



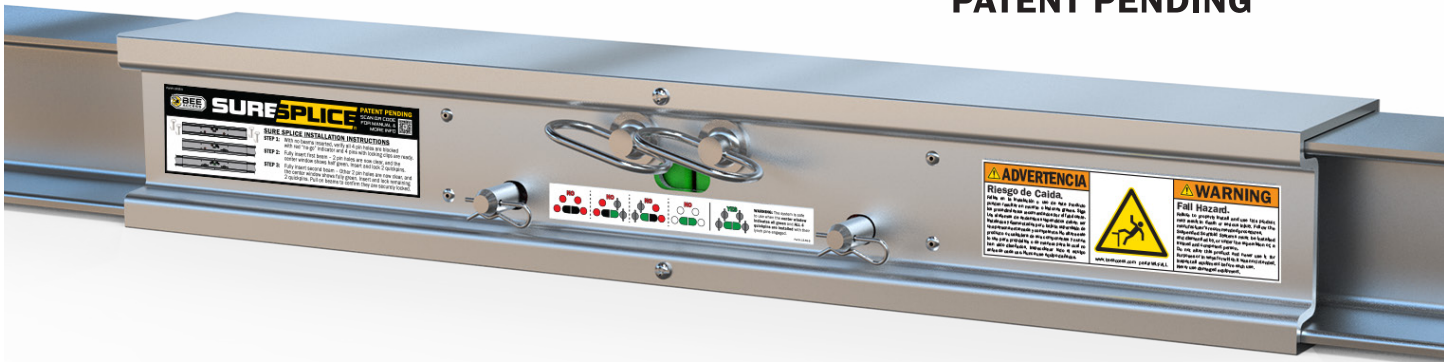
## SURESPLICE – SAFETY SPLICE TUBE

### OPERATOR'S MANUAL



# SURESPLICE®

PATENT PENDING



#### DESCRIPTION

SureSplice® sets a new standard in safe, tool-free beam connections for suspended access outrigger beams. Designed specifically for splicing 5x5 H-beams, SureSplice combines familiar Quickpin locking with intuitive visual indicators, giving you clear and positive confirmation that the splice is fully engaged and secure. When the beams are not fully inserted, the mounting holes for the Quickpins are blocked. When the beams are fully inserted into the SureSplice, the integrated mechanical safety feature will unblock the holes so you can install the Quickpins securely, therefore eliminating potential human error every single time. Installation is quick and easy, with no tools required.

#### SPECIFICATIONS

##### Part No.:

- 920183-S – 3ft SureSplice
- 920176-S – 8ft SureSplice
- 920185 – SureSplice Upgrade Assembly

##### Dimensions:

- 920183-S – 36" x 6.18" x 5.56" (LxWxH)
- 920176-S – 96" x 6.18" x 5.56" (LxWxH)

##### Weight:

- 920183-S – 24 lbs
- 920176-S – 63 lbs

**Construction:** Aluminum tube with aluminum and stainless steel components

**Compatibility:** All 5x5 outrigger beam systems



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**M-SURESPLICE**

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**SURESPLICE**

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## **⚠ GENERAL WARNING – READ FIRST ⚠**

**Safety is a matter of life or death for riggers, operators and by-standers.  
This warning is your share of duties for achieving safety.**

### **Your duty to understand and comply:**

1. It is imperative for safety and efficiency of operations that this manual be read and fully understood by the rigger and the operator before rigging and using this equipment. All instructions contained herein must be carefully and strictly followed, including applicable Bee Access guidelines.
2. Should you hand over this equipment under any conditions, to any party operating out of your control, you must attach a clean copy of this manual and draw to other party's attention that strictly following all the instructions therein is a matter of life or death.
3. Before using this equipment, the rigger and the operator must become aware of all requirements of federal, state, provincial and local safety regulations, applicable to the entire suspended scaffold system and any component of it.
4. Never load this equipment above its rated load capacity.
5. Bee Access declines any responsibility for any special layouts, rigging or structural combinations beyond the descriptions of this manual.
6. Bee Access declines any responsibility for any other use of this equipment, than described in this manual.

### **Your duty to inspect and maintain:**

7. Keep this manual available at all times for easy reference whenever required. Extra copies are available from Bee Access and/or your equipment supplier.
8. Carefully take notice of all labels affixed to the equipment. Never rig or operate this equipment if any label, normally fixed on it is obscured or missing. Replacement labels are available from Bee Access and/or your equipment supplier.
9. Every time the suspended scaffold is to be rigged or used, check that the Tieback Anchor, rigging, hoists, platform and other components are complete and in good working condition, prior to proceeding. All wire ropes and safety lines and their protective sleeves should be inspected at the beginning of every shift. Check for wear and abrasion due to contact with rigging equipment and/or the building structure.
10. **Daily inspection before use is to be carried out by a competent person.** Thoroughly check overall condition for bent, damaged or worn parts and broken welds. A signed and dated inspection record should be maintained for these purposes.
11. Make sure to comply with inspection and maintenance guidelines of all other components used in the suspended scaffold system.
12. Bee Access declines any responsibility for consequences of repairs or modifications brought out of its control to the product, specifically by replacement of original parts or repairs by another manufacturer.

### **Your duty to train and control people:**

Compliance with safety rules extends to rigging operations which must be carried out only after securing safe conditions of operation as per safety regulations and requirements.

13. An operator must not be assigned to rigging, de-rigging, moving or operating a suspended scaffold if that person is not:
  - a. Mentally and physically fit for the purpose, especially at heights
  - b. Competent for the job to be performed
  - c. Familiar with the scaffold equipment as rigged
  - d. Professionally trained for working under the above requirements
14. Never let the equipment be moved or operated by unauthorized personnel. Keep the equipment, either rigged or unrigged, out of reach of unauthorized persons, while out of operation.
15. Every suspended job must be placed under the control of a person having the required competence and authority for checking that all the instructions prescribed by this manual be regularly and efficiently carried out.

### **Your duty to safety of the entire scaffold system:**

A suspended scaffold system is made up of numerous pieces of equipment; all of these components can contribute to the required safety only if:

16. Other components meet the requirements of the applicable safety regulations and requirements, are of the proper quality, assembled to form a safe and efficient suspended system and compatibility is approved by Bee Access.
17. The supporting structure and tie-backs can withstand every load to be applied, either static or dynamic, during rigging or operating of the suspended scaffold equipment.
18. All the requirements in strength and resistance are obtained with the necessary safety coefficients (call your supplier for regulations and professional standards).
19. All the calculations, design and subsequent work necessary to meet the above requirements have been made by a competent person on the basis of proper technical information regarding the site.

**NOTE:** This manual is neither a regulations compliance manual nor a general training guide on suspended scaffold operations. You must refer to proper instructions delivered by your supplier of the other pieces of equipment included in your suspended scaffold installation. Whenever calculations and specific rigging and handling are involved, the operator should be professionally trained to that end and secure relevant information prior to commencing such work.

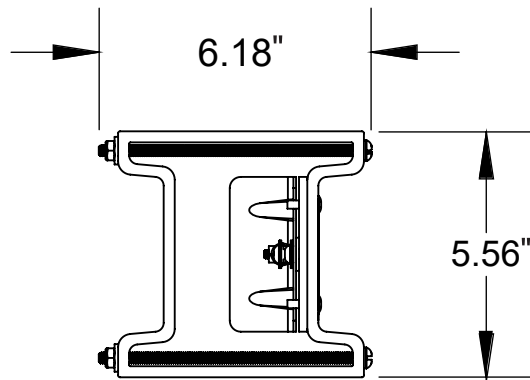
**Read and comply with the “Code of Safe Practices for Suspended Powered Scaffolds” issued by the Scaffold Industry Association (also available from Bee Access or your supplier).**



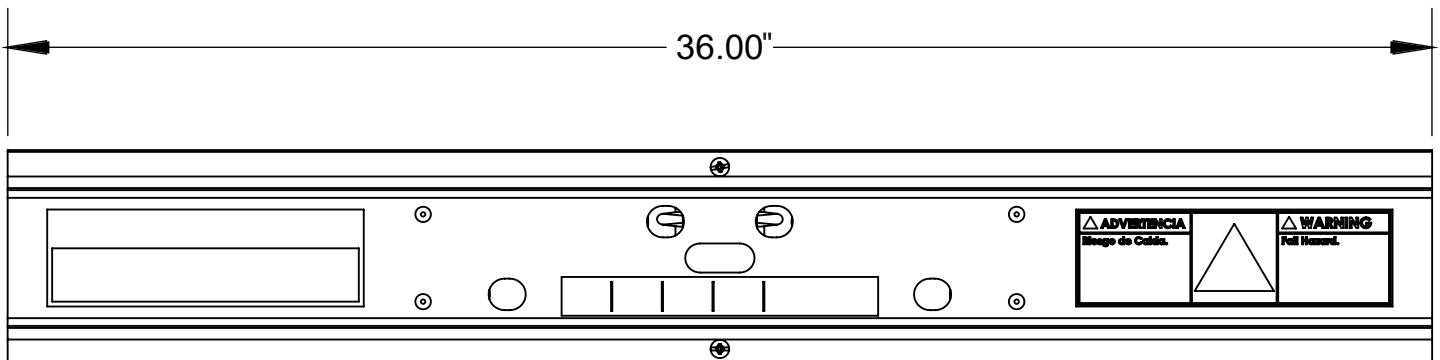
## SURESPLICE

### DIMENSIONS

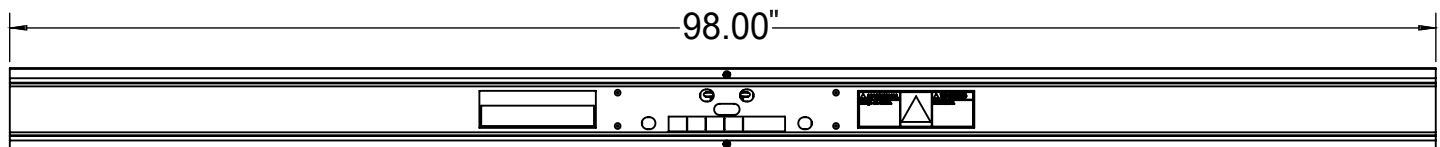
\*Not to Scale\*



#### **920183-S: 3 ft SureSplice**



#### **920176-S: 8 ft SureSplice**



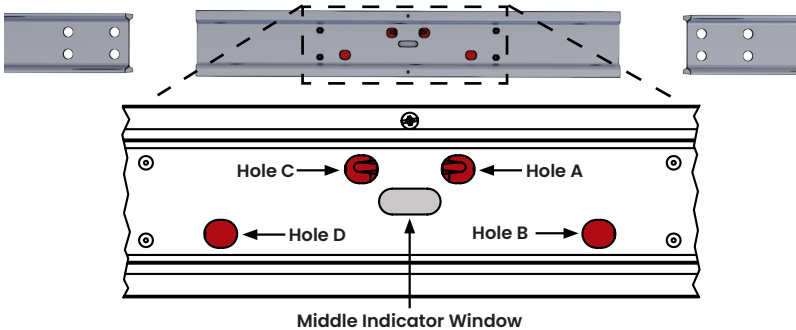
### **⚠ WARNING**

Any assembly of this equipment other than in strict accordance with these instructions shall be at the Operator's risk and may result in death or serious injury.

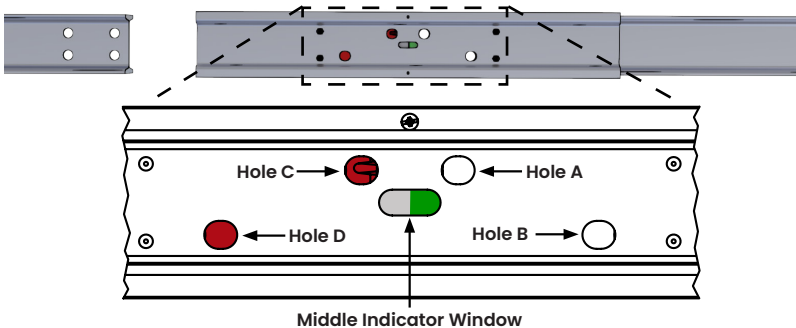
## SURESPLICE

# INSTALLATION INSTRUCTIONS

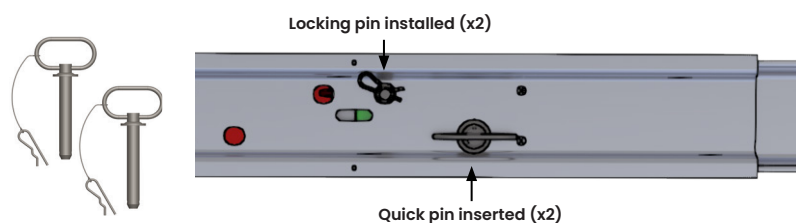
### STEP 1



### STEP 2



### STEP 3



### NOTE:

Instructions shown in this manual are of the 920183-S: 3 ft SureSplice. Same instructions apply for 920176-S: 8 ft SureSplice.

Installation and operation must be performed or supervised by a trained and competent person. Read and fully understand these instructions before proceeding with installation. Inspect all pins to make sure they are functional and properly secured before every use. Make sure warning/rating labels are in place, legible and have been read.

### Installation Instructions:

1. Align the 5x5 beams with the SureSplice tube and check that the four pin holes are red before inserting the 5x5 beams. The red "no-go" indicators should be visible and will block the quick pin connection holes until each beam is fully inserted into the splice tube.
2. Insert one of the 5x5 beams into the adjacent end of the SureSplice. When one of the beams is fully inserted, the red "no-go" indicators slide out of the way to allow for the insertion of the quick pins into that side of the SureSplice (Holes A & B as shown). At the same time, a green indicator will appear in half of the middle indicator window confirming the beam is fully inserted.
3. Insert two  $\frac{3}{4}$ " x 4.5" quick pins through the open holes (Holes A & B as shown) and install both locking pins to secure the quick pins.

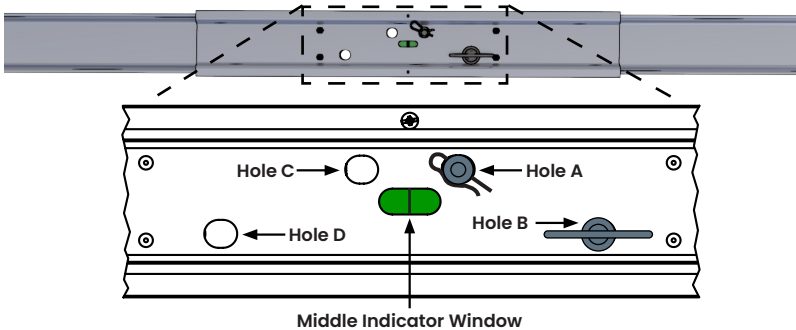
## ⚠ WARNING

- It is the user's responsibility to read and understand the warnings listed on this page and to use the equipment with these warnings in mind.
- Any installation/use of this equipment other than in strict accordance with these instructions shall be at the operator's risk and may result in death or serious injury.
- Make sure the warning labels are present and legible.
- Do not alter the product and never use it for purposes in which it was not intended.
- Use only Bee Access provided hardware. Do not substitute.
- Inspect all equipment before use.
- Never use damaged equipment.

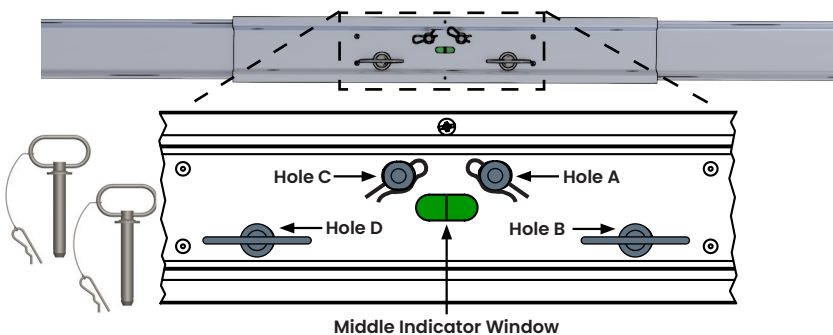
## SURESPLICE

# INSTALLATION INSTRUCTIONS

### STEP 4



### STEP 5



### STEP 6



Pull in both directions to confirm beams are securely locked

### Installation Instructions (continued):

4. Insert the other 5x5 beam into the other end of the SureSplice until the red "no-go" indicators slide out of the way (Holes C & D as shown) and the other half of the middle window indicator is green.
5. Insert the other two  $\frac{3}{4}$ " x 4.5" quick pins through the open holes (Holes C & D as shown, Holes A & B are already installed) and install both locking pins to secure them. Both 5x5 beams are securely spliced together once all four quick pins are installed/locked and the middle indicator window is entirely green.
6. Pull on both 5x5 beams to confirm they are securely locked into both ends of the splice tube.
7. For full installation and operating instructions on the Bee Access Rolling Outrigger Beam system, please reference the 5x5 Rolling Outrigger manual available on our website or by contacting us (Manual #: M-ROB5x5).

## ⚠ WARNING

- It is the user's responsibility to read and understand the warnings listed on this page and to use the equipment with these warnings in mind.
- Any installation/use of this equipment other than in strict accordance with these instructions shall be at the operator's risk and may result in death or serious injury.
- Make sure the warning labels are present and legible.
- Do not alter the product and never use it for purposes in which it was not intended.
- Use only Bee Access provided hardware. Do not substitute.
- Inspect all equipment before use.
- Never use damaged equipment.



## SURESPLICE

# PRE-OPERATION CHECKLIST

This checklist provides general inspection guidelines concerning this splice tube. Be aware that this checklist is not all inclusive and report any unusual findings beyond this check list.

External conditions such as misuse, abuse and long term factors such as weather, wear and fatigue, can severely weaken components to the point where they can become unsafe for use. The purpose of this checklist is to spot any defects before they become a hazard. In addition, check the instruction manuals and warning labels of all other components of the suspended scaffold system for additional information on its use and inspection procedures. Perform a thorough component check prior to each use of this equipment.

**WARNING: Failure to check the equipment prior to each use can result in death or serious injury.**

If you check off any boxes under "YES" or you are in doubt about any item, immediately contact your supervisor or supplier and **DO NOT** use this equipment until the problem is corrected.

### YES NO

- |                          |                          |  |
|--------------------------|--------------------------|--|
| <input type="checkbox"/> | <input type="checkbox"/> | Cracked, deformed or missing parts that could weaken the component(s).                                     |
| <input type="checkbox"/> | <input type="checkbox"/> | Deformations that do not allow proper installation or operation  |
| <input type="checkbox"/> | <input type="checkbox"/> | Missing or illegible labels.   |
| <input type="checkbox"/> | <input type="checkbox"/> | Missing or defective parts.  |
| <input type="checkbox"/> | <input type="checkbox"/> | Missing Quick Pins or Lynch Pins where applicable.   |
| <input type="checkbox"/> | <input type="checkbox"/> | Penetrating rust (surface rust is acceptable). When in doubt, consult a competent person.                  |
| <input type="checkbox"/> | <input type="checkbox"/> | Excessive dirt and debris that interferes with installation or operation.                                  |
| <input type="checkbox"/> | <input type="checkbox"/> | Worn lock nuts, rivets and/or other defective or missing fastening hardware.                               |
| <input type="checkbox"/> | <input type="checkbox"/> | SureSplice pin holes are red and do not allow pins to be inserted without beams engaged in each end.       |
| <input type="checkbox"/> | <input type="checkbox"/> | Middle indicator window is empty and does not show green on either half without beams engaged in each end. |



Inspected by: \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_





## SURESPLICE

### LABELS

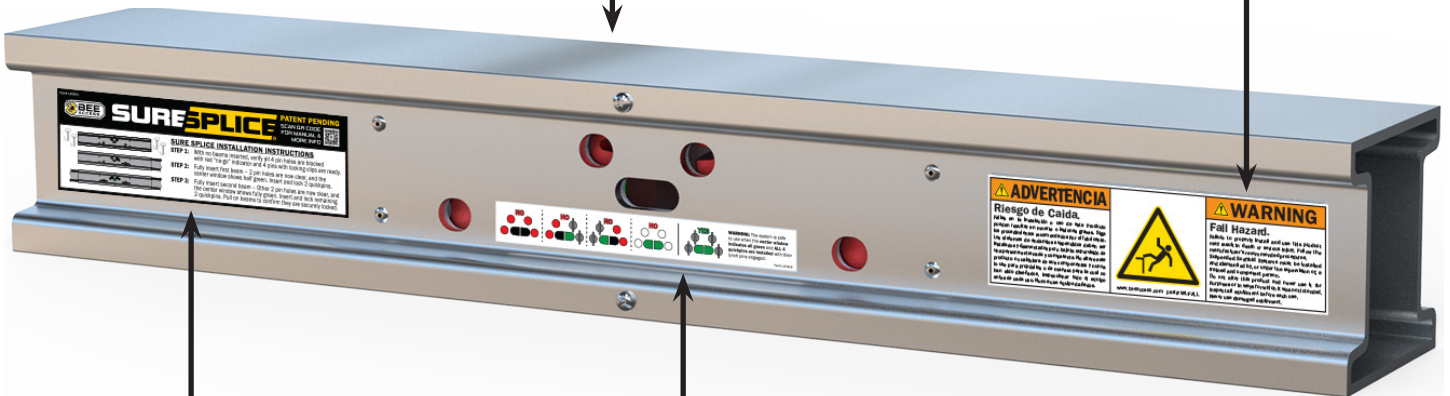
Same labels apply for 920176-S: 8 ft SureSplice



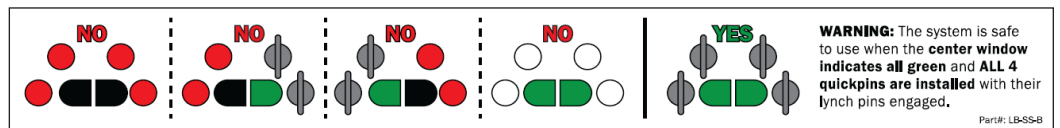
LB-LOGO2: 2" Bee Logo Label  
(on opposite side)



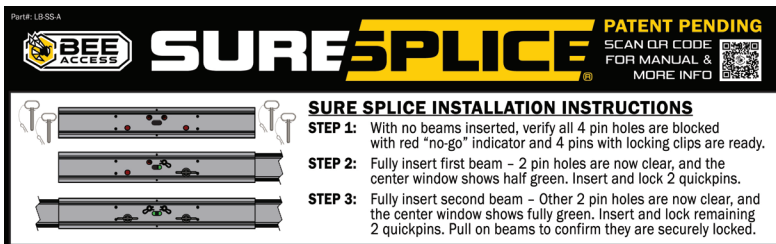
WL-FALL: Fall Hazard Warning Label



LB-SS-B: SureSplice Indicator Guide Label



LB-SS-A: SureSplice Instructional Label







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## SUSPENDED SCAFFOLD PRE-OPERATION CHECKLIST

This checklist provides a guideline to identify any potential hazards in the design, installation and/or defects of the equipment to make sure the suspended scaffold system is safe for use. Be aware that this checklist is not all inclusive and that manufacturer's operating instructions and labels must be followed in conjunction with this checklist. Read and understand the CODE OF SAFE PRACTICES published by the Scaffold & Access Industry Association. Follow federal and local safety standards.

If you check off any boxes under "NO", or are in doubt about any item, immediately contact your supervisor or supplier and do not use this equipment until the problem is corrected.

YES	NO	RIGGING EQUIPMENT	YES	NO	SUSPENDED PLATFORM
<input type="checkbox"/>	<input type="checkbox"/>	A competent person has determined that the structure is able to support the loads imposed by the rigging equipment.	<input type="checkbox"/>	<input type="checkbox"/>	The platform is of proper design for the application and has been correctly assembled per the manufacturer's instructions.
<input type="checkbox"/>	<input type="checkbox"/>	The rigging equipment is of proper design for the application and has been correctly assembled and installed per the manufacturer's instructions.	<input type="checkbox"/>	<input type="checkbox"/>	The platform stirrups are in line with the rigging equipment.
<input type="checkbox"/>	<input type="checkbox"/>	All temporary rigging equipment is properly tied back to a structurally sound anchorage.	<input type="checkbox"/>	<input type="checkbox"/>	The live load does not exceed the platform manufacturer's rated load capacity.
<input type="checkbox"/>	<input type="checkbox"/>	All welds are in good condition and not cracked, torn or excessively corroded.	<input type="checkbox"/>	<input type="checkbox"/>	All welds are in good condition and not cracked, torn or excessively corroded.
<input type="checkbox"/>	<input type="checkbox"/>	All components are in good order and there are no missing, bent or damaged parts that could weaken the system. All mounting holes are free from deformation/cracks.	<input type="checkbox"/>	<input type="checkbox"/>	All components are in good order and there are no missing, bent or damaged parts that could weaken the system. All mounting holes are free from deformation/cracks.
<input type="checkbox"/>	<input type="checkbox"/>	When using davits and sockets or other PI equipment, they are correctly secured and installed, and the inspection records are up to date.	<input type="checkbox"/>	<input type="checkbox"/>	The platform is of proper design for the application and has been correctly assembled per the manufacturer's instructions.
<input type="checkbox"/>	<input type="checkbox"/>	A competent person has determined that there is no penetrating rust on steel parts.	<input type="checkbox"/>	<input type="checkbox"/>	A competent person has determined that there is no penetrating rust on steel parts.
<input type="checkbox"/>	<input type="checkbox"/>	The hardware is grade 5 or better, in good condition and the lock nuts are not worn.	<input type="checkbox"/>	<input type="checkbox"/>	The hardware is grade 5 or better, in good condition and the lock nuts are not worn.
<input type="checkbox"/>	<input type="checkbox"/>	All labels are present and clearly legible.	<input type="checkbox"/>	<input type="checkbox"/>	All labels are present and clearly legible.
<input type="checkbox"/>	<input type="checkbox"/>	The quick pins are in good working condition with properly locking lynch pins.	<input type="checkbox"/>	<input type="checkbox"/>	The quick pins are in good working condition with properly locking lynch pins.
<input type="checkbox"/>	<input type="checkbox"/>	When using outrigger beams, the number of counterweights match the outreach and hoist rated load capacity.	<input type="checkbox"/>	<input type="checkbox"/>	The deck is free from excessive dirt and debris that could cause a slipping hazard or affect the load capacity and/or proper functioning/ installation of the component(s).
			<input type="checkbox"/>	<input type="checkbox"/>	The stirrup pulleys, bearings and inlet cable guides are in good condition.
			<input type="checkbox"/>	<input type="checkbox"/>	The platform is free from chemical corrosion and/or excessive sand blasting damage.
			<input type="checkbox"/>	<input type="checkbox"/>	The platform is at least 10 ft away from live unprotected power lines.
			<input type="checkbox"/>	<input type="checkbox"/>	The weather conditions are acceptable for safe use of the platform and the wind gusts do not exceed 25 mph for a multiple point suspended platform or 20 mph for a single point work cage or bosun's chair.



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## SUSPENDED SCAFFOLD PRE-OPERATION CHECKLIST

### CHECKLIST CONTINUED

YES	NO	HOIST AND WIRE ROPE
-----	----	---------------------

<input type="checkbox"/>	<input type="checkbox"/>	The hoists are of proper design for the application and have been correctly installed per the manufacturer's instructions.
<input type="checkbox"/>	<input type="checkbox"/>	The manufacturer's operating instructions have been read and are understood.
<input type="checkbox"/>	<input type="checkbox"/>	The daily tests have been performed according to the hoist operating manual.
<input type="checkbox"/>	<input type="checkbox"/>	The hoists are in proper working order.
<input type="checkbox"/>	<input type="checkbox"/>	The electric cable or air hose connections have been inspected and are safe for use.
<input type="checkbox"/>	<input type="checkbox"/>	The power supply is adequate for the number and type of hoists used.
<input type="checkbox"/>	<input type="checkbox"/>	The length of the wire rope is long enough to reach the ground and is properly attached to the support equipment. All fittings are checked under load.
<input type="checkbox"/>	<input type="checkbox"/>	The wire rope has been inspected and is in good working condition.

YES	NO	FALL PROTECTION SYSTEM
-----	----	------------------------

NOTE: No worker shall enter a suspended platform, work cage or bosun's chair unless they are "hooked-up" in a safe manner according to applicable federal and local standards.

<input type="checkbox"/>	<input type="checkbox"/>	Each full body harness is the proper size, has the D-ring in the center of the back and has been checked for safe use.
<input type="checkbox"/>	<input type="checkbox"/>	Each worker has their own independent fall protection system.
<input type="checkbox"/>	<input type="checkbox"/>	Each rope grab has been checked for correct installation and operation.
<input type="checkbox"/>	<input type="checkbox"/>	Each lanyard has been checked for correct installation and safe use.
<input type="checkbox"/>	<input type="checkbox"/>	Each lifeline has been checked for safe use and is correctly installed with edge protection to an independent anchor point capable of holding a 5000 lb. ultimate load.

### NOTES:

1. **Suspended Scaffold Systems must be installed and dismantled by, or under the supervision of, a trained and competent person.**
2. **Check all components before each work shift.**
3. **Never use damaged equipment.**
4. **Never overload the equipment.**
5. **Do not alter the equipment.**
6. **Do not use this equipment for purposes or in ways for which it was not intended.**

DATE: \_\_\_\_\_

INSPECTED BY: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

REMARKS: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_