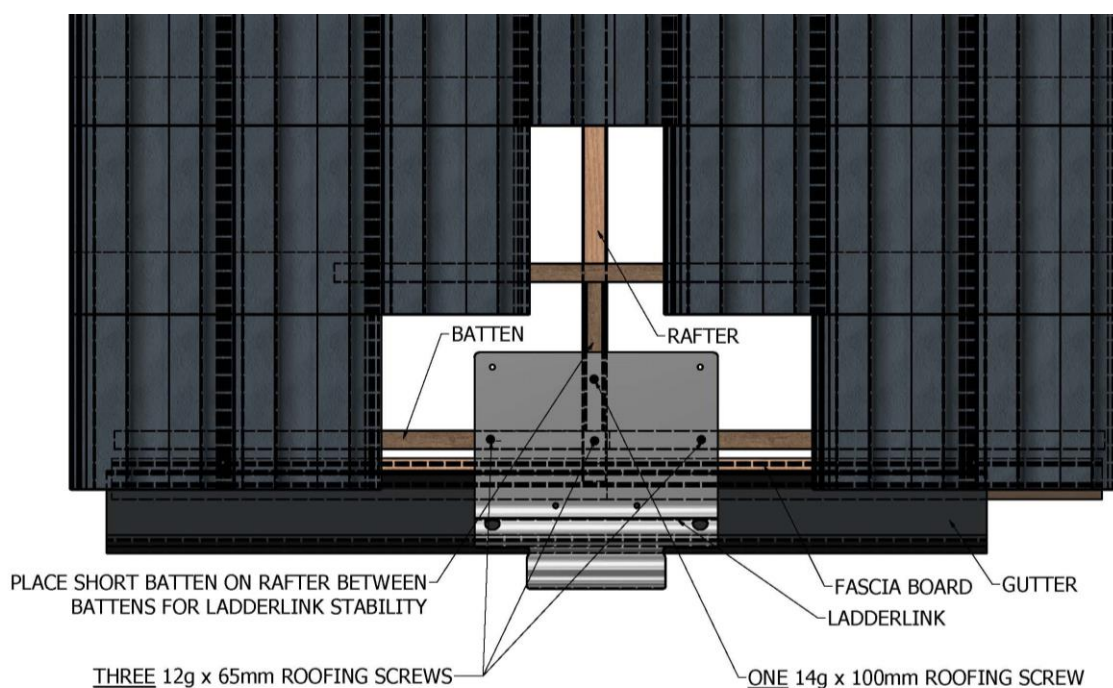
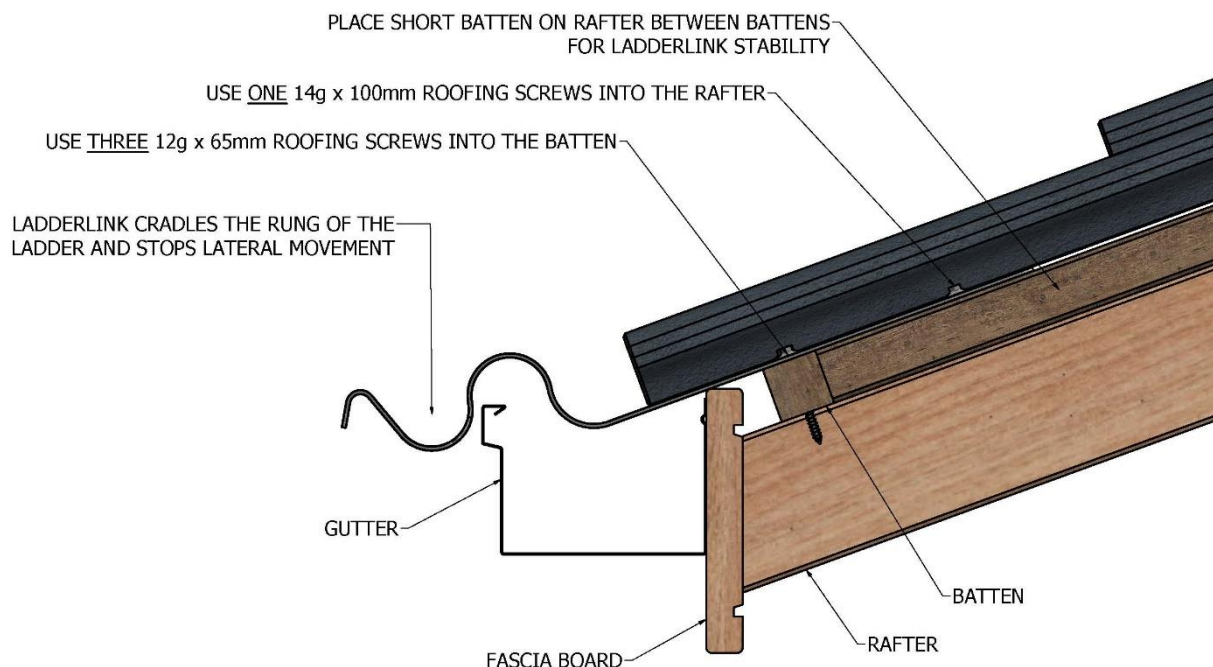
1. To install the LadderLink simply remove existing hex head roofing screws along the bottom edge of the roof sheeting at the desired location.
2. Place the ladder bracket on top of the roof sheeting as shown in the diagram below.
3. Position the ladder bracket so the rolled section is centred over the gutters front edge.
4. Once the ladder bracket is in the desired location, re-install the hex head roofing screws through the ladder bracket, ensure the screws go through the roof sheeting and into the roof batten below.
5. Ensure that a minimum of three (3) x 12g 65mm roofing screws anchor the ladder bracket to the structure (recommended to pilot drill holes).
6. Install an additional four (4) x 8mm Rivets at the top corners 50mm down from the top edge, see below diagram. This must be completed to prevent rocking of the ladder bracket.



FIXED LADDERLINK – TILED ROOF LADDER SUPPORT BRACKET

INSTALLATION FOR TILED ROOFS

1. To install the LadderLink simply remove roof tiles at the desired location.
2. Place the ladder bracket onto the batten, ensure a rafter is centred below the ladder bracket.
3. Adjust the ladder bracket so the rolled section is centred over the gutters front edge, as shown in the diagram below.
4. Once the ladder bracket is in the desired location, install three (3) x 65mm 12g hex head roofing screws through the ladder bracket and into the roof batten below (recommended to pilot drill holes).
5. Cut a short tile batten to fit as a spacer under the ladder bracket between the rafter and LadderLink.
6. Using one (1) x 100mm 14g hex head roofing screw, anchor the ladder bracket to the rafter below (recommended to pilot drill holes). This should be centred and installed 50mm down from the top edge of the ladder bracket (see below diagram).
7. Ensure that a minimum of three (3) x 12g 65mm and one (1) x 14g x 100mm roofing screws anchor the ladder bracket to the structure.
8. Ensure the timber structure is secured in accordance with current Building Codes.



FIXED LADDERLINK – WALL MOUNTED LADDER SUPPORT BRACKET

Wall Mounted - Product Code: LADFX003

INSTALLATION FOR WALL/PARAPET

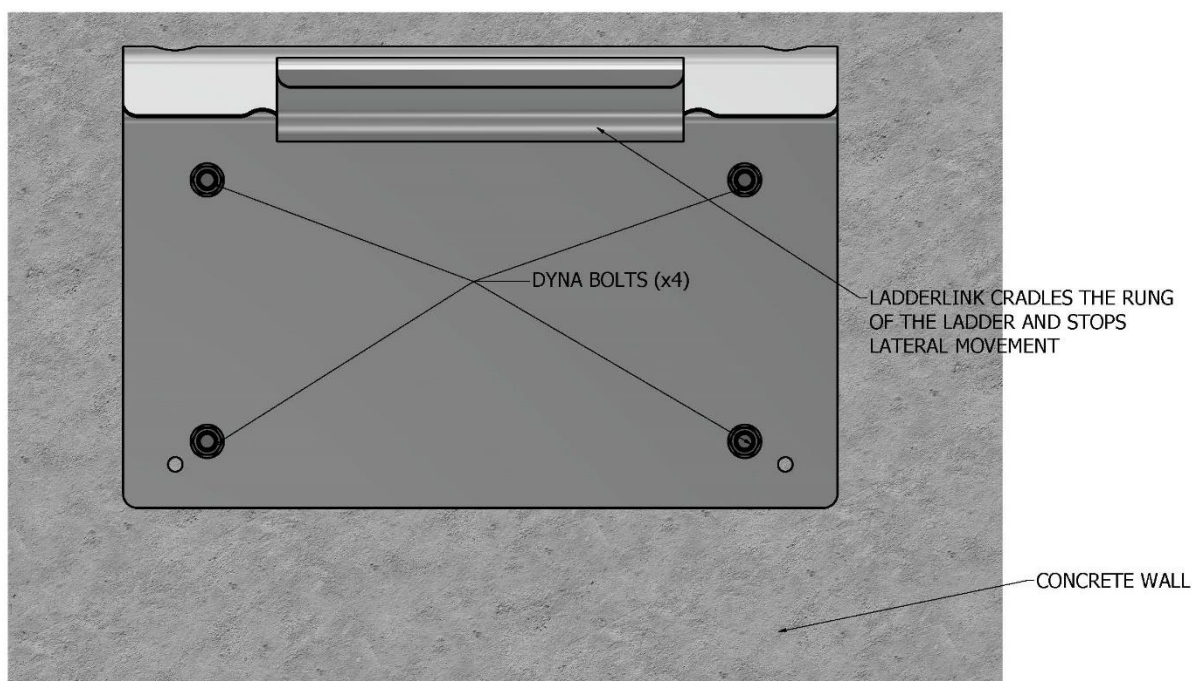
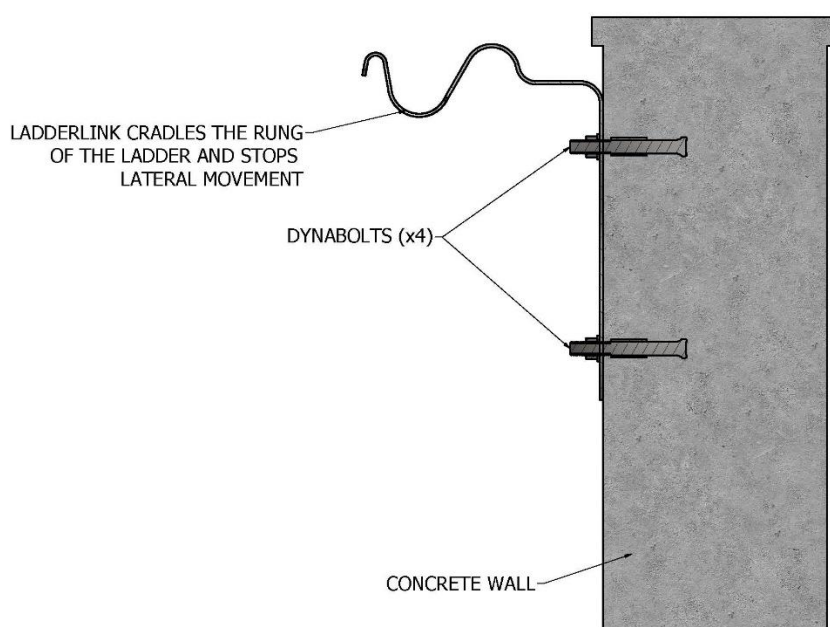
1. To install the LadderLink simply place in the desired location, ensuring there is suitable structure to support the brackets use.
2. Once the ladder bracket is in the desired location, drill securing holes in both the LadderLink and mounting structure to suit method of attachment (see recommended fixing options below).
3. Ensure that a minimum of four (4) appropriate fixings are used to anchor the ladder bracket to the structure.
4. Fixings should be evenly spaced ideally 50mm in from the LadderLink edges to create a secure installation (see below diagram).

FIXING TO TIMBER WALL/PARAPET

1. Drill and install 4 (four) 14g x 75mm roofing screws (recommended to pilot drill holes).
2. Ensure the timber structure is secured in accordance with current Building Codes.

FIXING TO CONCRETE WALL/PARAPET

1. Drill and install 4 (four) M10 Dyna bolts or equivalent chemical anchor.
2. Ensure anchoring bolts are a minimum of 150mm from concrete wall edges.



RAFTER MOUNTED ANCHOR - TILELINK

Product Code: TILEL001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF TILELINK ANCHOR POINT (refer to Appendix Diagram 2)

The first TileLink anchor point must be in a position easily and safely reached from a safe access point.

⚠ TileLink Anchors **MUST NOT** be used for Rope Access (Abseiling).

INSPECT THE TIMBER FOR STRENGTH



Install anchors only to timber strong enough to support the anchor point. Minimum timber size is 35mm by 90mm (grade F7). Inspect the timber for splits, cracks, knots and white ant damage. Ensure the timber structure is secured in accordance with current building codes and manufacturer's instructions.

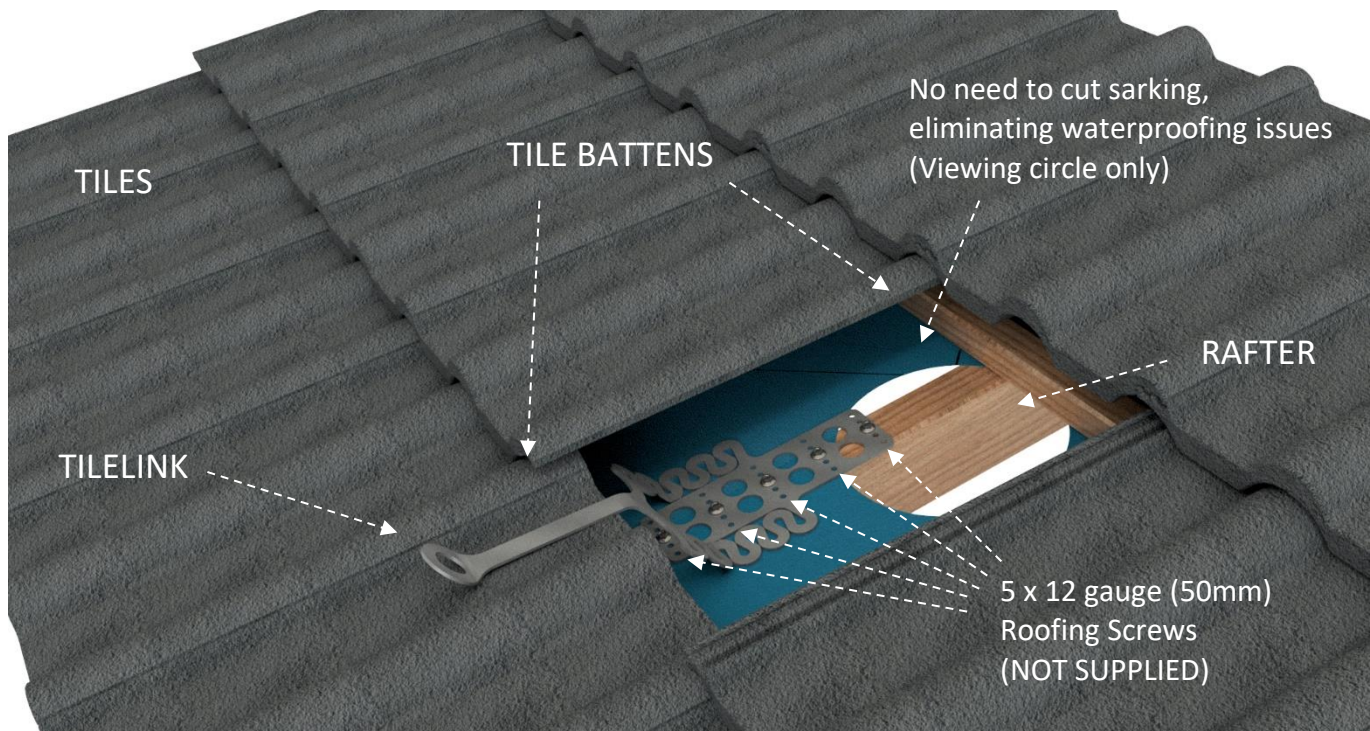
⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.

⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.

⚠ During installation you must be safe at all times.

COMPONENTS

Qty	Product Description	Product
1	TileLink Anchor Plate	
5	Fixings: 12 Gauge (50mm) Roofing Screws	



Safety Centre
Training



Installation Guide



Video Installation



Catalogue



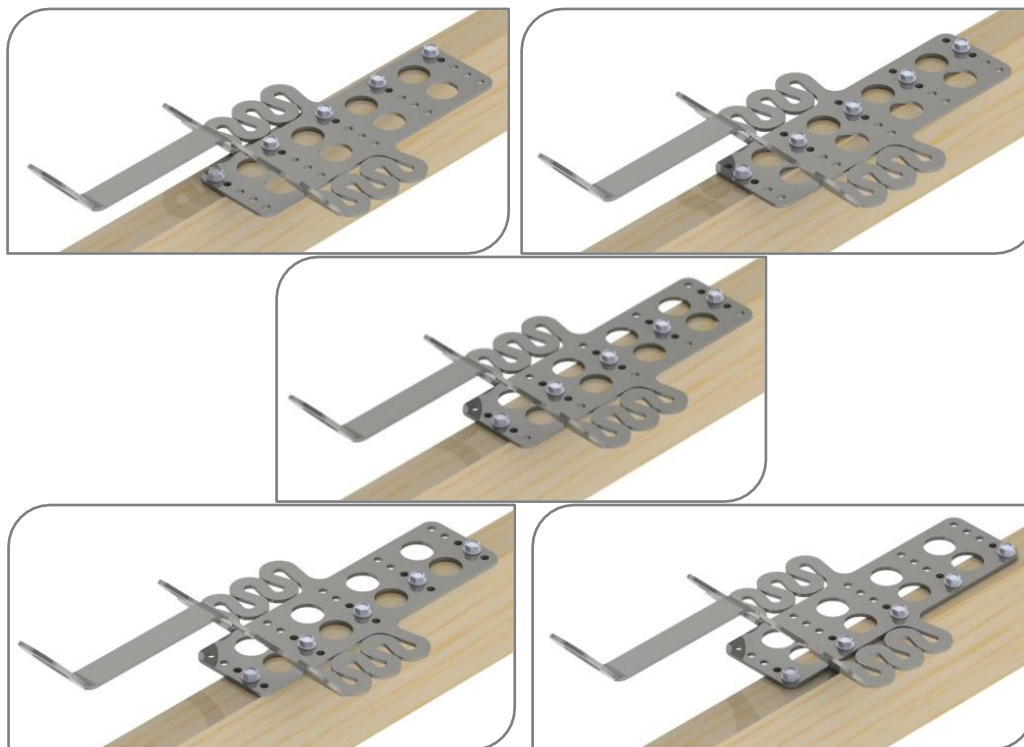
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Terms/Conditions/Warranties



FITTING THE ANCHOR POINT

1. Remove the roof tiles in desired location to expose the rafter, place TileLink on rafter.
2. TileLink may require adjustment by hand to gain clearance over lower roof tile, gently bend TileLink neck to achieve this.
3. The anchor plate has five (5) alternative fixing rows, use 5 x 12 Gauge (50mm) Roofing Screws.
4. Choose one line only to secure the plate to the top of the rafter to suit the pattern of the tiles.

NOTE: MAKE SURE ONE LINE OF THE FIXING HOLES IS IN LINE WITH THE CENTRE OF THE RAFTER.



⚠ Lateral bracing straps must be used if there is a possibility of falling in a direction 45 to 90 degrees to the rafter.

INSTALLATION OF TILELINK

1. Place TileLink in position to best suit tile pattern, **move the TileLink left or right on the rafter making sure one line of the fixing holes lines up with the centre of the rafter.**
2. TileLink is to be secured using five (5) fixing points. Pilot holes must be drilled into the timber the full length of each screw to avoid splitting the timber. There are five (5) alternate rows to choose to suit the tile profile, five examples illustrated above.
3. If the anchor point has a possibility of taking a fall in a direction 45 – 90 of the rafter additional lateral bracing may be required to support the rafter from side loads (refer to [Appendix 3](#)).
4. Bracing can be made from 40mm x 2mm galvanised steel and fixed in place with 2.8g x 35mm galvanised clouts or hex head screws.
5. Apply silicone between the TileLink anchor plate and the bottom tile.
6. Secure TileLink plate to the rafter using five **(5) x 12-gauge (50mm) roofing screws**. Pilot holes must be drilled into the timber the full length of each screw to avoid splitting the timber.
7. Apply more silicone onto the top of the TileLink anchor plate as well as the bottom edge of the top tile. The silicone should be on either side of the TileLink anchor plate and across the bottom tile effectively gluing the bottom tile to the top tile.
8. Place the top tile into position sandwiching the TileLink anchor point in place.
9. Re-nail the top tile back into place.
10. Replace all removed roof tiles back into their original positions,
11. The TileLink anchor point is now ready for use.

Live Load on Anchors:

The TileLink anchor is best suited to roof pitches up to 30 degrees. For over 30 degrees TileLink anchors should be used in conjunction with other access methods to ensure no live loading. Note: These anchors are not abseiling anchors and therefore if they are subjected to a live load this may trigger the energy absorbing regions.

RAFTER MOUNTED ANCHOR - RAFTERLINK (TOP OF TIMBER RAFTERS)

Product Code: RAFTR001

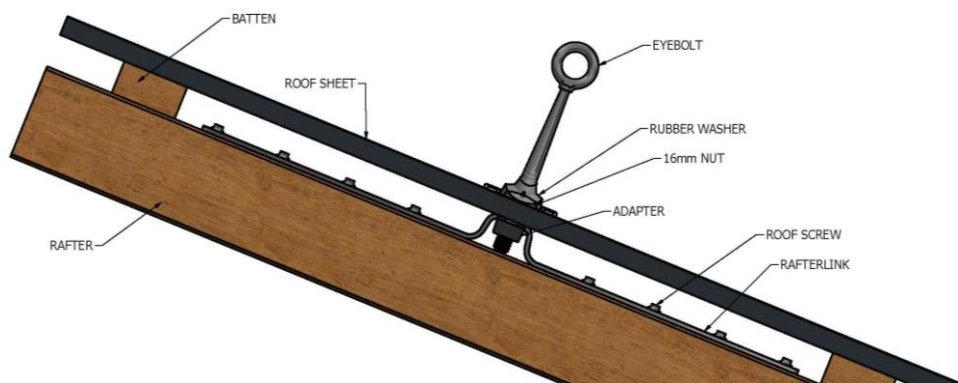
All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system. The first RafterLink anchor point must be in a position easily and safely reached from a safe access point. *RafterLink can be used with both the standard and abseiling eyebolts, the **abseiling eyebolt is required on pitches greater than 30 degrees.***

INSPECT THE TIMBER FOR STRENGTH

Install anchors only to timber strong enough to support the anchor point. Minimum timber size is 35mm by 90mm (grade F7). Inspect the timber for splits, cracks, knots and white ant damage. Ensure the timber structure is secured in accordance with current building codes and manufacturer's instructions.

COMPONENTS

Qty	Product Description
1	Eyebolt: Standard or Abseil with Locking Hex Nut 316SS
1	Washer: 75mm Rubber Hat
1	RafterLink Base Plate



FIXING RAFTERLINK

Fixing to hardwood F14 or greater use 8 type 17 Hex Head 14g x 75mm screws.

Fixing to softwood less than F14, use 8 type 17 Hex Head 14g x 90mm screws.

4.5mm pilot holes must be drilled into the timber the full length of each screw to avoid timber splitting.

Drilling a hole close to edge of timber, the hole should be slightly angled inward from the edge giving the screw a stronger hold.

⚠ Lateral bracing straps must be used if there is a possibility of falling in a direction 45 to 90 degrees to the rafter.

FIXING THE EYEBOLT

1. When screwing the locking hex nut onto the eyebolt make sure it is fully screwed up exposing 30mm of thread, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions.**)
2. Place the Lateral Bracing Strap across the rafters and screw the eyebolt through the strap and into the RafterLink and tighten the locking hex nut using a spanner (*refer to Warnings*), then screw the Lateral bracing strap down onto the adjacent rafters.
3. The strength of the lateral bracing needed depends on the structure and the amount of risk of a lateral fall off the roof but if any doubt exists as to the strength of the structure an engineer should make the assessment.

RELOCATING EYEBOLTS DURING THE INSTALLATION OF THE ROOF

You must be safely attached to an anchor point or using an alternative form of roof safety while removing and replacing the eyebolts. Use a spanner to release the locking hex nut then unscrew the eyebolt.

MARKING THE HOLE IN THE ROOF

Measure the position using two reference points and drill a 16mm hole. For a metal roof simply screw a marker pin into the RafterLink and lay the roof sheet in position and push down on the roof sheet. The pin should mark the position of the 16mm hole to be drilled.

READY TO REPLACE THE EYEBOLT

1. The rubber washer should be on the eyebolt. Place the eyebolt through the 16mm hole and screw the locking hex nut onto the eyebolt exposing 30mm of thread, coat threads with Loctite.
2. Screw the eyebolt all the way into the stainless steel bracket. Before tightening the locking hex nut turn the eyebolt to line up with the fall of the roof (see diagram above). Tighten the locking hex nut using a spanner.
3. **Threads need to have a minimum of six full 360° turns into the ultimate thread.**

WATERPROOFING

Apply only to a dry surface, use the sealant between the rubber hat washer and the roof sheeting to waterproof the roof.

RAFTER MOUNTED ANCHOR - RAFTERLINK SIDE MOUNTED

Product Code: RAFTR004

INSTALLATION: TO THE SIDE OF A TIMBER RAFTER – EXISTING BUILDING

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

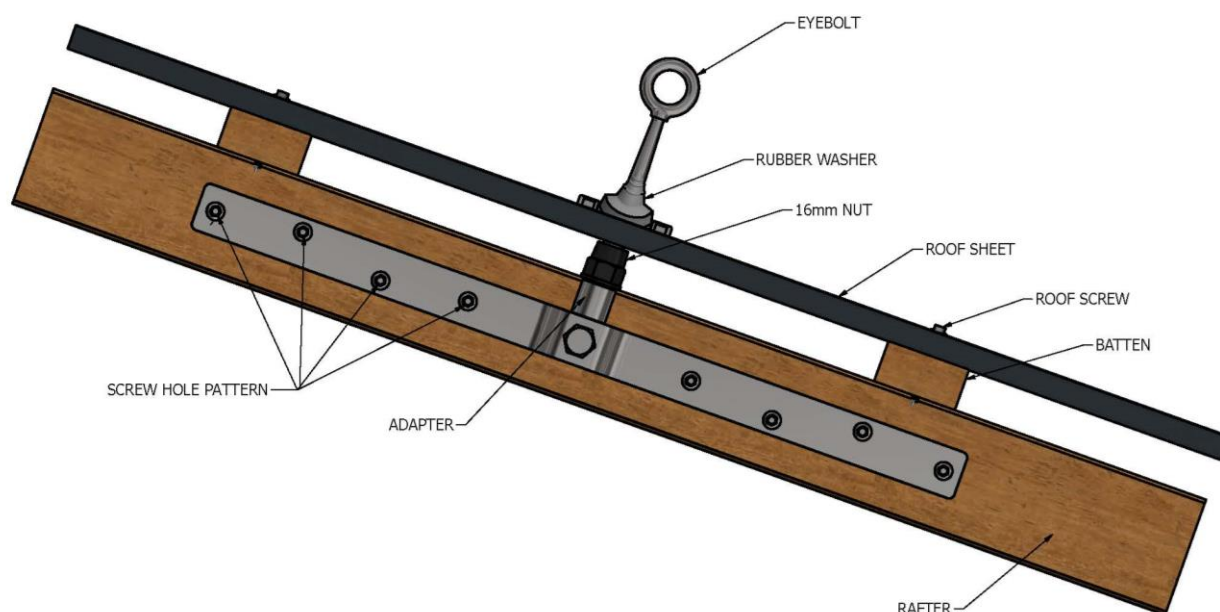
The first RafterLink anchor point must be in a position easily and safely reached from a safe access point. *RafterLink can be used with both the standard and abseiling eyebolts, the **abseiling eyebolt is required on pitches greater than 30 degrees.***

INSPECT THE TIMBER FOR STRENGTH

Install anchors only to timber strong enough to support the anchor point. Minimum timber size is 35mm by 90mm (grade F7). Inspect the timber for splits, cracks, knots and white ant damage. Ensure the timber structure is secured in accordance with current building codes and manufacturer's instructions.

COMPONENTS

Qty	Product Description
1	Eyebolt: Standard or Abseil with Locking Hex Nut 316SS
1	Washer: 75mm Rubber Hat
1	RafterLink Base Plate: Side Mounted with adapter



FIXING THE RAFTERLINK

1. Place the bracket in centre of the rafter, 80mm down from the underside of the roof sheeting.
2. 4.5mm pilot holes must be drilled into the timber, through the holes in the RafterLink, the full length of each screw to avoid timber from splitting.
3. 8 type 17 Hex Head 14g x 50mm screws in prepared holes (minimum timber size 90mm x 35mm F7).

⚠ Lateral bracing straps must be used if there is a possibility of falling in a direction 45 to 90 degrees to the rafter.

INSTALLING THE EYEBOLT

1. This requires one installer on the top of the roof sheeting and the other under the roof sheeting.
2. To stay safe while installing the first anchor point, the eyebolt should be positioned so you can reach it off a secured ladder or access point.
3. The person on the roof makes sure the rubber washer is on the eyebolt before slipping the eyebolt through the 16mm hole.
4. The person underside of the roof screws the locking hex nut fully onto the eyebolt exposing 30mm of thread, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions, refer to Warnings).**
5. The person on the roof is now ready to screw the eyebolt all the way into the RafterLink.
6. Before tightening the locking hex nut turn the eyebolt to line up with the fall of the roof (*refer to Warnings*).
7. The person underside of the roof tightens the locking hex nut using a spanner.
8. **Threads need to have a minimum of six full 360° turns into the ultimate thread.**

WATERPROOFING

Apply only to a dry surface, use the sealant between the rubber hat washer and the roof sheeting to waterproof the roof.

RAFTER MOUNTED ANCHOR – HINGELINK (SIDE MOUNTED)

Product Code: HINGE001

INSTALLATION: TO THE SIDE OF A TIMBER RAFTER - EXISTING BUILDING

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

The first HingeLink anchor point must be in a position easily and safely reached from a safe access point. *HingeLink can be used with both the standard and abseiling eyebolts, the **abseiling eyebolt is required on pitches greater than 30 degrees.***

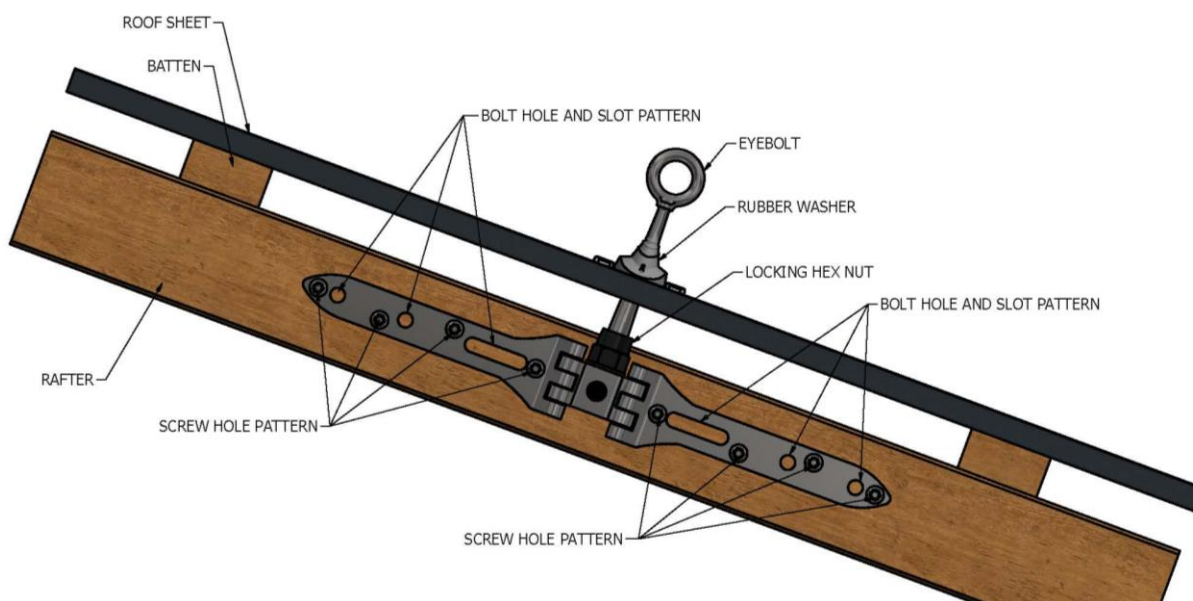
INSPECT THE TIMBER FOR STRENGTH

Install anchors only to timber strong enough to support the anchor point. Minimum timber size is 35mm by 90mm (grade F7). Inspect the timber for splits, cracks, knots and white ant damage. Ensure the timber structure is secured in accordance with current building codes and manufacturer's instructions.

⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.

COMPONENTS

Qty	Product Description
1	Eyebolt: Standard or Abseil with Locking Hex Nut 316SS
1	Washer: 75mm Rubber Hat
1	HingeLink Base 316SS



FIXING HINGELINK BRACKET

1. **Tip:** Place the bracket in centre of rafter, 80mm down from the underside of the roof sheeting, mark the centre of hole for the eyebolt and the bolt holes in the bracket.
2. Use markings to drill required holes.
3. To secure the bracket use four (4) M12mm bolts with washers under the nut (**coat threads with Loctite**).
4. Use two (2) Hex Head 12g 50mm screws in the small holes.

⚠ Lateral bracing straps must be used if there is a possibility of falling in a direction 45 to 90 degrees to the rafter.

INSTALLING THE EYEBOLT

1. This requires one installer on the top of the roof sheeting and the other under the roof sheeting.
2. To stay safe while installing the first anchor point the eyebolt should be positioned so you can reach it off a secured ladder or access point.
3. The person on the roof makes sure the rubber washer is on the eyebolt before placing the eyebolt through the 16mm hole.
4. The person underside of the roof screws the locking hex nut fully onto the eyebolt exposing 30mm of thread, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions, refer to Warnings**).
5. The person on the roof is now ready to screw the eyebolt all the way into the HingeLink Hinged Bracket.
6. Before tightening the locking hex nut turn the eyebolt to line up with the fall of the roof.
7. The person underside of the roof tightens the locking hex nut using a spanner.
8. **Threads need to have a minimum of six full 360° turns into the ultimate thread.**

WATERPROOFING

Apply only to a dry surface, use the sealant between the rubber hat washer and the roof sheeting to waterproof the roof.



RAFTER MOUNTED ANCHOR – HINGELINK (TOP OF RIDGE MOUNTED)

Product Code: HINGE001

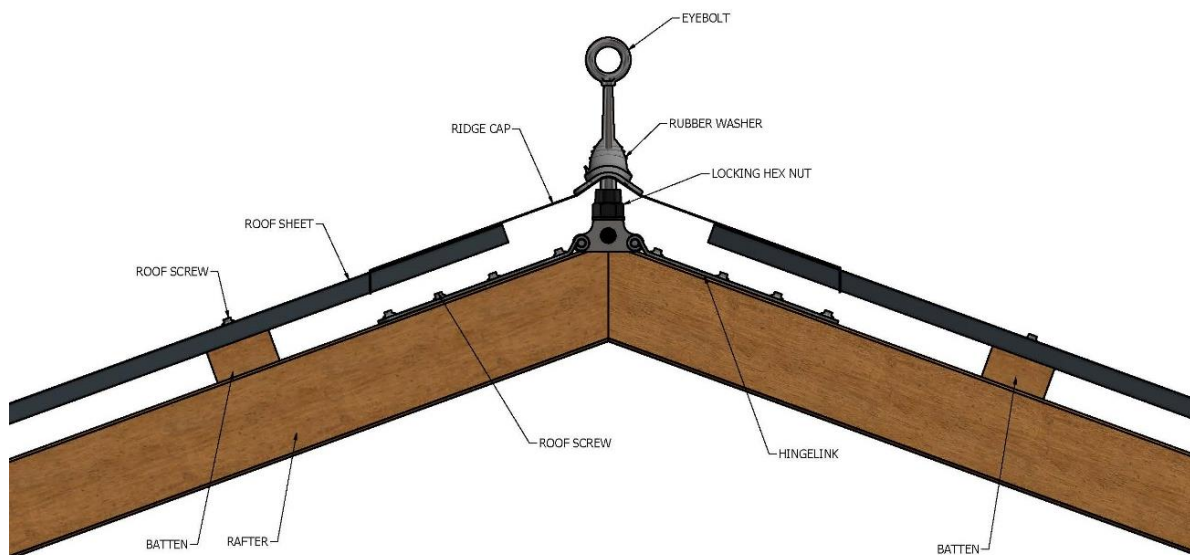
All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system. The first HingeLink anchor point must be in a position easily and safely reached from a safe access point.

INSPECT THE TIMBER FOR STRENGTH

Install anchors only to timber strong enough to support the anchor point. Minimum timber size is 35mm by 90mm (grade F7). Inspect the timber for splits, cracks, knots and white ant damage. Ensure the timber structure is secured in accordance with current building codes and manufacturer's instructions.

COMPONENTS

Qty	Product Description
1	Eyebolt: Standard or Abseil with Locking Hex Nut 316SS
1	Washer: 75mm Rubber Hat
1	HingeLink Base 316SS



FIXING THE HINGELINK STAINLESS STEEL BRACKET

1. Placing the eyebolt in the HingeLink makes it easier to check the eyebolt for plumb.
2. Place the HingeLink over the truss and down either side sandwiching the truss making sure the eyebolt is plumb then mark and drill three at 12.2mm holes. Use three only 12mm mild steel bolts (coat threads with Loctite).

FIXING THE EYEBOLT

1. When screwing the locking hex nut onto the eyebolt make sure it is fully screwed up exposing 30 mm of thread, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions, refer to Warnings**).
2. Place the hoop iron strap along the rafter and screw the eyebolt through the strap and into the HingeLink, tighten the locking hex nut using a spanner. Then screw the strap down onto the rafters of the truss using 6 of 12g x 40mm screws.

RELOCATING THE EYEBOLTS DURING THE INSTALLATION OF A ROOF

You must be safely attached to an anchor point or using an alternative form of roof safety while removing and replacing the eyebolts. Use a spanner to release the locking hex nut then unscrew the eyebolt and remove the locking hex nut.

MARKING THE HOLE IN THE ROOF SURFACE

Measure the position using two reference points and drill a 16mm hole. For a metal roof simply screw a marker pin into the HingeLink and lay the sheet or ridge in position and push down on the roof sheet. The pin should mark the position of the 16mm hole to be drilled.

READY TO REPLACE THE EYEBOLT

1. The rubber washer should be on the eyebolt, place the eyebolt through the 16mm hole and screw the locking hex nut onto the eyebolt exposing 30mm of thread (coat threads with Loctite, refer to Warnings).
2. Screw the eyebolt all the way into the HingeLink. Before tightening the locking hex nut turn the eyebolt to line up with the fall of the roof. Tighten the locking hex nut using a spanner.
3. **Threads need to have a minimum of six full 360° turns into the ultimate thread.**

WATERPROOFING

Apply only to a dry surface, use a sealant between the rubber washer and the roof sheeting to waterproof the roof.







STEEL PURLIN MOUNTED ANCHOR - RETROLINK

FLAT WASHER - Product Code: RETRO003
 RAISED WASHER - Product Code: RETRO004

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

COMPONENTS

Qty	Product Description	Product
1	Retro Eyebolt with O Ring and M16 Washer	
1	Flat Retro Washer (install in pan) or Raised Retro Washer (install on top of profile)	 or
1	Retro Tube with Positioning Ties	
	25mm Hole Drill Bit can be purchased from SafetyLink	

POSITIONING OF RETROLINK

- The first RetroLink anchor point must be in a position easily and safely reached from a safe access point.
- The SafetyLink RetroLink is an energy absorbing anchor point designed for abseiling used on metal roofing/steel purlin structure.
- Installation is a simple task requiring no access from underside of the roof.
- Multi-directional rope access and fall arrest protection.

INSPECT THE STRUCTURE FOR STRENGTH

Steel purlins must be a minimum 1.2mm gauge and be correctly secured in accordance with current Building Codes.

LOCATING THE PURLIN

If the roof sheets are screwed down, then use these screws as a guide to locate the purlin. If the roof sheeting has concealed fixings, finding the purlin is more difficult. You can lift a sheet to find the purlin or by walking on the roof you can feel the purlin. You can also use a strong magnet to find the purlin.

Product Code: RETRO004



SAFETYLINK RETROLINK ANCHORS INSTALLED TO THE RAISED SECTION OF ROOF SHEET PROFILES ARE NOT SUITABLE FOR ROPE ACCESS/ABSEILING DUE TO POTENTIAL ROOF SHEET DISTORTION UNDER LIVE LOADINGS.



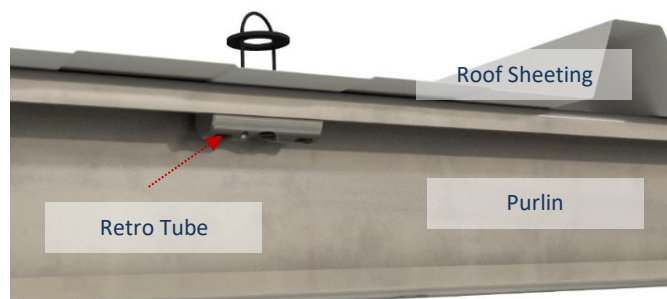
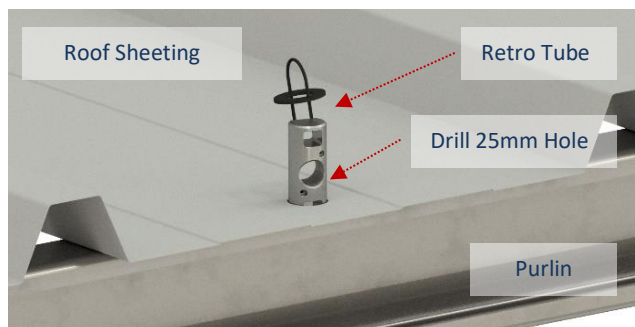
- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ During installation you must be safe at all times.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.

STEEL PURLIN MOUNTED ANCHOR - RETROLINK

FLAT WASHER - Product Code: RETRO003
RAISED WASHER - Product Code: RETRO004

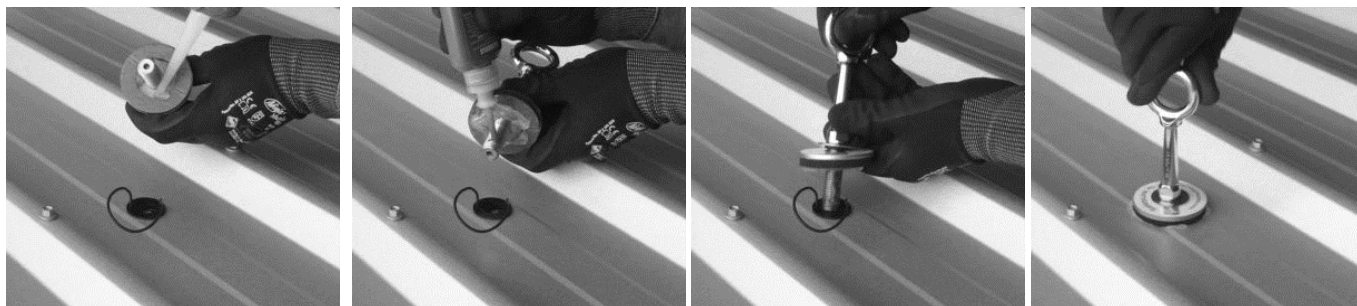
INSTALLATION OF THE RETRO TUBE TO A STEEL C OR Z PURLIN

1. Locate the centre of the purlin and drill a 25mm hole.
2. Clean away swarf to eliminate rust damage to the structure.
3. Hold onto the positioning ties and slide the Retro Tube vertically through the 25mm hole. Once the tube is through the hole, reorientate it to a horizontal position.
4. Slide the plastic washer down the positioning ties and draw the Retro Tube up to the underside of the purlin or post.



INSTALLATION OF RETRO EYEBOLT

1. When the Retro Tube is in the correct position, place the Retro Eyebolt through the Retro Washer.
2. Remove sticker from foam washer and apply silicon.
3. Coat Eyebolt thread with Loctite.
(IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).



4. Place the Retro Eyebolt into the Retro Tube, before tightening the rubber ties can be cut off or wrapped around the eyebolt.
5. Then tighten the eyebolt so it lines up with the run of the roof.
6. **Threads need to have a minimum of minimum of EIGHT FULL 360° TURNS into the ultimate thread.**

WATERPROOFING

Apply only to a dry surface, use a sealant between the retro washer and the roof sheeting ensuring you fill the entire section under the washer, this will fill the void under the washer ensuring there will be no water penetrations. Make sure you use plenty of sealant where it is needed as it is costly to return and do it again.

***SAFETYLINK RETROLINK ANCHORS INSTALLED TO THE RAISED SECTION OF ROOF SHEET PROFILES ARE NOT SUITABLE FOR ROPE ACCESS/ABSEILING DUE TO POTENTIAL ROOF SHEET DISTORTION UNDER LIVE LOADING.**



Safety Centre Training



Installation Guide



Installation Video



Catalogue



SURFACE MOUNTED ANCHOR - FROGLINK

Product Code: FROGL001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

⚠ **FROGLINK ANCHORS MUST NOT BE USED FOR ROPE ACCESS (ABSEILING).**

⚠ **MAXIMUM USER PER FROGLINK IS ONE (1) PERSON.**

INSPECT THE INTEGRITY OF THE STRUCTURE AND ROOF SHEETING

- Installation of anchors can only be made to roof sheeting strong enough to support the anchor point.
- **MINIMUM** roof sheet gauge is **0.42mm** for steel and **0.7mm** for aluminium.
- Roof sheets must be inspected thoroughly for splits, rust, corrosion damage and correct installation.
- Ensure the roof sheeting and structure is secured in accordance with current building codes and manufacturer's instructions.

POSITIONING OF FROGLINK ANCHOR POINT (refer to Appendix Diagram 2)

1. The first FrogLink must be in a position easily and safely reached from a safe access point Access to the underside of the roof is not required for installation.
2. It is recommended the FrogLink be installed to the top/high section of the roof sheeting profile aligned with the fall of the roof, where this is not practical the FrogLink may be installed into the low/pan section, be sure not to create an area where leaves and debris can collect.
3. Ensure FrogLink is installed between a minimum of two purlins/battens, with the roof sheeting being installed/secured down as per manufacturers recommendations.
4. FrogLink Anchors must be positioned a **MINIMUM OF 2 METRES** from the edge on clip down/standing seam style roof profiles unless additional securing of roof sheeting is made.


INSTALLATION ON STANDING SEAM / KLIP-LOK ROOF PROFILES

On clip down style roofs (such as Standing Seam/Klip-lok), surface mounted anchors must not be installed any closer than two (2) metres from an edge unless additional securing of roof sheeting is made.

Additional securing can be made to roof sheets with 12-gauge roofing screws through the roof sheeting into the purlin/batten, **four (4) above** or **four (4) below** the anchor, on the side of the anchor that falls under two metres from an edge. This secures the roof sheeting in place to the purlins/battens to prevent horizontal movement in the event of a fall. **Note: screws may be required on both sides of the anchor depending on the individual situation.**



COMPONENTS

Qty	Product Description	Product
1	FrogLink Plate with waterproofing membrane	
7	8mm Rivets (drill size 7.8-8.2mm, 27.7mm length, 1.0-9.5mm grip range, Aluminium)	



SURFACE MOUNTED ANCHOR - FROGLINK

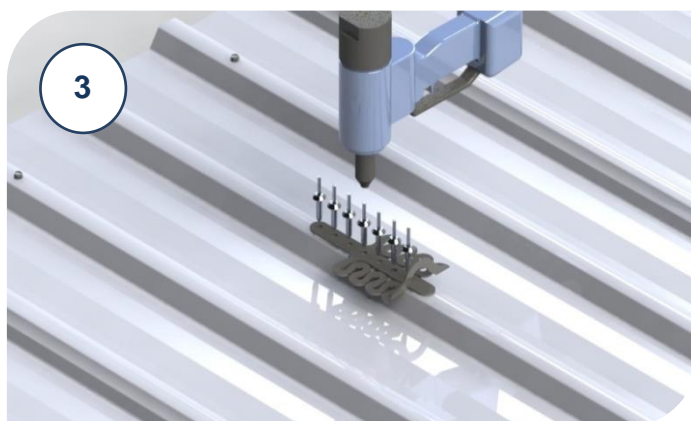
Product Code: FROGL001

INSTALLATION: TO THE SURFACE OF A METAL ROOF

1. Place the FrogLink on the surface of the roof sheet running parallel with the sheets profile in the required location. FrogLink anchor is recommended to be installed in the top section of the profile aligned with the fall of the roof, when this cannot be achieved the FrogLink can be installed into the pan, be sure not to create an area where leaves or debris can collect.
2. Drill Seven (7) x 8mm holes into the roof sheets through the locating holes on the FrogLink.
3. Secure the FrogLink to the roof by riveting through the holes in the FrogLink Anchor and the roof sheet using 8mm Rivets. *Use QR code below for video installation.*
4. The FrogLink Anchor Point is now ready for use, giving you, an anchor point to attach to while installing the next FrogLink.

Live Load on Anchors:

The FrogLink anchor is best suited to roof pitches up to 30 degrees. For over 30 degrees FrogLinks should be used in conjunction with other access methods to ensure no live loading. Note: These anchors are not abseiling anchors and therefore if they are subjected to a live load this may trigger the energy absorbing regions.



- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.



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SURFACE MOUNTED ANCHOR – CLASSIC SURFACELINK

Product Code: ASURF001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

⚠ SURFACE MOUNTED ANCHORS MUST NOT BE USED FOR ROPE ACCESS (ABSEILING).

POSITIONING OF SURFACELINK ANCHOR POINT (refer to Appendix Diagram 2)








- The first SurfaceLink must be in a position easily and safely reached from a safe access point. Access to underside of roof is not required for installation.
- It is recommended the SurfaceLink be installed to the top/high section of the roof sheeting profile aligned with the fall of the roof, where this is not practical the SurfaceLink may be installed into the low/pan section, be sure not to create an area where leaves and debris can collect.
- Ensure SurfaceLink is installed between a minimum of two purlins/battens, with the roof sheeting being installed/secured down as per manufacturers recommendations.
- SurfaceLink Anchors must be positioned a **MINIMUM OF 2 METRES** from the edge on clip down/standing seam style roof profiles unless additional securing of roof sheeting is made.

Live Load on Anchors:

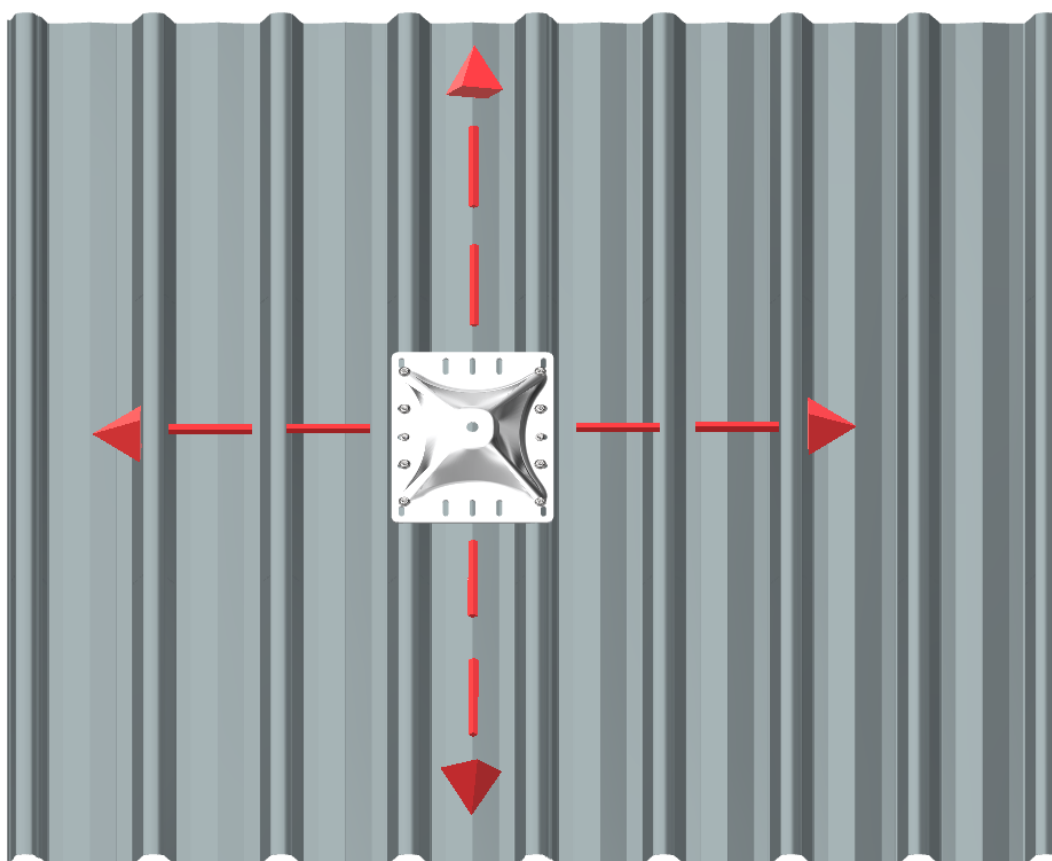
The surface mounted anchor is best suited to roof pitches up to 30 degrees. For over 30 degrees surface mounted anchors should be used in conjunction with other access methods to ensure no live loading. Note: these anchors are not abseiling anchors and therefore if they are subjected to a live load this may trigger the energy absorbing regions.

- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.

COMPONENTS

Qty	Product Description	Product
1	Eyebolt: 316 Stainless Steel with Locking Hex Nut	
1	Classic SurfaceLink Plate (305mm Marine Grade Aluminium)	
2	Waterproofing Membrane	
1	Washer: 70mm OD Plastic	
1	Washer: 50mm OD 316 Stainless Steel	
1	Nut: M16 316 Stainless Steel	
10	Rivets: 8mm (Drill Size 7.8-8.2mm, 27.7mm length, 1.0-9.5mm grip range)	

SETTING OUT



INSPECT THE INTEGRITY OF THE STRUCTURE AND ROOF SHEETING

- Installation of anchors can only be made to roof sheeting strong enough to support the anchor point.
- **MINIMUM** roof sheet gauge is **0.42mm** for steel and **0.7mm** for aluminium.
- Roof sheets must be inspected thoroughly for splits, rust, corrosion damage and correct installation.
- Ensure the roof sheeting and structure is secured in accordance with current building codes and manufacturer's instructions.
- Place Surface Mounted Anchor in desired location to match holes with roof profile.

INSTALLATION TO STANDING SEAM / KLIP-LOK ROOF PROFILES

On clip down style roofs (such as Standing Seam/Klip-lok), surface mounted anchors must not be installed any closer than two (2) metres from an edge unless additional securing of roof sheeting is made.

Additional securing can be made to roof sheets with 12-gauge roofing screws through the roof sheeting into the purlin/batten, **four (4) above** or **four (4) below** the anchor, on the side of the anchor that falls under two metres from an edge. This secures the roof sheeting in place to the purlins/battens to prevent horizontal movement in the event of a fall. **Note: screws may be required on both sides of the anchor depending on the individual situation.**

- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.

WARNING: SURFACE MOUNTED ANCHORS SHOULD BE POSITIONED NO LESS THAN 2 METRES FROM THE EDGE ON CLIP DOWN/STANDING SEAM STYLE ROOF PROFILES UNLESS ADDITIONAL SECURING OF ROOF SHEETING IS MADE.

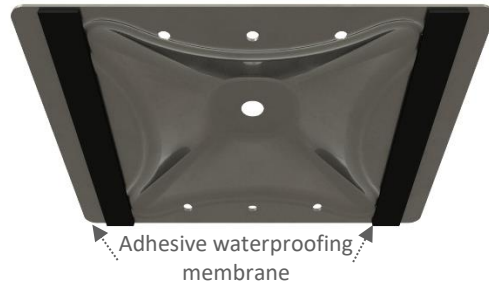
SURFACE MOUNTED ANCHOR – CLASSIC SURFACELINK

Product Code: ASURF001

ASSEMBLING

STEP 1

Apply adhesive waterproofing membrane under rivet location.



STEP 2

Screw locking hex nut into eyebolt leaving 30mm of thread, coat threads with Loctite (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions**).



STEP 3

Insert eyebolt through Classic SurfaceLink Plate.



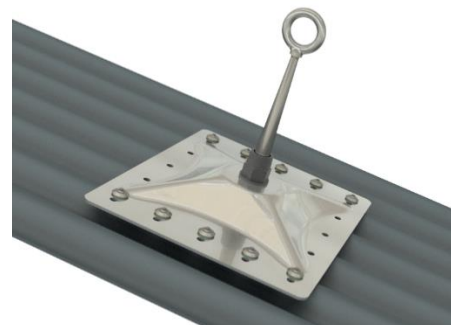
STEP 4

Apply a 70mm plastic washer, 50mm stainless steel washer and nut to underside of the surface plate, tighten nut finger tight (**coat threads with Loctite**).



STEP 5

Tighten nut and Locking Hex Nut making certain eyebolt lines up with fall of roof.



Threads need to have a minimum of **six full 360° turns** into the ultimate thread.

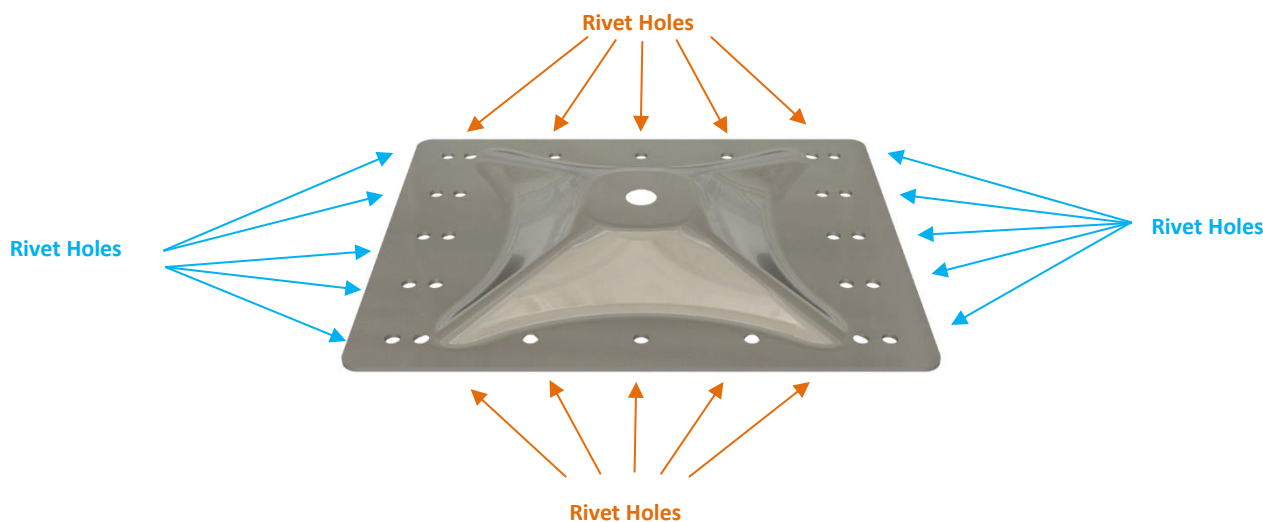
SURFACE MOUNTED ANCHOR – CLASSIC SURFACELINK

Product Code: ASURF001

INSTALLING

1. Place SurfaceLink on surface of roof sheets in required location.
2. Drill Ten (10) 8mm holes into roof sheets through locating holes on both sides of the SurfaceLink (5 each side).
3. Secure the SurfaceLink to the roof by riveting through holes in surface mounted anchor and roof sheet using 8mm Rivets (Drill Size 7.8-8.2mm, 27.7mm length, 1.0-9.5mm grip range, Aluminium).
4. Secure using two sides, either **ORANGE** sides or **BLUE** sides of plate.

- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.



WARNING: SURFACE MOUNTED ANCHORS SHOULD BE POSITIONED A MINIMUM OF 2 METRES FROM THE EDGE ON CLIP DOWN/STANDING SEAM STYLE ROOF PROFILES UNLESS ADDITIONAL SECURING OF ROOF SHEETING IS MADE.

The SafetyLink Anchor Point is now ready for use, giving you an anchor point to attach to while installing the next Anchor.

Live Load on Anchors:

*The surface mounted anchor is best suited to roof pitches up to 30 degrees. For over 30 degrees surface mounted anchors should be used in conjunction with other access methods to ensure no live loading. Note: these anchors are **not abseil** anchors and therefore if they are subjected to a live load this may trigger the energy absorbing regions.*



Safety Centre Training



Installation Guide



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SURFACE MOUNTED ANCHOR – SURFACELINK (DOUBLE PLATES)

Product Code: SURFL001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety protection system.

⚠ SURFACE MOUNTED ANCHORS MUST NOT BE USED FOR ROPE ACCESS (ABSEILING).


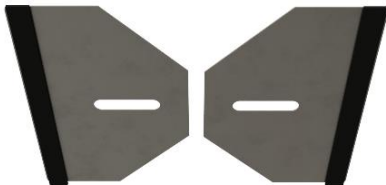




INSPECT THE INTEGRITY OF THE STRUCTURE AND ROOF SHEETING

- Installation of anchors can only be made to roof sheeting strong enough to support the anchor point.
- **MINIMUM** roof sheet gauge is **0.42mm** for steel and **0.7mm** for aluminium.
- Roof sheets must be inspected thoroughly for splits, rust, corrosion damage and correct installation.
- Ensure the roof sheeting and structure is secured in accordance with current building codes and manufacturer's instructions.

POSITIONING OF SURFACELINK ANCHOR POINT (refer to Appendix Diagram 2)

- The first SurfaceLink must be in a position easily and safely reached from a safe access point. Access to underside of roof is not required for installation.
- It is recommended the SurfaceLink be installed to the top/high section of the roof sheeting profile aligned with the fall of the roof, where this is not practical the SurfaceLink may be installed into the low/pan section, be sure not to create an area where leaves and debris can collect.
- Ensure SurfaceLink is installed between a minimum of two purlins/battens, with the roof sheeting being installed/secured down as per manufacturers recommendations.
- SurfaceLink Anchors must be positioned a **MINIMUM OF 2 METRES** from the edge on clip down/standing seam style roof profiles unless additional securing of roof sheeting is made.

COMPONENTS

Qty	Product Description	Product
1	Eyebolt: 316 Stainless Steel with Locking Hex Nut	
1	Stainless Steel Side Plates with foam tape	
1	Washer: 70mm OD 316 Stainless Steel	
1	Washer: 50mm OD 316 Stainless Steel	
1	Nut: M16 316 Stainless Steel	
12	Rivets: 8mm (Drill Size 7.8-8.2mm, 27.7mm length, 1.0-9.5mm grip range)	

SURFACE MOUNTED ANCHOR – SURFACELINK (DOUBLE PLATES)

Product Code: SURFL001

ASSEMBLING

STEP 1

Screw locking hex nut into eyebolt leaving 30mm of thread, (coat threads with Loctite).



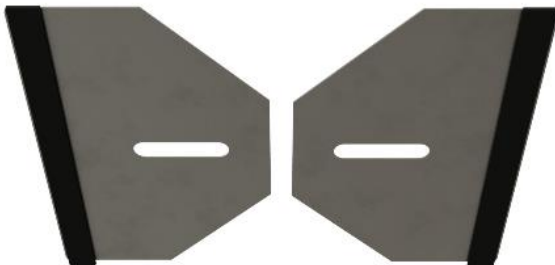
STEP 2

Add 70mm stainless steel washer to eyebolt thread.



STEP 3

Overlap side plates, aligning slots for Eyebolt.



STEP 4

Insert eyebolt through side plates.



STEP 5

Apply 50mm stainless steel washer and M16 nut, tighten nut finger tight (coat threads with Loctite). (IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).



Assembling continued over.....

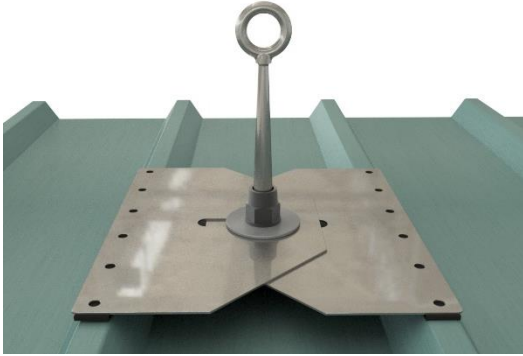
SURFACE MOUNTED ANCHOR – SURFACELINK (DOUBLE PLATES)

Product Code: SURFL001

INSTALLING

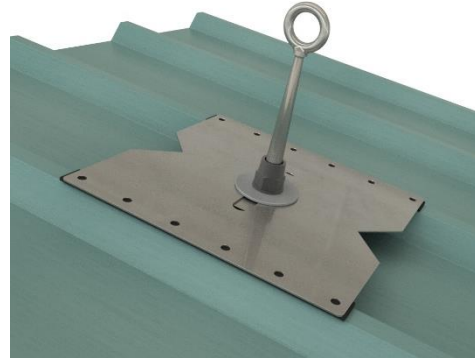
STEP 6

Adjust side plates and Eyebolt in slot to correct profile of roof.



STEP 7

Tighten nut and Locking Hex Nut making certain eyebolt lines up with fall of roof.



Threads need to have a minimum of **six full 360° turns** into the ultimate thread.

1. Place SurfaceLink Anchor on surface of roof sheets in required location.
2. Drill twelve 12 x 8mm holes into roof sheets through rivet holes on both sides of the SurfaceLink Anchor.
3. Secure the SurfaceLink Anchor to the roof by riveting through anchor and roof sheet using 8mm Rivets.

- ⚠ If any doubt exists with the strength of the structure or roof sheets an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.



WARNING: SURFACE MOUNTED ANCHORS SHOULD BE POSITIONED NO LESS THAN 2 METRES FROM THE EDGE ON CLIP DOWN/STANDING SEAM STYLE ROOF PROFILES UNLESS ADDITIONAL SECURING OF ROOF SHEETING IS MADE.

Live Load on Anchors:

The Surface Mounted anchor is best suited to roof pitches up to 30 degrees. For over 30 degrees Surface Mounted anchors should be used in conjunction with other access methods to ensure no live loading. Note: These anchors are not abseiling anchors and therefore if they are subjected to a live load this may trigger the energy absorbing regions.

CONCRETE MOUNTED ANCHOR - CONCRETELINK

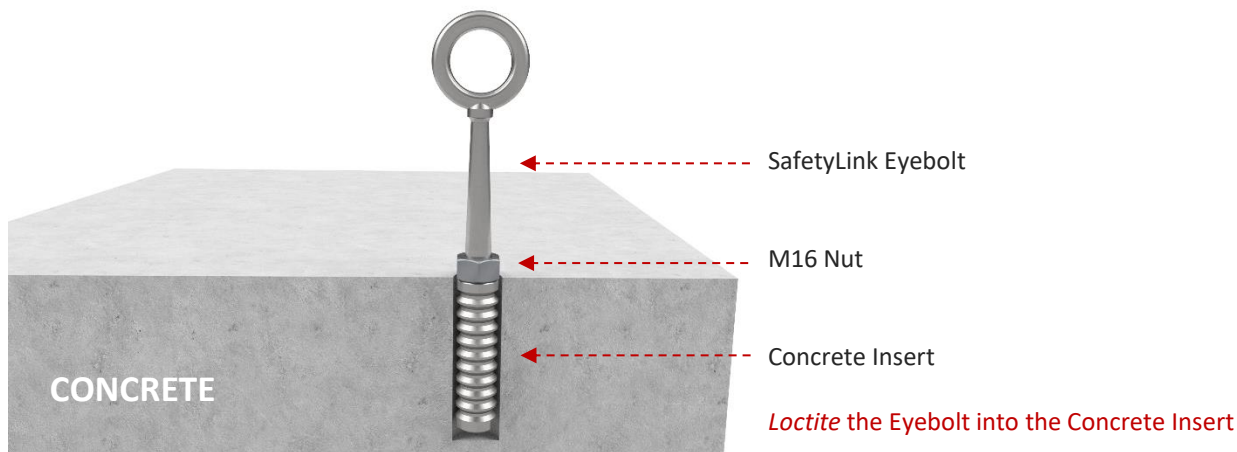
Product Code: CONCL001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF CONCRETELINK ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2)
- The first ConcreteLink Anchor Point must be in a position easily and safely reached from a safe access point.
- ConcreteLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.



LOCATING THE STEEL IN THE CONCRETE

To comply with current Standards. Use *Digital metal detector: BOSCH DMO 10*. to locate the steel in the concrete when positioning the ConcreteLink Anchor. This ensures steel is avoided when drilling.

DRILLING THE HOLE

Drill a 28mm hole to a depth of 90mm.

PREPARING THE HOLE

The hole must be moisture and dust free. Remove dust using compressed air, small brush and vacuum cleaner.

INSTALLING THE CONCRETE INSERT

Recommended chemical anchor: Hilti RE500, Hilti HY200 or equivalent as per Product Supplement Data sheets. Read instructions on product carefully. The whole surface of the ConcreteLink unit in contact with the concrete must use sufficient adhesive gel as specified on the product.

FITTING THE SAFETYLINK STAINLESS STEEL EYEBOLT

1. When screwing the M16 nut onto the stainless steel eyebolt make sure it is fully screwed up exposing 30mm of thread, then screw the eyebolt into the ConcreteLink.
2. Ensure the eyebolt is positioned in-line with the fall of the roof.

Use Loctite on the eyebolt thread to ensure that the unit cannot be tampered with (IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions).

Testing for Free fall-arrest for one person. 15kN ultimate strength.

To comply with current Standards each ConcreteLink unit must be tested after installation. Allow sufficient time at least 48 hours for curing before testing. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.



Safety Centre Training



Installation Guide



Video Installation



Catalogue



www.safetylink.com
Terms/Conditions/Warranties



Ref: Anchors_Handbook

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CONCRETE MOUNTED ANCHOR - CONCRETELINK (COLLARED EYEBOLT)

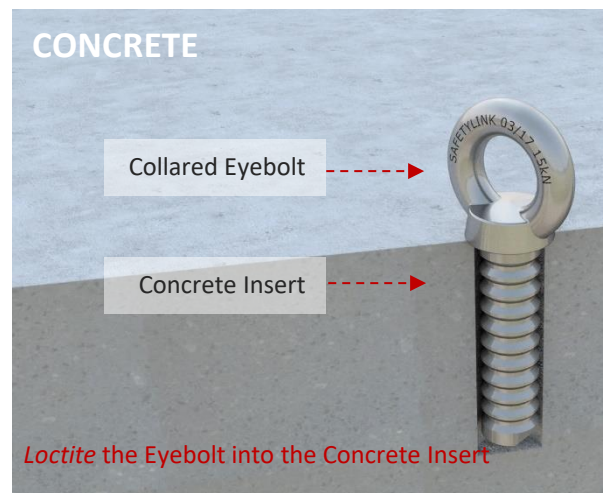
Product Code: CONCL002

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF CONCRETELINK ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2).
- The first ConcreteLink Anchor Point must be in a position easily and safely reached from a safe access point.
- ConcreteLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

- ⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.



LOCATING THE STEEL IN THE CONCRETE

To comply with Australian Standards. Use *Digital metal detector: BOSCH DMO 10*. to locate the steel in the concrete when positioning the ConcreteLink Anchor. This ensures steel is avoided when drilling.

DRILLING THE HOLE

Drill a 28mm hole to a depth of 90mm.

PREPARING THE HOLE

The hole must be moisture and dust free. Remove dust using compressed air, small brush and vacuum cleaner.

INSTALLING THE CONCRETE INSERT

Recommended chemical anchor: Hilti RE500, Hilti HY200 or equivalent as per Product Supplement Data sheets. Read instructions on product carefully. The whole surface of the ConcreteLink unit in contact with the concrete must use sufficient adhesive gel as specified on the product.

FITTING THE COLLARED EYEBOLT

1. Screw the collared eyebolt into the ConcreteLink (coat threads with Loctite).
2. Ensure the collared eyebolt is positioned in-line with the fall of the roof.

Use *Loctite* on the eyebolt thread to ensure that the unit cannot be tampered with (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions**).

Testing for Free fall-arrest for one person. 15kN ultimate strength.

To comply with current Standards each ConcreteLink unit must be tested after installation. Allow sufficient time at least 48 hours for curing before testing. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

CONCRETE MOUNTED ANCHOR - CONCRETELINK (ONE PIECE EYEBOLT)

Product Code: CONCL005

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF CONCRETELINK EYEBOLT ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2).
- The first ConcreteLink Anchor Point must be in a position easily and safely reached from a safe access point.
- ConcreteLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

- ⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.



LOCATING THE STEEL IN THE CONCRETE

To comply with Australian Standards. Use *Digital metal detector: BOSCH DMO 10*. to locate the steel in the concrete when positioning the ConcreteLink Anchor. This ensures steel is avoided when drilling.

DRILLING THE HOLE

Drill a 18mm hole to a depth of 90mm.

PREPARING THE HOLE

The hole must be moisture and dust free. Remove dust using compressed air, small brush and vacuum cleaner.

INSTALLING

Recommended chemical anchor: *Hilti RE500, Hilti HY200 or equivalent as per Product Supplement Data sheets*. Read instructions on product carefully. Use sufficient adhesive gel as specified on the product instructions.

FITTING THE CONCRETELINK ONE PIECE UNIT

Ensure the collared eyebolt is positioned in-line with the fall of the roof.

Testing for Free fall-arrest for one person. 15kN ultimate strength.

To comply with current Standards each ConcreteLink unit must be tested after installation. Allow sufficient time at least 48 hours for curing before testing. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF WINDOWLINK ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2).
- The first ConcreteLink Anchor Point must be in a position easily and safely reached from a safe access point.
- ConcreteLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

- ⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.

LOCATING THE STEEL IN THE CONCRETE

To comply with Australian Standards. Use *Digital metal detector: BOSCH DMO 10.* to locate the steel in the concrete when positioning the Concrete Anchor. This ensures steel is avoided when drilling.

DRILLING THE HOLE

1. Two holes must be drilled, drill first hole using a 55mm hole saw drill to a depth of 20mm.
2. Then drill second hole with a 28mm width and a depth of 122mm.

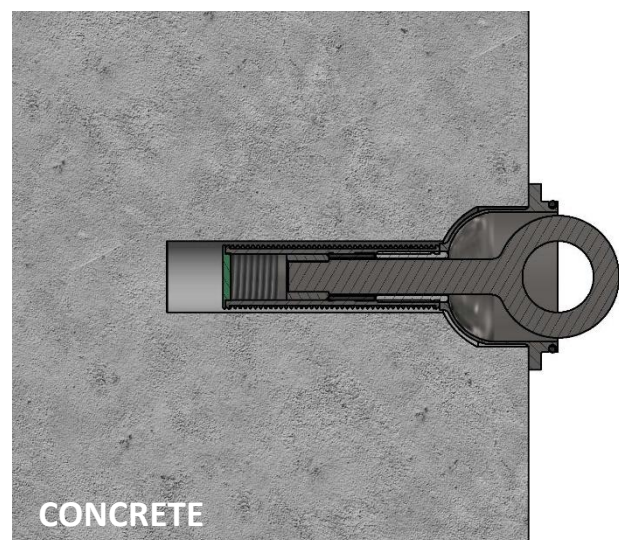
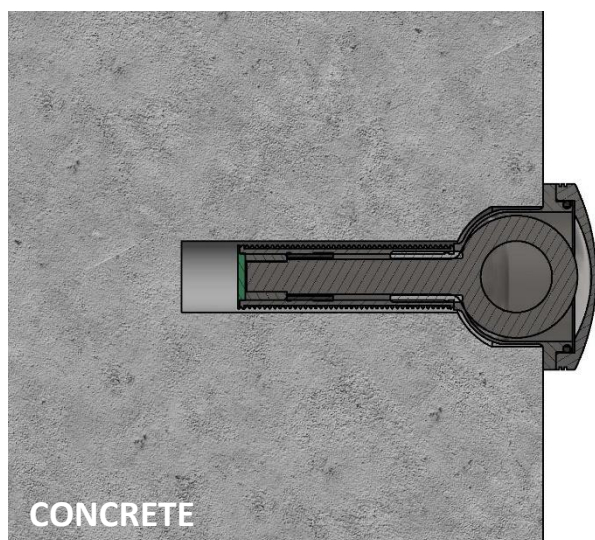
PREPARING THE HOLE

1. Using a small chisel remove the excess concrete to fit the shape of the WindowLink.
2. The hole must be moisture and dust free. Remove dust using compressed air, small brush and vacuum cleaner.

INSTALLING CHEMICAL ANCHOR

Recommended chemical anchor: Hilti RE500, Hilti HY200 or equivalent as per Product Supplement Data sheets.

Read instructions on product carefully. The whole surface of the WindowLink unit in contact with the concrete must use sufficient adhesive gel as specified on the product.



Testing for Free fall-arrest for one person. 15kN ultimate strength.

To comply with current Standards each Concrete Anchor unit must be tested after installation. Allow sufficient time at least 48 hours for curing before testing. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding 20 degrees to the surface in which the bolt is installed.

CONCRETE MOUNTED ANCHOR - SWIVELINK

With Nut - Product Code: SWIVL001
Without Nut - Product Code: SWIVL002

SWIVELINK COMES AS A SINGLE READY TO INSTALL UNIT

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF SWIVELINK ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2).
- The first ConcreteLink Anchor Point must be in a position easily and safely reached from a safe access point.
- ConcreteLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

- ⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.

LOCATING THE STEEL IN THE CONCRETE

To comply with Australian Standards.

Digital metal detector: BOSCH DMO 10. Use the detector to locate the steel in the concrete when positioning the Swivelink. This ensures steel is avoided when drilling.

DRILLING THE HOLE

Drill a 28mm hole to a depth of 90mm.

PREPARING THE HOLE

The hole must be moisture and dust free.
Remove the dust using compressed air.

INSTALLING CHEMICAL ANCHOR

Recommended chemical anchor: Hilti RE500, Hilti HY200 or equivalent as per Product Supplement Data sheets.

Read instructions on product carefully. The whole surface of the Swivelink unit in contact with the concrete must use sufficient adhesive gel as specified on the product.

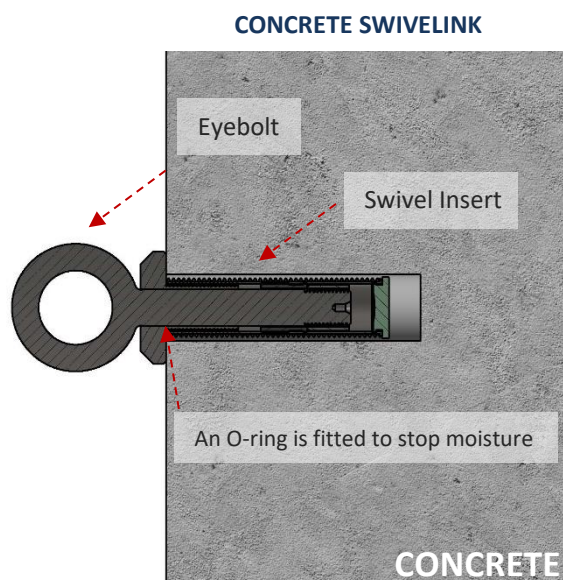
Testing for Free fall-arrest for one person: 15kN ultimate strength

To comply with current Standards each Swivelink unit must be tested after installation. Allow sufficient time at least 48 hours for curing before testing. Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

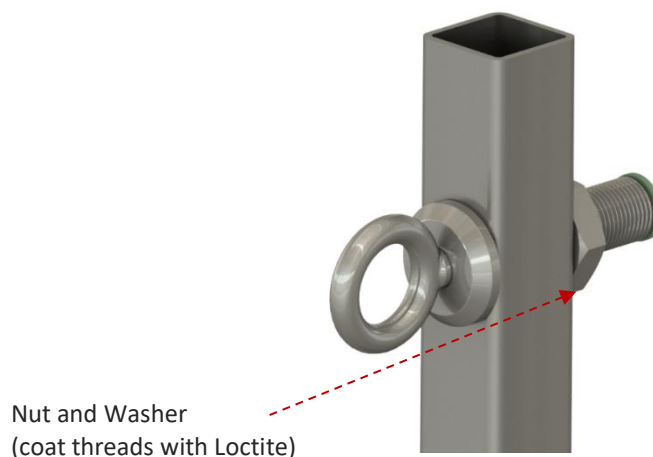
Note: Drilled-in anchorages such as friction and glued-in anchorages shall be placed so that the shear load is at least twice the tension load. For collared eyebolts this translates to a pull at an angle not exceeding twenty 20 degrees to the surface in which the bolt is installed.

STEEL MOUNTED SWIVELINK

1. Locate the centre of the purlin and drill a 28mm hole.
2. Coat Swivelink thread and nut with Loctite.
3. Tighten Nut.



STEEL MOUNTED SWIVELINK



CONCRETE MOUNTED ANCHOR - SPACERLINK

Product Code: SPACE001

All safety procedures must comply in accordance with the current safety code(s) of practice(s) for working at heights. Ensure safety at all times during and after installation by using an appropriate height safety system.

POSITIONING OF SPACERLINK ANCHOR POINT

- The pendulum effect applies (refer to Appendix Diagram 2)
- The first SpacerLink Anchor Point must be in a position easily and safely reached from a safe access point.
- SpacerLink should not be positioned close to an edge, minimum distance 150mm.
- Minimum concrete thickness 150mm.

PREPARATION TIPS

Determine the distance that the anchor will be threaded through. Cut the threaded rod if necessary.
Hammer Drill – stop hammering action on last section of concrete to prevent blowing out section.

DRILLING THE HOLE

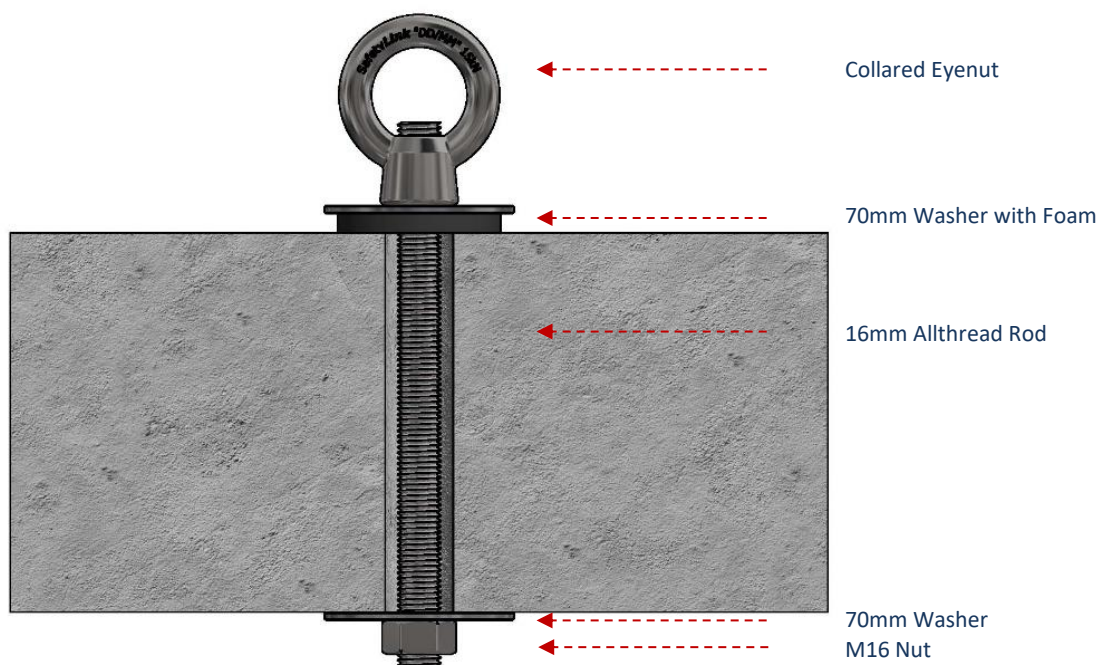
Drill a pilot hole through the concrete.

Then drill a 25mm hole from either side of the wall, avoid damaging the wall.

FITTING THE EYEBOLT

1. When screwing the M16 Eyenut onto the Allthread Rod make sure it is fully screwed up exposing end of thread.
2. Use *Loctite* on the Eyenut and Allthread Rod to ensure that the unit cannot be tampered with (**IMPORTANT NOTE: Before applying Loctite 243 use Loctite 7471 primer to activate the surface according to manufacturer's instructions**).
3. Assemble the 70mm washer with foam onto the rod then push the unit through the wall and fit the 70mm washer and M16 nut.
4. Ensure the Eyenut is positioned in-line with the fall of the roof.

Threads need to have a minimum of **six full 360° turns** into the ultimate thread.

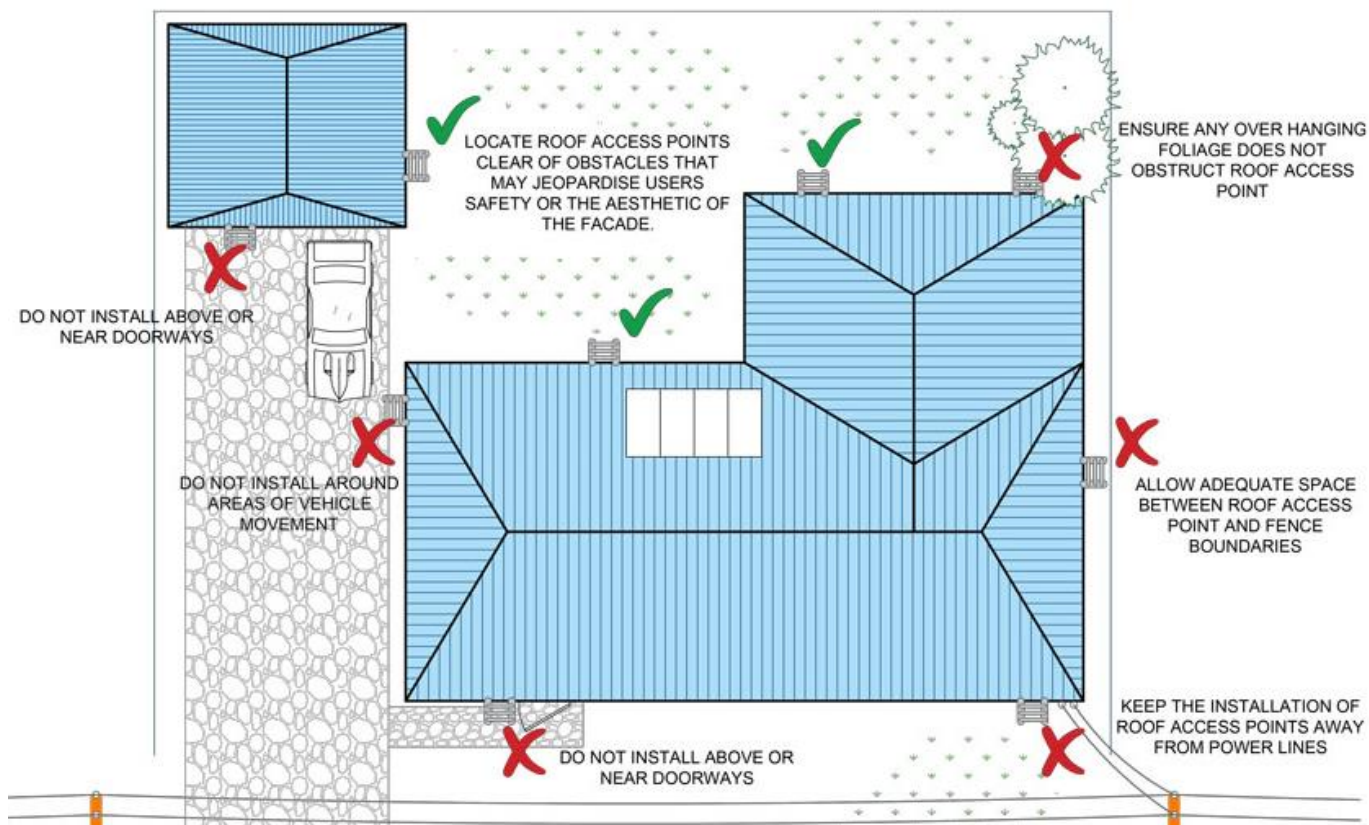


- ⚠ If any doubt exists with the strength of the structure an engineer should make the assessment.
- ⚠ Installation must be carried out by, or under the supervision of a competent height safety installer.
- ⚠ During installation you must be safe at all times.

APPENDIX – Diagram 2 – Anchor Positioning Layout

THIS IS A GUIDE ONLY

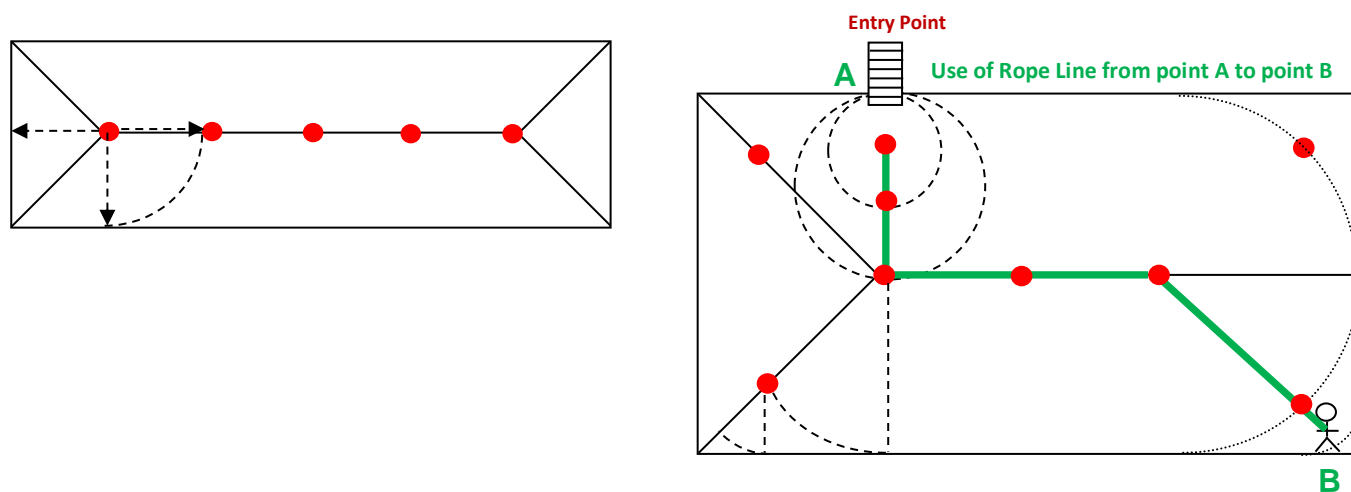
All working at heights safety procedures must be complied with when installing SafetyLink anchor points. For more information refer to your state or territories current legislation, regulations, policies and codes of practices.



- ⚠ IF ANY DOUBT EXISTS WITH THE STRENGTH OF THE STRUCTURE OR ROOF SHEETS AN ENGINEER SHOULD MAKE THE ASSESSMENT.**
- ⚠ DURING INSTALLATION YOU MUST BE SAFE AT ALL TIMES.**
- ⚠ INSTALLATION MUST BE CARRIED OUT BY, OR UNDER THE SUPERVISION OF A COMPETENT HEIGHT SAFETY INSTALLER.**

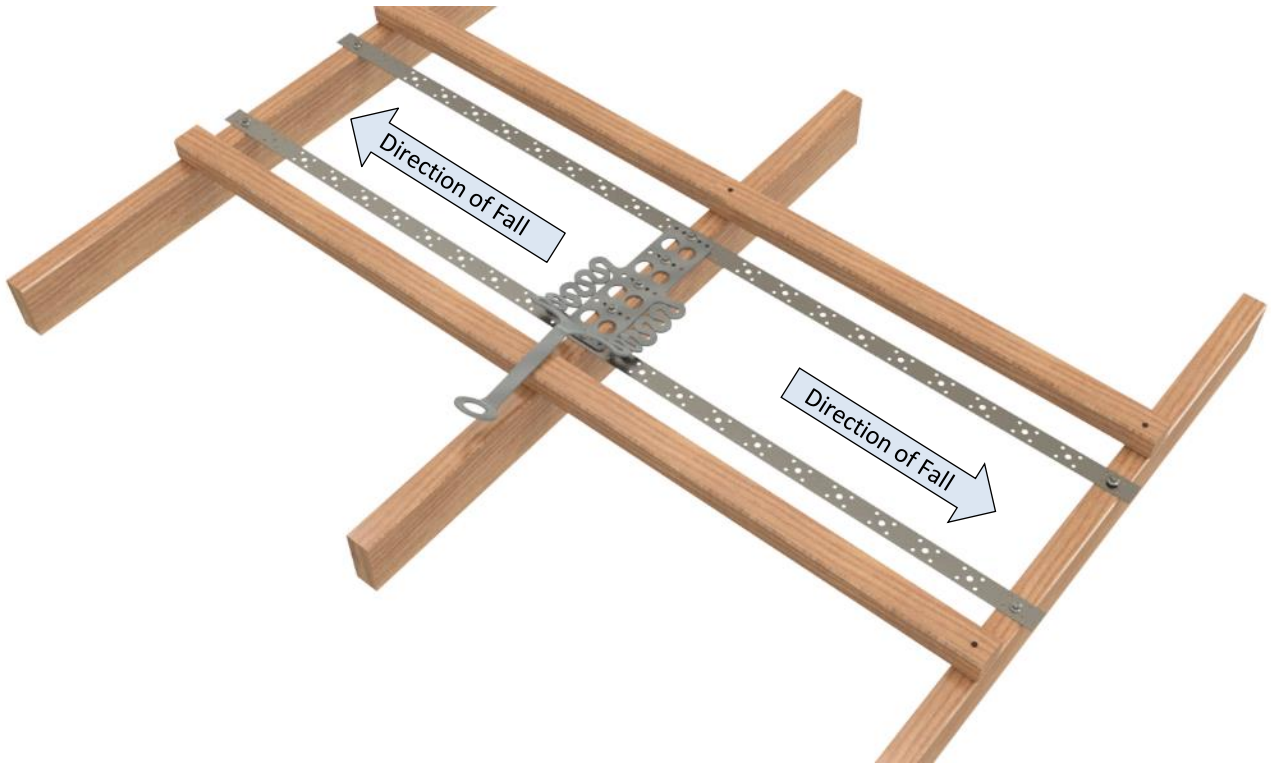
ACCESS, LAYOUT AND USE OF A SAFETYLINK ANCHOR SYSTEM

SafetyLink anchor points are positioned by calculating the pendulum effect, this limits the likelihood of a fall past the edge of the roof space. The pendulum effect still applies to a flat roof.



SPACING MUST BE NO GREATER THAN THE RAFTER LENGTH, PLEASE CONTACT YOUR DISTRIBUTOR IF YOU ARE UNSURE. SAFETYLINK HEIGHT SAFETY SYSTEMS MUST ONLY BE INSTALLED AS PER OUR INSTALLATION GUIDES, TO STRUCTURES AS SPECIFIED IN THE INSTALLATION MANUAL FOR EACH PRODUCT. SHOULD ANY DOUBT EXIST IN REGARD TO THE STRUCTURES INTEGRITY AN ENGINEER SHOULD BE CONSULTED.

Example of metal bracing being used to brace if a sideways fall is likely in both directions.



Bracing may be required for sideways loads due to rafter size, location of rafter (high in the hip) and existing additional structural bracing (existing batten locations, noggins, metal bracing, plywood decking). Assessment will always need to be made by a competent person for each anchor installation at time of install.

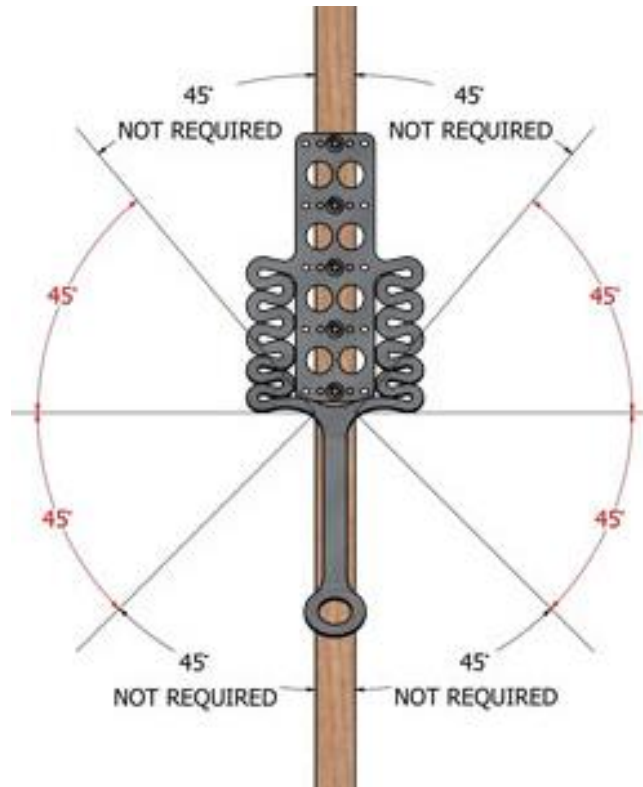
Example of metal bracing being used to brace if a sideways fall is likely in a single direction.



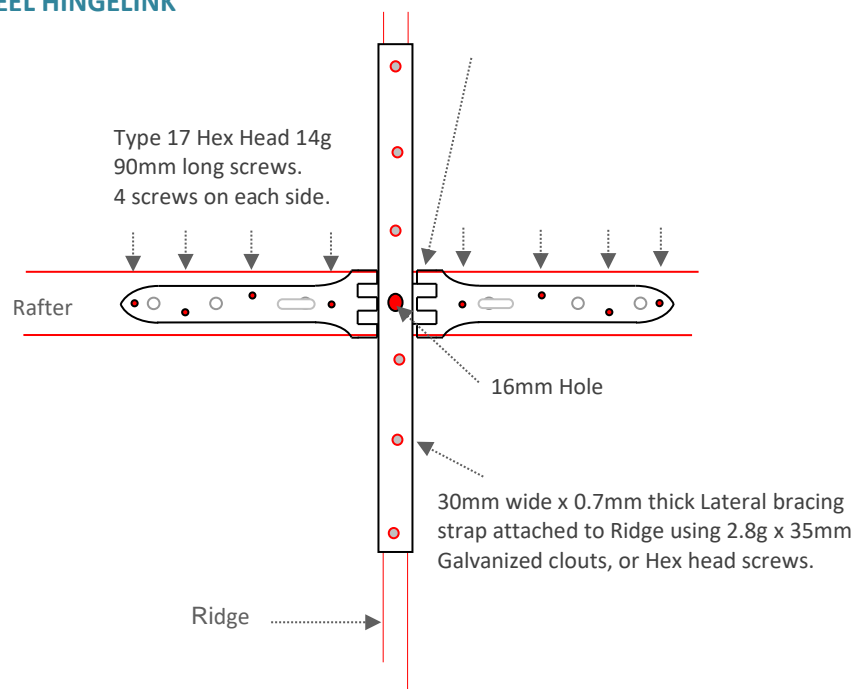
For TileLinks installed on structure under 45mm x 90mm MGP10 pine or equivalent, which can be loaded sideways suitable bracing must be installed to support the structure if not assessed as adequate.

APPENDIX – Diagram 3 – Lateral Bracing Straps

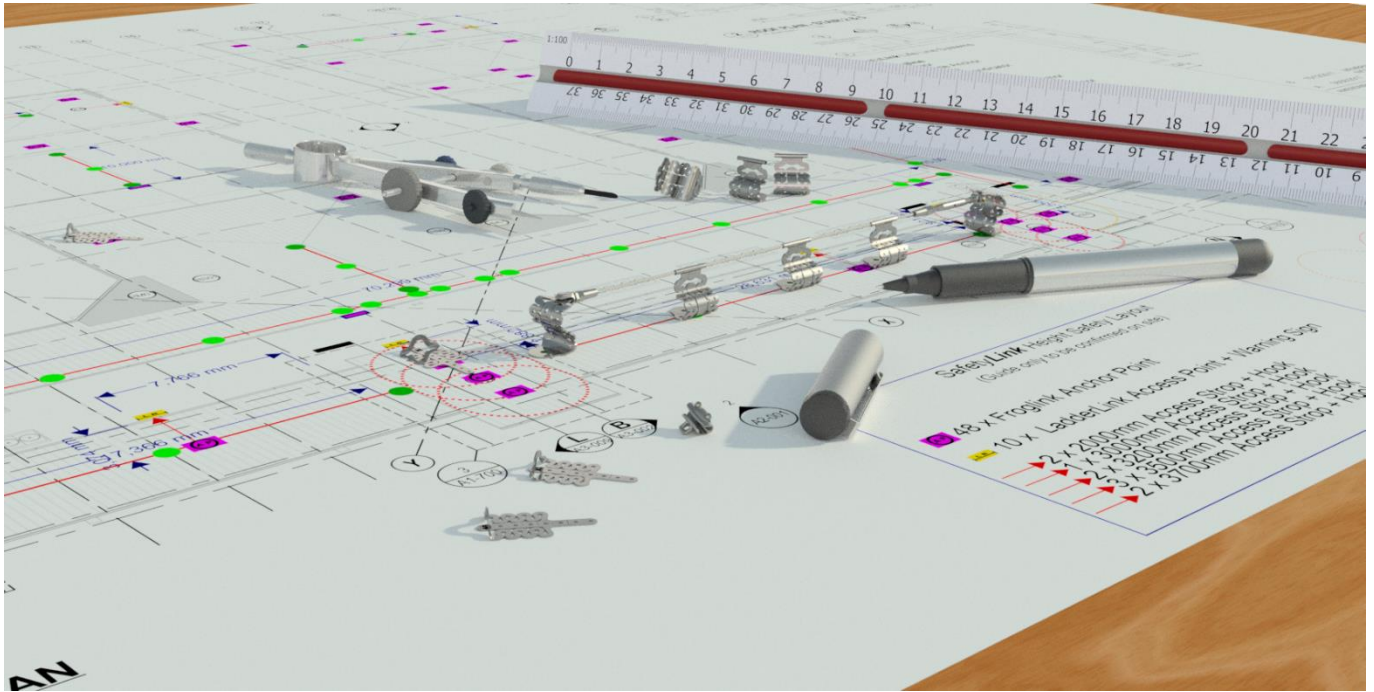
For TileLinks installed on structure under 45mm x 90mm MGP10 pine or equivalent, which can be loaded sideways suitable bracing must be installed to support the structure if not assessed as adequate.



STAINLESS STEEL HINGELINK



EXPERT FALL PROTECTION PLANNING



SafetyLink's design and planning team are here to help work out the positioning of your fall protection system, ensuring all areas of your roof are accessed safely.

Things to consider when planning your roof layout:

- Are all areas of your roof protected, allowing complete access when working at heights?
- Are you protected from the ground up, allowing complete access to your roof?
- Detailed comprehensive documentation provided e.g. installation guides, testing results, product sheets should be provided.
- SafetyLink can also provide you with a qualified and reputable installer of SafetyLink products.

Contact our design team at info@safetylink.com and we can plan your fall arrest system for you.

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Patents: SafetyLink Pty Ltd has a multitude of patents, patents pending, design applications, trademarks and copyrighted documents both lodged and issued. Should you wish to know the progress of our intellectual property on a specific product please email us on ip@safetylink.com and quote the product code.

IN CASE OF ACCIDENT

- ⚠ A FALL RESCUE PLAN AND SAFE WORK STATEMENT MUST BE DEVELOPED PRIOR TO USING SAFETYLINK SYSTEMS AND EQUIPMENT.**
- ⚠ PERSONS WORKING AT HEIGHTS SHOULD NOT WORK ALONE.**

It is critical that before using any SafetyLink Systems a fall rescue plan is in place for any person's suspended mid-air following a fall. Serious injury or death can occur in a matter of minutes, particularly if a person's movement or breathing is restricted or loss of consciousness has occurred. In accordance with your fall rescue plan and appropriate first aid procedures it is essential to remove the person from the suspended position as quickly as possible.

In accordance with AS/NZS 1891.4:2009 clause 9.5

EQUIPMENT WHICH HAS ARRESTED A FALL OR SHOWS A DEFECT

Any piece of equipment including both personal and permanently installed items, which has been used to arrest a fall or which shows any defect during operator or periodic inspection shall be withdrawn from service immediately and a replacement obtained if necessary. A label indicating the condition or defect should be attached to the equipment, and it should be examined by a competent height safety installer who will decide whether the equipment is to be destroyed or repaired if necessary and returned to service. In the latter case, details of any repair shall be documented, and a copy given to the operator.



SafetyLink®
*Innovative
Fall Protection*



FS 707792

DISTRIBUTOR:



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