

Safety From The Top Down

# DAVIT manual

Suspended Access Systems  
and Fall Protection



Summit Anchor Co.™

Safety From The Top Down

CELEBRATING  
25 years of Safety

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Standards in the United States and Canada require a building to provide certified anchorages capable of supporting the required loads before any suspended maintenance work is performed.

## Davit Overview

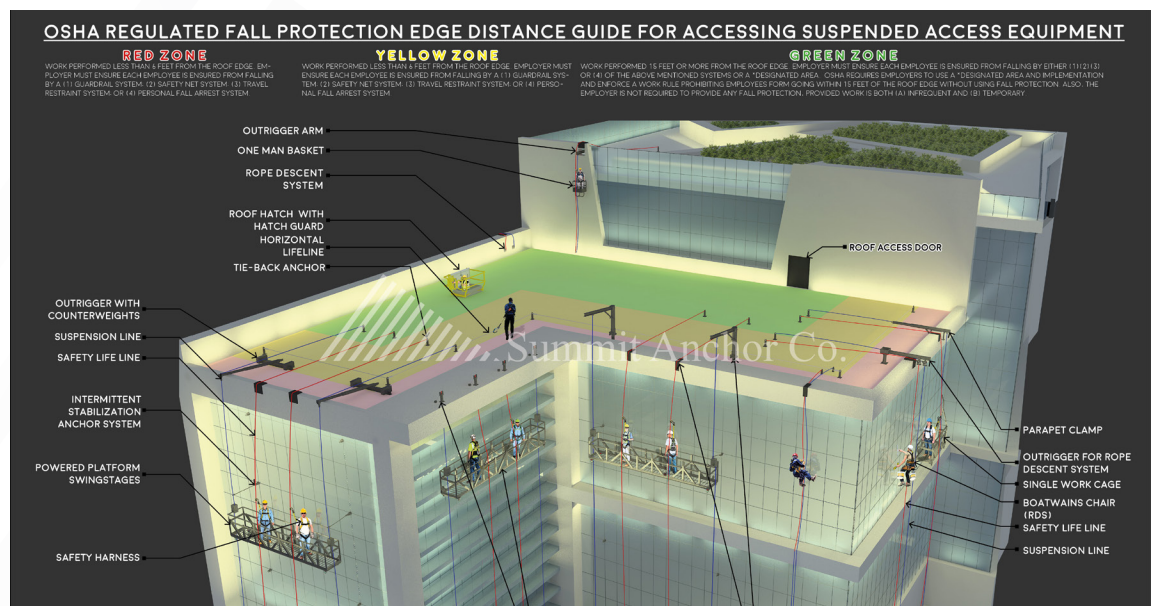
Davits are often used in addition to roof and wall safety/tie-back anchors to provide a suspension point that will:

- Clear non-load bearing parapets of a building or other architectural feature that may be easily damaged.
- Access areas beyond these features which are hard to reach. Such features may include:
  - Glass or other finished parapets
  - Decorative railings
  - Overhangs and cornices
  - Sloped glazing

Davit pedestal bases are permanently mounted above the intended suspension locations. Portable davit arms are moved manually to each location when needed. The mast and boom components of the davit arms may be dismantled for easy transportation. Assembled davits may be rotated 360 degrees to provide a range of access options to maintenance workers to service a building's façade.

Davits can be used alone or in pairs:

- Davits may be used singly when supporting one-man rope descent systems (RDS) or a single-point suspension scaffold.
- Davits are used in pairs when they will be used to suspend a powered platform with hoists mounted at each end. Davits may be ground-rigged or roof-rigged:
- Ground-rigged davits provide a suspension point for suspending a platform situated on a lower level (e.g. sidewalk below). They only need to be tall enough for the boom to clear the parapet, making them easier to handle and erect than roof-rigged davits.
- Roof-rigged davits enable workers to initially rig and board a powered platform on the roof, which will then be launched outboard of the parapet and suspended along the building face. Consideration needs to be given to providing sufficient landing surface on the rooftop for the platform and a suitable load bearing surface for safely rolling it on the roof to successive drop locations. Clearance to tip up and down davit arm is required around each davit base to allow for set-up and dismantling.



# Introduction to Davit Layout Requirements

Each maintenance worker's lifeline is required to be attached to an independent anchorage on the roof. Davit spacing should take into consideration the length of the powered platform that will be used by workers in the future. The diagrams below illustrate a sample davit layouts.

Notes:

1. Davit spacing may vary depending on roof conditions; however, spacing should be kept as consistent as possible to allow for standard powered platform.
2. Each worker must be independently tied to an anchor on the roof.
3. Placement of davits and roof anchors shall allow cables suspending the powered platform to hang parallel and in plane or slightly angulated with the building when in use to allow the platform to press firmly against the building during its vertical travel.

## Fall Protection Zones

### 1) RED ZONE: Work performed less than 6 feet from the roof edge.

Employer must ensure each employee is ensured from falling by a (1) Guardrail system; (2) Safety net system; (3) Travel restraint system; or (4) Personal fall arrest system.

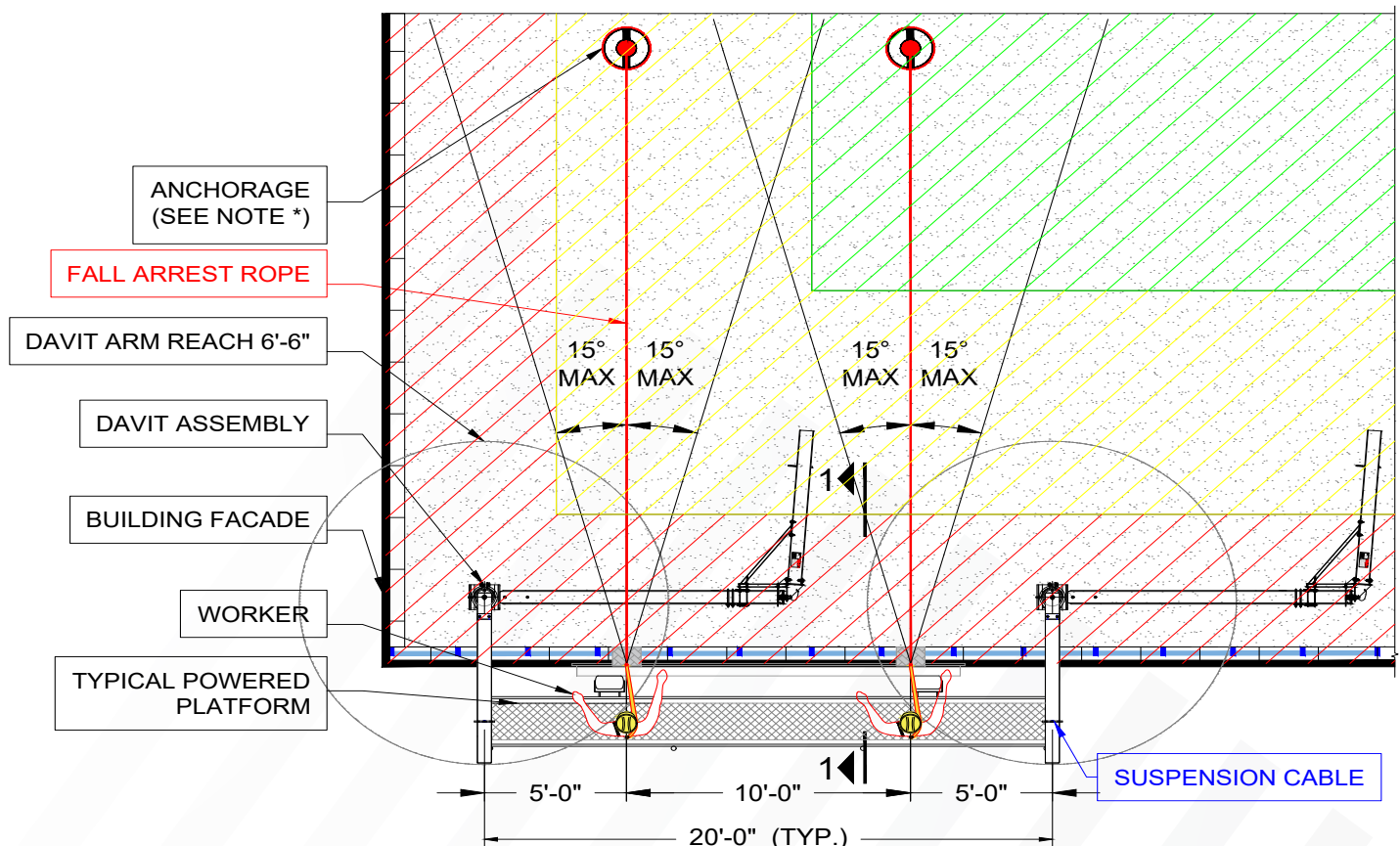
### 2) YELLOW ZONE: Work performed more than 6 feet but less than 15 feet from the roof edge.

Employer must ensure each employee is ensured from falling by either (1)(2)(3) or (4) of the above mentioned systems. However, for work that is both (a) infrequent and (b) temporary OSHA allows employers to use a Designated Area\*.

### 3) GREEN ZONE: Work performed 15 feet or more from the roof edge.

Employer must ensure each employee is ensured from falling by either (1)(2)(3) or (4) of the above mentioned systems or a Designated Area\*. OSHA requires employers to use a Designated Area\* and implementation and enforce a work rule prohibiting employees from going within 15 feet of the roof edge without using fall protection. Also, the employer is not required to provide any fall protection, provided work is both (a) infrequent and (b) temporary.

\*DESIGNATED AREA IS DELINEATED AREA WITH WARNING LINE. SEE OSHA SUBPART D FOR MORE INFORMATION ON THE PROPER SET-UP AND USE OF WARNING LINES.





# Fall Protection for Workers on Platforms

## (\*) SUBPART D WALKING AND WORKING SURFACES 1910.140 PERSONAL FALL PROTECTION SYSTEMS

### OSHA Subpart D - (d, 1, ii), System Criteria

Personal fall arrest systems are rigged in such manner that the employee cannot free fall more than 6 feet (1.8m) or contact a lower level. A free fall may be more than 6 feet (1.8m) provided the employer can demonstrate the manufacturer designed the system to allow a free fall or more than 6 feet and tested the system to ensure a maximum arresting force of 1,800 pounds (8kN) is not exceeded.

OSHA Subpart D - (n) Free fall considerations. Employers and employees should always be aware that a system's maximum arresting force is evaluated under normal use conditions established by the manufacturer. OSHA requires that personal fall arrest systems be rigged so an employee cannot free fall in excess of 6 feet (1.8 m). Even a few additional feet of free fall can significantly increase the arresting force on the employee, possibly to the point of causing injury and possibly exceeding the strength of the system. Because of this, the free fall distance should be kept to a minimum, and, as required by §1910.140(d)(2), must never be greater than 6 feet (1.8 m).

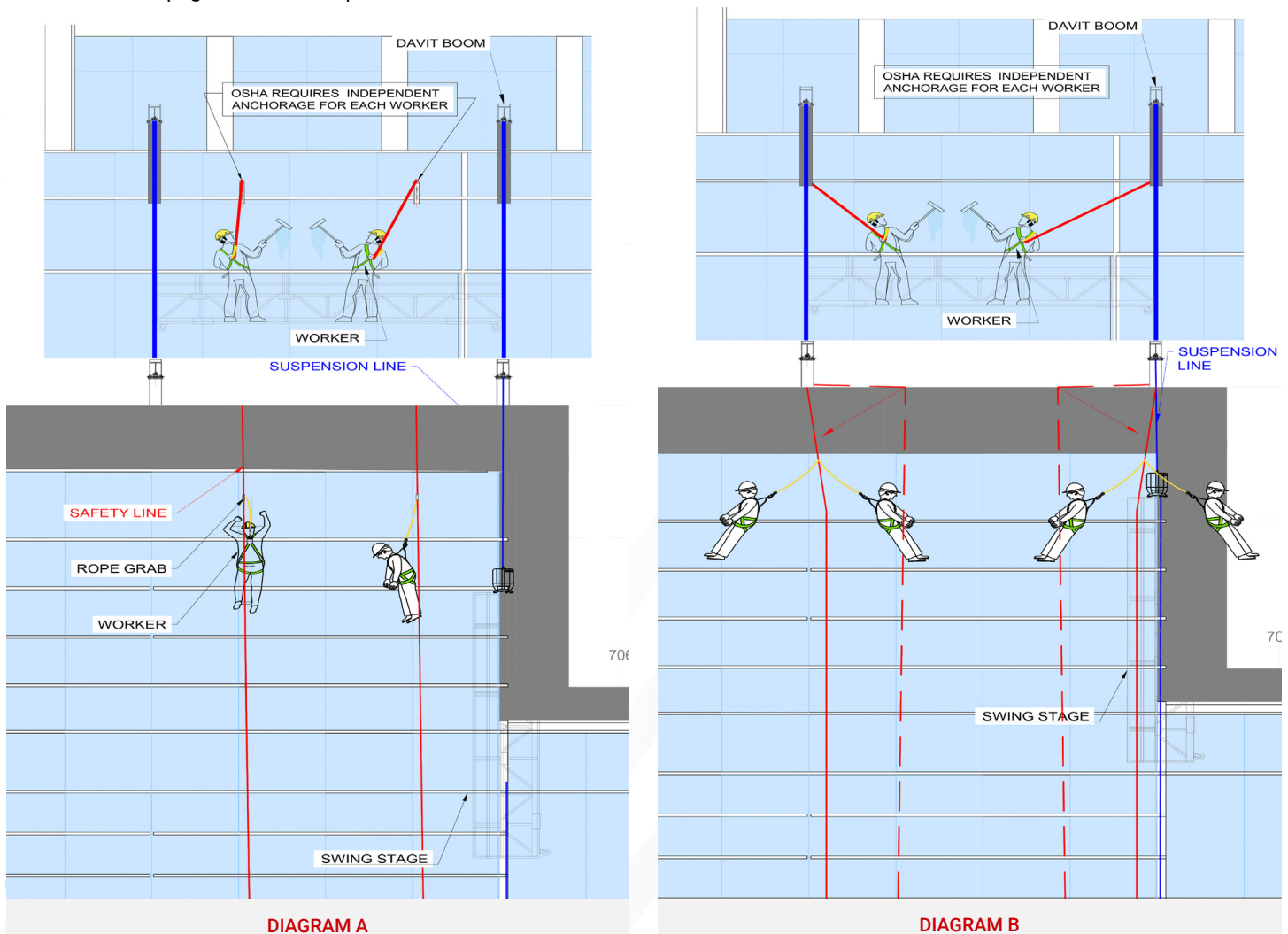
**To assure this, the tie-off attachment point to the lifeline or anchor should be located at or above the connection point of the fall arrest equipment to the harness.**

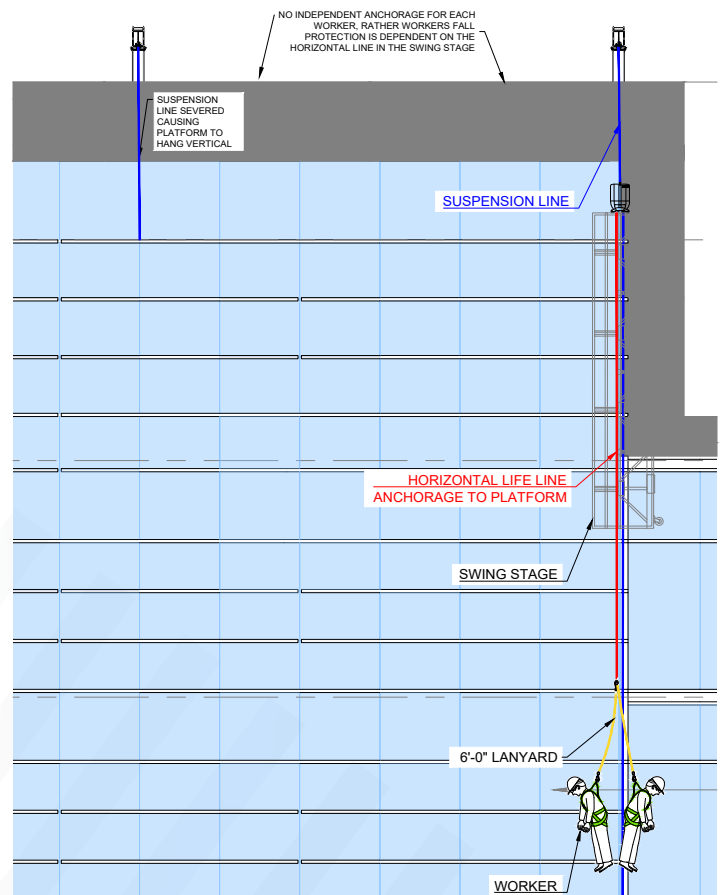
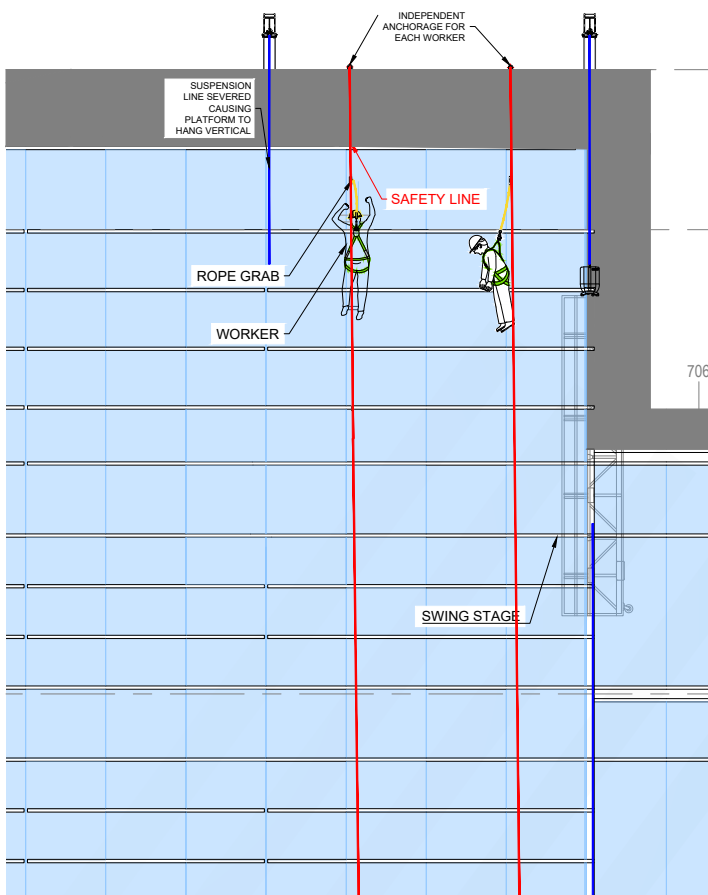
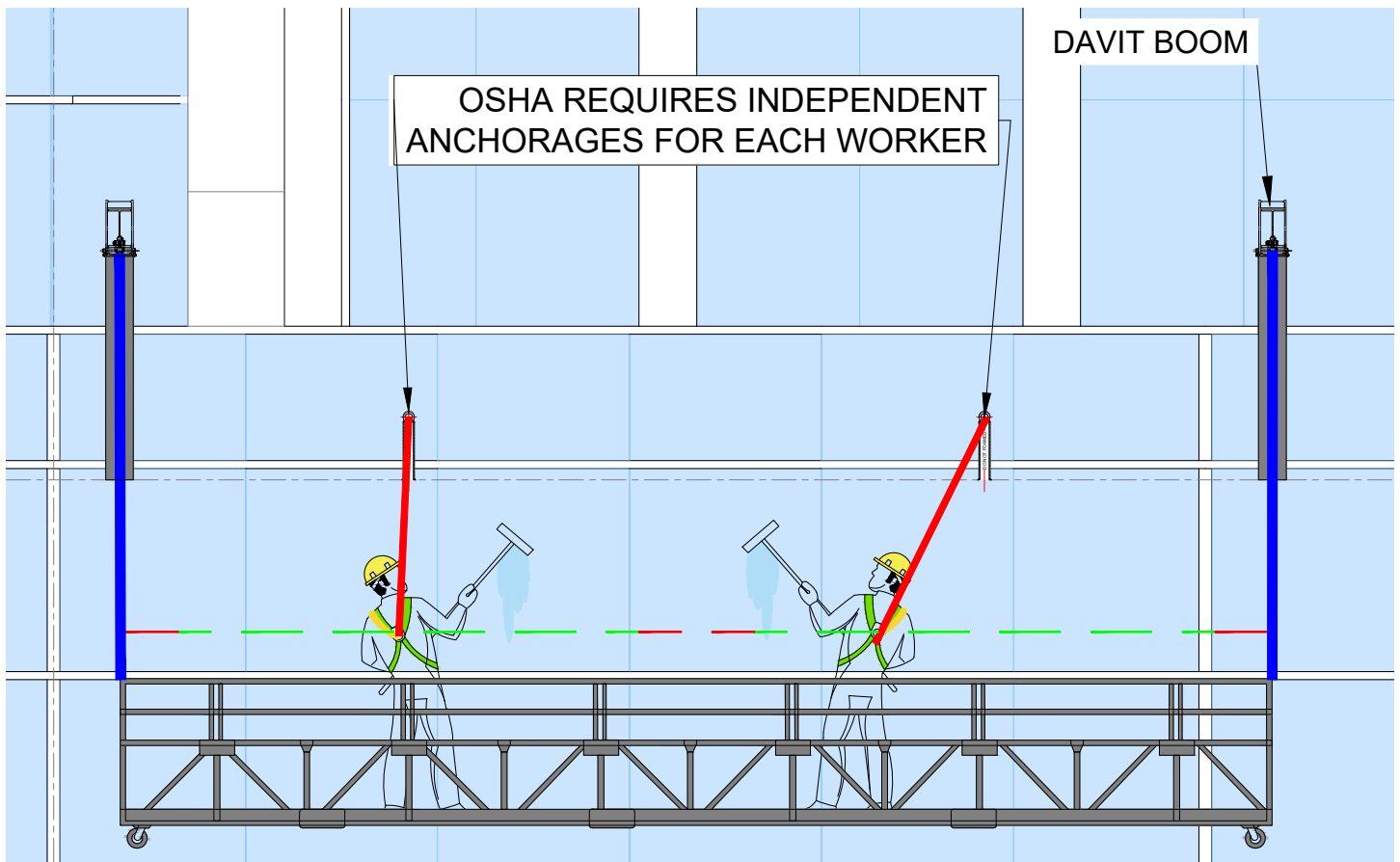
OSHA Subpart D - (p) Obstruction considerations. In selecting a location for tie-off, employers and employees should consider obstructions in the potential path of the employee. Tie-offs that minimize the possibilities of exaggerated swinging should be considered.

### Commentary from Summit:

Anchorage located off center from the above the worker means that the potential free fall distance is greater, potentially increasing the fall arrest impact to the worker's body.

Anchorage located off center from above the worker also increases the potential swing hazard, potentially creating a sawing action on the worker's lifeline after arresting the fall. **SEE DIAGRAM B** For these reasons OSHA says that the "anchor should be located at or above the connection point of the fall arrest equipment to the harness." **SEE- DIAGRAM A** See page 74 OSHA Subpart D.





**Summit Commentary:**

Free fall distance may be minimized to within OSHA's 6'-0" limit, when workers are attached to independent anchorages above workers.

**Summit Commentary:**

Free fall distance may far exceed OSHA's 6'-0" limit, when workers are tied to a horizontal line inside the suspended platform with no independent anchorages above workers.



# What are OSHA's requirements for stabilization systems for use with davits?

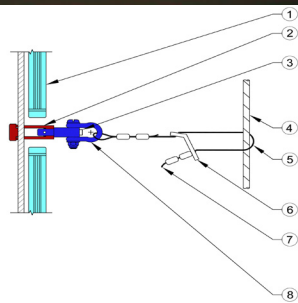
Typically, ISAs will be installed in pairs at the top of the building in-line with the support system above, e.g.: davit bases, rigging sleeves, and outriggers. The location can be either between the platform or just outside the suspension ropes, but, not both outside and inside the suspension ropes. The maximum vertical spacing for intermittent stabilization is 3 floors or 50 feet, whichever is less. See OSHA's requirement for ISA systems below:

1. "Intermittent stabilization system. The system shall keep the equipment in continuous contact with the building facade and shall prevent sudden horizontal movement of the platform. The system may be used together with continuous positive building guide systems using tie-in guides on the same building, provided the requirements for each system are met." (OSHA 1910.66(e)(2)(iii)(A)(1))
2. "The maximum vertical interval between building anchors shall be three floors or 50 feet (15.3 m), whichever is less." (OSHA 1910.66(e)(2)(iii)(A)(1))



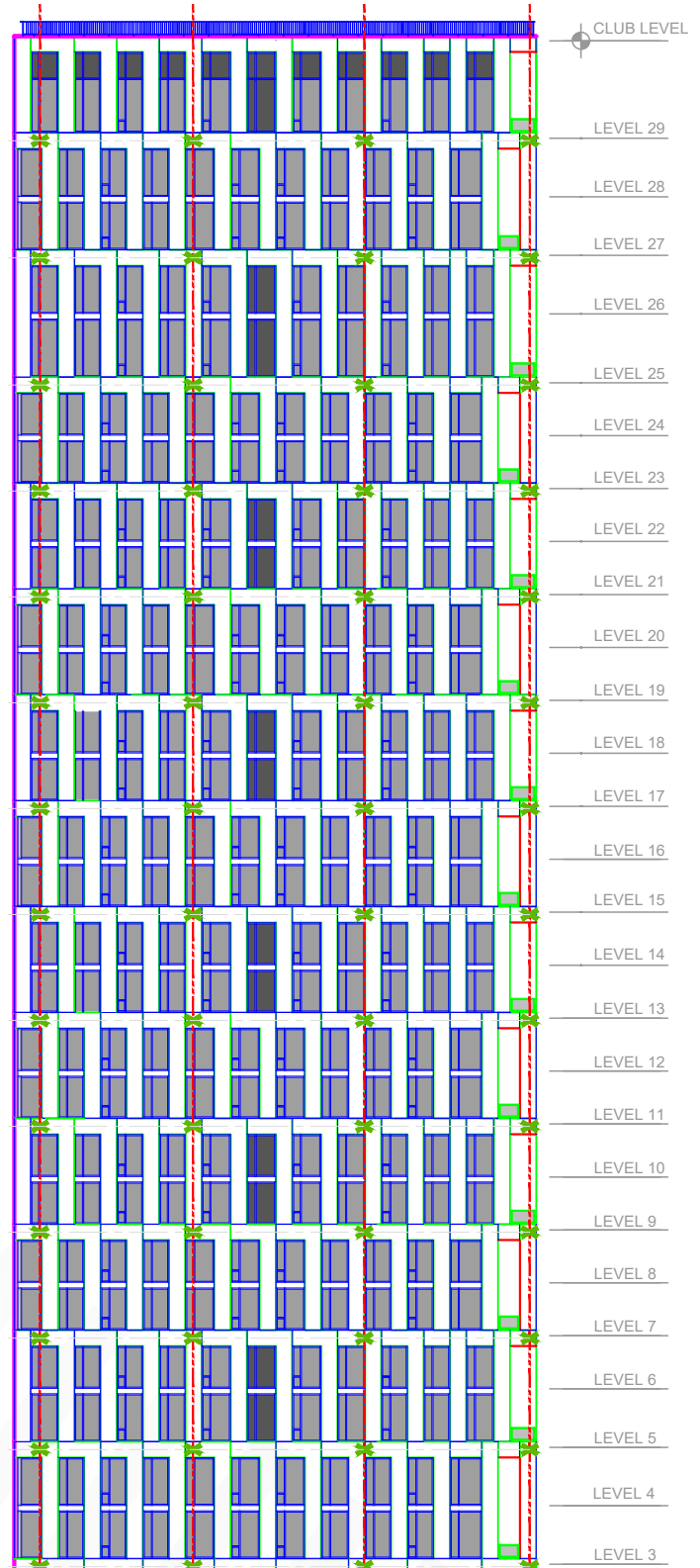
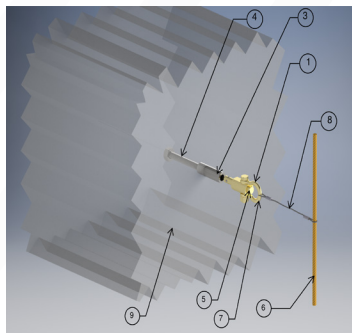
**Single Intermittent Stabilization System with Anchor in Curtain Wall Mullion**

1. Glazing
2. Permanent I.S.A. mounting block
3. Push button to detent the lock balls and remove/insert eye
4. Stage suspension cable
5. Connect lanyard from this eye to stage suspension cable
6. Lanyard length adjuster
7. Lanyard used to attach to the suspension should not be configured to snag or bind
8. Removable eye/pin



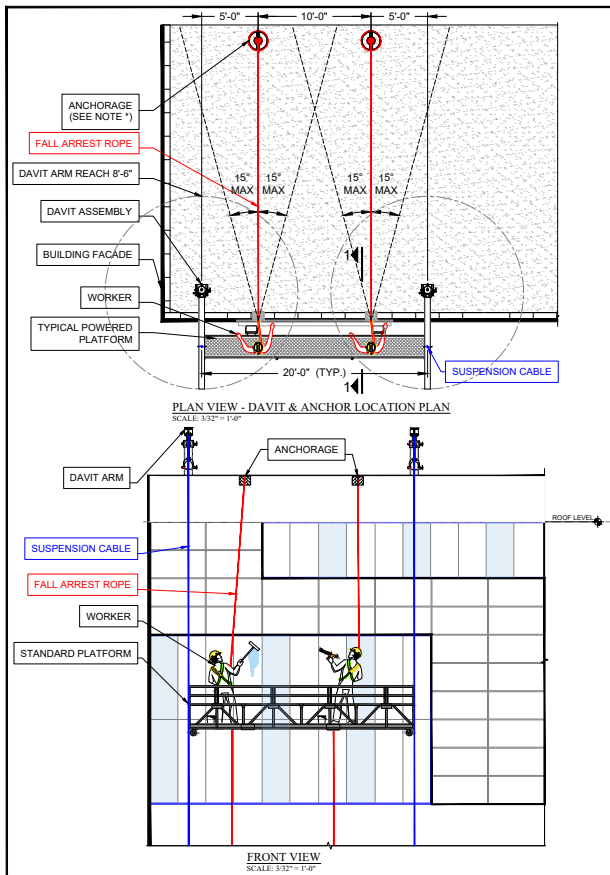
**Single Intermittent Stabilization System with Anchor Cast in Place**

1. Eye for insert into I.S.A. anchor
2. Soft plastic cap plug for debris protection
3. Permanent I.S.A. anchor
4. C.I.P. mount
5. Push button to detent the lock balls and remove/insert eye
6. Stage suspension cable
7. Connect lanyard from this eye to stage suspension cable
8. Lanyard
9. Building concrete



**ELEVATION 9**

**X - INTERMITTENT STABILIZATION ANCHOR LOCATIONS**



## SUMMIT ANCHOR - GROUND RIGGED DAVIT FOR SWING STAGE OPERATIONS

### GENERAL NOTES

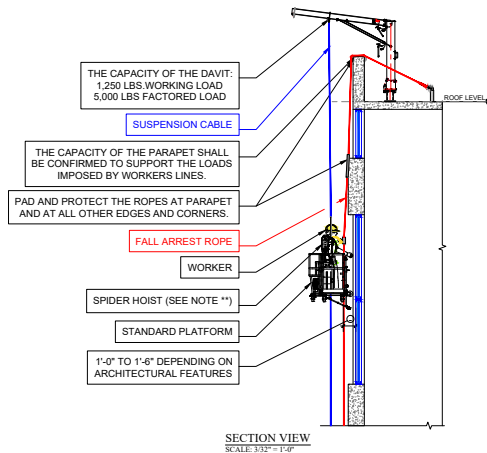
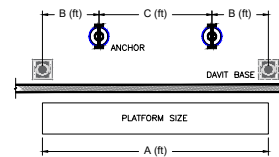
1. DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
2. EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
3. PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGULATED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

\*OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

### \*\*SPIDER PLATFORM SPECIFICATIONS

PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD  
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST  
 - MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.  
 THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

SPACING DAVIT TO	SPACING ANCHOR TO	SPACING ANCHOR TO
A (ft)	B (ft)	C (ft)
10	2.50	4.10
15	3.75	6.15
20	5.00	8.20
25	6.25	10.25
30	7.50	12.30



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DATE	REV	BY	DATE
01/01/2010	1	M. Anselmo	12/08/2009
01/01/2010	2	A. Brown	01/01/2010
01/01/2010	3	A. Brown	01/01/2010

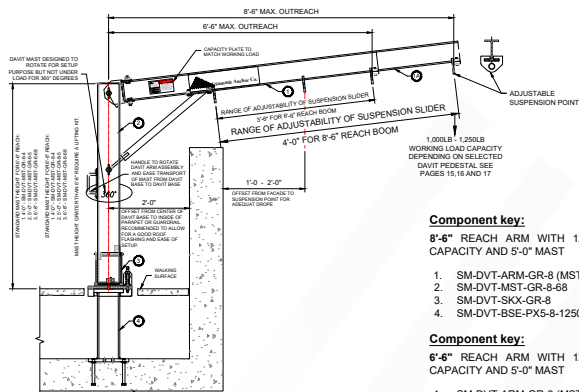
DAVIT TEMPLATE GUIDE FOR GROUND RIGGED PLATFORM

**A-2**

## Summit Anchor Co. GROUND RIGGED DAVIT ASSEMBLY FOR 42" PARAPET GUARDRAIL APPLICATION

4507 Metropolitan Ct., Suite F, Frederick, MD 21704  
 Tel: 301.874.4941, Fax: 301.620.9819  
 Toll Free: 800.372.1098 Web: [www.summitanchor.com](http://www.summitanchor.com)

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."



**Component key:**  
 8'-6" REACH ARM WITH 1250" LBS. CAPACITY AND 5'-0" MAST

1. SM-DVT-ARM-GR-8 (MST-8-68)
2. SM-DVT-MST-GR-8-68
3. SM-DVT-SKX-GR-8
4. SM-DVT-BSE-PX5-6-1250

**Component key:**  
 6'-6" REACH ARM WITH 1250" LBS. CAPACITY AND 5'-0" MAST

1. SM-DVT-ARM-GR-6 (MST-6-68)
2. SM-DVT-MST-GR-6-68
3. SM-DVT-SKX-GR-6
4. SM-DVT-BSE-PX5-6-1250

LOADS IMPOSED ON THE BUILDING STRUCTURE AS FOLLOWS					
MODEL #	MAST HEIGHT	ARM REACH	FACTORED LOAD	FACTORED MOMENT IN ANY VERTICAL PLANE	
6'-6" REACH	4'	6'-6"	1,250.0 LBS	4,500 K	20,775 K-FT
	5'	6'-6"	1,250.0 LBS	4,500 K	26,880 K-FT
	6'-6"	6'-6"	1,250.0 LBS	4,500 K	27,336 K-FT
6'-6" REACH	4'	6'-6"	1,250.0 LBS	5,000 K	32,471 K-FT
	5'	6'-6"	1,250.0 LBS	5,000 K	33,775 K-FT
	6'-6"	6'-6"	1,250.0 LBS	5,000 K	34,341 K-FT
8'-6" REACH	4'	8'-6"	1,250.0 LBS	4,500 K	36,761 K-FT
	5'	8'-6"	1,250.0 LBS	4,500 K	38,824 K-FT
	6'-6"	8'-6"	1,250.0 LBS	4,500 K	39,357 K-FT
8'-6" REACH	4'	8'-6"	1,250.0 LBS	5,000 K	43,851 K-FT
	5'	8'-6"	1,250.0 LBS	5,000 K	45,914 K-FT
	6'-6"	8'-6"	1,250.0 LBS	5,000 K	46,721 K-FT



ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-GR-6-5)	Davit Arm, 6'-6" reach, Mast-5' height for roof launch, w/slider, FED OSHA	
		SM:SM-DVT-ARM-GR-8 (MST-GR-8-5)	Davit Arm, 8'-6" reach, Mast -5' height for ground-launch, w/suspension slider, FED	
2	Davit, Component; Mast	SM:SM-DVT-MST-GR-6-4	Davit Mast, Aluminum 6-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-GR-6	
		SM:SM-DVT-MST-GR-6-5	Davit Mast, Aluminum 6-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-GR-6	
		SM:SM-DVT-MST-GR-6-6	Davit Mast, Aluminum 6-5/8" Dia. X 6'-8" Tall, for mating with SM-DVT-ARM-GR-6	
3	Davit, Component; Mast	SM:SM-DVT-MST-GR-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-GR-8	
		SM:SM-DVT-MST-GR-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-GR-8	
		SM:SM-DVT-MST-GR-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 6'-8" Tall, for mating with SM-DVT-ARM-GR-8	
4	Davit Sockets & Adaptors for Ground Rigged t	SM:SM-DVT-SKX-GR-6	Davit Portable Adapter: for socked and mast, gound launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Socket)	
		SM:SM-DVT-SKX-GR-8	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
6'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY: includes 5'-0" Mast and Socket	
8'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY With 5'-0" Mast includes 5'-0" Mast and Socket	

CONTACT US FOR MORE INFORMATION:



[www.summitanchor.com](http://www.summitanchor.com)



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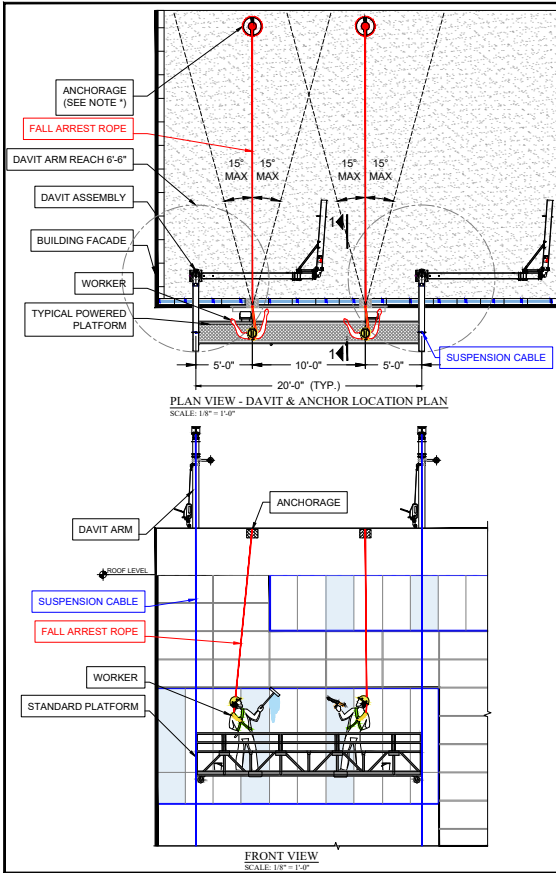
[info@summitanchor.com](mailto:info@summitanchor.com)

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# SUMMIT ANCHOR - ROOF RIGGED DAVIT FOR SWING STAGE OPERATIONS



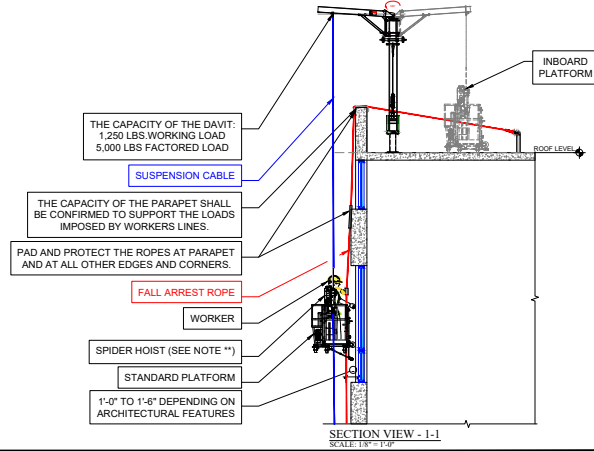
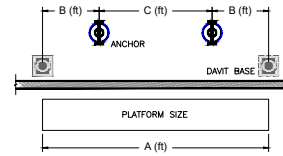
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"SPIDER PLATFORM SPECIFICATIONS  
PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.  
THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

SPACING DAVIT TO DAVIT	SPACING DAVIT TO ANCHOR	SPACING ANCHOR TO ANCHOR
A (ft)	B (ft)	C (ft)
10	7.50	7.50
15	5.75	5.75
20	4.00	4.00
25	2.25	2.25
30	0.50	0.50



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NAME	TOP COPY
DESIGNED BY	M. A. Adams
CHECKED BY	G. Adams
DATE	12/28/2010

DAVIT TEMPLATE GUIDE FOR ROOF RIGGED PLATFORM

**A-1**

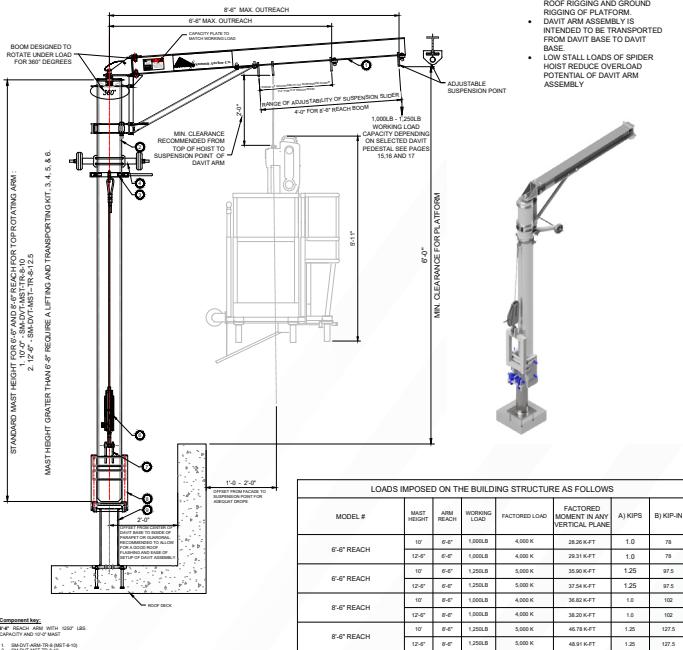
## ROOF RIGGED DAVIT ASSEMBLY

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"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

## FEATURES:

- TOP ROTATING ARM ALLOWS FOR ROOF RIGGING AND GROUND RIGGING OF PLATFORM
- DAVIT ARM ASSEMBLY IS INTENDED TO BE TRANSPORTED FROM DAVIT BASE TO DAVIT BASE
- LOW STALL LOADS OF SPIDER HOIST REDUCE OVERLOAD POTENTIAL OF DAVIT ARM ASSEMBLY



## SPIDER PLATFORM SPECIFICATION:

PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD.  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST  
THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

SPECIFY DAVIT CAPACITY DESIRED FOR APPLICATION, THEN SELECT

## APPROPRIATE DAVIT BASE:

- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD
- 6'-6" REACH - 1,000 LBS. WORKING LOAD - 4,000 LBS. FACTORED LOAD
- 8'-6" REACH - 1,250 LBS. WORKING LOAD - 5,000 LBS. FACTORED LOAD

DAVIT BASE MTK FOR TOP ROTATING ARM

DAVIT BASE MTK FOR TOP ROTATING ARM

DAVIT BASE MTK FOR TOP ROTATING ARM

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DAVIT BASE MTK FOR TOP ROTATING ARM

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Top Rotating Arm	SM-DVT-ARM-TR-6 (MST-TR-8-10)	Davit Arm, 6'-6" reach, Mast-10' top-rotating for roof launch, 1,000#, w/slider, FED OSHA	115 lbs
		SM:SM-DVT-ARM-TR-8 (MST-TR-8-10)	Davit Arm, 8'-6" reach, Mast-10' top-rotating for roof launch, 1,000#, w/slider, FED	
2	Davit, Component; Mast	SM:SM-DVT-MST-TR-8-10	Davit Mast, Aluminum 8-5/8" Dia. X 10'-0" Tall, for mating with SM-DVT-ARM-8-1250	140 lbs
		SM:SM-DVT-MST-TR-8-12.5	Davit Mast, Aluminum 8-5/8" Dia. X 12'-6" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit, Rotation Equipment	SM:SM-DVT-RCO-8	Davit; Lifting and leverage Collar with Handle for ground rigged and top-rotating arm, galv.	
4	Davit, Transport Equipment	SM:SM-DVT-DOL-8	Davit; Dolley with casters for transport of ground rigged and top-rotating arm, galv.	
5	Davit, Lifting Equipment	SM:SM-DVT-WIN	Davit Winch; to raise/lower top-rotating arm, Tractel Model# T-17 requires lifting bracket	
6	Davit, Lifting Equipment	SM:SM-DVT-WIN-BRK-TR	Davit Winch Attachment Bracket; for pedestal socket and top-rotating arm, galv.	
7	Davit Sockets & Adaptors for Ground Rigged	SM:SM-DVT-SKX-TR-6-1250	Davit Portable Adaptor; for socket and mast, roof launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/ Socket)	
		SM:SM-DVT-SKX-TR-8-1250	Davit Portable Adaptor; for socket and mast, roof launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/ Socket)	
6'-6" Reach Boom with 10'-0" Mast Height			TOTAL PER ARM ASSEMBLY: includes 10'-0" Mast, Socket, and lifting kit.	
8'-6" Reach Boom with 10'-0" Mast Height				

6'-6" Reach Boom with 10'-0" Mast Height

8'-6" Reach Boom with 10'-0" Mast Height

**TOTAL PER ARM ASSEMBLY:**  
includes 10'-0" Mast, Socket, and lifting kit.

CONTACT US FOR MORE INFORMATION:



www.summitanchor.com



(800) 372-1098



info@summitanchor.com

# SUMMIT ANCHOR - DAVIT AND ANCHORAGE FOR ROPE DESCENT SYSTEM

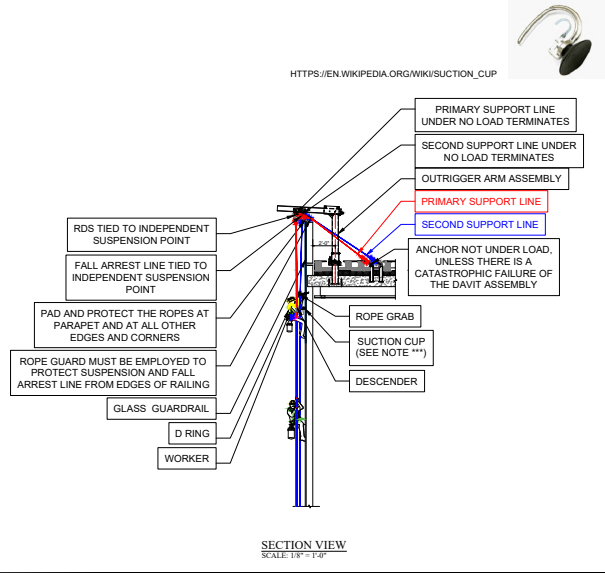
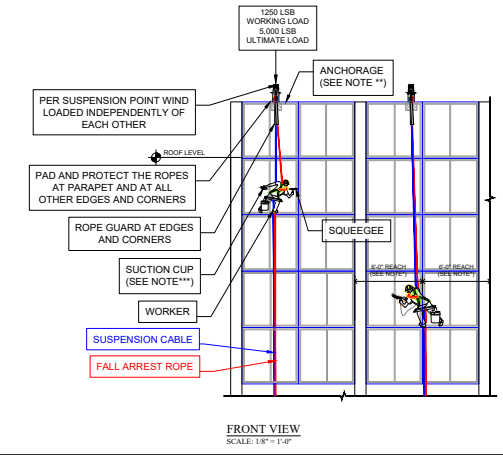
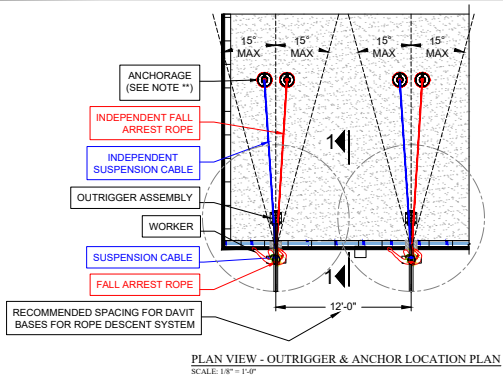
\*ANSI/MCA I-14.1  
ROPE DESCENT SYSTEM (RDS)

5.7.10 WHILE SUSPENDED, WINDOW CLEANERS SHALL NOT REACH FURTHER THAN SIX (6) FEET (1.8M) IN ANY DIRECTION AS MEASURED FROM PLUMB LINE OF THE SUSPENSION POINT ON THE BEARING POINT ON THE BUILDING. RAPID DESCENTS, EXCESSIVE SWINGING AND SUDDEN STOPS ARE PROHIBITED.

9.1.6 ANCHORAGES SHALL BE UNOBSTRUCTED AND LOCATED BEHIND AND IN LINE WITH THE EQUIPMENT OR PORTION OF THE BUILDING THEY ARE INTENDED TO SERVICE AND SHALL BE FREE OF SHARP EDGES THAT MAY CAUSE DAMAGE TO THE APPURTENANCES ATTACHED TO THEM.

\*\* OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

\*\*\* OSHA'S SUBPART D - WALKING-WORKING SURFACES REQUIRES STABILIZATION AT THE SPECIFIC WORK LOCATION WHEN DESCENTS ARE GREATER THAN 130 FEET. OSHA HAS DETERMINED THAT STABILIZATION CAN BE SOMETHING AS SIMPLE AS A SUCTION CUP.



Summit Anchor Co.  
10000 Rte 100  
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DATE	10/1/2010
DESIGNED BY	M. J. JONES
APPROVED BY	M. J. JONES

OUTRIGGER TEMPLATE GUIDE FOR ROPE DESCENT SYSTEM

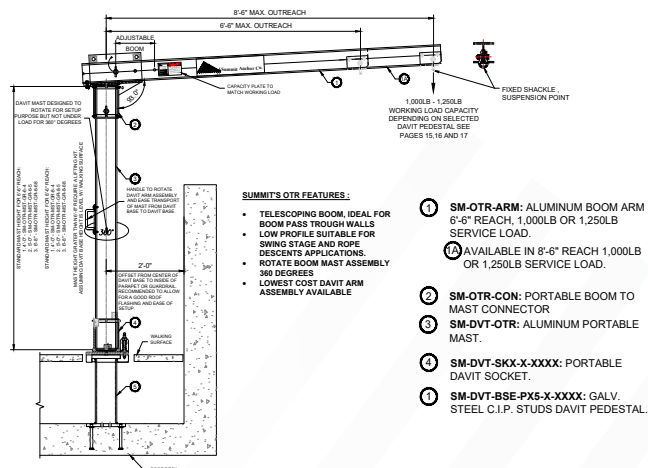
A-3

## OUTRIGGER ASSEMBLY FOR RDS

SUMMIT MODEL(S): PER TABLE

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### SUMMIT'S OTR FEATURES:

- TELESCOPING BOOM, IDEAL FOR BOOM PASS TROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE

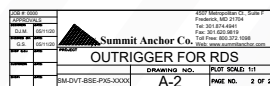
- SM-OTR-ARM:** ALUMINUM BOOM ARM 6'-6\"
- SM-OTR-CON:** PORTABLE BOOM TO MAST CONNECTOR
- SM-DVT-OTR:** ALUMINUM PORTABLE MAST
- SM-DVT-SKX-X-XXXX:** PORTABLE DAVIT SOCKET
- SM-DVT-BSE-PX5-X-XXXX:** GALV. STEEL C.I.P. STUDS DAVIT PEDESTAL.

SPECIFY DAVIT CAPACITY DESIRED FOR APPLICATION, THEN SELECT APPROPRIATE DAVIT BASE:

- 6'-6\"
- 6'-6\"
- 8'-6\"
- 8'-6\"

### SUMMIT'S OTR FEATURES:

- TELESCOPING BOOM, IDEAL FOR BOOM PASS TROUGH WALLS
- LOW PROFILE SUITABLE FOR SWING STAGE AND ROPE DESCENTS APPLICATIONS
- ROTATE BOOM MAST ASSEMBLY 360 DEGREES
- LOWEST COST DAVIT ARM ASSEMBLY AVAILABLE



ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Telescoping Ground Rigged Arm/Mast	SM-ORT-ARM-GR-6 (MST-6-5)	Telescoping Davit Arm, 6'-6" reach, Mast-5' height for ground-launch, w/ suspension slider, FED	
		SM-ORT-ARM-GR-8 (MST-8-5)	Telescoping Davit Arm, 8'-6" reach, Mast-5' height for ground-launch, w/ suspension slider, FED	
2	Davit, Component; Mast	SM-ORT-MAST-6-4	Davit Mast, Aluminum 6-5/8" Dia. X 4'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-6-5	Davit Mast, Aluminum 6-5/8" Dia. X 5'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-6-6	Davit Mast, Aluminum 6-5/8" Dia. X 8'-0" Tall, for mating with SM-ORT-GR-8	
3	Davit, Component; Mast	SM-ORT-MST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-ORT-GR-8	
		SM-ORT-MST-8-86	Davit Mast, Aluminum 8-5/8" Dia. X 8'-0" Tall, for mating with SM-ORT-GR-8	
4	Davit Sockets & Adaptors for Ground Rigged	SM-DVT-SKX-6-1250	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, or 6'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
		SM-DVT-SKX-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, or 8'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
6'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY includes 5'-0" Mast and Socket	
8'-6" Reach Boom with 5'-0" Mast Height				

CONTACT US FOR MORE INFORMATION:



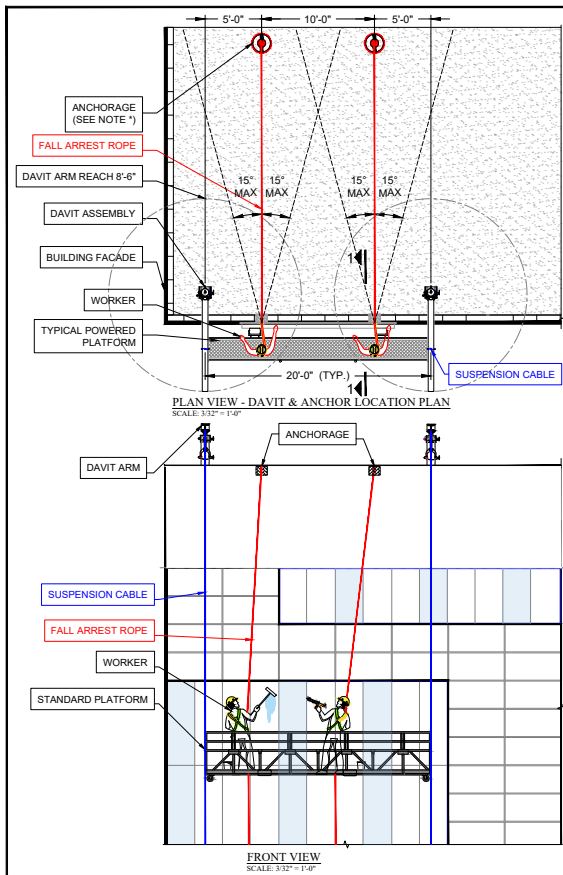
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[info@summitanchor.com](mailto:info@summitanchor.com)



## SUMMIT ANCHOR - GROUND RIGGED DAVIT FOR SWING STAGE OPERATIONS

### GENERAL NOTES

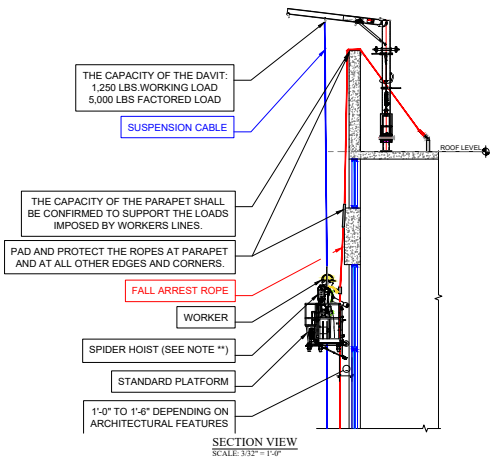
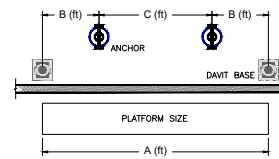
- DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
- EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
- PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGLED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

"OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

### "SPIDER PLATFORM SPECIFICATIONS

- PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD
- THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

STANDARD LAYOUT FOR DAVIT AND ANCHOR		
SPACING DAVIT TO	SPACING ANCHOR TO	SPACING ANCHOR TO
DAVIT	DAVIT	ANCHOR
A (ft)	B (ft)	C (ft)
10	8	6
15	12	10
20	16	14
25	20	18
30	24	22



**Summit Anchor Co.**  
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Tel: 301.874.4941, Fax: 301.620.9819  
www.summitanchor.com

DATE	10-1-2019
DESIGN BY	M. Arnold
DESIGNED BY	12-08-2019
APPROVED BY	12-08-2019

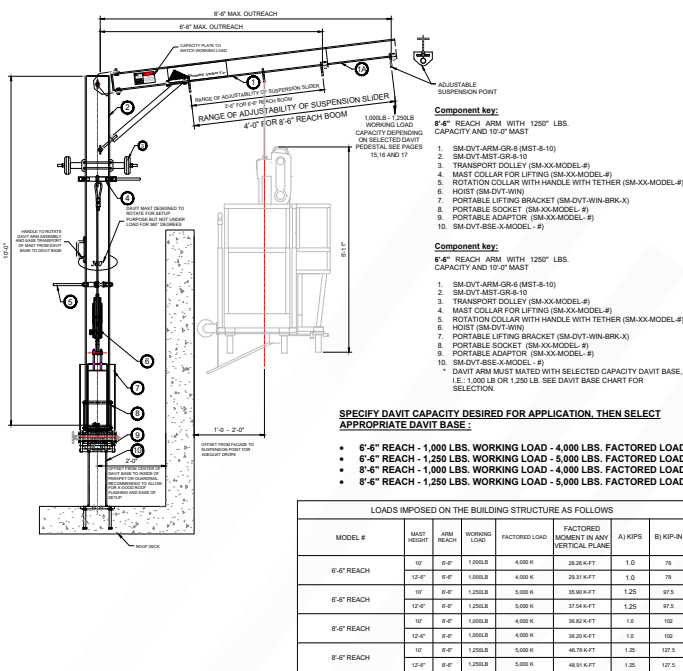
DAVIT TEMPLATES GUIDE FOR GROUND RIGGED PLATFORM

**A-6**

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ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-8-10)	Davit Arm, 6'-6" reach, Mast -10' top-rotating for roof launch, 1,000#, w/slider, FED OSHA	
		SM-DVT-ARM-GR-8 (MST-8-10)	Davit Arm, 8'-6" reach, Mast -10' height for ground-launch, 1,250#, w/slider, FED OSHA	
2	Davit, Component; Mast	SM:SM-DVT-MST-TR-8-10	Davit Mast, Aluminum 8-5/8" Dia. X 10'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3/5	Davit, Rotation Equipment	SM:SM-DVT-RCO-8	Davit; Rotation Collar with Handle for ground rigged and top-rotating arm, galv.	
4	Davit, Transport Equipment	SM:SM-DVT-DOL-8	Davit; Drolley with casters for transport of ground rigged and top-rotating arm, galv.	
6	Davit, Lifting Equipment	SM:SM-DVT-WIN	Davit Winch: to raise/lower top-rotating arm, Tractel Model# T-17 requires lifting bracket	
7	Davit, Lifting Equipment	SM:SM-DVT-WIN-BRK-GR	Davit Winch Attachment Bracket; for pedestal socket and top-rotating arm, galv.	
8	Davit Sockets & Adaptors for Ground Rigged	SM-DVT-ADP-R-8	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/ Adaptor)	
		SM-DVT-SKP-P-1000	Davit Portable Adaptor: for socket and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Socket)	
6'-6" Reach Boom with 10'-0" Mast Height			<b>TOTAL PER ARM ASSEMBLY:</b> includes 10'-0" Mast and Socket	
8'-6" Reach Boom with 10'-0" Mast Height			<b>TOTAL PER ARM ASSEMBLY:</b> With 5'-0" Mast includes 10'-0" Mast and Socket	

### SPIDER PLATFORM SPECIFICATION:

PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD,  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST  
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST  
THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66



CONTACT US FOR MORE INFORMATION:



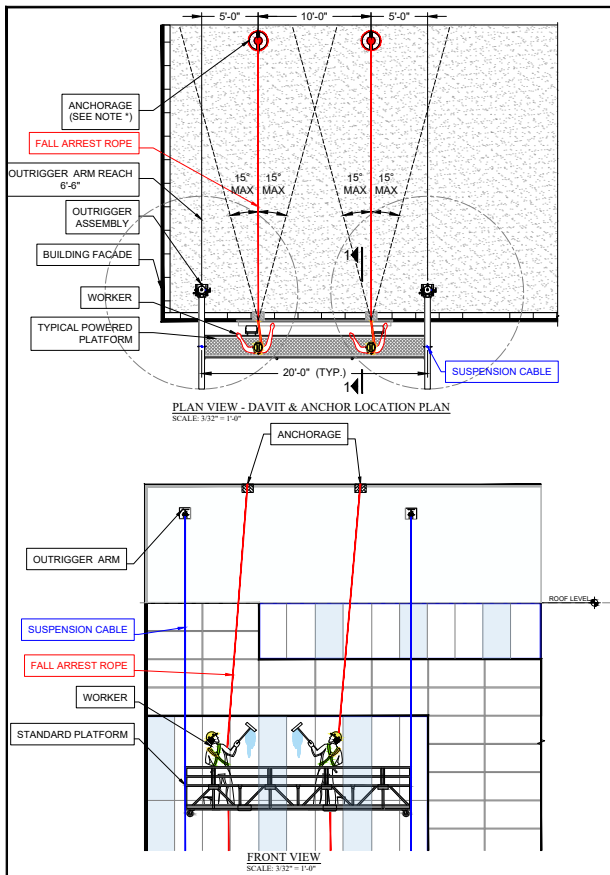
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## SUMMIT ANCHOR - GROUND RIGGED DAVIT

### GENERAL NOTES

1. DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
2. EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
3. PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGLED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

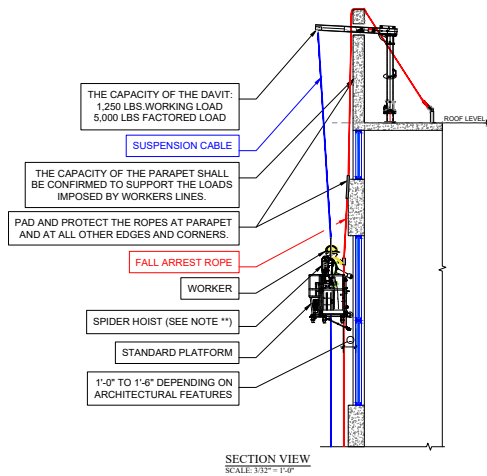
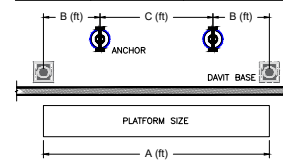
\*OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

### \*SPIDER PLATFORM SPECIFICATIONS

- IF SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

SPACING DAVIT TO DAVIT	SPACING ANCHOR TO DAVIT	SPACING ANCHOR TO ANCHOR
DAVIT (ft)	B (ft)	C (ft)
10	2.50	5.00
15	3.75	7.50
20	5.00	10.00
25	6.25	12.50
30	7.50	15.00
35	8.75	17.50
40	10.00	20.00
45	11.25	22.50
50	12.50	25.00

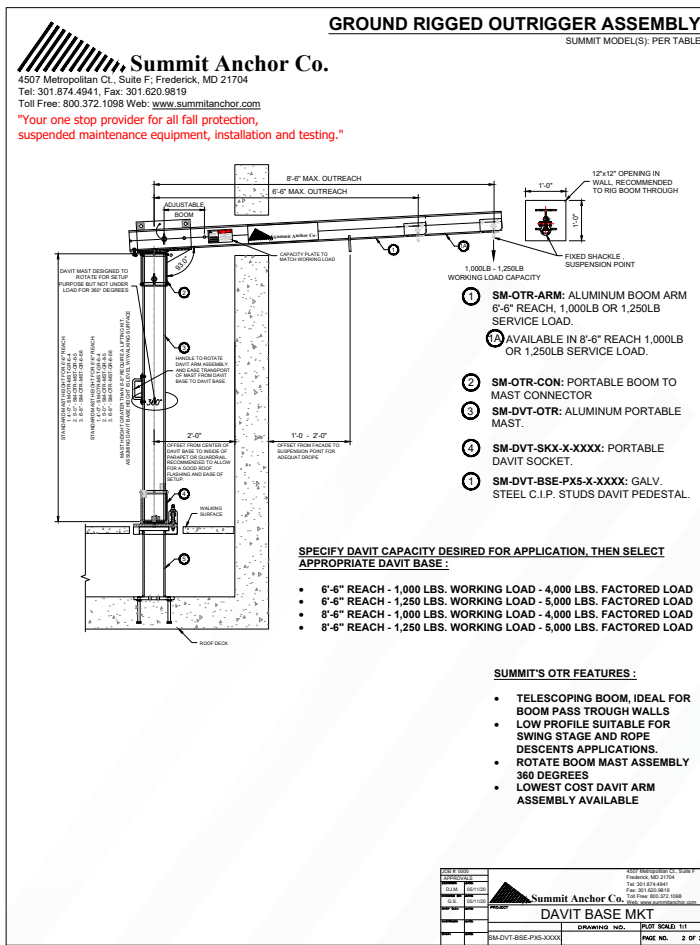


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DATE	REV	DESCRIPTION
10/10/2018	1	ISSUED FOR BIDDING
10/10/2018	2	REVISED FOR BIDDING
10/10/2018	3	REVISED FOR BIDDING

DAVIT TEMPLATE GUIDE FOR GROUND RIGGED PLATFORM

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ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Telescoping Ground Rigged Arm/Mast	SM-OTR-ARM-GR-6 (MST-6-5)	Telescoping Davit Arm, 6'-6" reach, Mast- 5' height for ground-launch, 1,250#, w/suspension slider, FED	
		SM-OTR-ARM-GR-8 (MST-8-5)	Telescoping Davit Arm, 8'-6" reach, Mast- 5' height for ground-launch, 1,250#, w/suspension slider, FED	
2	Davit, Component; Mast	SM:SM-OTR-MAST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM:SM-OTR-MAST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM:SM-OTR-MAST-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 8'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit Sockets & Adaptors for Ground Rigged	SM:SM-DVT-SKX-8-1000	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
		SM:SM-DVT-SKX-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
6'-6" Reach Boom with 10'-0" Mast Height				TOTAL PER ARM ASSEMBLY Includes 10'-0" Mast and Socket
8'-6" Reach Boom with 10'-0" Mast Height				

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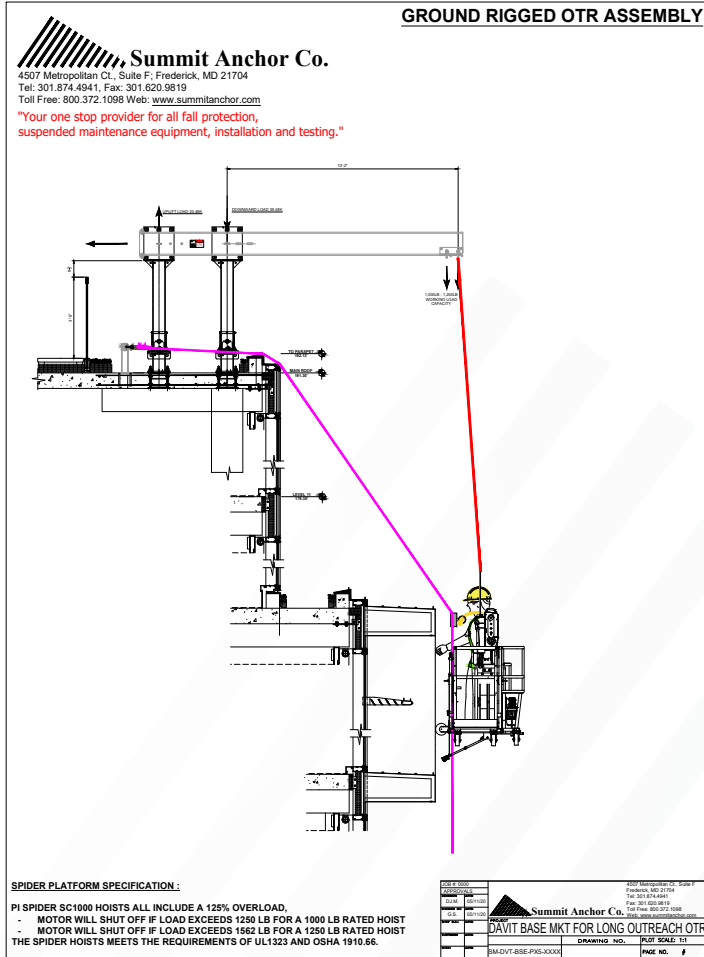
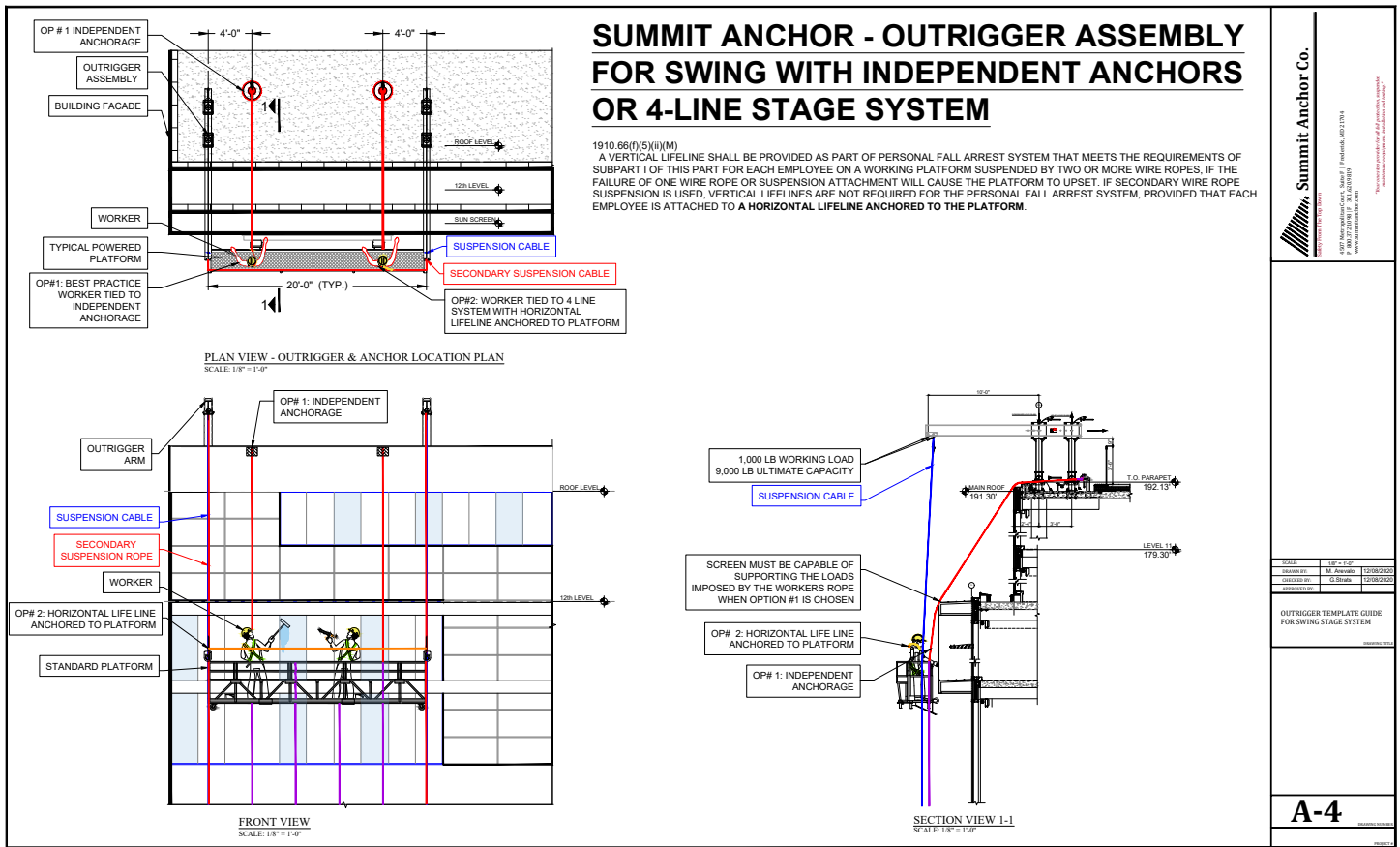


(800) 372-1098



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# SUMMIT ANCHOR - GROUND RIGGED DAVIT FOR SWING STAGE OPERATIONS

## GENERAL NOTES

1. DAVIT SPACING MAY VARY DEPENDING ON ROOF CONDITIONS; HOWEVER, SPACING SHOULD BE KEPT AS CONSISTENT AS POSSIBLE TO ALLOW FOR STANDARD POWERED PLATFORM LENGTH.
2. EACH WORKER MUST BE INDEPENDENTLY TIED TO AN ANCHOR ON THE ROOF OR INDEPENDENTLY TIED TO RIGGING SLEEVE.
3. PLACEMENT OF DAVITS AND ROOF ANCHORS SHALL ALLOW CABLES SUSPENDING POWERED PLATFORM TO HANG PARALLEL AND IN PLANE OR SLIGHTLY ANGLED WITH THE BUILDING WHEN IN USE AND TO ALLOW THE PLATFORM TO PRESS FIRMLY AGAINST THE BUILDING DURING ITS VERTICAL TRAVEL.

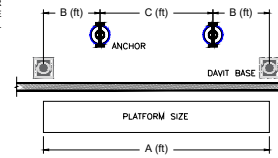
OSHA'S SUBPART D - WALKING - WORKING SURFACES REQUIRES "EACH EMPLOYEE TO USE A SEPARATE INDEPENDENT FALL ARREST SYSTEM." THIS MEANS THAT EACH WORKER MUST HAVE THEIR OWN PRIMARY SUPPORT LINE CONNECTED TO ONE ANCHORAGE AND AN INDEPENDENT FALL ARREST SYSTEM CONNECTED TO AN INDEPENDENT ANCHORAGE. AN INDEPENDENT FALL ARREST ANCHORAGE IS REQUIRED FOR RDS.

## "SPIDER" PLATFORM SPECIFICATIONS

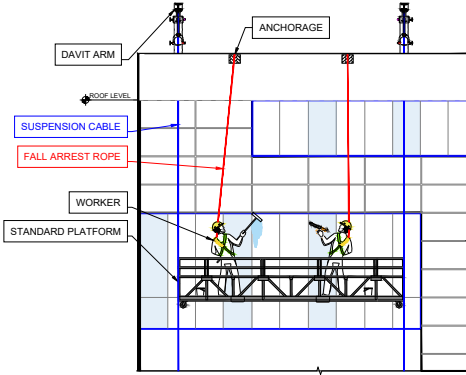
- PI SPIDER SC1000 HOIST ALL INCLUDE A 125% OVERLOAD
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,250 LB FOR A 1,000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1,562 LB FOR A 1,250 LB RATED LOAD.

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

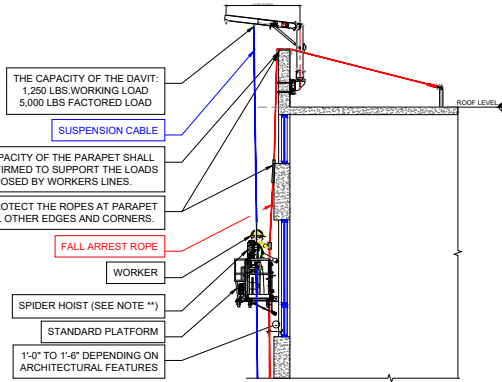
STANDARD LAYOUT FOR DAVIT AND ANCHOR		
SPACING DAVIT TO DAVIT	SPACING ANCHOR TO DAVIT	SPACING ANCHOR TO ANCHOR
DAVIT A (ft)	DAVIT B (ft)	ANCHOR C (ft)
15	2.50	5.00
15	2.75	7.50
20	5.00	10.00
25	6.25	12.50
30	7.50	15.00



PLAN VIEW - DAVIT & ANCHOR LOCATION PLAN  
SCALE: 3/32" = 1'-0"



FRONT VIEW  
SCALE: 3/32" = 1'-0"



SECTION VIEW  
SCALE: 3/32" = 1'-0"

Summit Anchor Co.

SCALE	3/32" = 1'-0"
DRAWN BY	M. Arnold
CHECKED BY	G. Davis
DATE	12/08/2020

DAVIT TEMPLATE GUIDE FOR GROUND RIGGED PLATFORM

A-8

## DAVIT ARM ASSEMBLY FOR GROUND RIGGED SWING STAGE

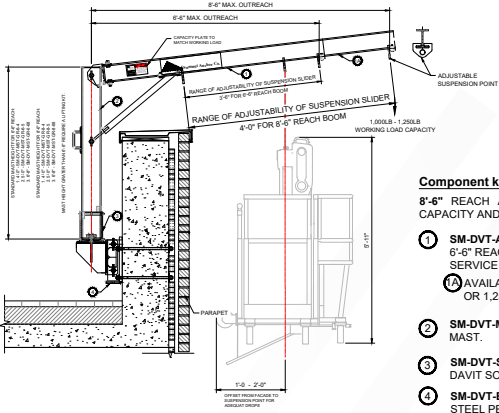
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4507 Metropolitan Ct., Suite F, Frederick, MD 21704

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## Component key:

8'-6" REACH ARM WITH 1250\* LBS. CAPACITY AND 5'-0" MAST

1. SM-DVT-ARM: ALUMINUM BOOM ARM 6'-6" REACH, 1,000LB OR 1,250LB SERVICE LOAD.
2. SM-DVT-MST: ALUMINUM PORTABLE MAST.
3. SM-DVT-SKX-X-XXXX: PORTABLE DAVIT SOCKET.
4. SM-DVT-BSE-PX5-X-XXXX: GALV. STEEL PERMANENT C.I.P. DAVIT PEDESTAL.

ITEM	CATEGORY	MODEL NUMBER	DESCRIPTION	WEIGHT
1	Davit Ground Rigged Arm/Mast	SM-DVT-ARM-GR-6 (MST-6-5)	Davit Arm, 6'-6" reach, Mast -5' height for ground-launch, 1,250#, w/suspension slider, FED	
		SM-DVT-ARM-GR-8 (MST-8-5)	Davit Arm, 8'-6" reach, Mast -5' height for ground-launch, 1,250#, w/suspension slider, FED	
2	Davit, Component; Mast	SM:SM-DVT-MAST-8-4	Davit Mast, Aluminum 8-5/8" Dia. X 4'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM:SM-DVT-MAST-8-5	Davit Mast, Aluminum 8-5/8" Dia. X 5'-0" Tall, for mating with SM-DVT-ARM-8-1250	
		SM:SM-DVT-MAST-8-6	Davit Mast, Aluminum 8-5/8" Dia. X 8'-0" Tall, for mating with SM-DVT-ARM-8-1250	
3	Davit Sockets & Adaptors for Ground Rigged	SM:SM-DVT-SKT-W-6-1250	Davit Portable Socket: for adaptor and mast, ground launch, 6'-6" reach, 1,250#, or 6'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
		SM:SM-DVT-SKT-W-8-1250	Davit Portable Socket: for adaptor and mast, ground launch, 8'-6" reach, 1,250#, or 8'-6" reach 1,000# FED, galv (Mates W/Adaptor)	
6'-6" Reach Boom with 5'-0" Mast Height			TOTAL PER ARM ASSEMBLY	
8'-6" Reach Boom with 5'-0" Mast Height				

## SPIDER PLATFORM SPECIFICATION:

- PI SPIDER SC1000 HOISTS ALL INCLUDE A 125% OVERLOAD,
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1250 LB FOR A 1000 LB RATED HOIST
- MOTOR WILL SHUT OFF IF LOAD EXCEEDS 1562 LB FOR A 1250 LB RATED HOIST

THE SPIDER HOIST MEETS THE REQUIREMENTS OF UL1323 AND OSHA 1910.66

DAVIT BASE MKT FOR WALL DAVIT	DAVIT BASE MKT FOR WALL DAVIT
SM-DVT-BSE-PX5-XXXX	SM-DVT-BSE-PX5-XXXX
DAVIT BASE MKT FOR WALL DAVIT	DAVIT BASE MKT FOR WALL DAVIT

CONTACT US FOR MORE INFORMATION:

[www.summitanchor.com](http://www.summitanchor.com)

(800) 372-1098

[info@summitanchor.com](mailto:info@summitanchor.com)



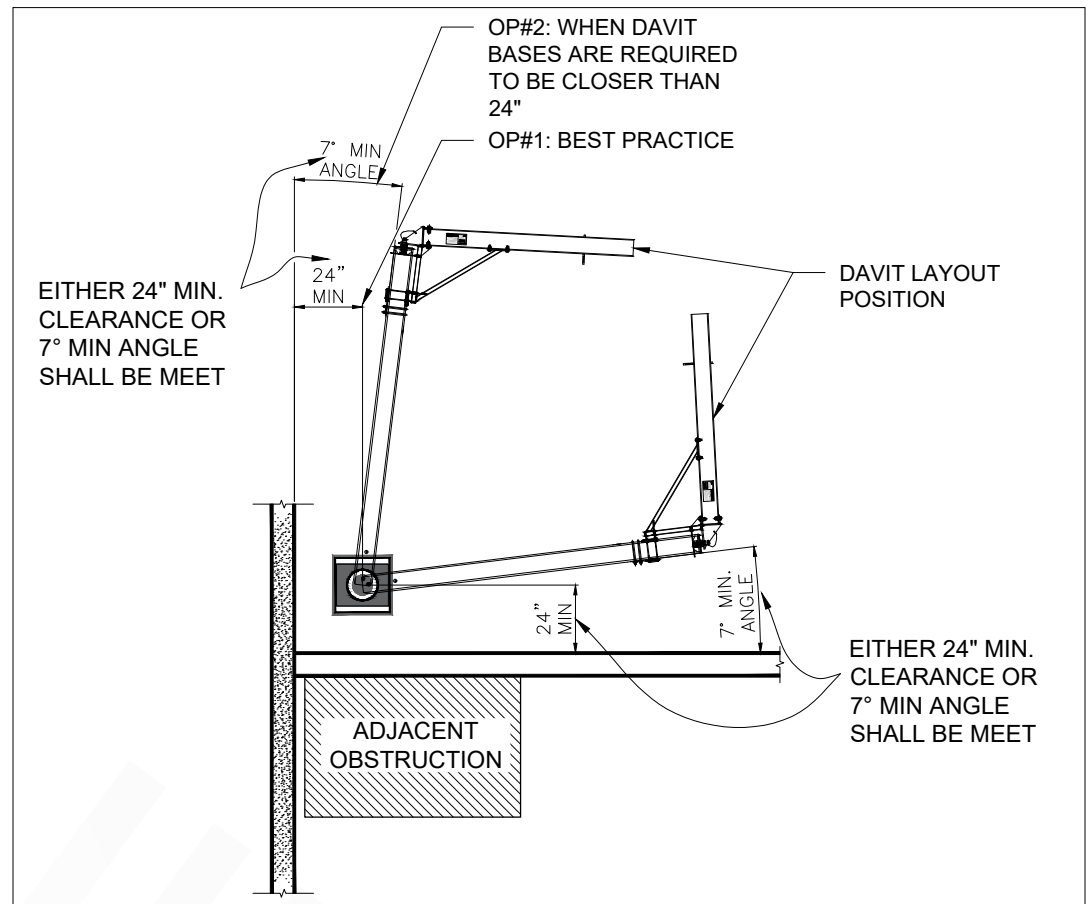
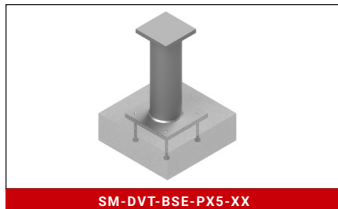
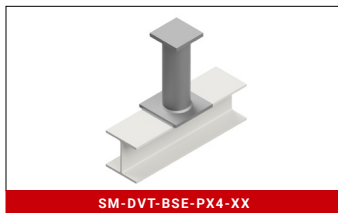
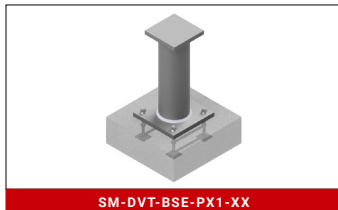
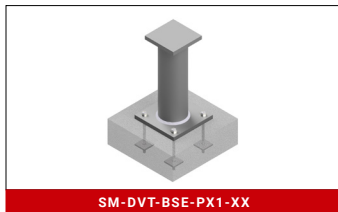


# Davit Pedestal Introduction

Summit's davit pedestal may be used interchangeably as recessed under walking surfaces such as roof pavers or extended above the roof surface. A davit cap (SM-CAP-DVT) is placed over a square hole in the deck or paver. A davit base may be mounted to a structurally adequate wall to avoid penetrating the roof.

Davit pedestal bases are permanently secured to the building's structure. Summit Anchor Company's davit pedestal bases can be secured to concrete slabs or steel beams using various methods:

- cast in place base
- cast in place davit cages
- welding to steel beams
- bolting through concrete





Summit Anchor Co. 4507 Metropolitan Ct., Suite F, Frederick, MD 21704 Tel: 301.874.4941, Fax: 301.620.9819

SUMMIT STANDARD C.I.P STUD DAVITS SUMMIT MODEL(S): PER TABLE

1'-8" (Tp) (Bp) (Ms) (Ed) (Ss) ROOF DECK

42" MIN. HEIGHT OR FALL PROTECTION MUST BE INCLUDED

DESIGN GUIDELINES:

1. DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL, OSHA REGULATIONS, AMERICAN WELDING SOCIETY 'AWS', AND THE I-4 WINDOW CLEANING SAFETY STANDARD.

2. WHEN INSTALLED PROPERLY, SUMMIT DAVIT PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:

4. WORKING LOAD PER TABLE (WORKING/UNWEIGHED LOAD)

5. 2 X WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)

6. 4 X WORKING LOAD PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)

CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:

1. ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.

2. THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IWC-4 WINDOW CLEANING SAFETY STANDARD).

DAVIT BASE MODEL # GUIDE: SM-DVT-BSE-PX5-12-20-78-06

(5) 06 = STUD DIAMETER (Ss)  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

3. PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.

4. ENSURING THAT THE APPLICATION IN WHICH THE DAVITS ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, BREAK, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE DAVIT PEDESTAL TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT NOT LIMITED TO THE INTEGRITY OF STRUCTURE, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, ADHESIVE OR MECHANICAL DAVITS FASTENERS, REINFORCING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.

5. ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY D.H. CHARLES ENGINEERING, INC. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS. IT DOES NOT CONSTITUTE AN ENDORSEMENT OF THE EXISTING OR PROPOSED BUILDING CONSTRUCTION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

1 SM-DVT-BSE-PX5-X-XXXX: GALV. STEEL C.I.P. STUDS DAVIT PEDESTAL.

MATERIAL DESIGNATION:

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

Summit Anchor Co. SUMMIT STANDARD C.I.P STUD DAVITS

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SUMMIT STANDARD C.I.P STUD DAVITS SUMMIT MODEL(S): PER TABLE

IBC 2012

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	6.35"	7"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	5.75"	6.50"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	5.25"	6.00"										
SM-DVT-ARM-6			4000 PSI	6.00"	6.75"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	5.50"	6.25"	14"x14"x1"	11"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	4.875"	5.625"										
SM-DVT-ARM-8			4000 PSI	5.75"	6.50"										
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	5.25"	6.00"	15"x15"x1"	12"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	7/16"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	4.75"	5.50"										
SM-DVT-ARM-8			4000 PSI	5.25"	6.00"										
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	4.875"	5.625"	18"x18"x1"	15"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	4.625"	5.375"										

IBC 2015 & 2018

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	7.25"	8.50"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	7.00"	7.25"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	6.50"	7.25"										
SM-DVT-ARM-6			4000 PSI	6.25"	7.00"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	5.75"	6.50"	14"x14"x1"	11"	PIPE 6 STD	8-3/4"x8-3/4"x1"	7/16"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	5.25"	6.00"										
SM-DVT-ARM-8			4000 PSI	7.25"	8.00"										
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	6.75"	7.50"	15"x15"x1"	12"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	6.25"	7.00"										
SM-DVT-ARM-8			4000 PSI	6.75"	7.50"										
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	6.25"	7.00"	18"x18"x1"	15"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	9/16"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	5.75"	6.50"										

DAVIT BASE MODEL # GUIDE: SM-DVT-BSE-PX5-12-20-78-06

(5) 06 = STUD DIAMETER (Ss)  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

Summit Anchor Co. SUMMIT STANDARD C.I.P STUD DAVITS

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SUMMIT STANDARD C.I.P STUD DAVITS SUMMIT MODEL(S): PER TABLE

"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."

IBC 2012 - 12"x12" BASE PLATE

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	7.25"	8"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	6.75"	7.50"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	6.25"	7.00"										
SM-DVT-ARM-6			4000 PSI	8.25"	9"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	7.75"	8.5"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	7.25"	8"										
SM-DVT-ARM-8			4000 PSI	8.75"	9.6"										
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	8.25"	9.0"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	7/16"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	7.50"	8.25"										
SM-DVT-ARM-8			4000 PSI	9.25"	10.25"	12"x12"x1"	9"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	8.75"	9.75"										
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	9"	9.75"										

IBC 2015 & 2018 - 12"x12" BASE PLATE

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	8.75"	9.5"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	8.00"	8.75"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	6.50"	7.25"										
SM-DVT-ARM-6			4000 PSI	9.25"	10.5"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	8.25"	10.5"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	8.25"	10"										
SM-DVT-ARM-8			4000 PSI	10"	10.75"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	7/16"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	9.50"	10.25"										
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	9.50"	10.25"										
SM-DVT-ARM-8			4000 PSI	10.25"	11.50"	12"x12"x1"	9"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	9.5"	10.25"										
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	10.75"	11.50"										

DAVIT BASE MODEL # GUIDE: SM-DVT-BSE-PX5-12-20-78-06

(5) 06 = STUD DIAMETER (Ss)  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

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IBC 2012 - 12"x12" BASE PLATE

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	7.25"	8"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	6.75"	7.50"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	6.25"	7.00"										
SM-DVT-ARM-6			4000 PSI	8.25"	9"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	7.75"	8.5"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	7.25"	8"										
SM-DVT-ARM-8			4000 PSI	8.75"	9.6"										
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	8.25"	9.0"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	7/16"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	7.50"	8.25"										
SM-DVT-ARM-8			4000 PSI	9.25"	10.25"	12"x12"x1"	9"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	8.75"	9.75"										
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	9"	9.75"										

IBC 2015 & 2018 - 12"x12" BASE PLATE

SUMMIT STANDARD C.I.P STUD PEDASTAL MODELS WITH 10' MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EFF. EMBEDMENT DEPTH	MIN. SLAB THICKNESS	(Bp) BASE PLATE SIZE	(Ts) STUD SPACING	(Pp) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Sw) STUD WELD SIZE	(Ss) STUD SIZE	(Ed) MIN. SLAB EDGE DISTANCE	(Rd) REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6			4000 PSI	8.75"	9.5"										
SM-DVT-SKX-6	6'-4"	1000 lbs.	5000 PSI	8.00"	8.75"	12"x12"x0.78"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-BSE-PX5-12-20-78-07			6000 PSI	6.50"	7.25"										
SM-DVT-ARM-6			4000 PSI	9.25"	10.5"										
SM-DVT-SKX-6	6'-4"	1250 lbs.	5000 PSI	8.25"	10.5"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/8"	7/8"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-BSE-PX5-14-20-1-07			6000 PSI	8.25"	10"										
SM-DVT-ARM-8			4000 PSI	10"	10.75"	12"x12"x1"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1.5"	7/16"	3/8"	7/8"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-SKX-8	8'-4"	1000 lbs.	5000 PSI	9.50"	10.25"										
SM-DVT-BSE-PX5-15-20-1-07			6000 PSI	9.50"	10.25"										
SM-DVT-ARM-8			4000 PSI	10.25"	11.50"	12"x12"x1"	9"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1.5"	1/2"	3/8"	7/8"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SKX-8	8'-4"	1250 lbs.	5000 PSI	9.5"	10.25"										
SM-DVT-BSE-PX5-18-20-1-07			6000 PSI	10.75"	11.50"										

DAVIT BASE MODEL # GUIDE: SM-DVT-BSE-PX5-12-20-78-06

(5) 06 = STUD DIAMETER (Ss)  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

Summit Anchor Co. SUMMIT STANDARD C.I.P STUD DAVITS

CONTACT US FOR MORE INFORMATION:




www.summitanchor.com



(800) 372-1098



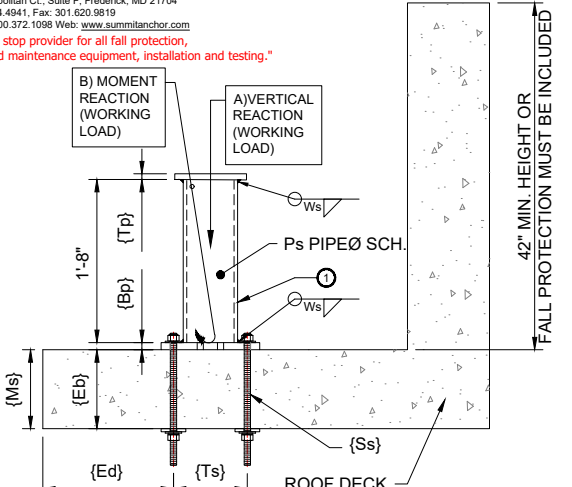
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## SUMMIT STANDARD BOLT-THRU DAVITS

SUMMIT MODEL(S): PER TABLE




**DESIGN GUIDELINES:**

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS, AMERICAN WELDING SOCIETY "AWS" AND THE I-14 WINDOW CLEANING SAFETY STANDARDS.
- WHEN INSTALLED PROPERLY, SUMMIT DAVITS PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:  
a) WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)  
b) 2 X WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)  
c) 4 X WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)
- CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:**  
1. ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.  
2. THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUPPORTED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G., SEE IWCA I-14.1).  
**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX1-12-20-78-06
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE DAVIT(S) IS/ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWING INCLUDING MOMENT, SHEAR, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE DAVIT/FEDERAL TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT NOT LIMITED TO THE INTEGRITY OF STRUCTURE, FIELD CONNECTION DETAILS (INCLUDING ANY FIELD WELDS), ADHESIVE OR MECHANICAL FASTENERS, REINFORCING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY D.J. CHARLES ENGINEERING, INC. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THESE PLANS AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

**MATERIAL DESIGNATION:**

- ALL PLATES: ASTM A5720 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

**SM-DVT-BSE-PX1-X-XXXX: GALV. STEEL BOLT-THRU DAVIT PEDESTAL WITH BACK PLATE**




**SUMMIT STANDARD BOLT-THRU DAVITS**

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(Bp) BASE PLATE SIZE	(Ts) THREADS & ROD SPACING	(Ps) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Ss) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(A) VERTICAL REACTION (WORKING LOAD)	(B) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-6"	1000 lbs	4000 PSI	6.25	6.25	27"x12"x7/8"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-SXK-6			5000 PSI	5.50	5.50									
SM-DVT-BSE-PX1-12-20-78-07			6000 PSI	5.00	5.00									
SM-DVT-ARM-6	6'-6"	1250 lbs	4000 PSI	5.75	5.75	14"x14"x1"	11"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-SXK-6			5000 PSI	5.25	5.25									
SM-DVT-BSE-PX1-14-20-1-07			6000 PSI	4.75	4.75									
SM-DVT-ARM-8	8'-6"	1000 lbs	4000 PSI	5.50	5.50	15"x15"x1"	12"	PIPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-SXK-8			5000 PSI	5.00	5.00									
SM-DVT-BSE-PX1-15-20-1-07			6000 PSI	4.50	4.50									
SM-DVT-ARM-8	8'-6"	1250 lbs	4000 PSI	5.00	5.00	18"x18"x1"	15"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SXK-8			5000 PSI	4.75	4.75									
SM-DVT-BSE-PX1-18-20-1-07			6000 PSI	4.50	4.50									

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX1-12-20-78-06

(5) 06 = HOLE DIA. FOR BOLT ON APPLICATION  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE


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## SUMMIT STANDARD BOLT-THRU DAVITS

SUMMIT MODEL(S): PER TABLE



**IBC 2012**

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(Bp) BASE PLATE SIZE	(Ts) THREADS & ROD SPACING	(Ps) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Ss) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(A) VERTICAL REACTION (WORKING LOAD)	(B) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-6"	1000 lbs	4000 PSI	6.25	6.25	27"x12"x7/8"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-SXK-6			5000 PSI	5.50	5.50									
SM-DVT-BSE-PX1-12-20-78-07			6000 PSI	5.00	5.00									
SM-DVT-ARM-6	6'-6"	1250 lbs	4000 PSI	5.75	5.75	14"x14"x1"	11"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-SXK-6			5000 PSI	5.25	5.25									
SM-DVT-BSE-PX1-14-20-1-07			6000 PSI	4.75	4.75									
SM-DVT-ARM-8	8'-6"	1000 lbs	4000 PSI	5.50	5.50	15"x15"x1"	12"	PIPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-SXK-8			5000 PSI	5.00	5.00									
SM-DVT-BSE-PX1-15-20-1-07			6000 PSI	4.50	4.50									
SM-DVT-ARM-8	8'-6"	1250 lbs	4000 PSI	5.00	5.00	18"x18"x1"	15"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SXK-8			5000 PSI	4.75	4.75									
SM-DVT-BSE-PX1-18-20-1-07			6000 PSI	4.50	4.50									

**IBC 2015 & 2018**

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(Bp) BASE PLATE SIZE	(Ts) THREADS & ROD SPACING	(Ps) PEDESTAL SIZE	(Tp) TOP PLATE SIZE	(Wp) WELD SIZE	(Ss) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(A) VERTICAL REACTION (WORKING LOAD)	(B) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-6"	1000 lbs	4000 PSI	7.75	7.75	27"x12"x7/8"	9"	PIPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN
SM-DVT-SXK-6			5000 PSI	7.00	7.00									
SM-DVT-BSE-PX1-12-20-78-07			6000 PSI	6.50	6.50									
SM-DVT-ARM-6	6'-6"	1250 lbs	4000 PSI	7.50	7.5	14"x14"x1"	11"	PIPE 6 STD	8-3/4"x8-3/4"x1"	7/16"	3/4"	18"	1.25 KIPS	97.5 KIP-IN
SM-DVT-SXK-6			5000 PSI	7.00	7.00									
SM-DVT-BSE-PX1-14-20-1-07			6000 PSI	6.50	6.50									
SM-DVT-ARM-8	8'-6"	1000 lbs	4000 PSI	7.25	7.25	15"x15"x1"	12"	PIPE 6 STD	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.0 KIPS	102.0 KIP-IN
SM-DVT-SXK-8			5000 PSI	6.75	6.75									
SM-DVT-BSE-PX1-15-20-1-07			6000 PSI	6.25	6.25									
SM-DVT-ARM-8	8'-6"	1250 lbs	4000 PSI	6.75	6.75	18"x18"x1"	15"	PIPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	9/16"	3/4"	18"	1.25 KIPS	127.5 KIP-IN
SM-DVT-SXK-8			5000 PSI	6.25	6.25									
SM-DVT-BSE-PX1-18-20-1-07			6000 PSI	5.75	5.75									

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX1-12-20-78-06

(5) 06 = HOLE DIA. FOR BOLT ON APPLICATION  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

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**SUMMIT STANDARD CAGE MOUNTED DAVITS**  
SUMMIT MODEL(S): PER TABLE

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SM-DVT-CGE: Davit cage before and after pouring of concrete slab



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**IBC 2012: VARYING BASEPLATE SIZES**

SUMMIT STANDARD CAGE MOUNTED PEDASTAL MODELS WITH 10" MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(B) BASE PLATE SIZE	(T) THREADED ROD SPACING	(P) PEDASTAL SIZE	(Tp) TOP PLATE SIZE	(W) WELD SIZE	(S) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(Bd) MIN. SLAB EDGE DISTANCE	(V) VERTICAL REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-0"	1000 lb	4000 PSI	6.25	6.875	12"x12"x7/8"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN	
SM-DVT-SK-6			5000 PSI	5.50	6.875										
SM-DVT-BSE-PX1-12-20-78-06			6000 PSI	5.00	5.875										
SM-DVT-ARM-6	6'-0"	1250 lb	4000 PSI	5.75	6.4375	14"x14"x1"	11"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.25 KIPS	97.5 KIP-IN	
SM-DVT-SK-6			5000 PSI	5.25	5.9375										
SM-DVT-BSE-PX1-14-20-1-06			6000 PSI	4.75	5.4375										
SM-DVT-ARM-8	8'-0"	1000 lb	4000 PSI	5.00	6.875	15"x15"x1"	12"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN	
SM-DVT-SK-8			5000 PSI	4.50	6.875										
SM-DVT-BSE-PX1-15-20-3-06			6000 PSI	4.50	5.875										
SM-DVT-ARM-8	8'-0"	1250 lb	4000 PSI	5.00	5.875	18"x18"x1"	15"	PPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN	
SM-DVT-SK-8			5000 PSI	4.75	5.4375										
SM-DVT-BSE-PX1-18-20-1-06			6000 PSI	4.50	5.875										

**IBC 2012: 12"x12" BASEPLATE SIZES**

SUMMIT STANDARD CAGE MOUNTED PEDASTAL MODELS WITH 10" MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(B) BASE PLATE SIZE	(T) THREADED ROD SPACING	(P) PEDASTAL SIZE	(Tp) TOP PLATE SIZE	(W) WELD SIZE	(S) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(Bd) MIN. SLAB EDGE DISTANCE	(V) VERTICAL REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-0"	1000 lb	4000 PSI	6.25	6.875	12"x12"x7/8"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN	
SM-DVT-SK-6			5000 PSI	5.50	6.875										
SM-DVT-BSE-PX1-12-20-78-06			6000 PSI	5.00	5.875										
SM-DVT-ARM-6	6'-0"	1250 lb	4000 PSI	7.25	7.9375	12"x12"x1"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.25 KIPS	97.5 KIP-IN	
SM-DVT-SK-6			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-12-20-1-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1000 lb	4000 PSI	7.25	6.4375	12"x12"x1"	9"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN	
SM-DVT-SK-8			5000 PSI	7.00	7.875										
SM-DVT-BSE-PX1-12-20-3-06			6000 PSI	6.50	7.375										
SM-DVT-ARM-8	8'-0"	1250 lb	4000 PSI	"ONE"	"ONE"	12"x12"x1"	9"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-12-20-1-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1000 lb	4000 PSI	7.25	7.9375	15"x15"x1"	12"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-15-20-3-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1250 lb	4000 PSI	6.75	7.4375	18"x18"x1"	15"	PPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.25	6.9375										
SM-DVT-BSE-PX1-18-18-1-07			6000 PSI	5.75	6.4375										

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX1-12-20-78-06

(5) 06 = HOLE DIA. FOR BOLT ON APPLICATION  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

**SUMMIT STANDARD CAGE MOUNTED DAVITS**  
SUMMIT MODEL(S): PER TABLE

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**IBC 2015 & 2018: 12"x12" BASEPLATE SIZES**

SUMMIT STANDARD CAGE MOUNTED PEDASTAL MODELS WITH 10" MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(B) BASE PLATE SIZE	(T) THREADED ROD SPACING	(P) PEDASTAL SIZE	(Tp) TOP PLATE SIZE	(W) WELD SIZE	(S) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(Bd) MIN. SLAB EDGE DISTANCE	(V) VERTICAL REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-0"	1000 lb	4000 PSI	7.75	8.4375	12"x12"x7/8"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN	
SM-DVT-SK-6			5000 PSI	7.00	7.6875										
SM-DVT-BSE-PX1-12-20-78-06			6000 PSI	6.50	7.1875										
SM-DVT-ARM-6	6'-0"	1250 lb	4000 PSI	"ONE"	"ONE"	12"x12"x1"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	7/16"	3/4"	18"	1.25 KIPS	97.5 KIP-IN	
SM-DVT-SK-6			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-12-20-3-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1000 lb	4000 PSI	"ONE"	"ONE"	12"x12"x1"	9"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.50	7.1875										
SM-DVT-BSE-PX1-12-20-3-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1250 lb	4000 PSI	"ONE"	"ONE"	12"x12"x1"	9"	PPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-12-20-118-06			6000 PSI	6.25	6.9375										

**IBC 2015 & 2018: VARYING BASEPLATE SIZES**

SUMMIT STANDARD CAGE MOUNTED PEDASTAL MODELS WITH 10" MAX. MAST\*\*

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	EMBEDMENT DEPTH (IN.)	MIN. SLAB THICKNESS (IN.)	(B) BASE PLATE SIZE	(T) THREADED ROD SPACING	(P) PEDASTAL SIZE	(Tp) TOP PLATE SIZE	(W) WELD SIZE	(S) THREADED ROD DIA.	(Ed) MIN. SLAB EDGE DISTANCE	(Bd) MIN. SLAB EDGE DISTANCE	(V) VERTICAL REACTION (WORKING LOAD)	(M) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6	6'-0"	1000 lb	4000 PSI	7.75	8.4375	12"x12"x7/8"	9"	PPE 6 STD	8-3/4"x8-3/4"x1"	3/8"	3/4"	18"	1.0 KIPS	78.0 KIP-IN	
SM-DVT-SK-6			5000 PSI	7.00	7.6875										
SM-DVT-BSE-PX1-12-20-78-06			6000 PSI	6.50	7.1875										
SM-DVT-ARM-6	6'-0"	1250 lb	4000 PSI	7.50	8.1875	14"x14"x1"	11"	PPE 6 STD	8-3/4"x8-3/4"x1"	7/16"	3/4"	18"	1.25 KIPS	97.5 KIP-IN	
SM-DVT-SK-6			5000 PSI	7.00	7.6875										
SM-DVT-BSE-PX1-14-20-1-06			6000 PSI	6.50	7.1875										
SM-DVT-ARM-8	8'-0"	1000 lb	4000 PSI	7.25	7.9375	15"x15"x1"	12"	PPE 6 STD	8-3/4"x8-3/4"x1-1/8"	7/16"	3/4"	18"	1.0 KIPS	102.0 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.75	7.4375										
SM-DVT-BSE-PX1-15-20-3-06			6000 PSI	6.25	6.9375										
SM-DVT-ARM-8	8'-0"	1250 lb	4000 PSI	6.75	7.4375	18"x18"x1"	15"	PPE 6 X-STRONG	8-3/4"x8-3/4"x1-1/8"	1/2"	3/4"	18"	1.25 KIPS	127.5 KIP-IN	
SM-DVT-SK-8			5000 PSI	6.25	6.9375										
SM-DVT-BSE-PX1-18-18-1-07			6000 PSI	5.75	6.4375										

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX1-12-20-78-06

(5) 06 = HOLE DIA. FOR BOLT ON APPLICATION  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (Th)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE



**Summit Anchor Co.**  
4507 Metropolitan Ct., Suite F, Frederick, MD 21704  
Tel: 301.874.4941, Fax: 301.620.9819  
Toll Free: 800.372.1098 Web: [www.summitanchor.com](http://www.summitanchor.com)

**"Your one stop provider for all fall protection, suspended maintenance equipment, installation and testing."**

**SUMMIT STANDARD WELD ON DAVITS**  
SUMMIT MODEL(S): PER TABLE

**DESIGN GUIDELINES:**

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS, AMERICAN WELDING SOCIETY "AWS", AND THE I-14 WINDOW CLEANING SAFETY STANDARD.
- WHEN INSTALLED PROPERLY, SUMMIT DAVITS PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:  
(a) WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)  
(b) 2 X WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)  
(c) 4 X WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE DAVIT(S) ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE DAVIT PEDISTAL TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT NOT LIMITED TO THE INTEGRITY OF STRUCTURE, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, ADHESIVE OR MECHANICAL DAVITS FASTENERS, REINFORCING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.
- ENGINEERING ANALYSIS PROVIDED UNDER THIS STAMP AND SEAL BY D.H. CHARLES ENGINEERING, INC. IS ONLY FOR EQUIPMENT DESIGN SHOWN ON THIS PLAN AND IN NO WAY REPRESENTS ENGINEERING ASSOCIATED WITH THE EXISTING OR PROPOSED BUILDING. EXISTING OR PROPOSED BUILDING CONFIGURATION AND PROPERTIES HAVE NOT BEEN REVIEWED. EQUIPMENT IS ANALYZED FOR STATED LOADS ONLY. INTENDED USAGE OF EQUIPMENT IS OUT OF THIS SCOPE.

**CUSTOMER IS RESPONSIBLE FOR THE FOLLOWING:**

- ASSURANCE THAT SUMMIT ANCHOR PRODUCTS ARE ATTACHED TO ADEQUATE AND COMPATIBLE STRUCTURE.
- THE UNDERSTANDING THAT DAVITS MAY FAIL DUE TO IMPROPER INSTALLATION OR INADEQUATE SUPPORTING STRUCTURE. SERIOUS INJURY OR DEATH MAY RESULT FROM ANCHOR FAILURE. INSTALLATION OF DAVITS MUST BE PERFORMED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER WITH EXPERIENCE IN SUSPENDED ACCESS EQUIPMENT. ADDITIONALLY, DAVITS SHALL BE TESTED AND CERTIFIED UNDER THE SUPERVISION OF A PROFESSIONAL ENGINEER BEFORE BEING INITIALLY PLACED INTO SERVICE (E.G. SEE IWC WINDOW CLEANING SAFETY STANDARD).

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX4-20

(2) 20 = TUBE HEIGHT (TH)  
(1) X = SQUARE TOP PLATE

**MATERIAL DESIGNATION:**

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

**Summit Anchor Co.**  
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Tel: 301.874.4941, Fax: 301.620.9819  
Toll Free: 800.372.1098 Web: [www.summitanchor.com](http://www.summitanchor.com)

**SUMMIT STANDARD WELD ON DAVITS**  
SUMMIT MODEL(S): PER TABLE

**SM-DVT-BSE-PX4-X-XXXX: GALV. STEEL WELD ON DAVIT PEDISTAL**

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**SUMMIT STANDARD WELD ON DAVITS**  
SUMMIT MODEL(S): PER TABLE

**SM-DVT-BSE-PX4-X-XXXX: GALV. STEEL WELD ON DAVIT PEDISTAL**

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**SUMMIT STANDARD WELD ON DAVITS**  
SUMMIT MODEL(S): PER TABLE

**SUMMIT STANDARD WELD ON PEDASTAL MODELS WITH 10' MAX. MAST\*\***

MODEL NO.	ARM REACH	WORKING LOAD	(Ps) PEDASTAL SIZE	(Tp) TOP PLATE SIZE	WELD SIZE (Ws)	A) VERTICAL REACTION (WORKING LOAD)	B) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6 SM-DVT-SKX-6 SM-DVT-BSE-PX4-20	6'-6"	1,000LB	PIPE 6 STD	1" X 8-3/4" X 8-3/4"	3/8"	1.0	78
SM-DVT-ARM-6 SM-DVT-SKX-6 SM-DVT-BSE-PX4-20	6'-6"	1,250LB	PIPE 6 STD	1" X 8-3/4" X 8-3/4"	3/8"	1.25	97.5
SM-DVT-ARM-8 SM-DVT-SKX-8 SM-DVT-BSE-PX4-20	8'-6"	1,000LB	PIPE 6 STD	1-1/8" X 8-3/4" X 8-3/4"	3/8"	1.0	102
SM-DVT-ARM-8 SM-DVT-SKX-8 SM-DVT-BSE-PX4-20X	8'-6"	1,250LB	PIPE 6 X-STRONG	1-1/8" X 8-3/4" X 8-3/4"	3/8"	1.25	127.5

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX4-20

(2) 20 = TUBE HEIGHT (TH)  
(1) X = SQUARE TOP PLATE

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SUMMIT MODEL(S): PER TABLE

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**SUMMIT STANDARD C.I.P. DAVIT BASE WITH LEVELING RODS**  
SUMMIT MODEL(S): PER TABLE

**DESIGN GUIDELINES:**

- DAVITS ARE DESIGNED IN ACCORDANCE WITH FEDERAL OSHA REGULATIONS, AMERICAN WELDING SOCIETY "AWS", AND THE I-14 WINDOW CLEANING SAFETY STANDARD.
- WHEN INSTALLED PROPERLY, SUMMIT DAVITS PRODUCTS ARE DESIGNED TO SUPPORT LOADS AS FOLLOWS:  
(a) WORKING LOAD PER TABLE (WORKING/ALLOWABLE LOAD)  
(b) 2 X WORKING LOAD PER TABLE (PROOF LOAD TO TEST EQUIPMENT WITHOUT PERMANENT DEFORMATION)  
(c) 4 X WORKING PER TABLE (MAX LOAD WITHOUT PERMANENT DEFORMATION)
- PROVIDING INFORMATION TO THE OWNER, OR THEIR REPRESENTATIVE, VERIFYING THE DAVIT LAYOUT COMPLIES WITH APPLICABLE LOCAL AND NATIONAL CODES, REGULATIONS, AND SAFETY STANDARDS FOR THE INTENDED USE.
- ENSURING THAT THE APPLICATION IN WHICH THE DAVIT(S) ARE USED AND THE STRUCTURE TO WHICH IS ATTACHED WILL SUPPORT THE APPLICABLE LOADS INDICATED ON THIS DRAWING. THE STRUCTURE AND FIELD CONNECTION DETAILS MUST BE FULLY DEVELOPED TO RESIST THE LOADS INDICATED ON THE DRAWINGS INCLUDING MOMENT, SHEAR, AND AXIAL FORCES. THE PROJECT ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN ELEMENTS OF THE CONNECTION OF THE DAVIT PEDISTAL TO THE STRUCTURE. THESE ELEMENTS INCLUDE, BUT NOT LIMITED TO THE INTEGRITY OF STRUCTURE, FIELD CONNECTION DETAILS INCLUDING ANY FIELD WELDS, ADHESIVE OR MECHANICAL DAVITS FASTENERS, REINFORCING BARS, OR ANY OTHER ELEMENT REQUIRED IN THE CONNECTION TO SUPPORT THE ABOVE LOADS.
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**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX6-12-20-75-06

(5) 06 = DIA. FOR BOLT ON APPLICATION  
(4) 78 = BASE PLATE THICKNESS (Bp)  
(3) 20 = TUBE HEIGHT (TH)  
(2) 12 = BASE PLATE SIZE (Bp)  
(1) X = SQUARE TOP PLATE

**MATERIAL DESIGNATION:**

- ALL PLATES: ASTM A572 GR 50
- ALL TUBES: ASTM A500 GR C
- WELD WIRE: E70

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**SUMMIT STANDARD DAVIT W/ LEVELING RODS**  
SUMMIT MODEL(S): PER TABLE

**SM-DVT-BSE-PX6-X-XXXX: GALV. STEEL DAVIT PEDISTAL WITH LEVELING RODS**

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**SUMMIT STANDARD C.I.P. DAVIT BASE WITH LEVELING RODS**  
SUMMIT MODEL(S): PER TABLE

**SUMMIT STANDARD C.I.P. DAVIT BASE WITH LEVELING RODS**

MODEL NO.	ARM REACH	WORKING LOAD	NORMAL WEIGHT CONCRETE COMP. STRENGTH	FTS EMBEDMENT DEPTH	MIN. SLAB THICKNESS	BASE PLATE (Bp) SIZE	(Ps) PEDISTAL SIZE	TOP PLATE SIZE (Tp)	SUPPORTED LENGTH (SL)	MAX. TUBE LENGTH (TL)	(E) MIN. SLAB EDGE DISTANCE	(W) WELD SIZE	A) VERTICAL REACTION (WORKING LOAD)	B) MOMENT REACTION (WORKING LOAD)
SM-DVT-ARM-6 SM-DVT-SKX-6 SM-DVT-BSE-PX6-12-04-05-05	6'-6"	1000 lb	6000 PSI	7"	12"	12"x12"	PIPE 6 STD	1"x8-3/4"x1-8-3/4"	48"	54"	38"	3/8"	1	78
SM-DVT-ARM-6 SM-DVT-SKX-6 SM-DVT-BSE-PX6-12-04-05-05	6'-6"	1250 lb	6000 PSI	8"	12"	12"x12"	PIPE 6 STD	1"x8-3/4"x1-8-3/4"	48"	54"	38"	3/8"	1.25	97.5
SM-DVT-ARM-8 SM-DVT-SKX-8 SM-DVT-BSE-PX6-12-04-05-05	8'-6"	1000 lb	6000 PSI	8"	12"	12"x12"	PIPE 6 STD	1"x8-3/4"x1-8-3/4"	48"	54"	38"	7/16"	1	102
SM-DVT-ARM-8 SM-DVT-SKX-8 SM-DVT-BSE-PX6-12-04-05-05	8'-6"	1250 lb	6000 PSI	9"	12"	12"x12"	PIPE 6 X-STRONG	1"x8-3/4"x1-8-3/4"	48"	54"	38"	1/2"	1.25	127.5

**DAVIT BASE MODEL # GUIDE:**  
SM-DVT-BSE-PX6-12-20-75-06

(5) 06 = DIA. FOR BOLT ON APPLICATION  
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SUMMIT MODEL(S): PER TABLE

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**SUMMIT STANDARD DAVIT W/ LEVELING RODS**  
SUMMIT MODEL(S): PER TABLE

**SM-DVT-BSE-PX6-X-XXXX: GALV. STEEL DAVIT PEDISTAL WITH LEVELING RODS**

CONTACT US FOR MORE INFORMATION:



[www.summitanchor.com](http://www.summitanchor.com)



(800) 372-1098



[info@summitanchor.com](mailto:info@summitanchor.com)



SUMMIT ANCHOR - STANDARD DAVIT  
SM-DVT-BSE-PX  
SM-DVT-ARM-TR-8-1250  
SM-DVT-SKX-TR-8-1250



### STEP 1



### STEP 2



### STEP 3



### STEP 4

4507 Metropolitan Court, Suite F | Frederick, MD 21704  
P 800.372.8098 | F 301.620.9839  
[www.safetyinfire.com](http://www.safetyinfire.com)

DAVIT ARM ASSEMBLY SETUP  
INSTRUCTIONS

THE ENGINEER'S SEAL SIGNIFIES ONLY THAT THE PRODUCTS PROVIDED BY HENKROY ANCHOR Co.:

- A. WILL WITHSTAND THE LOADS INDICATED ON THIS SEAL WHEN ANALYZED BY ACCEPTED ENGINEERING STANDARDS.
- B. HAS BEEN TESTED FOR THE INDICATED LOADS.

# A-1

LOWER BOOM COLLARS  
DOWN AROUND MAST

SUMMIT ANCHOR - STANDARD DAVIT  
SM-DVT-BSE-PX  
SM-DVT-ARM-TR-8-1250  
SM-DVT-SKX-TR-8-1250



### STEP 5



### STEP 6

1507 Morningside Court, Suite F | Frederick, MD 21704  
 P 800.372.1098 | F 301.620.9819  
[www.sams.net/us/usa.htm](http://www.sams.net/us/usa.htm)

DAVIT ARM ASSEMBLY SETUP  
INSTRUCTIONS


THE ENGINEER'S SEAL GUARANTEES ONLY THAT THE PRODUCTS PROVIDED BY SUMMIT ARCHES Co.:

- A. WILL WITHSTAND THE LOADS INDICATED ON THIS SEAL WHEN ANALYZED BY ACCEPTED ENGINEERING STANDARDS.
- B. HAVE BEEN TESTED FOR THE INDICATED LOADS.

A-2

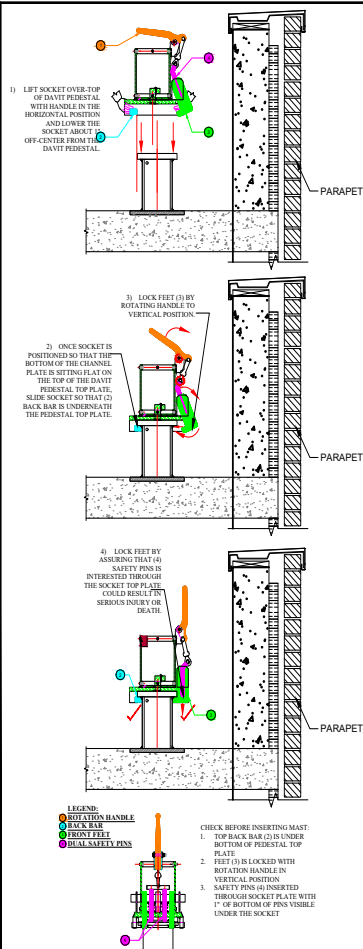
## SET-UP INSTRUCTIONS

**SUMMIT ANCHOR - STANDARD DAVIT**  
**SM-DVT-BSE-PX**  
**SM-DVT-ARM-X-1250**  
**SM-DVT-SKX-X-1250**

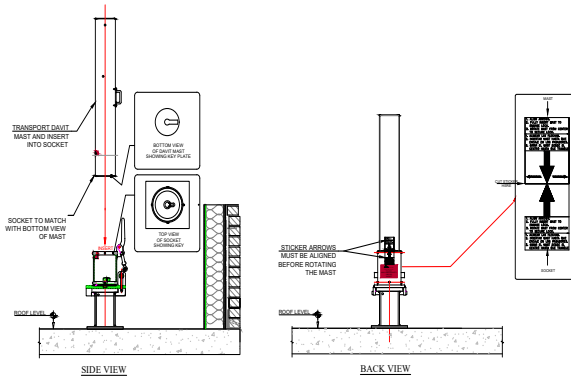


**Summit Anchor Co.**

L. Sattler | Frederick, MD 21704  
620.9819

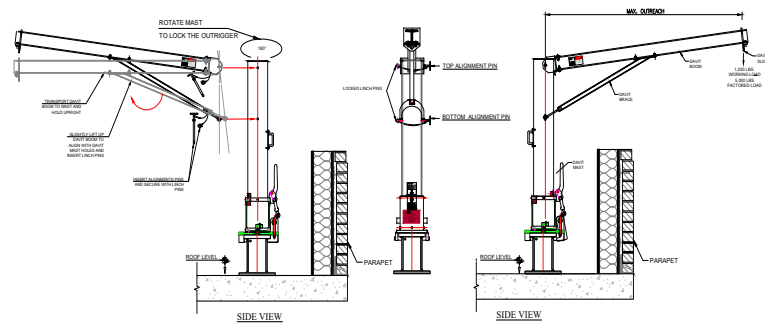


## STEP #1 SECURE SOCKET



## STEP #2 INSERT MAST INTO SOCKET

### STEP #3 CHECK IF STICKERS ARE ALIGNED



STEP #4 ROTATE MAST TO LOCK INTO THE SOCKET  
THEN MOUNT BOOM WITH BRACING AND LOCK WITH LINCH PINS

### STEP #5 DAVIT IS READY FOR USE

DAVIT ARM ASSEMBLY SETUP  
INSTRUCTIONS

THE ENGINEER'S SEAL SIGNIFIES ONLY THAT THE PRODUCTS PROVIDED BY KIMBLE ANCHOR CO.

5. HAVE BEEN TESTED FOR THE INDICATED LOADS.

A 1

**A-1**

**A-1** DRAWING NUMBER



# Summit Anchor Company Inc.

4507 Metropolitan Ct., Suite F

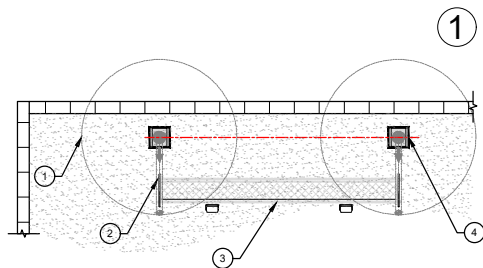
Frederick, MD 21704

Tel: 301.874.4941, Fax: 301.620.9819

Toll Free: 800.372.1098

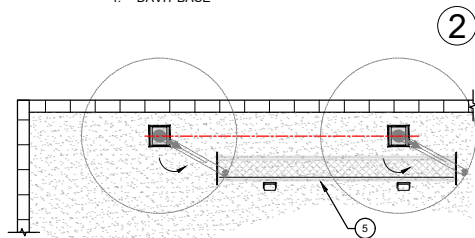
Web: [www.summitanchor.com](http://www.summitanchor.com)

## SUMMIT ANCHOR - PLATFORM SET-UP



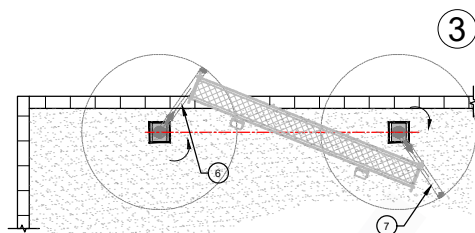
## STEP - 1 - IN BOARD PLATFORM

1. DAVIT OUT REACH
2. DAVIT ARM ASSEMBLY
3. STANDARD PLATFORM
4. DAVIT BASE



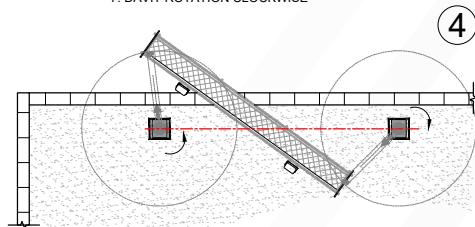
## STEP - 2 - IN BOARD PLATFORM

5. ROTATE BOTH DAVIT ARMS TO APROX. 45°

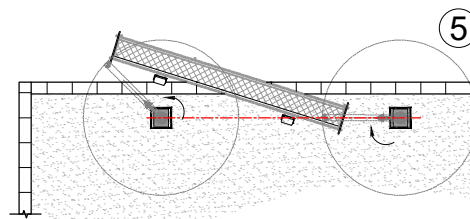


### STEP - 3 - IN BOARD PLATFORM

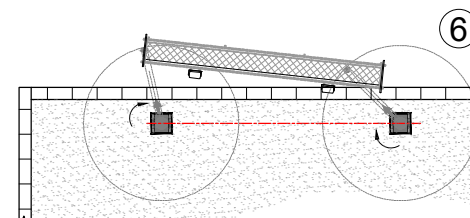
6. DAVIT ROTATION COUNTER CLOCKWISE  
7. DAVIT ROTATION CLOCKWISE



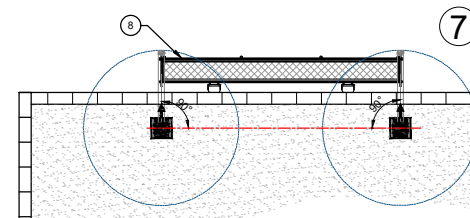
## STEP - 4 - IN BOARD PLATFORM



## STEP - 5 - IN BOARD PLATFORM




## STEP - 6 - OUT BOARD PLATFORM



## STEP - 7 - OUT BOARD PLATFORM

- ### 8. ALL SET OUT BOARD PLATFORM

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APPROVALS		 <b>Summit Anchor Co.</b> PROJECT	
DATE	BY		
M.J.A.	11/19/2020		
DRAWING NO.	C.I.M.		
TICKER	DATE		
DATE	BY	PLATFORM SET UP	
DATE	BY	DRAWING NO.	
DATE	BY	PLOT SCALE: 1:1	
DATE	BY	PAGE NO. 1 OF 1	



# Electric Requirements for Powered Platforms

## OSHA - 1910.66(e)(11)

### Electrical requirements.

The following electrical requirements apply to buildings which utilize working platforms for building maintenance.

- (i) General building electrical installations shall comply with §§1910.302 through 1910.308 of this part, unless otherwise specified in this section;
- (ii) Building electrical wiring shall be of such capacity that when full load is applied to the equipment power circuit not more than a five percent drop from building service-vault voltage shall occur at any power circuit outlet used by equipment regulated by this section;
- (iii) The equipment power circuit shall be an independent electrical circuit that shall remain separate from all other equipment within or on the building, other than power circuits used for hand tools that will be used in conjunction with the equipment. If the building is provided with an emergency power system, the equipment power circuit may also be connected to this system;
- (iv) The power circuit shall be provided with a disconnect switch that can be locked in the "OFF" and "ON" positions. The switch shall be conveniently located with respect to the primary operating area of the equipment to allow the operators of the equipment access to the switch;
- (v) The disconnect switch for the power circuit shall be locked in the "ON" position when the equipment is in use; and

## ASME A120.1-2008 - Safety Requirements for Powered Platforms and Traveling Ladders and Gantries for Building Maintenance

### 2 Building Design Requirements

**2.3.6 Electrical Requirements** The electrical design shall be in accordance with the following:

- (a) General design shall be in accordance with the applicable requirements of the National Electrical Code edition in effect at the time of making the design, e.g., grounding, wire size, motors, controls and control wiring, and enclosures.
- (b) When full load is applied to the circuit, building conductors shall be of such capacity that not more than a 3% voltage drop from nominal equipment requirements shall occur at each building outlet.
- (c) Communications and power connections shall be weatherproof and provided with locking type connectors. They shall be protected from damage and abrasion.
- (d) Each communication and power outlet shall be provided with an adjacent strain relief anchor to prevent force from being applied to the outlet or to the conduit leading to the outlet by movement of the equipment.
- (e) The equipment power supply shall be from an independent electrical circuit that shall remain separate from all other equipment within or on the building, except hand tools used in conjunction with the equipment. If the building is provided with an emergency power system, the equipment circuit may be designed so it may be connected to the emergency circuit.

(f) The power circuit shall be provided with a cutoff switch that can be locked in the "OFF" position. To allow the equipment operators access to the switch, it shall be conveniently located relative to the primary operating area of the equipment.

(g) Power and communication outlets shall be located at the approximate elevation of the primary equipment operating area. The outlets should be located so that no more than 100 ft (30.38 m) of supply cable need be used for the horizontal area being traversed.

(h) The power circuit shall contain a separate equipment electrical grounding conductor.

(i) Carriage track systems shall be electrically connected to an earth ground.

(j) *Communication Facilities.* A two-way voice communication system shall be provided between the equipment operators and manned station while the working platform is in use. The communication facility shall be operable and manned at all times when the equipments is being used.

### 3.11 Control, Power Circuits, and Components

Power and control circuits shall operate by hydraulic, pneumatic, electrical, or other suitable means that provide at least the minimum safety requirements as set forth in this Standard.

#### 3.11.1 Electrical Grounding.

All exposed noncurrent-carrying metal parts shall be grounded. The equipment grounding shall be done by means of a grounding conductor included in the power cable used for connecting the equipment to the supply. The grounding conductor shall be bonded to the equipment metal frame at one end and terminated in the grounding contact of an approved grounding-type attachment plug at the supply end. All exposed noncurrent-carrying metal parts of the equipment shall be considered grounded if secured to and in metal contact with the grounded equipment frame. Suspended equipment, if not directly connected to the supply, shall either be grounded by a grounding conductor in the cable used to carry control or power and communications between the suspended equipment and the carriage or may be grounded by the steel support ropes, provided that the steel ropes are properly bonded to both the suspended equipment and the grounded carriage to ensure a good grounding connection.

Any track system used in conjunction with traversing of equipment shall be electrically grounded.

#### 3.11.2 Electrical Wiring and Components

##### 3.11.2.1 General Requirements.

Electrical wiring and components shall conform to the requirements of the standards adopted by the National Fire Protection Association (National Electrical Code) or the JIC Electrical Standards for General Purpose Machine Tools (EGP 1-67), except as modified by this Standard.

**(b) Runway Conductor System.** Electrical runway conductor system shall be of a type designed for use in exterior locations and shall be located so they are not subject to contact with accumulated snow or water. The conductors, collectors, and disconnecting means shall be in accordance with the applicable requirements of the National Electrical Code, as stated in para. 2.3.6.

**(c) Power Supply for Maintenance Tools.** Electrical power may be provided to outlets on the carriage and on the suspended or supported unit for operation of maintenance tools.

##### 3.11.2.6 Traveling Cable

**(a) Traveling Cable Provisions.** Conductors for control, power, communication, signal circuits, and grounding connection may be run in the same traveling cable, provided that all conductors are insulated for not less than 600 V and all live parts of the equipment are insulated from ground for this voltage.

**(b) Protection of Traveling Cable.** Means shall be provided so that the traveling cable is protected against damage from striking the building or structure, over-tensioning, or other causes (see paras. 2.3.6 and 3.7.6.3)

**(c) Storage of Traveling Cable.**

**(1)** On manned platforms, cable shall be wound on drums designed for that purpose or placed in a container outside of the working area.

**(2)** On ground-rigged manned platforms, cable may be wound on drums at the boarding elevation or contained as described above.

##### 3.11.2.2 Circuit Protection.

The building power supply for the equipment shall be an independent circuit provided with a disconnect switch.

##### 3.11.2.3 Guarding of Electrical Parts.

An uninsulated live part that is a shock hazard shall be located or enclosed so that protection will be during normal operation.

##### 3.11.2.4 Circuit Potential Limitations.

**(a)** Circuit potential installed on a roof or other exterior location for service to the equipment shall not exceed 600 V, except when located at street or grade elevations, in which case the potential shall be limited to 230 V.

**(b)** Circuit potential to electrical components on manned platforms shall not exceed a nominal voltage of 480 single or polyphase.

**(c)** Circuit potential permitted for operating devices, limit switches, and electrical interlocks shall not exceed a nominal voltage of 230 single phase.

**(d)** Circuit potential limitations for hand power tools used on a working platform shall not exceed a nominal voltage of 230 single phase, which may be included in the equipment's power circuit.

##### 3.11.2.5 Equipment Electrical Service System

**(a) Receptacle and Cable System (Power).** Provisions for electrical grounding shall be included with the power supply system. All supply receptacles shall be of a weatherproof type and shall be installed in accordance with para. 2.3.6.

## 16 Retrofit of New, Power Operated Systems Dedicated to the Building

**16.3.3** Electric cable and separate hanging lifelines shall be stabilized against displacement by the wind at vertical intervals not exceeding 200 feet (61 m). The means of stabilization may be independent of the building face being cleaned.

### 16.4 Electrical Provisions on the Building

**16.4.1** Electrical outlet shall provide electrical service on a common dedicated circuit that matches the electrical power requirements of the equipment's operation and service including its peak amps, volts and phase. At least one outlet shall be provided for each building level from which the equipment is supported. Additional outlets shall be provided on large roof areas and spaced a maximum of 200 feet (61 m) between outlets. Each outlet shall have a strain relief device which can be secured to the receptacle's anchorage.

**16.4.2** The electrical design of the power supply shall be in accordance with (a) through (f).

**(a)** Building wire sizes shall be of such capacity that not more than a 3% voltage drop from nominal equipment requirements shall occur at each building outlet when full load is applied to the circuit.

(b) Each power communication outlet shall be provided with an adjacent strain relief anchorage to prevent force being applied to the outlet or to the conduit leading to the outlet by movement of the equipment. All outlets (receptacles) shall be of the twist lock type.

(c) The equipment power supply should be from an independent electrical circuit that will remain separate from all other equipment within or on the building. If the building is provided with an emergency power system, the equipment circuit may be designed so that it is connected to the emergency circuit

(d) The power circuit shall be provided with a cut-off switch that can be locked in the ON or OFF position. The switch shall be conveniently located with respect of the primary operating area of the equipment to allow the operators of the equipment access to the switch.

(e) Power and communication outlets shall be located at the approximate elevation of the primary equipment operating area.

(f) The power circuit shall contain a separate equipment ground conductor that shall be connected to an earth ground.

ELECTRICAL POWER OUTLET REQUIREMENTS [SUPPLIED BY OTHERS]			
OUTLET TYPE		WEATHERPROOF POWER OUTLET WITH STRAIN RELIEF EYEBOLT	
VOLTAGE		208V	
PHASING		SINGLE PHASE	
FREQUENCY		60 HZ	
AMPERAGE		30A	
VOLTAGE DROP		NO MORE THEN 3% DROP IN VOLTAGE AT ANY OUTLET	
RECEPTACLE		SAFETY-SHROUD, TWIST-LOCK	NEMA NO.
HUBBLL NO.	FEMALE	HBL2620SW	L6 - 30R





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