

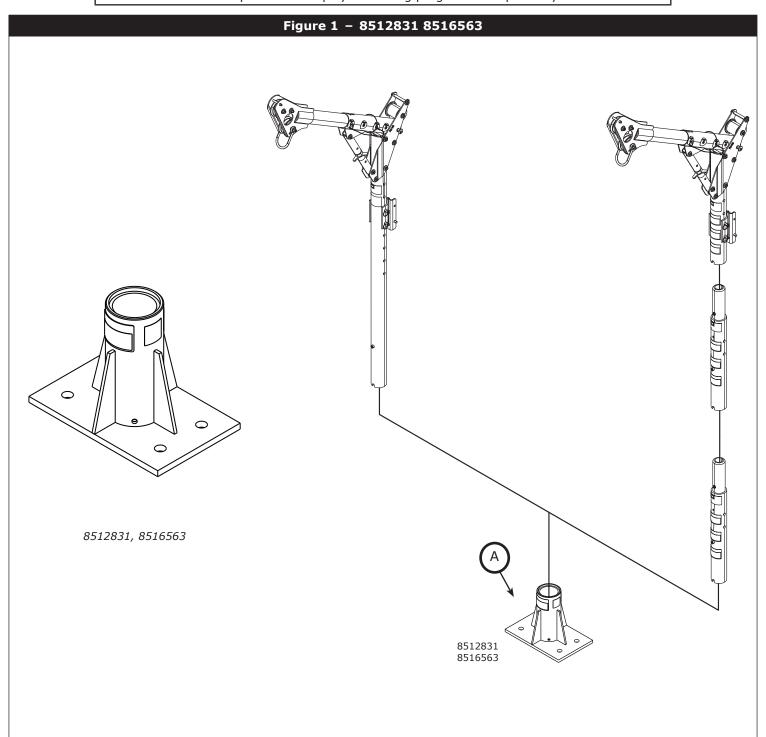
ADVANCED CENTER MOUNT FIXED CONCRETE SLEEVES

Model Numbers: 8512831, 8516563

INSTRUCTION MANUAL

ANSI Z359.1

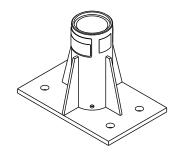
This manual is intended to meet the Manufacturer's Instructions as required by ANSI Z359.1 and should be used as part of an employee training program as required by OSHA



FORM NO: 5903852

REV: B

1. SPECIFICATIONS



DESCRIPTION:

The DBI-SALA Center Mount Concrete Sleeves are designed for mounting to horizontal concrete or steel structures.



THESE BASES ARE ONLY COMPATIBLE WITH DBI SALA ADVANCED DAVIT MASTS AND EXTENSIONS.

IMPORTANT: All connecting systems, (self retracting lifelines, winches and energy absorbing lanyards) used with the davit arm and base system shall limit the average arresting forces to 900 lbs (4 kN).

GENERAL SPECIFICATIONS - MODEL 8512831:

450 lbs (205 kg) Capacity (one user)

Working Load Limit: Minimum 4:1 Safety Factor

Vertical Load 5000 lbs (22.2 kN)

MATERIALS & CONSTRUCTION:

General Construction Welded Steel Material Mild Steel Finish (Steel) Zinc Plated

Plating Specification **ASTM** Designation

B633, Type II, Class 1

APPLICATION RESTRICTIONS:

For use with Capital Safety Systems products & accessories only.

Each installation must be approved to local standards by a qualified engineer.

If base material does not meet the minimum requirements, reinforcement must be added to meet the minimum requirements.

GENERAL SPECIFICATIONS - MODEL 8516563

Capacity (one user) 450 lbs (205 kg)

Working Load Limit: Minimum 4:1 Safety Factor

Vertical Load 5000 lbs (22.2 kN)

None

MATERIALS & CONSTRUCTION:

Plating Specification

General Construction Stainless Steel

304 SS Material Finish (Stainless Steel) Brush Blast

Each installation must be approved to local standards by a qualified engineer.

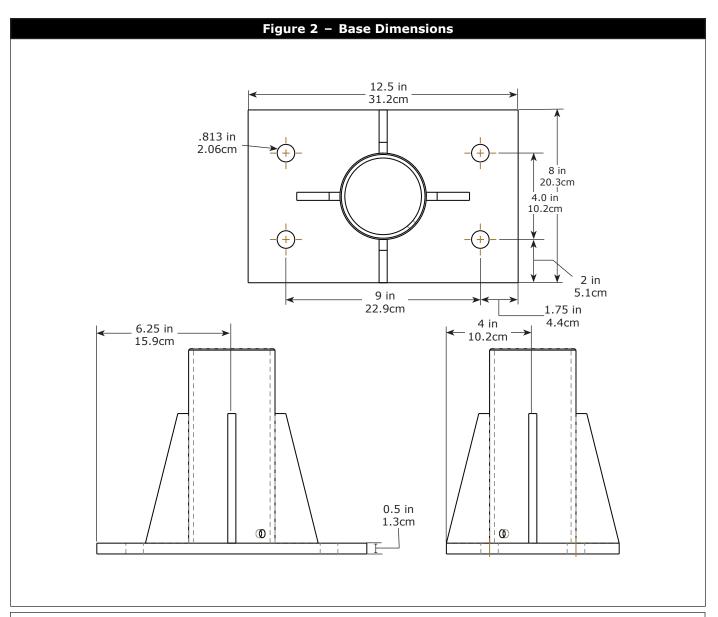
If base material does not meet the minimum requirements, reinforcement must be added to meet the minimum

APPLICATION RESTRICTIONS:

products & accessories only.

For use with Capital Safety Systems

requirements.



WARNING: The installers shall ensure the suitability of base materials into which structural anchor devices are fixed with every fixation.

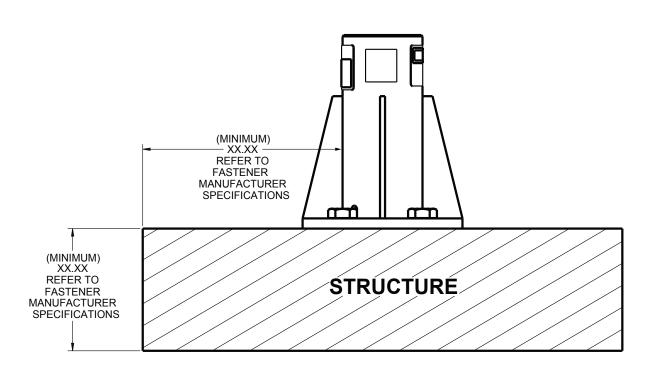
Where an anchor device is intended to be used exclusively for personal protective equipment, it should be clearly marked by pictogram, or other clearly seen and understood marking, on or near the anchor device, clearly stating that the devise is designed exclusively for use of personal protective equipment. Anchor devices are only to be used with ANSI marked fall arrest systems, which will generate forces not to exceed average arresting forces of 900 lbs (4kN) at the anchor device.

Due care should be taken to assess the suitability of all transportable temporary anchor devices and any associated fixings for the application in which it is to be used. The viability of any installation should be verifiable by a qualified engineer.

IMPORTANT: This base is not designed for welding application, and should be bolted in place. For bases designed to be welded in place, please contact Capital Safety.

2. MOUNTING REQUIREMENT MINIMUMS

Table 1 - Mounting Requirement Minimums				
	29 inches (73.6cm) Offset	44 inches (112cm) Offset		
Max Pullout Force Per Fastener	5,700 lb (25.4 kN)	6,750 lb (30.0 kN)		
Shear Force	N/A	N/A		
Max Moment Load on Structure	ent Load on Structure 76,000 lbs*in (8.6 kN *m) 90,000 lb*in (10.2 kN*m)			
Max Vertical Load on Structure	tructure 5,000 lbs (22.2 kN) 5,000 lbs (22.2 kN)			



* **NOTE:** Meets OSHA requirements for engineered anchor points.

NOTE: These numbers are based on a safety factor of 2:1. Refer to the fastener manufacturer specifications for fastener safety factors. Capital Safety recommends maintaining at least a safety factor of 2:1. Multiple safety factors must be taken into account when determining fasteners.

IMPORTANT: Base installation must be approved to local regulations by a qualified engineer. Refer to the fastener manufacturer for location of the fasteners, structure thickness, and structure type requirements.

WARNING: Failure to follow *Mounting Requirement Minimums* and *Installation* instructions may lead to severe injury and/or death.

3. INSTALL

WARNING: It is imperative that the base be installed perpendicular to the ground. Severe injury and/or death may result if the base is installed incorrectly. If there are any questions pertaining to the installation or the base in general, contact Capital Safety.

WARNING: Failure to follow *Mounting Requirement Minimums* and *Installation* instructions may lead to severe injury and/or death.

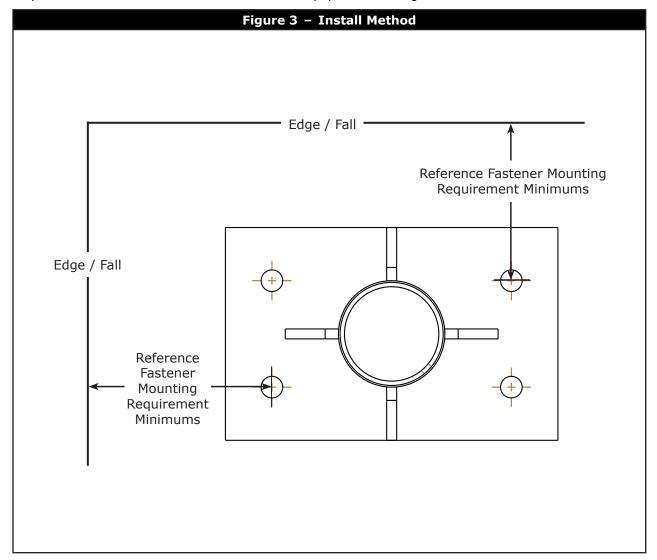
IMPORTANT: All mounting hardware must be able to withstand a minimum pull out force of 6,750 lbs (30.0 kN) each if using a 44 inches (112cm) offset. If a 29 inches (73.6cm) offset is used, a minimum pullout 5,700 lbs (25.4 kN) is required. See Table 1 for specific installion guidelines. (2:1 safety factor.)

1. Place davit base upright and perpendicular to the ground. (See Figure 3 below.) Using a Specification approved drill bit and the davit base as a guide, drill four holes into the structure.

IMPORTANT: A qualified engineer must verify the structural installation meets local and federal regulations

IMPORTANT: A qualified engineer must recommend the appropriate fasteners and determine proper base placement on the mount structure.

- 2. Using a Specification approved drill bit based on the fastener chosen, and using the davit base as a guide, drill four holes into the deck.
- 3. Install the Specification approved hardware.
- 4. Inspect davit base to ensure that it is secure and pependicular to ground.



4. DAVIT BASE INSPECTION:

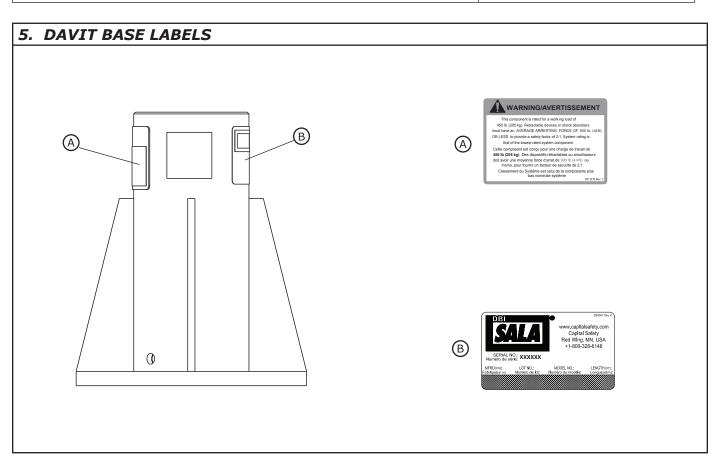
BEFORE EACH USE:

IMPORTANT: Extreme working conditions (harsh environments, prolonged use) may require increasing the frequency of inspections.

WARNING: If the base has been subjected to fall arrest forces, it must be immediately removed from service and inspected. If the floor mount base fails inspection, remove from service and destroy, or contact Capital Safety for repair or replacement.

Table 2 - Inspection and Maintenance Log					
Serial Number(s):		Date Purchased:	ate Purchased:		
		ate of First Use:			
Inspected By:		Inspection Date:			
Component:	Inspection:	Authorized Person or Rescuer	Competent Person		
Davit Base	Ensure all bolts are secure and not damaged.				
	Base should be inspected directly after installation and at same intervals as the arresting system for similar defects and/or unsafe conditions.				
	All labels must be present and fully legible.				
	If inspection reveals an unsafe or defective condition, remove the base from service and destroy, or contact Capital Safety for repair or replacement.				
	Look for signs of corrosion on the entire unit.				
Corrective Action/	Maintenance:	Approved By:			
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LIMITED LIFETIME WARRANTY

Warranty to End User: D B Industries, LLC dba CAPITAL SAFETY USA ("CAPITAL SAFETY") warrants to the original end user ("End User") that its products are free from defects in materials and workmanship under normal use and service. This warranty extends for the lifetime of the product from the date the product is purchased by the End User, in new and unused condition, from a CAPITAL SAFETY authorized distributor. CAPITAL SAFETY'S entire liability to End User and End User's exclusive remedy under this warranty is limited to the repair or replacement in kind of any defective product within its lifetime (as CAPITAL SAFETY in its sole discretion determines and deems appropriate). No oral or written information or advice given by CAPITAL SAFETY, its distributors, directors, officers, agents or employees shall create any different or additional warranties or in any way increase the scope of this warranty. CAPITAL SAFETY will not accept liability for defects that are the result of product abuse, misuse, alteration or modification, or for defects that are due to a failure to install, maintain, or use the product in accordance with the manufacturer's instructions.

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Global Leader in Fall Protection

USA

3833 SALA Way Red Wing, MN 55066-5005 Toll Free: 800.328.6146 Phone: 651.388.8282 Fax: 651.388.5065 solutions@capitalsafety.com

Brazil

Rua Anne Frank, 2621 Boqueirão Curitiba PR 81650-020 Brazil Phone: 0800-942-2300 brasil@capitalsafety.com

Mexico

Calle Norte 35, 895-E Col. Industrial Vallejo C.P. 02300 Azcapotzalco Mexico D.F. Phone: (55) 57194820 mexico@capitalsafety.com

Colombia

Compañía Latinoamericana de Seguridad S.A.S. Carrera 106 #15-25 Interior 105 Manzana 15 Zona Franca - Bogotá, Colombia Phone: 57 1 6014777

servicioalcliente@capitalsafety.com

Canada

260 Export Boulevard Mississauga, ON L5S 1Y9 Phone: 905.795.9333 Toll-Free: 800.387.7484 Fax: 888.387.7484 info.ca@capitalsafety.com

EMEA Headquarters:

EMEA (Europe, Middle East, Africa)

5a Merse Road North Moons Moat Redditch, Worcestershire B98 9HL UK Phone: + 44 (0)1527 548 000 Fax: + 44 (0)1527 591 000

France: Le Broc Center Z.I. 1re Avenue - BP15

csgne@capitalsafety.com

06511 Carros Le Broc Cedex France Phone: + 33 04 97 10 00 10 Fax: + 33 04 93 08 79 70 information@capitalsafety.com

Australia & New Zealand

95 Derby Street Silverwater Sydney NSW 2128 Australia

Phone: +(61) 2 8753 7600 Toll-Free: 1800 245 002 (AUS) Toll-Free: 0800 212 505 (NZ) Fax: +(61) 2 8753 7603 sales@capitalsafety.com.au

Asia

Singapore:
69, Ubi Road 1, #05-20
Oxley Bizhub
Singapore 408731
Phone: +65 - 65587758
Fax: +65 - 65587058
inquiry@capitalsafety.com

Shanghai:

Rm 1406, China Venturetech Plaza 819 Nan Jing Xi Rd, Shanghai 200041, P R China Phone: +86 21 62539050 Fax: +86 21 62539060 inquiry@capitalsafety.cn

www.capitalsafety.com

