



## **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.

### **Fixing options:**

- 1 x Through bolt M16 (HOLE 18 DIA)
- 1 x Chemical HILTI RE 500 (HOLE 18 DIA)

**Loading:** 360°

### **Tools needed for installation:**

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

### **Installation steps – M12 HVU chemset 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 M18x125mm 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 chemical in the hole.
6. Slowly screw the rod into the hole and keep turning until it is fully embedded.
7. Allow sufficient drying time as per Hilti RE 500 instructions.

NOTE: When installing through water proofing membrane, Hilti RE 500 chemical takes care of the waterproofing job nicely. No need to add sealant. Excess chemical that is pushed out upon installation seals the hole.

### **Installation steps – M16 through bolt**

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 two spanners. 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 1891.4:2009 and AS/NZS 4488.2:1997

- Proof load 7.5 kN or 6kN depending on application

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**

All product specifications and technical descriptions, recommendations and other information provided in this document are given as general guidance and advice, and are to be considered in conjunction with Safety Roof Anchors installation instructions and any other data available and applicable to each particular standard product or system. Use of such data is however the user's sole responsibility taking into account the intended application and actual conditions existing on the specific worksite. Consequent selection of the right product for any particular use remains the user's ultimate responsibility.

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