AA401 EYE NUT

INSTALLATION INSTRUCTIONS

Things To Know:

AA401 is designed for installation in concrete and steel. It has been specifically developed for applications in rope access (abseiling) but it can be also used to support a fall arrest load of 15 kN provided a suitable personal shock absorber is used. It is recommended to use a permanent locking agent such as Loctite 277 or equivalent when installing on a threaded rod without welding.

Fixing Options:

- Through bolt M12 (HOLE 14 DIA)
- Chemical HILTI HVU M12 or equivalent (HOLE 14 DIA)

Loading:

Sheer, not exceeding 20° with the surface it is installed into if installed as a chemset in concrete.

Tools Needed For Installation:

Rotary hammer drill, masonry drill bit 14, air pump, cleaning brush

Installation Steps – M12 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 an M14 x 110mm hole. Ensure the hole is 90° with the drilled surface.
- 4. Clean the hole 3 times with compressed air and cleaning brush.
- 5. Insert one Hilti HVU M12 chemical pack in the hole.
- **6.** Using rotary hammer with appropriate setting tool, install a stainless steel M12 rod. Ensure the rod has the tip cut off on 45° angle or use Hilti rods suitable for the application.
- 7. Allow sufficient drying time as per Hilti HVU instructions.
- 8. Use a fastener locking agent such as Loctite 277 or equivalent to install AA401. Ensure minimum of 3 threads are showing.

NOTE: When installing through water proofing membrane, a full gasket of membrane compatible sealant is recommended between the eye nut and the membrane.

Installation Steps – M12 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 M14 through hole. Ensure the hole is 90° with the drilled surface.
- 4. Insert M12 stainless steel rod cut to size. Add one backing plate (BP2 or BP3) to each side of the rod.
- 5. Install one M12waher and one lock nut to the back side and AA401 anchor to the front side. Apply a fastener locking agent such as Loctite 277 or equivalent to the thread and tighten fully using a spanner and a bar. Ensure minimum of 3 threads are showing on each side.

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, AS/NZS 4488.2:1997 and ISO 22846 (2003).

- Proof load the eye to 7.5 kN for rope access and fall arrest applications
- 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 work positioning.

Disclaimer:

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