



The Ultimate in Fall Protection

ADVANCED FLOOR MOUNT SLEEVES

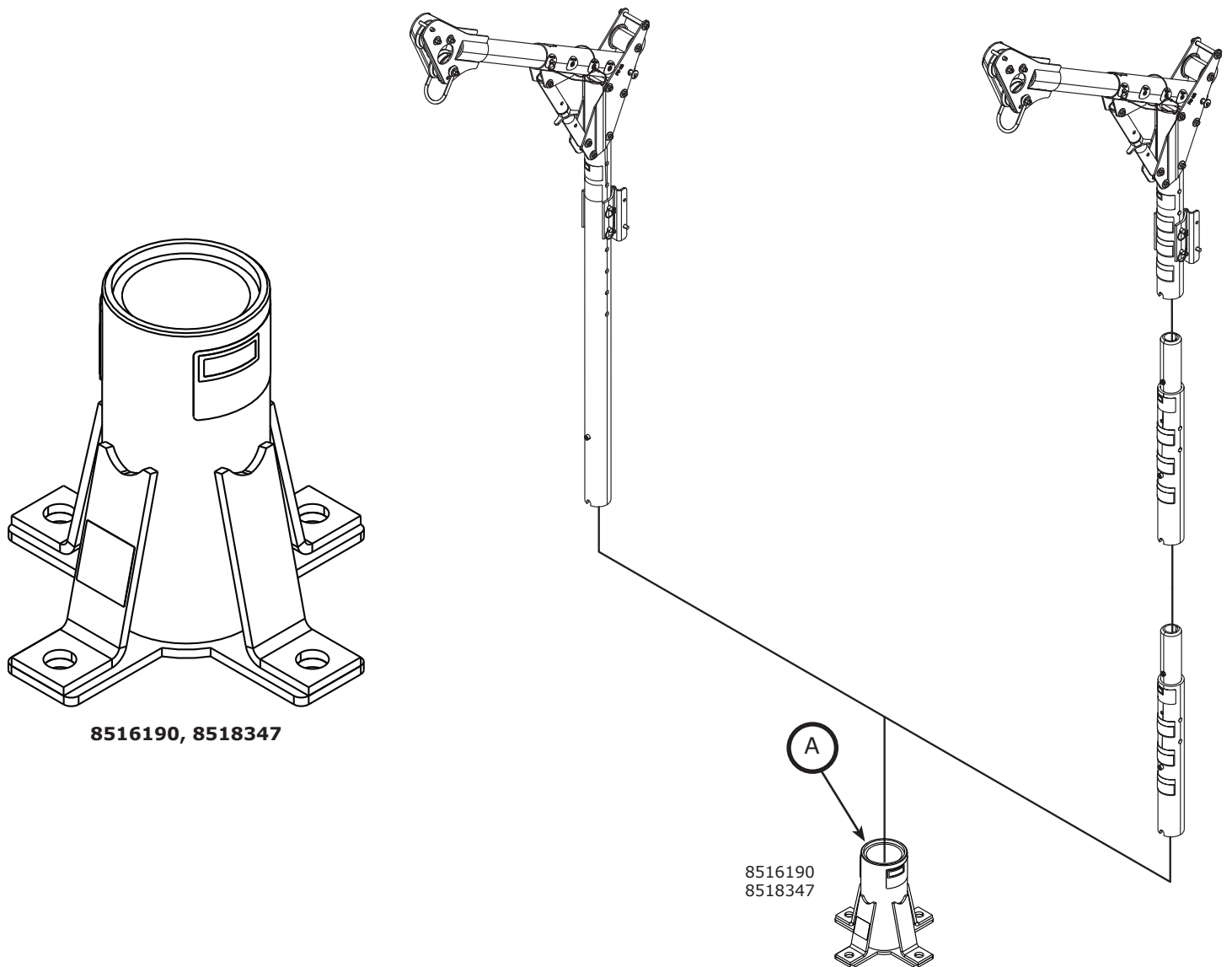
Model Numbers: 8516190, 8518347

INSTRUCTION MANUAL

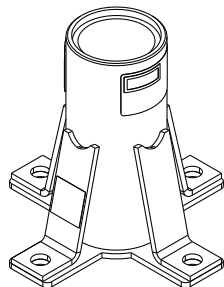
ANSI Z359.1

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

Figure 1 – 8516190 8518347



SPECIFICATIONS:



DESCRIPTION:

The DBI-SALA Floor Mount Bases are designed for mounting to horizontal concrete or steel structure



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 arresting forces to 900 lbs (4 kN).

GENERAL SPECIFICATIONS - MODEL 8516190:

Rated Capacity (working load)	450 lbs (205 kg)
Vertical Load	5000 lbs (22.24 kN)

MATERIALS & CONSTRUCTION:

General Construction	Welded Steel
Material	Mild Steel
Hardware (Minimum)	Gr. 8 Steel, Zinc Plated
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 8518347

Rated Capacity (working load)	450 lbs (205 kg)
Vertical Load	5000 lbs (22.24 kN)

MATERIALS & CONSTRUCTION:

General Construction	Stainless Steel
Material	304 SS
Hardware (Minimum)	Gr. 8 Steel, Zinc Plated, SS
Finish (Stainless Steel)	Brush Blast
Plating Specification	None

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.

Figure 2 – Base Dimensions

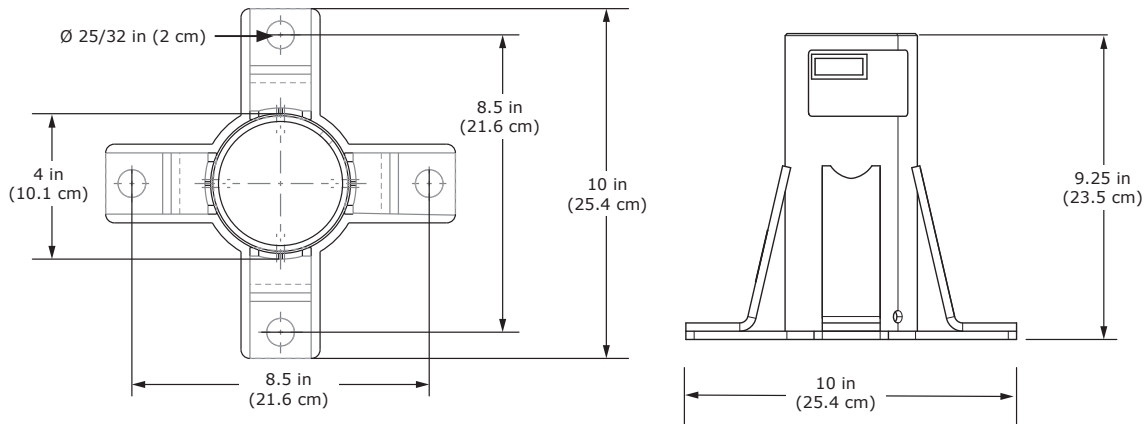
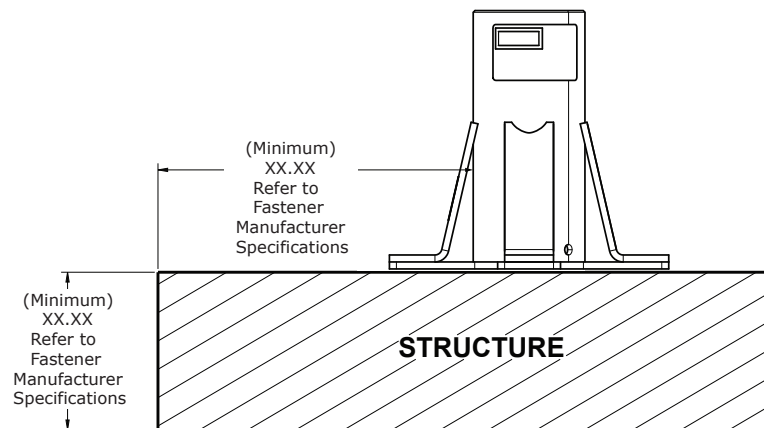


Table 1 – Mounting Requirement Minimums

	73.6cm (29 inches) Offset	122cm (48 inches) Offset
Pullout Force Per Base	7784 lbf (34.6 kN)	8368 lbf (37.2 kN)
Shear Force	N/A	N/A
Moment Load Per Structure	87,000 in*lbs (9.8 kN*m)	86,400 in*lbs (9.7 kN*m)
Vertical Load Per Structure	5000 lbs (22.2 kN)	3000 lbs (13.3kN)



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

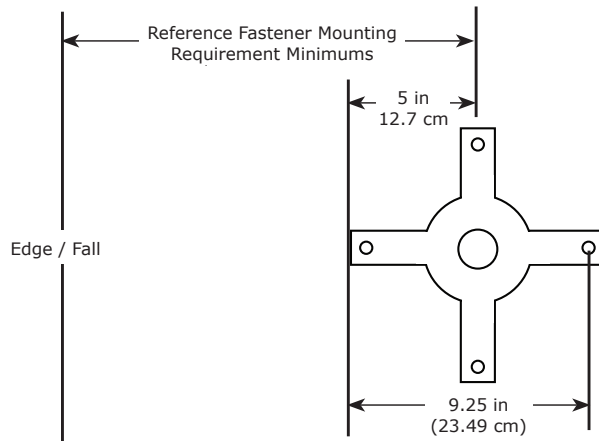
IMPORTANT: Base installation must be approved to local regulations by a qualified engineer. Refer to the fastener manufacturer for location of the fasteners, structure thickness, and structure type requirements

INSTALLATION:

IMPORTANT: Refer to the davit arm and fastener instructions for specific mounting requirements. There are many factors that will determine a proper installation of the base, such as fastener material and davit arm length. These factors must all be considered prior to base installation.

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

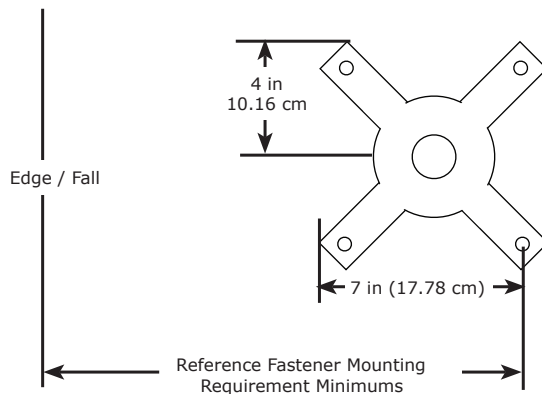
Figure 3 – Example Install Method #1



NOTE: There are different installation methods for this davit base. (Figure 3 & 4 to the left depict installation examples.) See Table 1 for specific installation guidelines. (2:1 safety factor.)

1. Place davit base leg perpendicular to edge. (See Figure 3 to left.) Using a Specification approved drill bit and the davit base as a guide, drill four holes into the deck.
2. Install the Specification approved hardware.
3. A *qualified engineer* must verify the structural installation meets local and federal regulations.
4. A *qualified engineer* must recommend the appropriate fasteners and determine proper base placement on the mount structure.

Figure 4 – Example Install Method #2



IMPORTANT: All mounting hardware must be able to withstand a minimum pull out force of 8368 lbf (37.2 kN) each if using a 48 inch (122 cm) offset. If a 29 inch (73.6 cm) offset is used, a minimum pullout 7784 lbf (34.6 kN) is required. See Table 1 for specific installation guidelines. (2:1 safety factor.)

1. Place davit base leg 45° (typical) off perpendicular to edge. (See Figure 4 to left.) Use a Specification approved drill bit and the davit base as a guide, drill four holes into the deck.
2. Install the Specification approved hardware.
3. A *qualified engineer* must verify the structural installation meets local and federal regulations.
4. A *qualified engineer* must recommend the appropriate fasteners and determine proper base placement on the mount structure.

4. DAVIT BASE INSPECTION:

BEFORE EACH USE:

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

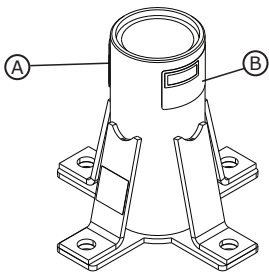
WARNING: If the base has been subjected to fall arrest forces, it must be immediately removed from service and inspected. If the floor mount base fails inspection, remove from service and destroy, or contact Capital Safety for repair or replacement.

Table 2 – Inspection and Maintenance Log

Serial Number(s):		Date Purchased:	
Model Number:		Date 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:	
		Date:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
Corrective Action/Maintenance:		Approved By:	
		Date:	
Corrective Action/Maintenance:		Approved By:	
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	Date:

DAVIT BASE LABELS





8513219 Rev. B

WARNING

AVERTISSEMENT

This component is rated for a working load of 450 lb. (205 kg). Retractable devices or shock absorbers must have a **MAXIMUM ARRESTING FORCE (M.A.F.) RATING OF 900 lb. (4kN) OR LESS.** System rating is that of the lowest rated system component.

Cet élément est conçu pour une charge de travail de 205 kg (450 lb). Des systèmes rétractables ou des amortisseurs de choc doivent avoir une **FORCE D'ARRÊT MAXIMALE (Maximum Arrest Force, M.A.F.) NOMINALE DE 4 kN (900 lb) OU MOINS.** La classification d'un système correspond à la classification du composant de la plus basse catégorie dans le système.

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DBI

SALA

®

9504547 Rev. H

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Capital Safety

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SERIAL NO.:
Numéro de série:

XXXXXX

MFRD(Y/M):
Fabriqué(a/ m)

LOT NO.:
Numéro de lot:

MODEL NO.:
Numéro du modèle:

LENGTH (FT):
Longueur(m):

Ⓑ

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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