

AA405 EXTENDED EYE BOLT

INSTALLATION INSTRUCTIONS



Things To Know:

AA405 is designed for installation in concrete and steel in applications where a higher profile anchorage point is desirable (eg. Roof tops with pebbles or other topping). It is suitable as a rope access anchor or fall arrest anchor.

Anchor rating:

The AA405 extended eyebolt has been independently tested in accordance with AS/NZS 5532:2025 and verified as a 15 kN rated rope access/ fall arrest anchorage device.

Fixing Options:

- 1 x Chemical HILTI RE 500 or equivalent (HOLE 18 DIA)
- 1 x Chemical ICCONS Hybrid GEN2 (hole 18 DIA)
- 1 x Through bolt M16 (HOLE 18 DIA)

Concrete specifications:

Min. concrete strength: 25 Mpa

Min slab thickness: 150 mm

Min. distance to the edge: 200mm

Min. distance to another anchor: 200 mm

Loading:

The anchor is designed to accommodate multi-directional loading typical of fall arrest and rope access systems.

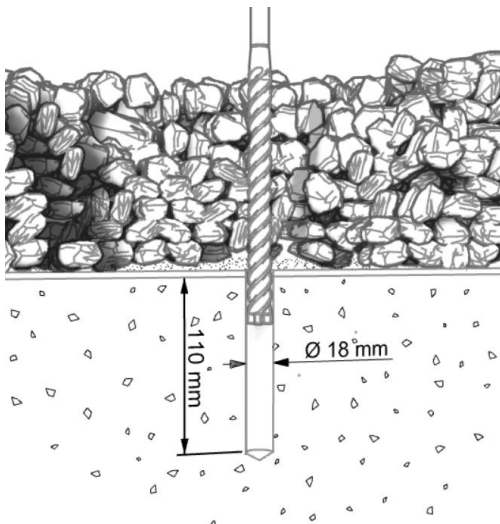
Tools Needed For Installation:

Rebar detector, Rotary hammer drill, masonry drill bit 18, air pump, cleaning brush, chemical gun.

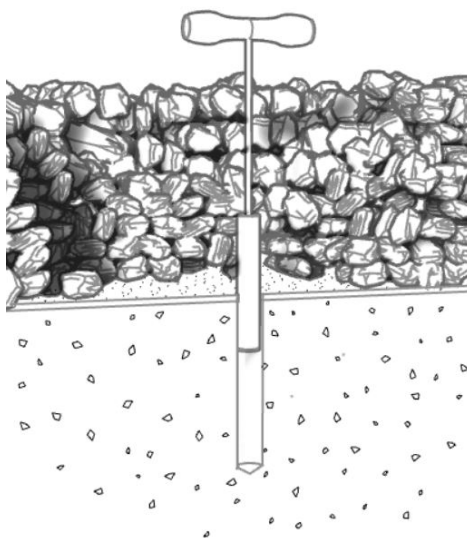
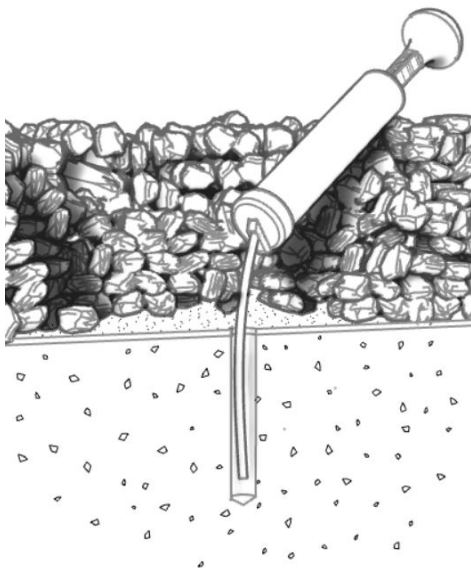
Installation Steps – chemset in concrete (Hilti RE-500, Hybrid GEN2 or equivalent):

1. Use Hilti Reo Scan or similar device to avoid drilling the steel reinforcement in concrete.
2. Mark the position for hole to be drilled.

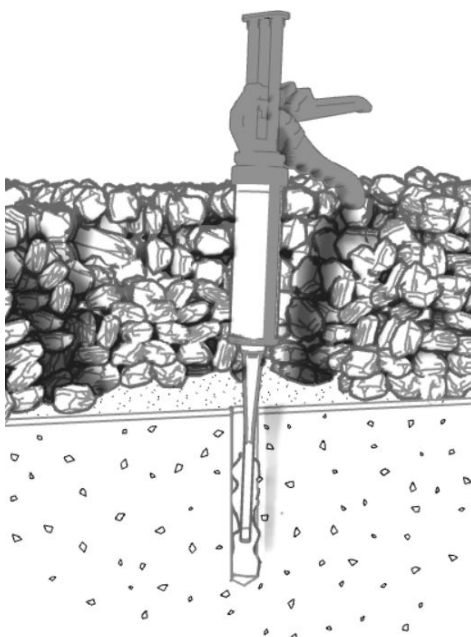
3. Drill one M18x110mm holes. Ensure the holes is 90° with the drilled surface



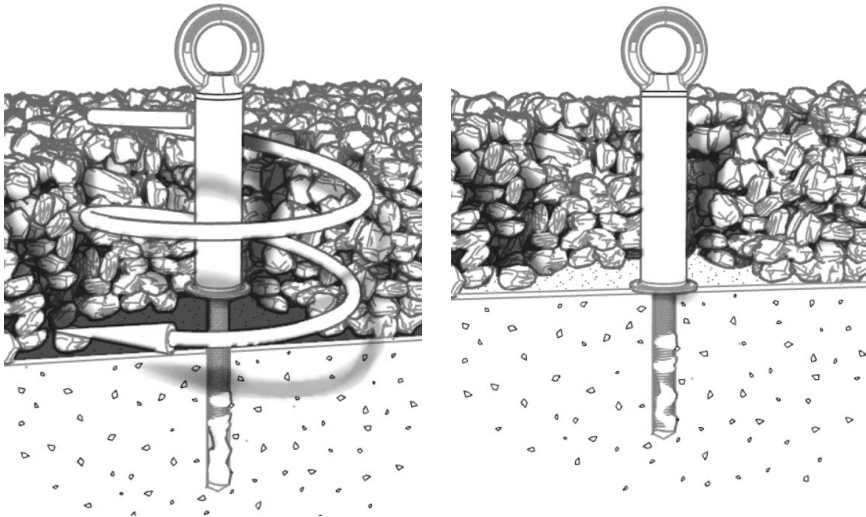
4. Clean the hole 3 times with compressed air and cleaning brush.



5. Squeeze the right amount of Hilti RE500 or Hybrid GEN2 chemical in the hole.



6. Slowly screw the rod into the hole and keep turning until it is fully embedded and the circular plate is seated



7. Wipe off the excess chemical.
8. Allow sufficient drying time as per Hilti RE 500 or Hybrid GEN2 instructions.

Installation steps – M16 through bolt in concrete:

1. Use Hilti Reo Scan or similar device to avoid drilling the steel reinforcement in concrete.
2. Mark the position for hole to be drilled.
3. Drill one M18 hole. Ensure the hole is 90° with the drilled surface.
4. Insert the anchor into the hole. Add one backing plate (BP1 or BP2) and M16 washer.
5. Install one M16 lock nut and tighten to 40 Nm using a spanner. Ensure minimum of 3 threads are showing when the nut is fully tightened.

Proof load and certification:

All chemical and friction anchorages must be proof loaded before their initial use and subsequently on regular basis to satisfy the requirements set out in AS/NZS 1891.4:2025 and ISO 22846:2020

Proof load chemical anchors to 7.5 kN

Through bolts must be visually inspected – do not proof load!

Note:

The 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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