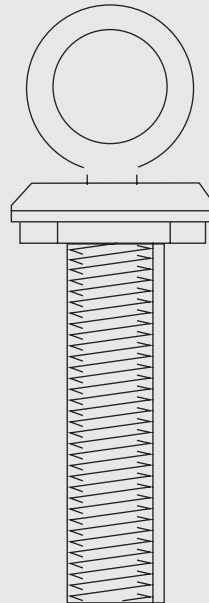


SAFEMASTER Installation Guide for

CONCRETE ANCHORS



Read Entire Handbook before installing any Safemaster Product. All Products must be installed in accordance with Safemaster's Installation Handbook, using only products supplied by Safemaster. Failure to follow all warnings and instructions may result in a serious injury or death.



Safemaster
SAFETY PRODUCTS®



I. INSTALLATION PROCEDURES



READ CAREFULLY SOMEONE'S LIFE DEPENDS ON IT.

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

Installation must be carried out by, or under the supervision of, a competent person.

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

To prevent galling use a spray can of nickel anti-seize.

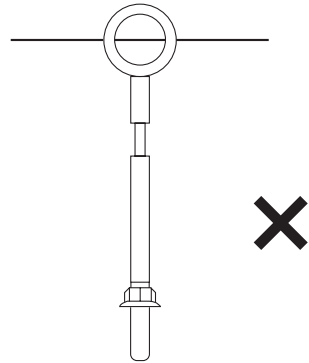
Recommended waterproofing for roof tiles: Sika Flex Co-Polymer Sealant

Recommended waterproofing for metal roof: Silicone Sealant

Recommended fastening adhesive: Loctite

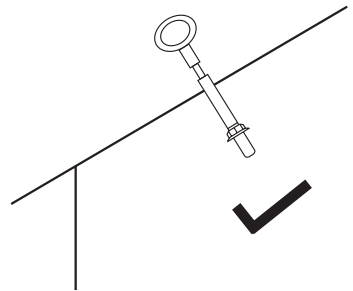
PERIODIC INSPECTIONS

All items of 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 person. (Refer to AS/NZS 1891.4:2000 section 9 if clarification required or contact us). All warranties will become void after the first year if annual inspections are not carried out by a competent person.



WRONG

Do not place an object into the eye to tighten or untighten the locknut, as this may damage the eyebolt. Always use a spanner when tightening and un-tightening the nut.



RIGHT

It is recommended where practical to orientate the eyebolt in the direction most likely to arrest at fall.



II. CONSTRUCTION INSTALLATIONS

INSTALLATION OF A CONCRETE ANCHOR POINT

When installing anchor points all safety procedures must be complied with in accordance with the current Australian Standards and safety code/s of practice/s for working at heights.



During installation you must be safe at all times.

The first Concrete Anchor must be in a position easily reached by secured ladder or manhole access point.

Positioning of Concrete Anchor

To comply with Australian Standards.

Locating the steel in concrete

Digital metal detector: **BOSCH DMO 10**

Use the detector to locate the steel in the concrete when positioning the Concrete Anchor. This ensures steel is avoided when drilling.

Locating the steel in the concrete

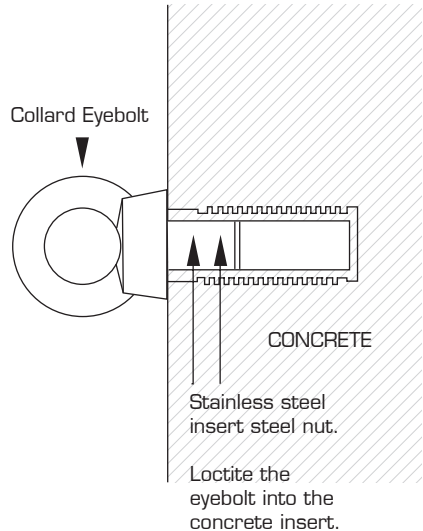
Minimum distance between edge and Concrete Anchor is 150mm when installing into 25 MPA concrete. In any doubts exists as to the strength of the structure an engineer should make the assessment.

Drilling the hole

Drill a 28mm hole to a depth of 100mm.

Preparing the hole

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



Installing the concrete insert

Recommended chemical anchor is HILTI HIT150.

Read instructions on product carefully.

The whole surface of the concrete insert until in contact with the concrete insert. Ensure the eyebolt is facing the right direction. Use lock tight on the eyebolt to ensure that the unit cannot be tampered with.

Fitting the Safemaster stainless steel eyebolt

When screwing the cone nut onto the stainless steel eyebolt make sure it is fully screwed up exposing 30mm of thread. Then screw the eyebolt into the concrete insert. Ensure the eyebolt is facing the right direction. Use lock tight on the eyebolt to ensure that the unit cannot be tampered with.

Note: Use the same procedure to install a Safemaster abseiling eyebolt or a Safemaster intermediate post.

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

To comply with Australian Standards each concrete Anchor unit must be tested after installation. Allow sufficient time for curing before testing.

Test consists of ultimate pull out force proof loading to 50% of design purpose of anchorage.

REMOVE eyebolt to perform test.

Safemaster cannot be held responsible for any product that is not installed correctly. Person installing Safemaster Products must be approved 'Safemaster Products' installers. All persons installing Safemaster Products must know the 'Working At Heights' Regulations, have had Height Safety Training & be competent in all the relevant Australian Standards applicable to the work you are doing. Any installation diagrams are Safemaster recommended methods and must be adhered to. Safemaster cannot be held responsible for incorrect installation documentation or procedures. Safemaster will endeavour to help and give guidance where necessary but cannot be held responsible for any 'mis-interpretations' or 'incorrect' advice. Safemaster cannot warrant the structure to which the product is connected to. Assessment must be made by a qualified structural Engineer, unless it is clear to a competent person that it is structurally adequate. ESQOE applied to all Safemaster Documentation.

If you are uncertain and need help, please email: info@safemaster.net.au or Phone: **(08) 6218 5158** or visit our website: www.safemaster.net.au