



ALLFIT 360° surface mount anchor installation instructions



Things to know:

Allfit 360° anchor base plates come in 2 thicknesses: 2mm and 3mm

The **2mm** base plate anchors are designed to support a **FALL ARREST** load of 15 kN when a personal shock absorber compliant with AS/NZS 1891.4:2001 is used. Do not use for abseiling! Suitable for roof pitch max 40° degrees.

The **3mm** base plates are designed for **ABSEILING** as well as to support a **FALL ARREST** load of 15 kN when a personal shock absorber compliant with AS/NZS 1891.4:2001 is used.

Allfit 360° fall arrest anchor points can be used on most types of structurally sound roofs with either timber or steel underlying structure.

Tools needed:

Cordless drill, 8mm drill bit, hex bit driver, rivet gun, brush and dust pan or vacuum

Structure requirements:

Timber structure: Minimum size rafter/batten – 70mm x 35mm

Steel structure: Minimum purlin gauge – 150mm x 1.2mm, LYSAGHT TOPSPAN TOPHAT 550MPa minimum yield strength

Roof sheet: Minimum sheet gauge – 0.42mm

Minimum roof size: For **ROPE ACCESS** there must be minimum of **3 PURLINS** supporting the roof sheet and for **FALL ARREST** there must be minimum of **5 PURLINS** supporting the roof sheet!

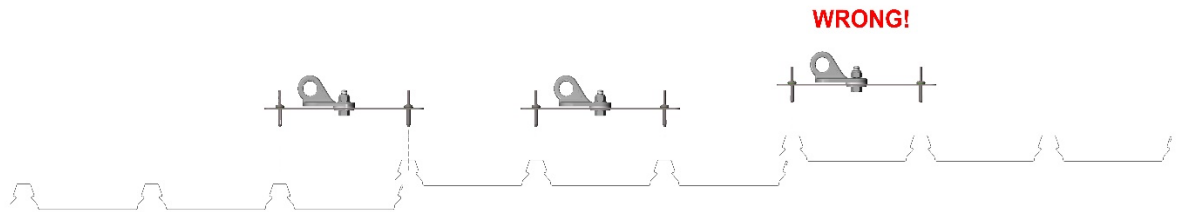
First purlin or batten: Never install Allfit 360° into the first purlin or batten on the roof's edge unless it's only for rope re-direction and is clearly labelled for this purpose!

Klip lok roof installation: Some Klip Lok designs can be surprisingly easy to unclip. The roof sheet must therefore be secured to the first purlin /batten directly above the installed anchor. The screws should be installed through the ridges of the sheet to avoid waterproofing issues. You might need to pre-drill the holes as the fixing clips can be hard to penetrate.

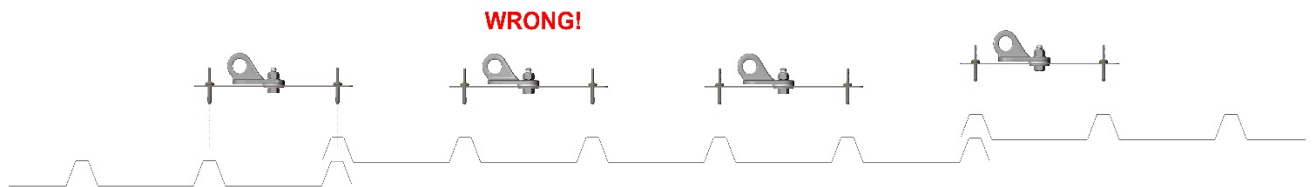
Sheet overlap and underlap:

To ensure maximum strength observe the sheet underlap and overlap. This is especially important with 'Klip-lok' type roofs.

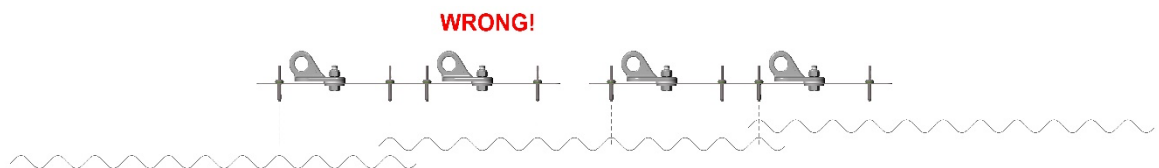
The diagram below shows klip-lok roof where there is no full lap in the 3rd picture. This situation is dangerous!



The diagram below shows 'screwed down' type of roof deck. The 2nd picture shows a situation which can be dangerous if there is no screw securing the sheet on the overlap!

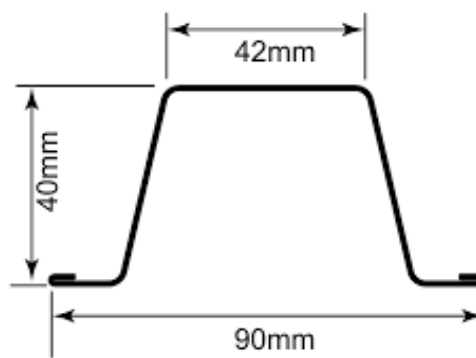


The diagram below shows the corrugated 'screwed down' type of roof deck. The 2nd picture shows a situation which can be dangerous if there is no screw securing the sheet on the overlap!

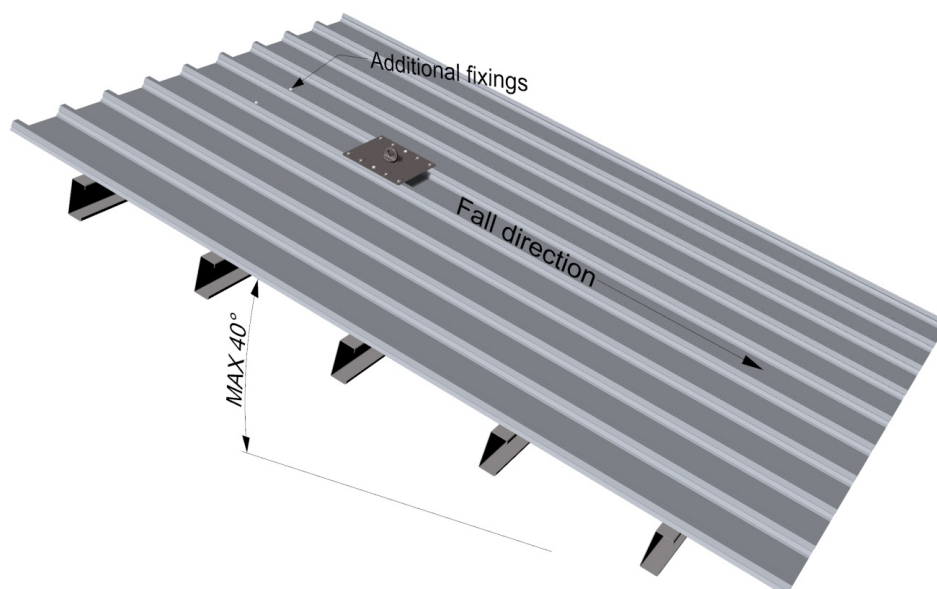


Installation steps:

1. Identify the underlying structure. Is it timber or metal? Set aside the right screws.
2. Locate purlin (or batten) and place the anchor point down onto the roof sheet. Remove 1 or 2 roof screws if necessary and determine which row of fixing holes will fit the best for the roof sheet.
3. Install 2x 14G screws through the central fixing holes through the roof sheet into the purlin/ batten. Be sure you use the correct fixing screws for the steel or timber structure. Do not over tighten. The anchor must be always screwed to the purlin/batten!
4. Drill 8 holes into the roof sheet through the pre-drilled holes of the anchor point using 8mm drill bit.
5. Install eight aluminium Bulbtite rivets provided using rivet gun. Ensure correct rivet penetration!
6. If you are installing into a KlipLok roof, the roof sheet must be fixed with minimum 2 extra screws to the purlin/ batten directly above or under the anchor point depending on force direction as per the drawing below.
7. If you are installing onto a roof sheet with **LYSAGHT TOPSPAN TOPHAT 550MPa** (or equivalent) roof structure below, the anchor plate must be fixed by 2x 14G **timber screws** through the central fixing holes through the roof sheet into the TOPHAT.



8. Remove any steel shavings to prevent roof corrosion and install a weatherproof certification tag.
9. The Allfit 360° is now ready to be used.



Annual re-certification

All anchor points must be inspected and certified before their initial use and subsequently on regular basis to satisfy the requirements set out in AS/NZS 1891.4:2009 and AS/NZS 4488.2:1997 and ISO 22846 (2003).

Note:

The roof structure must be assessed by a structural engineer unless it is clear to a suitably qualified person that it is capable of withstanding the forces imposed on it during arresting of a fall and during work positioning.

DISCLAIMER

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