DAVIT SYSTEM

The HRA Low Profile Davit System is suitable for single-user Rope Access work in accordance with equipment and procedures set out in AS/NZS ISO 22846 & AS/NZS 1891.

Technical specifications:

Drawing numbers:

LOW PROFILE DAVIT PLATE— 1D-101-A115-00

REMOVABLE DAVIT SPIGOT— 1D-101-A114-00

DAVIT UPRIGHT— 1D-101-A118-00

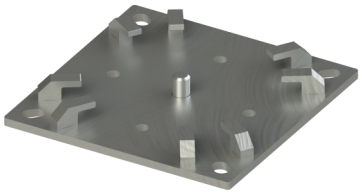
DAVIT ARM — 1D-102-A101-00

Davit Upright Height Options: 1300mm, 1500mm, 1700mm

Davit Arm Lengths: 1000mm, 1200mm, 1400mm, 1600mm

Davit components are galvanized steel to protect from corrosion. Pins utilized to secure the components during assembly are zinc plated.

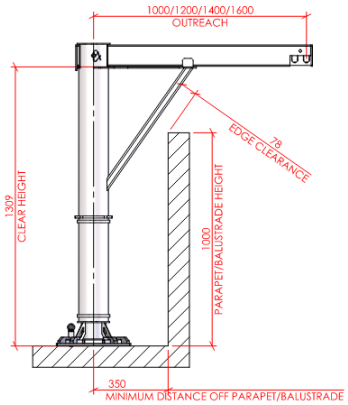
All Davit configurations are rated to 12kN Rope Access I.A.W AS/NZS 5532 .

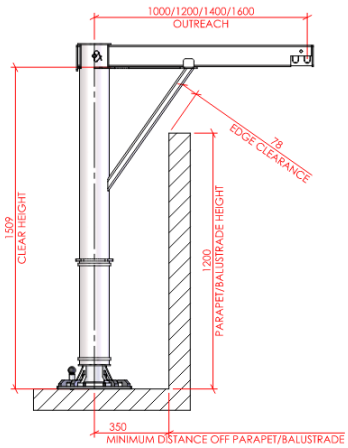


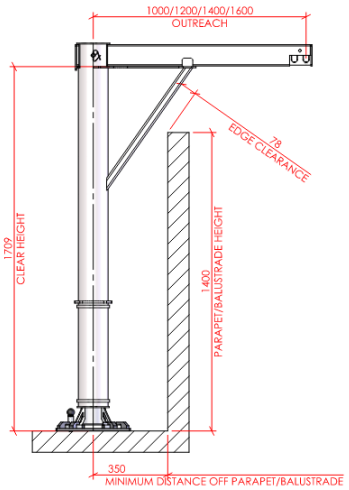
2/54 Lara Way Campbellfield
Victoria - 3061
Australia

T: 03 9357 0515
F: 03 9357 0502
E: info@hirise.com.au

Floor Mounted Configuration







Setout Requirements

Davit System set out and rigging plan to be determined by competent persons.

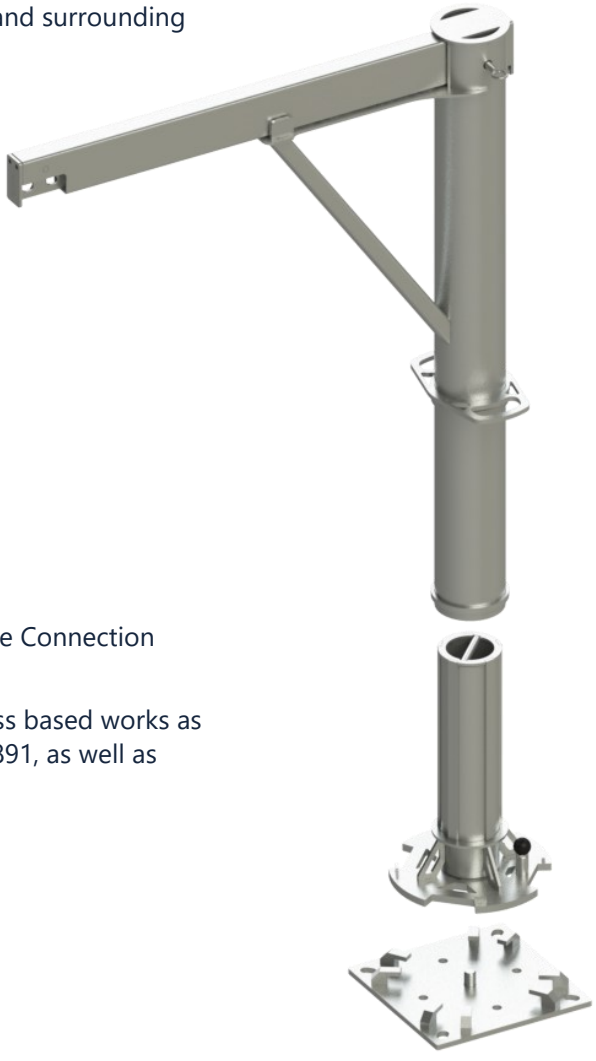
We recommend center-point of the Floor-Mounted Davit System be located a minimum of 350mm from the nearside of the parapet/balustrade. This is to ensure there is adequate clearance from the Davit Upright brace to the parapet/balustrade edge.

Utilizing a taller Davit Upright will allow the Davit System to be installed closer to the parapet/balustrade, as raising the brace will increase clearance.

It is advised that the clearances between the Davit System and surrounding structure be carefully inspected.

Ensure that ropes drop vertically from the Davit Arm attachment point to avoid any horizontal loading on the system.

Floor-Mounted Davit Systems are rated to be used in 360°.



System Assembly

General arrangement of components can be seen in the adjacent image.

See *Low Profile Davit Installation Guide* for detailed assembly instructions.

Operations

Rated carabiners can be attached directly to Davit Arm Rope Connection Points.

Once connected to the Davit, users may perform the harness based works as per procedures outlined in AS/NZS ISO 22846 & AS/NZS 1891, as well as industry best practice.

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Fixing Options:

- Cast-In Fixing Cage — 1D-101-A110-00
- Through-Bolted (Steel or Concrete) — Thru-Bolt Fixing Pack
- Epoxy Adhesive — Chemset Fixing Pack

Maintenance and Certification

Davit components are to be inspected and certified by a height safety equipment inspector every 12 months. All testing and inspection is to be documented as per AS/NZS 1891.

Inspection of Davit components should include but not be limited to:

- Axial load test of drilled in anchorages (where required)
- Inspection of welds for cracks and damage
- Inspection of surfaces for rust/corrosion
- Inspect hollow members for dents/deformation
- Ensure fixings are adequately tightened
- As per AS/NZS 1891; drilled in anchorages (such as glued in and friction) shall be proof loaded by application of an axial force equal to 50% of the anchor rating after installation and as part of subsequent inspection.
    - For all Davit Systems, 10kN pull-tests for 3 minutes are required for all fixings.
- At each permanently installed Davit component a permanently fixed plate identifying the following must be provided:
    - Name of Installer and Installation Date
    - Purpose of Access Device: Single-User Rope Access
    - Ultimate Strength: 12kN
    - Maximum Number of Users: 1