

AA404 PEDESTAL

INSTALLATION INSTRUCTIONS

Things To Know:

AA404 is designed for installation in concrete and steel in applications where a higher profile anchorage point is desirable (e.g. Roof tops with pebbles or other topping). It is suitable as a base for a rope access anchor or fall arrest anchor or as a static line carrier.

Fixing Options:

Use only approved M12 mechanical or chemical anchors meeting the required performance criteria.

- Minimum embedment 95 mm for wedge anchors
- Suitable for cracked and non-cracked concrete
- Minimum tensile resistance $\geq 18\text{kN}$
- Minimum embedment 110mm for chemical anchors

Examples Include:

- 3x Chemical HILTI HVU M12 or injectable equivalent such as HILTI RE-500 (HOLE 14 DIA)
- 3x SRA wedge anchor M12x125mm (HOLE 12 DIA)
- 3x Hilti HST3-R M12x125mm (HOLE 12 DIA)
- 3x HSL-3-GR M12 (HOLE 18 DIA) or 3x HSL-3-GR M10 (HOLE 15 DIA)
- 3x Through bolt M12 (HOLE 14 DIA)

Concrete Specifications:

Min. concrete strength: 25 Mpa

Min slab thickness: 150 mm

Min. distance to the edge: 200 mm

Min. distance to another anchor: 150mm

Loading:

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

Tools Needed For Installation:

Rebar detector, Rotary hammer drill, masonry drill bit 14 or 18, air pump, cleaning brush, spanner or torque wrench if using HSL-R

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 positions for holes to be drilled.
3. Drill three M14x110mm holes. When you start drilling the second and third hole, double check your holes line up with the holes in the pedestal base. Ensure the holes are parallel and 90° with the drilled surface
4. Clean the holes 3 times with compressed air and cleaning brush.
5. Insert one Hilti HVU M12 chemical pack in each hole.
6. Using rotary hammer with appropriate setting tool, install 3 stainless steel M12 rods through the holes in the base of the pedestal.
The rods must have their tips cut on 45° angle to allow for correct mixing of chemical.
7. Allow sufficient drying time as per Hilti HVU instructions.
8. Install three M12 washers and nylock nuts on the rods ensuring minimum of 3 threads are showing when nuts are fully tightened.

Note:

When installing through water proofing membrane, a full gasket of quality polyurethane sealant is recommended between the pedestal base plate and the membrane.

Note 2:

Install M16 chemset as per the above instructions with re-drilled pedestal holes to take M16 rods.

Installation Steps – M12 Hilti HSL-3B or HSL-R in concrete:

1. Use Hilti Reo Scan or similar device to avoid drilling the steel reinforcement in concrete.
2. Mark the positions for holes to be drilled.
3. Assemble the HSL's onto the pedestal base and check they line up with the marked holes
4. Drill three M18x125mm holes. When you start drilling the second and third hole, double check your holes line up with the holes in the pedestal base. Ensure the holes are parallel and 90° with the drilled surface
5. Clean the holes 3 times with compressed air and cleaning brush.
6. Offer the whole assembly to the drilled holes and tap both HSL's repeatedly with hammer until fully in.
7. Use a spanner to apply correct torque as per Hilti HSL-3B or HSL-R instructions.

Note:

When installing through water proofing membrane, a full gasket of quality polyurethane sealant is recommended between the anchor base plate 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 positions for holes to be drilled.
3. Drill three M14 holes. When you start drilling the second and third hole, double check your holes line up with the holes in the pedestal base. Ensure the holes are parallel and 90° with the drilled surface
4. Insert three M12 stainless steel rods cut to size. Add three backing plates (BP3); one to each rod on the back side and M12 washer to each rod on the front side.
5. Install six M12 lock nuts; one for each end of the rod and tighten to 40 Nm using two spanners. Ensure minimum of 3 threads are showing when nuts are fully tightened.

Note:

Install M16 through bolt as per the above instructions with re-drilled anchor body holes to take M16 rods.

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 2286:2020

- Proof load each rod individually to 7.5 kN
- Do not proof load the bracket

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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