

FOR CONTRACT NO.: 07-4Y5004

# INFORMATION HANDOUT

## **BEECHE SYSTEMS CORP QUIKDECK PLATFORM SYSTEM SAFETY AND OPERATIONS MANUAL**

ROUTE 47  
LOS ANGELES, CALIFORNIA

**ROUTE: 07-LA-47-09/2.0**

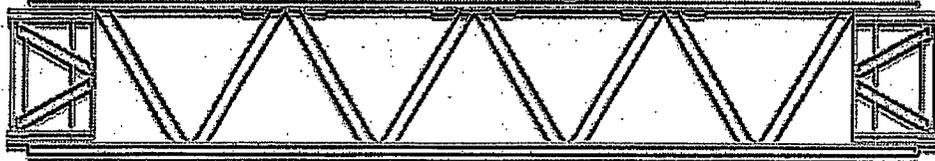
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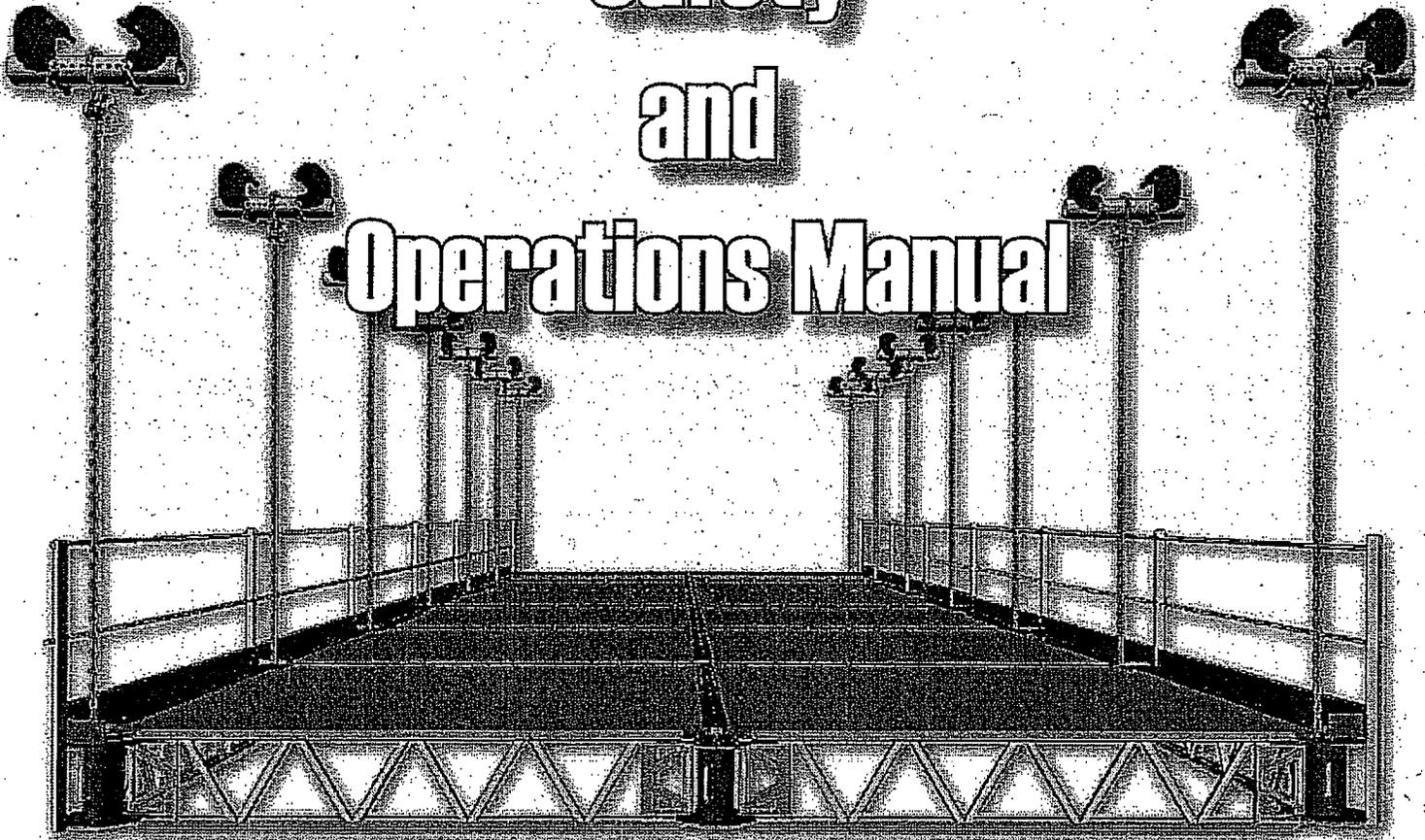
[www.quickdeck.com](http://www.quickdeck.com)



# PLATFORM SYSTEM

**Safety  
and**

**Operations Manual**



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SOM850120  
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### **Mission Statement**

**Consistent with our Philosophy Statement, Beeche Systems Corp. is committed to provide the best Engineered Access Systems in the world. We design, manufacture, and deliver innovative systems that maximize safety and productivity. We will surpass our customers' expectations through continuous improvement of everything we do.**

## Foreword

The purpose of this Safety and Operations Manual is to communicate the principles essential for the safe and efficient installation and operation of the QuikDeck™ Platform System.

Notify Beeche Systems Corp. upon the sale of any component pertaining to the QuikDeck™ Platform System. A copy of this operations manual must be given to the new owner at time of sale.

Safe operation of the QuikDeck™ Platform System is your responsibility - all information in this manual should be thoroughly read and understood prior to installing, working on, relocating or removing the QuikDeck™ Platform System.

Remember - the QuikDeck™ Platform System is only as safe as the crew that is using it. This Safety and Operations Manual, is your most important tool.

Instructions and procedures in this manual are based on the QuikDeck™ Platform System as developed by Beeche Systems Corp. Alteration, substitution and or modification of the QuikDeck™ Platform System or any of its components is strictly forbidden without prior written approval from Beeche Systems Corp. Alteration, substitution, modification or repair of QuikDeck™ Platform System components may cause failure of the platform, resulting in property damage, injury or death.

The following symbols are used throughout this manual to emphasize important information. These symbols are as follows:



**Danger**

- indicates a hazardous situation that, if not avoided, will result in severe injury or death.



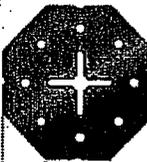
**Warning**

- indicates a potentially hazardous situation that, if not avoided, may result in severe injury or death.

The use of the terms “qualified persons” and “competent persons” are incorporated in this manual.

OSHA’s scaffolding standard defines a qualified person as “one who—by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training, and experience—has successfully demonstrated his/her ability to solve or resolve problems related to the subject matter, the work, or the project”.

OSHA’s scaffolding standard defines a competent person as “one who is capable of identifying existing and predictable hazards in the surroundings or working conditions, which are unsanitary, hazardous to employees, and who has authorization to take prompt corrective measures to eliminate them.”

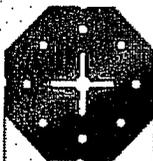


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# General Warning

Read this general warning first.



## Warning

**Safety is a matter of life and death for riggers, installers, operators and bystanders in suspended platform operations. This warning commits you to safe working practices and to achieving safety.**

### 1. YOUR DUTY TO BE SAFE



## Warning

**It is the responsibility of the riggers, installers, operators, as well as their employers, to operate under the employer's control, insuring strict conformity to the following warnings.**

A. Never load the platform above the rated load. Please refer to Section 3.0 "QuikDeck™ Platform System Technical Specifications" for information on load ratings. Overloading can cause failure of the platform, resulting in property damage, serious injury or death.

B. It is imperative for safe and efficient operation that this manual be read and fully understood by the rigger, installer and the operator before rigging, installing, operating or removing the platform. Keep this manual on site for easy reference. Contact Beeche Systems Corp. for replacement copies.

C. Handing over control of the QuikDeck™ Platform System to any party not properly trained in its use is strictly prohibited. Unqualified use of the platform can result in property damage, serious injury or death.

D. Before rigging and operating this platform, the rigger and the operator must be aware of all requirements of federal, state, provincial and local safety regulations applicable to the platform, the entire suspended scaffold system and any component thereof.

E. Never use the QuikDeck™ Platform System for any purpose other than suspended scaffolding applications. Contact Beeche Systems Corp. for review and approval of other applications.

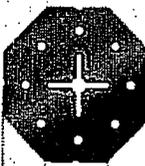
### 2. YOUR DUTY TO INSPECT AND MAINTAIN



## Warning

**It is the responsibility of the riggers, installers, operators, as well as their employers, to ensure the QuikDeck™ Platform System components are properly installed and are free from damage, decay or corrosion.**

A. The platform must be regularly inspected by a competent person professionally trained in the installation, use, relocation, and removal of the QuikDeck™ Platform System. A signed and dated inspection record must be maintained. See Section 9.0 for inspection and maintenance guidelines.



## 1.0 General Warnings

# General Warning

B. Never attempt to repair, substitute, modify or alter QuikDeck™ Platform System components. Always discard damaged QuikDeck™ Platform System components and contact Beeche Systems Corp. for replacement components. Beeche Systems Corp. assumes no responsibility for the consequences of alteration, substitution, modification or repair of QuikDeck™ Platform System components, unless preapproved by Beeche Systems Corp.

C. Failure to Follow any of the warnings above absolves Beeche Systems Corp. from any and all liability.

B. The requirements for personnel during all operations of the QuikDeck™ Platform System are as follows:

- a) Mentally and physically fit for the purpose
- b) Competent for the job to be performed
- c) Must be familiar with the scaffold equipment and regulations (OSHA subpart 'L' "Scaffolds" in CFR-29 part 1926)
- d) Professionally trained for working under the above requirements
- e) Must be comfortable working at heights

C. The QuikDeck™ Platform System can not be managed or operated by any person other than those authorized and trained on the QuikDeck™ Platform System and assigned to the job.

D. Training of riggers, installers and operators must include necessary rescue procedures in the event of an emergency situation.

### 3. YOUR DUTY TO TRAIN AND CONTROL PEOPLE



#### Warning

Compliance with safety rules extends to rigging, installing, operating, relocating, and removing the QuikDeck™ Platform System. These operations can be carried out only after the proper training of riggers, installers and operators has been completed.

A. Rigging, installation, operation, relocation, and removal of the QuikDeck™ Platform System can only be executed by a competent person professionally trained in the rigging, installation, operation, relocation, and removal of the QuikDeck™ Platform System.

### 4. YOUR DUTY TO BE SAFE BEYOND THE PLATFORM



#### Warning

The QuikDeck™ Platform System is safe only if all elements, including associated components and support structures not part of the QuikDeck™ Platform System, are proven to be safe. The QuikDeck™ Platform System can contribute to the required safety only if:

A. All associated components and structures meet the requirements of the applicable safety regulations and requirements, are of the proper quality, and are assembled to form a safe platform.

## 1.0 General Warnings

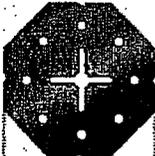
# General Warning

B. Supporting structures and suspension components must be capable of providing the required support for every load applied, both static and dynamic, during the rigging, installation, operation, relocation and removal of the platform.

C. All calculations, design and subsequent work necessary to meet the above requirements must be made by a competent person on the basis of proper technical information.

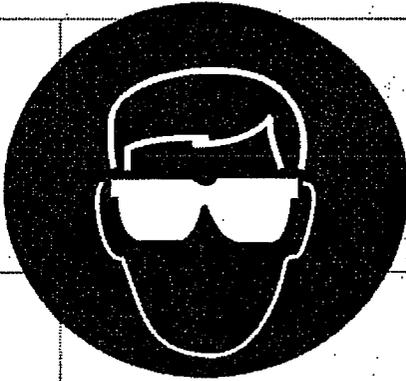
D. While not in operation, equipment should be kept out of reach of unauthorized persons.

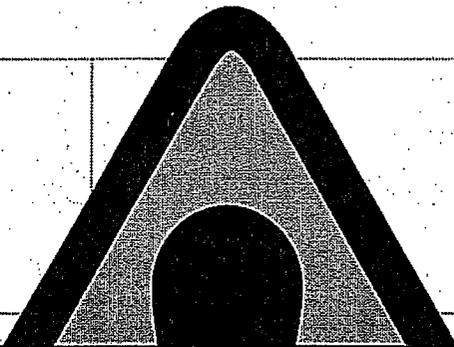
This Safety and Operations Manual does not purport to be all-inclusive nor to supplant or replace other additional safety and precautionary measures to cover usual or unusual conditions. This Safety and Operations Manual has been developed as an aid to users of the Quik-Deck™ Platform System. Beeche Systems is not responsible for the use of this Safety and Operations Manual.



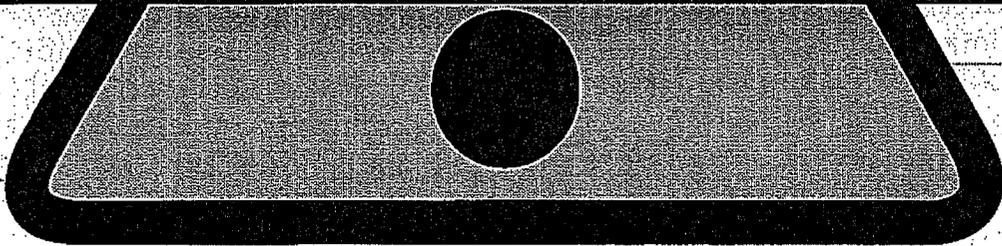
## 2.0 Safety

### 2.0 Safety





Thoroughly read and understand this manual before attempting to rig, install, operate, relocate or remove the QuikDeck™ Platform System. Failure to follow safety guidelines can result in property damage, injury or death.



# 2.0 Safety

## 2.0 General

1.



### SAFETY

It is important to never neglect safety. Due to the risks inherent in the use of suspended scaffolding, every installation of the QuikDeck™ Platform System must be maintained in strict compliance with the QuikDeck™ Platform System guidelines and specifications and in accordance with specifications of other manufacturer's products incorporated into the system. To ensure safe operation of the QuikDeck™ Platform System, inspection procedures must be performed by a competent person at the specified intervals. A "competent person" is one who is capable of identifying existing and predictable hazards and has authorization to take prompt corrective measures to eliminate them.

### TRAINING

All employees installing or working on the QuikDeck™ Platform System must be trained by a qualified person to recognize the hazards associated with the type of scaffold being used and how to control or minimize those hazards. The training must include fall hazards, falling object hazards, electrical hazards, proper use of the scaffold, and handling of materials. This manual is not a regulations compliance manual or a general training guide on suspended scaffold operations. For compliance with OSHA regulations, please refer to subpart 'L' "Scaffolds" in CFR 29 1926.



### Warning

Property damage, injury or death can result from failure to comply with the QuikDeck™ Platform System guidelines and applicable federal, state, and local safety regulations. Read and understand these safety guidelines before rigging, installing, operating, relocating or removing any QuikDeck™ Platform System components.

## 2.1 Rigging Safety

### RIGGING SAFETY

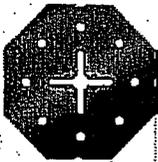
Prior to rigging and operating the platform, the qualified rigger must become aware of all requirements of federal, state, provincial and local safety regulations not only applicable to the platform but also to the entire suspended scaffold system and any component of it.

It is imperative, for safe and effective use, that a trained and qualified person be present, at all times, during assembly, hoisting, lowering, traversing, disassembly and any other operation involving hoisting or rigging equipment.



#### **Danger**

Improper rigging or hoisting of QuikDeck™ Platform System components or accessories can cause failure of the accessory or of the platform, resulting in property damage, injury or death.



## 2.2 Degraded Decking

# 1

# Degraded Decking



**Danger**

Always inspect Decking Panels prior to installation.

Damaged Decking Panels can fail under load, resulting in property damage, injury or death.

Damaged Decking Panels should never be utilized for decking on the QuikDeck™ Platform System.

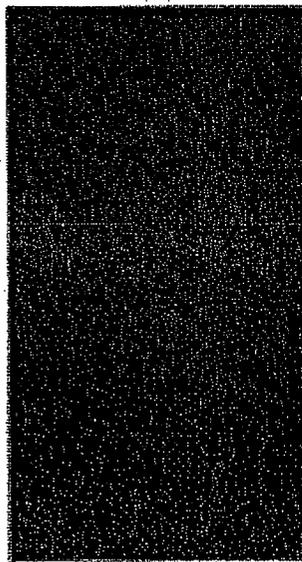
Decking Panels should be inspected prior to installation and after removal.

Decking Panels suspected of damage should be immediately removed from service and carefully inspected before reuse.

Proper inspection, storage, handling and use are necessary to ensure structural integrity and safe application of Decking Panels.

Use of damaged Decking Panels may result in property damage, injury or death.

Refer to Section 9.0  
“Platform Inspection and Maintenance”  
for additional information on the  
inspection, damage prevention and  
storage of plywood Decking.



**YES**



**NO**

## 2.3 Slack Suspension

# Slack Suspension

2

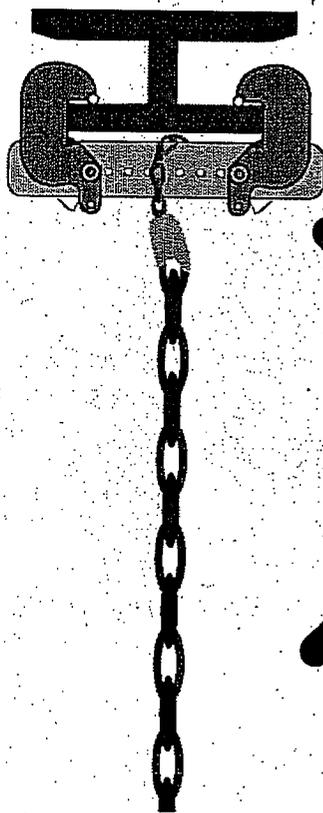


### Danger

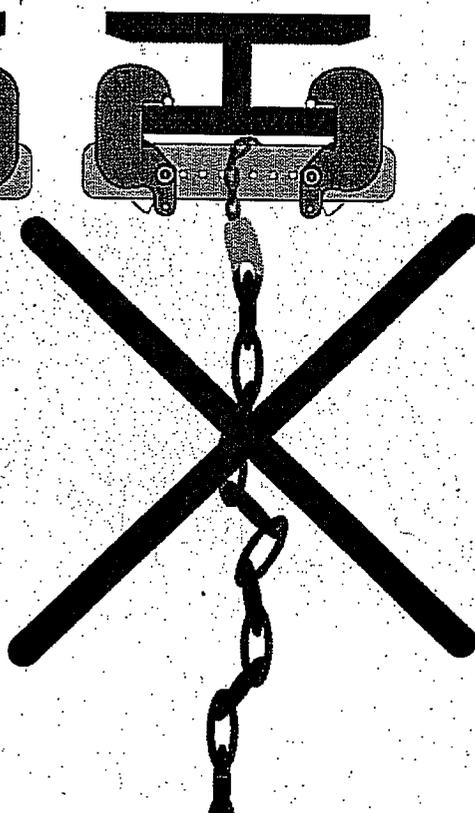
Regularly inspect chain or wire rope suspenders for slack. Slack in a suspender indicates that the suspender is not supporting load. Load applied to the platform near a slack suspender is transferred to surrounding suspenders. This may result in an overloaded condition in the surrounding suspenders. Overloaded suspenders can cause failure of the platform, resulting in property damage, serious injury or death.

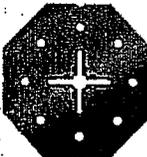
If a slack suspender is observed, immediately install an additional temporary suspender, remove all loads from the area and re-tension suspender.

**YES**



**NO**





## 2.4 Fall Protection

# 3

# Fall Protection

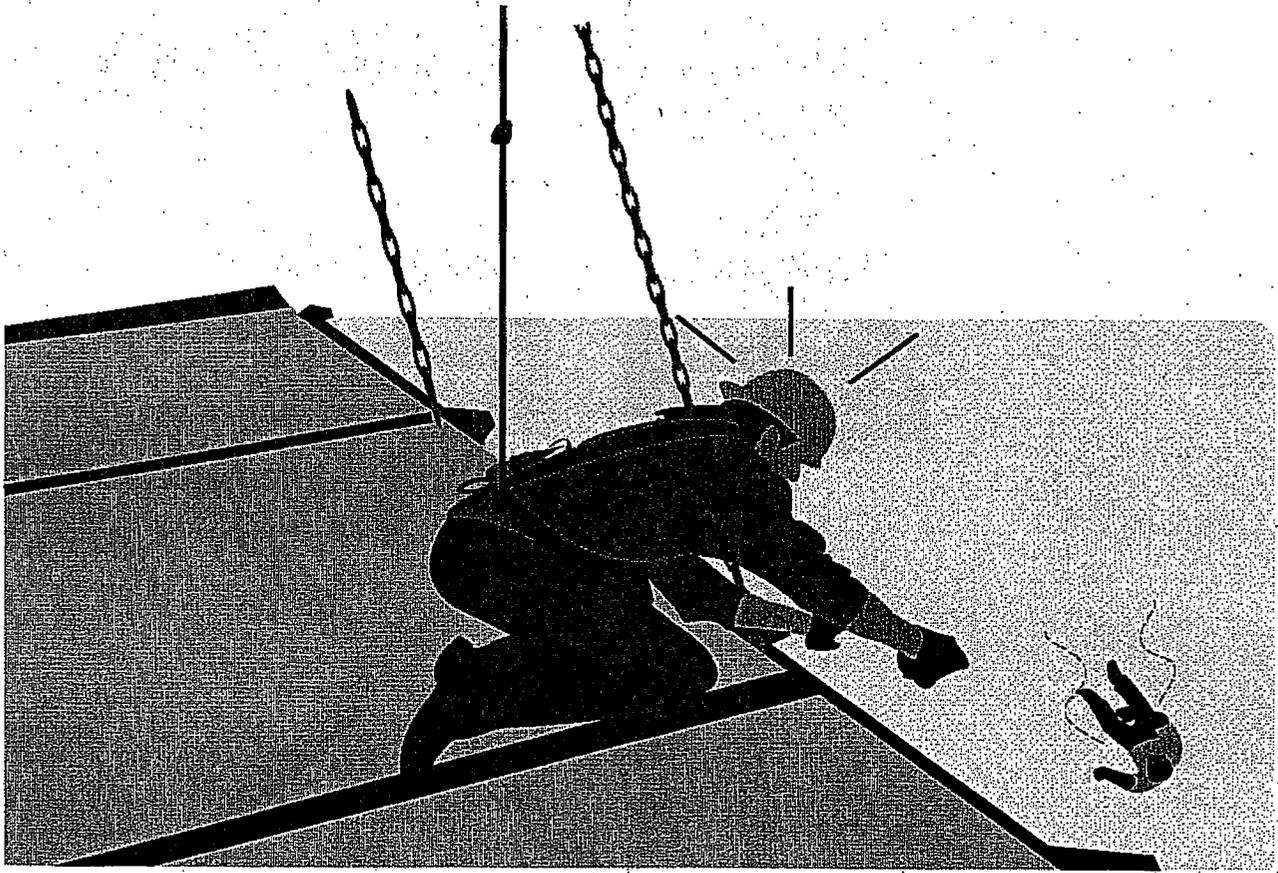


### Danger

Always use a Fall Arrest System while installing, removing, or relocating the QuikDeck™ Platform System.

Failure to use a Fall Arrest System can result in serious injury or death.

Ensure that you are trained on the usage of your Fall Arrest System and that it is in good condition.



## 2.5 Falling Objects

# Falling Objects

4



### Danger

Always secure the area under and around the platform to prevent injury from falling objects.

Falling objects may consist of platform components being dropped during installation, relocation or removal of the platform or tools, equipment, supplies or debris dropped during use of the platform. Falling objects can cause property damage, serious injury or death.

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

Always install Toe Boards and Railing Posts to ensure safe working conditions under the platform.

Refer to OSHA 1926.451 (h) (1) & (2) and (3) for canopy structure information to protect workers below from falling objects.



## 2.6 Overloading

# 5

### Overloading

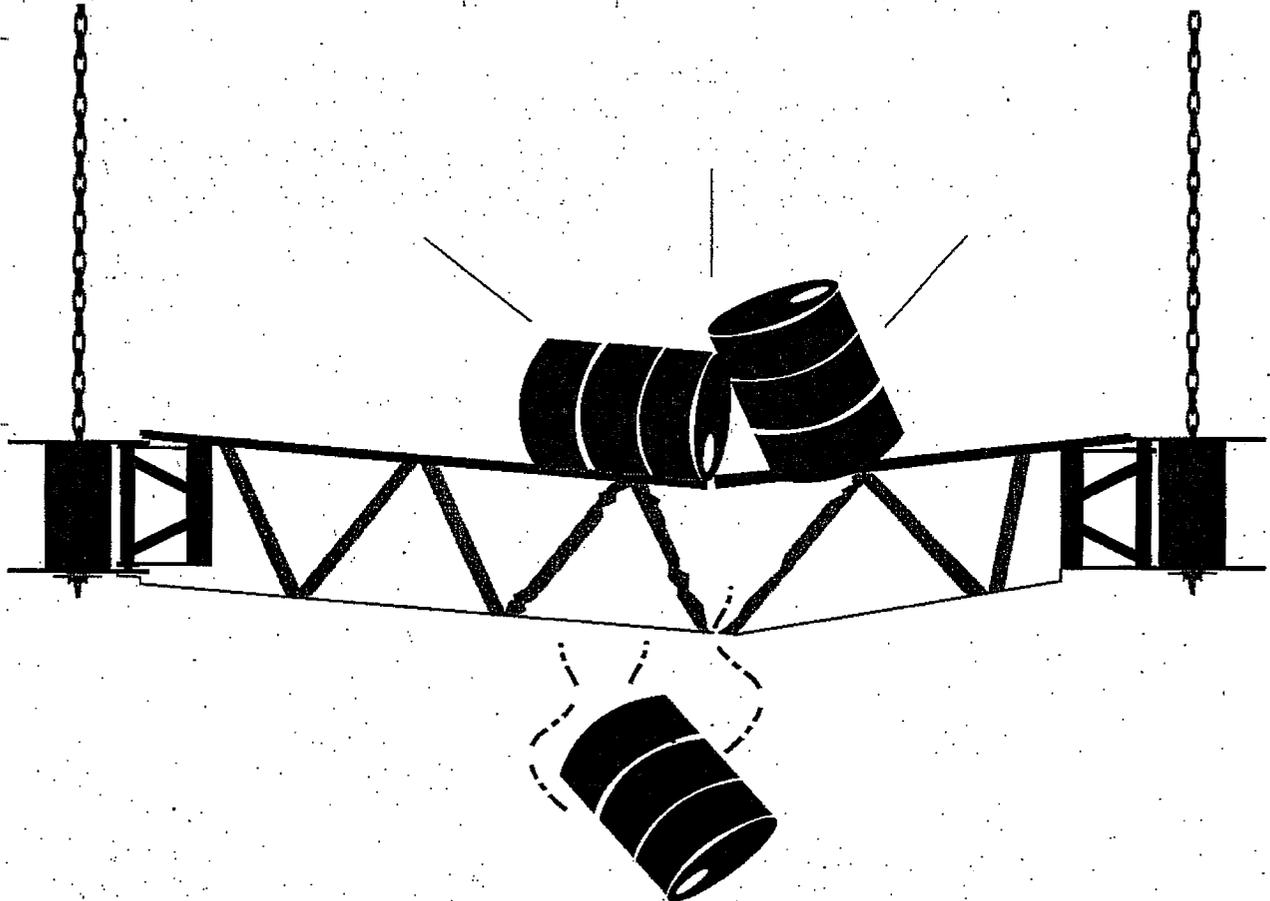


**Danger**

Never overload the platform.

Overloaded conditions can occur during installation or removal of the platform by the staging of platform components. Overloaded conditions can occur during use of the platform by the staging of equipment, storage of supplies or the accumulation of grit or debris. Overloaded conditions can cause failure of the platform, resulting in property damage, serious injury or death.

Always be aware of the load you are applying to the platform and never exceed system load ratings.



## 2.7 Cantilevering

# Cantilevering

# 6



**Danger**

The QuikDeck™ Platform System was designed to support a maximum of 2 men in a cantilevered condition of **no more than 2 grids or 16 ft (4.9 m)** during installation **ONLY**.

Cantilevering in excess of 2 grids or 16 ft (4.9 m) during installation can cause failure of the platform, resulting in property damage, serious injury or death.

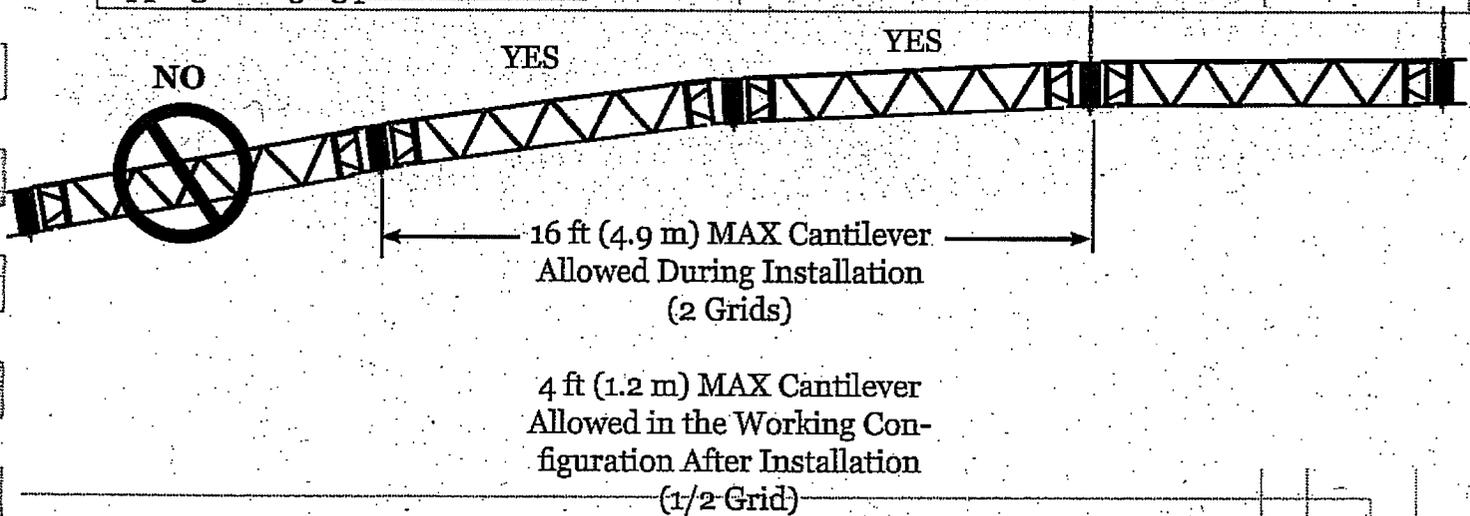
A maximum cantilever of 4 ft (1.2 m) is permitted in a final working configuration with live load ratings up to 75 psf (3.6 kN/m<sup>2</sup>). 4 ft (1.2 m) cantilever in final working condition can be achieved using 1/2 or 4 ft Joists or 8 ft Joist with Auxiliary Suspender Mounting Brackets installed using hard points at mid-span.

Application of Auxiliary Suspender Mounting Brackets must be in accordance with latest revision of the QuikDeck™ Safety and Operations Manual. Contact Beeche Systems Corp. for additional copies of the latest revision of the QuikDeck Safety and Operations Manual.

Exceeding maximum cantilever of 4 ft (1.2 m) in a final working configuration can cause failure of the platform, resulting in property damage, serious injury or death.

Consult Beeche Systems Corp. for Engineering support if an installation requires exceeding the above maximum 4 ft (1.2 m) cantilever ratings.

Do not exceed a 1 grid or 8 ft (2.4 m) cantilever when building out from an initial 16 ft x 16 ft (4.9 m x 4.9 m) staging platform without appropriate uplift bracing or counterweight to prevent tipping of staging platform.





## 2.8 Deck Uplift

**7**

### Deck Uplift

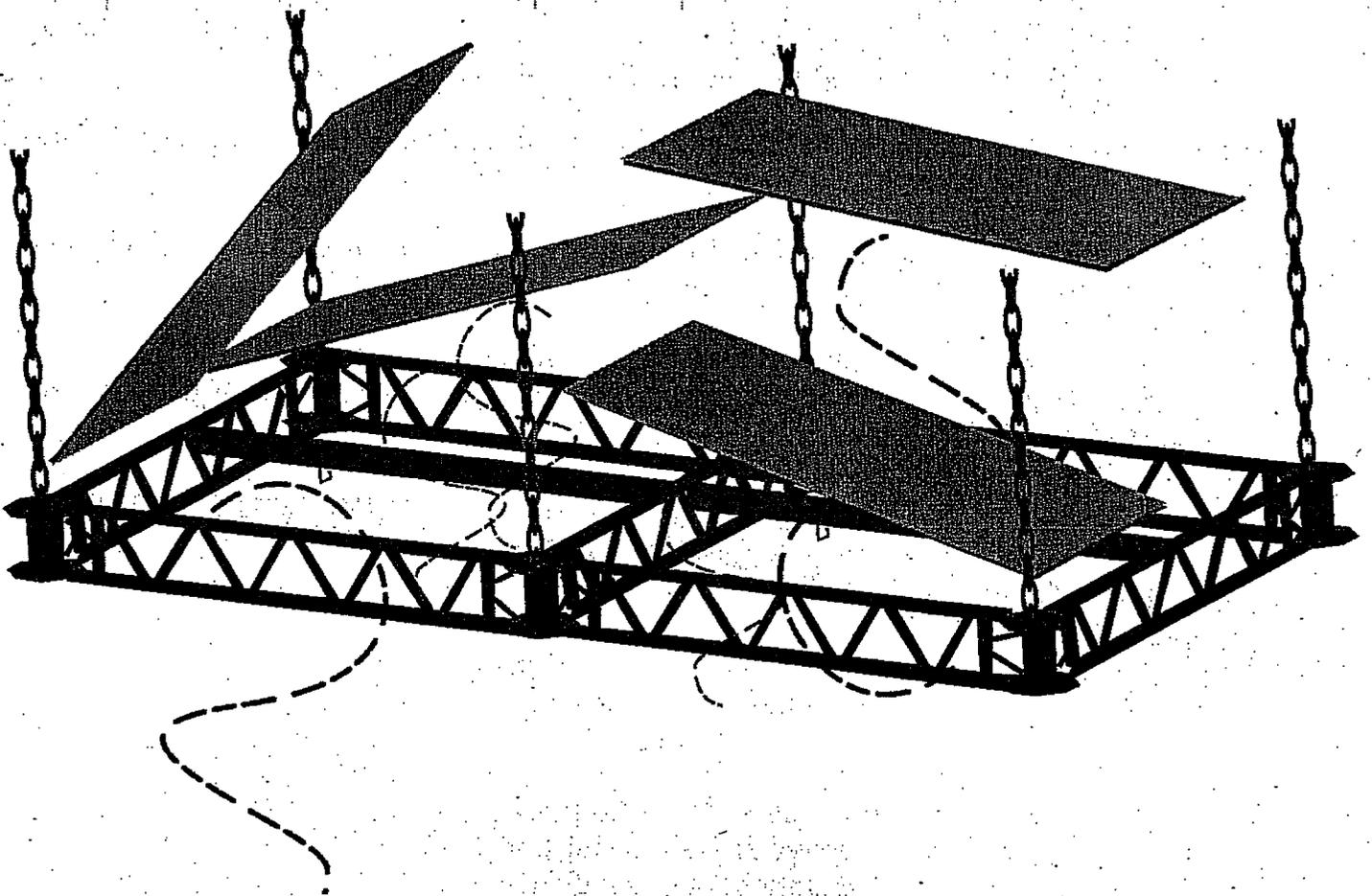


**Danger**

Install Deck Retainers and Toe Boards immediately after Decking has been installed, using all required fasteners.

Wind uplift can dislodge decking creating a falling hazard or falling object hazard, resulting in property damage, serious injury or death.

Always be aware of uplift danger and install Deck Retainers and Toe Boards as soon as possible.



## 2.9 Severe Weather

# Severe Weather

8



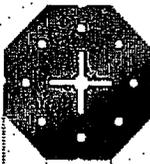
### Danger

Evacuate the platform if severe weather is predicted or observed.

Severe weather conditions can induce excessive wind loads, resulting in failure of the platform, property damage, serious injury or death.

Always be aware of severe weather conditions and evacuate the platform at the first sign of severe weather.





## 2.0 Safety

### 2.10 Fire

# 9

## Fire

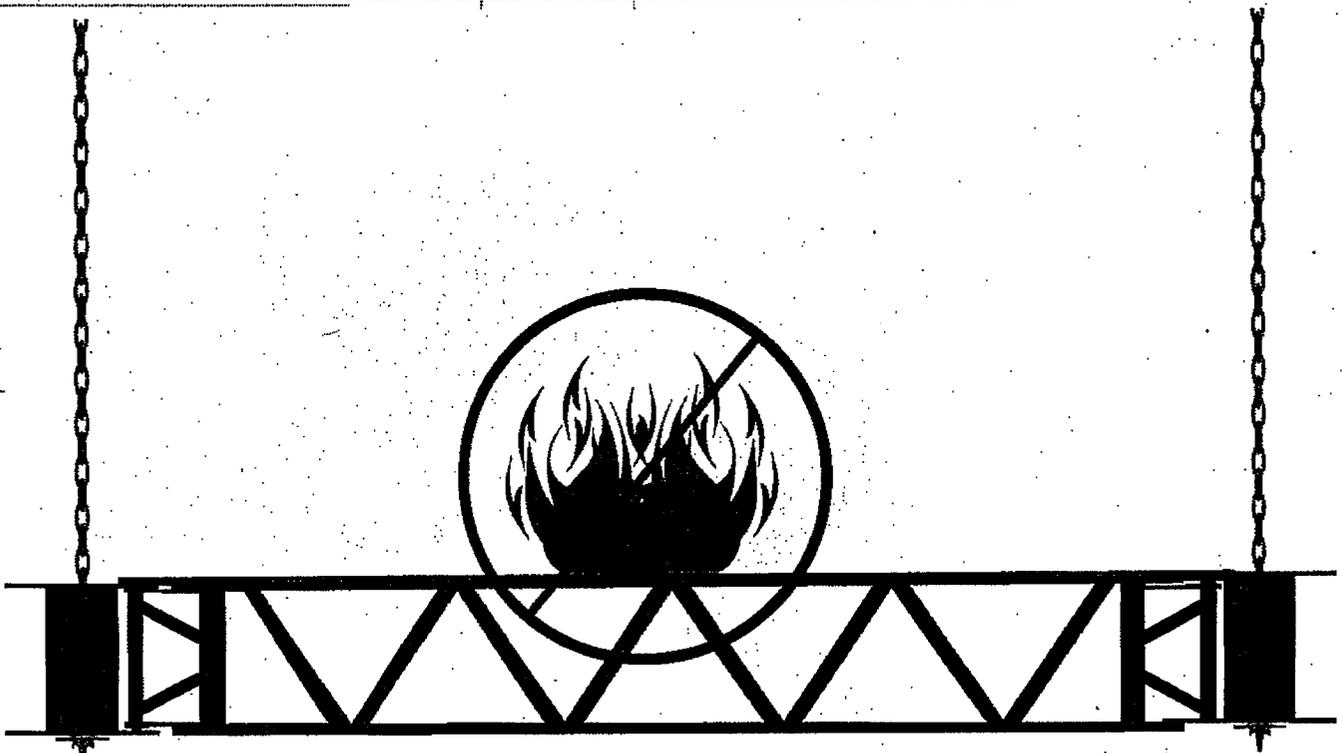


### Danger

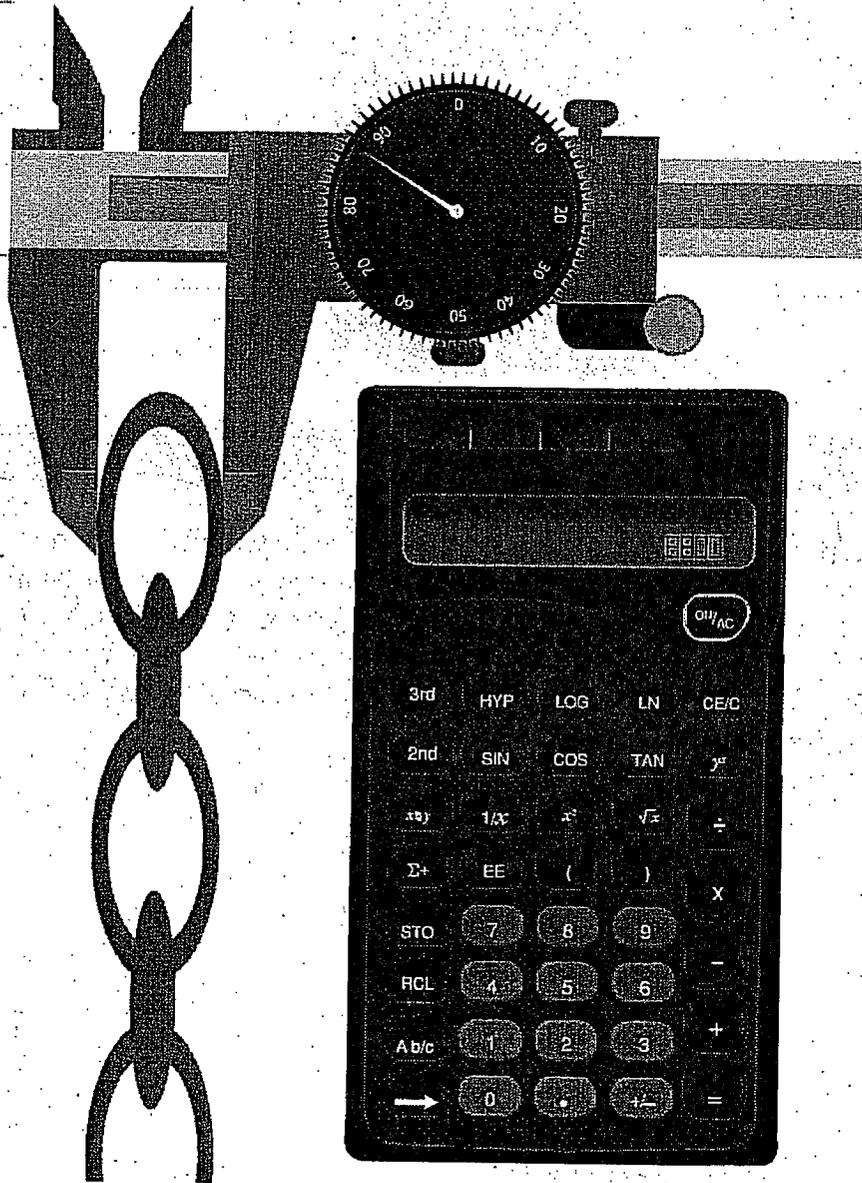
Always shield plywood decking from sparks and flame and never use or store flammable liquids on the platform.

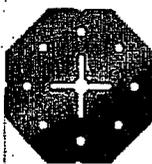
Sparks, flame and gasoline or other flammable liquids pose a serious risk of fire. Fire can cause failure of the platform, resulting in property damage, serious injury or death. Per OSHA CFR 29 part 1926, gasoline powered equipment is prohibited on suspended scaffolding.

Always be aware of fire hazards and use APA approved fire retardant plywood when required by specification or conditions.



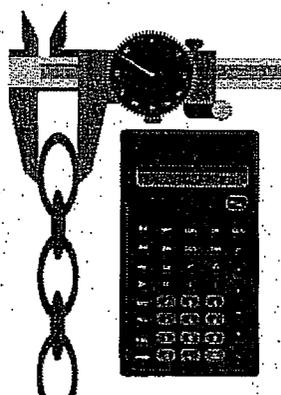
# 3.0 Technical Specifications





## 3.0 QuikDeck™ Technical Specifications

### 3.0 General



#### *TECHNICAL*

The following section contains the technical specifications for the QuikDeck™ Platform System. These specifications are based on testing and calculations of component load capacity. Please consult Beeche Systems Corp. for further technical information not covered in this section.

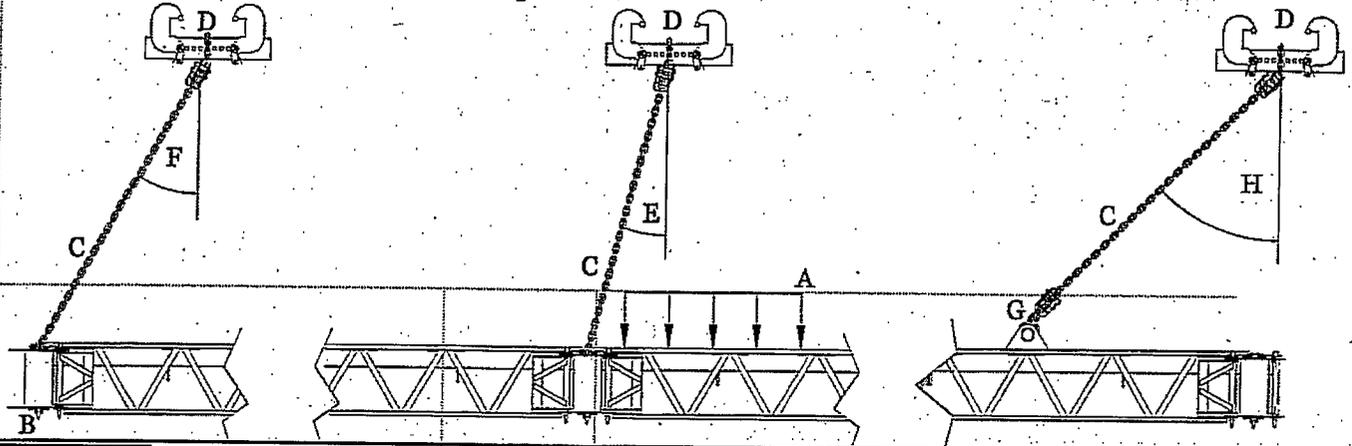
#### *IMPORTANT*

The QuikDeck™ Platform System has traversing and hoisting capability for small platforms. Please consult Beeche Systems Corp. for additional information and engineering assistance.

**Thoroughly review and understand all ratings and capacities before using the QuikDeck™ Platform System. Please consult Beeche Systems Corp. for additional information and engineering assistance.**

# 3.0 QuikDeck™ Technical Specifications

3.1



**Warning** All ratings specified below apply only to standard QuikDeck™ Platform System components in “as new” condition. Do not alter, add, modify the system, or substitute components without written authorization from Beech Systems Corp.

## MULTI-POINT SUSPENDED SCAFFOLD APPLICATIONS

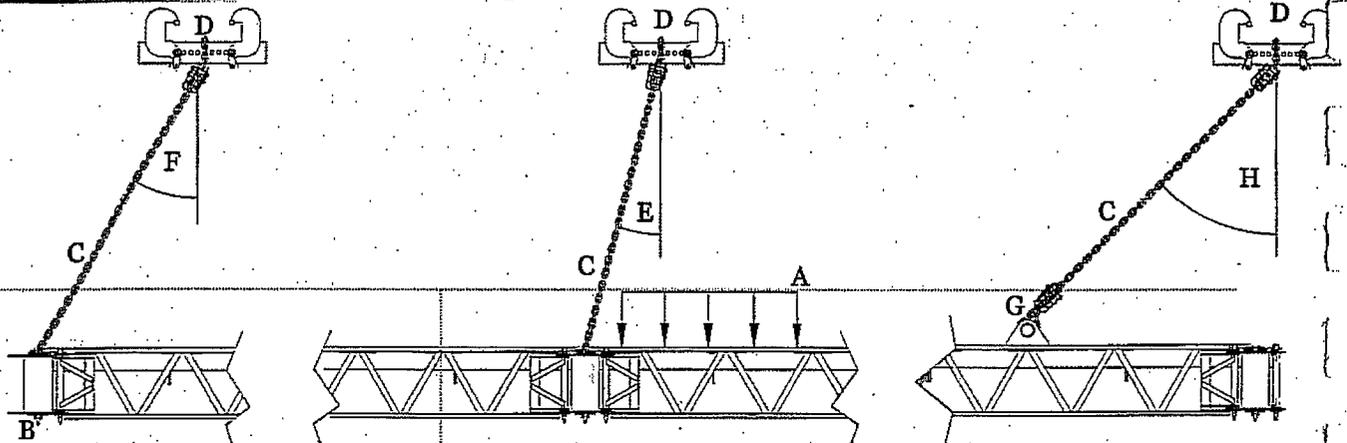
(Factor of Safety = 4:1)<sup>1</sup>

		Susponder Grid Nominal Configurations	Ratings		
			16 ft x 16 ft (4.9 m x 4.9 m)	8 ft x 16 ft (2.4 m x 4.9 m)	8 ft x 8 ft (2.4 m x 2.4 m)
SYSTEM	CODE				
	A	Uniform Live Load	25 psf (1.2 kN/m <sup>2</sup> )	50 psf (2.4 kN/m <sup>2</sup> )	75 psf (3.6 kN/m <sup>2</sup> )
		Uniform Live Load + Concentrated Load Concentrated loads act on 4 ft <sup>2</sup> (37 m <sup>2</sup> ) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ module. Loads must be a minimum of 4 ft (1.22 m) apart.	N/A + 1000 lbs (+ 4.45 kN)	25 psf + 1000 lbs (1.2 kN/m <sup>2</sup> + 4.45 kN)	50 psf + 1000 lbs (2.4 kN/m <sup>2</sup> + 4.45 kN)
	Uplift Load <sup>2</sup>	30 psf (1.44 kN/m <sup>2</sup> )	30 psf (1.44 kN/m <sup>2</sup> )	30 psf (1.44 kN/m <sup>2</sup> )	
COMPONENTS		Joist	25 psf (1.2 kN/m <sup>2</sup> )	50 psf (2.4 kN/m <sup>2</sup> )	75 psf (3.6 kN/m <sup>2</sup> )
	B	Node <sup>3</sup>	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)
		3/4 in. (19 mm) BB Grade OES Plyform Structural 1	100 psf (4.8 kN/m <sup>2</sup> )	100 psf (4.8 kN/m <sup>2</sup> )	100 psf (4.8 kN/m <sup>2</sup> )
	C	3/8 in. (9.5 mm) Grade 100 Chain <sup>4</sup>	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)
	D	12 in. (304.8 mm) Beam Clamp Assembly	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)
	E	Interior Susponder Angle <sup>5</sup>	10°	15°	30°
	F	Perimeter Susponder Angle <sup>5</sup>	30°	30°	45°
	G	Auxiliary Mounting Bracket (Vertical Load)	4,200 lbs (18.68 kN)	4,200 lbs (18.68 kN)	4,200 lbs (18.68 kN)
	H	Auxiliary Mounting Bracket Angle <sup>5</sup>	45°	45°	45°
		Chain Coupler	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)
		Chain to Wire Rope Connector	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)

1: OSHA mandates a Factor of Safety of 4:1 for Man-Riding Multi-Point Suspended Scaffold Applications, 2: With applicable uplift restraints, 3: Straight Pull only. See “Suspension Loads” Section 3.5, 4: Inquire with Beech Systems Corp. if wire rope suspenders are preferred, 5: Angles relative to vertical.

# 3.0 QuikDeck™ Technical Specifications

## 3.1



**Warning** All ratings specified below apply only to standard QuikDeck™ Platform System components in “as new” condition. Do not alter, add, modify the system, or substitute components without written authorization from Beeche Systems Corp.

### PROTECTIVE SHIELD APPLICATIONS

(Factor of Safety = 2:1)

Suspender Grid Nominal Configurations		Ratings			
		8 ft x 16 ft <sup>6</sup> (2.4 m x 4.9 m) <sup>6</sup>	8 ft x 8 ft (2.4 m x 2.4 m)	8 ft x 8 ft <sup>6</sup> (2.4 m x 2.4 m) <sup>6</sup>	
SYSTEM	<b>CODE</b>				
	<b>A</b>	Uniform Live Load	100 psf <sup>6</sup> (4.79 kN/m <sup>2</sup> ) <sup>6</sup>	125 psf (5.98 kN/m <sup>2</sup> )	150 psf <sup>6</sup> (7.18 kN/m <sup>2</sup> ) <sup>6</sup>
		Uniform Live Load + Concentrated Load Concentrated loads act on 4 ft <sup>2</sup> (37 m <sup>2</sup> ) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ module. Loads must be a minimum of 4 ft (1.22 m) apart.	75 PSF + 1000 lbs (3.59 kN/m <sup>2</sup> + 4.5 kN)	100 psf + 2000 lbs (4.79 kN/m <sup>2</sup> + 8.9 kN)	100 psf + 2000 lbs (4.79 kN/m <sup>2</sup> + 8.9 kN)
	Uplift Load <sup>2</sup>	30 psf (1.44 kN/m <sup>2</sup> )	30 psf (1.44 kN/m <sup>2</sup> )	30 psf (1.44 kN/m <sup>2</sup> )	
COMPONENTS		Joist	100 psf (4.79 kN/m <sup>2</sup> )	150 psf (7.18 kN/m <sup>2</sup> )	150 psf (7.18 kN/m <sup>2</sup> )
	<b>B</b>	Node <sup>3</sup>	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)
		3/4 in. (19 mm) BB Grade OES Plyform Structural 1	200 psf (9.57 kN/m <sup>2</sup> )	200 psf (9.57 kN/m <sup>2</sup> )	200 psf (9.57 kN/m <sup>2</sup> )
	<b>C</b>	3/8 in. (9.5 mm) Grade 100 Chain <sup>4</sup>	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)	8,800 lbs (39.14 kN)
	<b>D</b>	12 in. (304.8 mm) Beam Clamp Assembly	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)
	<b>E</b>	Interior Suspender Angle <sup>5</sup>	15°	5°	30°
	<b>F</b>	Perimeter Suspender Angle <sup>5</sup>	30°	30°	45°
	<b>G</b>	Auxiliary Mounting Bracket (Vertical Load)	4,200 lbs (18.68 kN)	4,200 lbs (18.68 kN)	4,200 lbs (18.68 kN)
	<b>H</b>	Auxiliary Mounting Bracket Angle <sup>5</sup>	45°	45°	45°
		Chain Coupler	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)
		Chain to Wire Rope Connector	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)	17,600 lbs (78.29 kN)

2: With applicable uplift restraints, 3: Straight Pull Only See “Suspension Loads” Section 3.5,

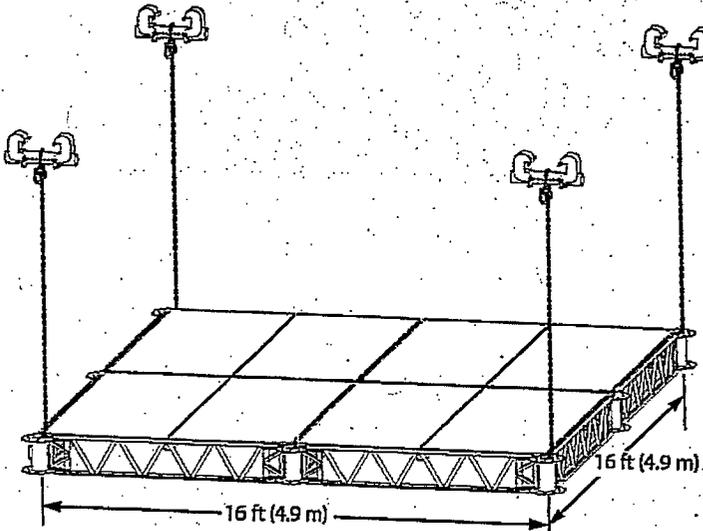
4: Inquire with Beeche Systems Corp. if wire rope suspenders are preferred, 5: Angles relative to vertical, 6: Chain is two-parted in this configuration.

# 3.2 QUIKDECK™ PLATFORM SYSTEM RATINGS MULTI-POINT SCAFFOLD

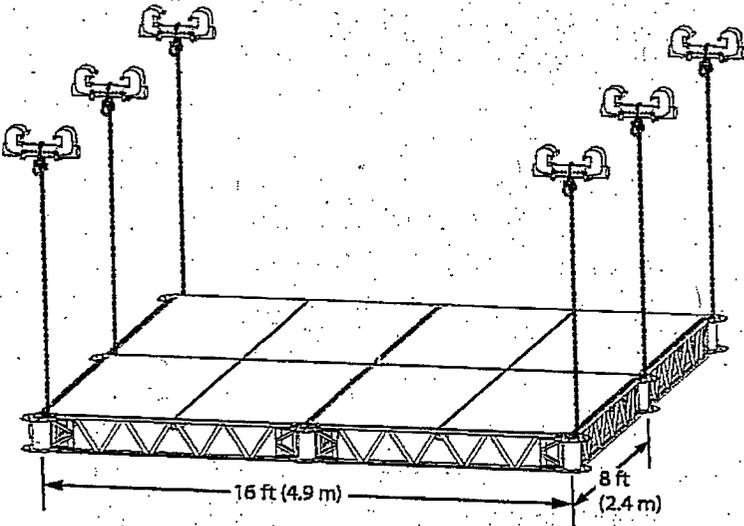
## PLATFORM LOAD RATING

“Pounds per Square Foot” or “Kilonewton per square meter” (metric) is a measure of the amount of load applied over a given area of platform. Pounds per Square Foot is abbreviated PSF. Kilonewton per square meter is abbreviated kN/m<sup>2</sup>.

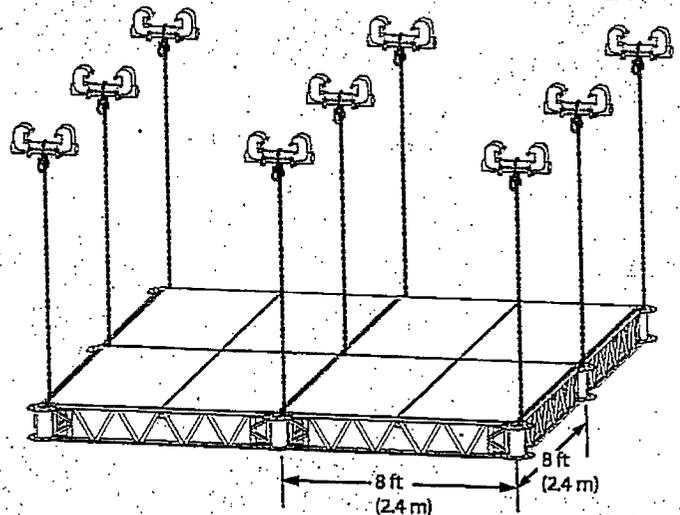
The PSF (kN/m<sup>2</sup>) rating of the QuikDeck™ Platform System is dependant upon suspender spacing and configuration. The illustrations below demonstrate the three standard QuikDeck™ Platform System suspender configurations and their respective ratings.



16 ft x 16 ft  
(4.9 m x 4.9 m)  
25 psf  
(1.2 kN/m<sup>2</sup>)



8 ft x 16 ft  
(2.4 m x 4.9 m)  
50 psf  
(2.4 kN/m<sup>2</sup>)



8 ft x 8 ft  
(2.4 m x 2.4 m)  
75 psf  
(3.6 kN/m<sup>2</sup>)



# 3.0 QuikDeck™ Technical Specifications

## 3.3 LOAD CAPACITY MULTI-POINT SCAFFOLD

Maximum Allowable Material Loading			
Concentrated load acts on a 4 ft <sup>2</sup> (.37 m <sup>2</sup> ) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ Module. Load must be a minimum 4 ft (1.2 m) apart.			
PLATFORM CONFIGURATION			
DRAWING REF.	25 psf (1.2 kN/m <sup>2</sup> )	50 psf (2.4 kN/m <sup>2</sup> )	75 psf (3.6 kN/m <sup>2</sup> )
	16 ft X 16 ft (4.9 m x 4.9 m)	8 ft X 16 ft (2.4 m x 4.9 m)	8 ft X 8 ft (2.4 m x 2.4 m)
A	3 in. Max (76 mm Max)	7 in. Max (177 mm Max)	10 in. Max (254 mm Max)
B	1 in. Max (25 mm Max)	2 in. Max (50 mm Max)	3 in. Max (76 mm Max)
C*	1	2	4
D*	0	1	1
E*	8 Sheets	16 Sheets	27 Sheets
F*	4 in. (101 mm)	8 in. (203 mm)	12 in. (304 mm)

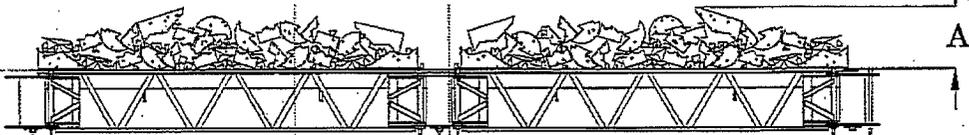


### Danger

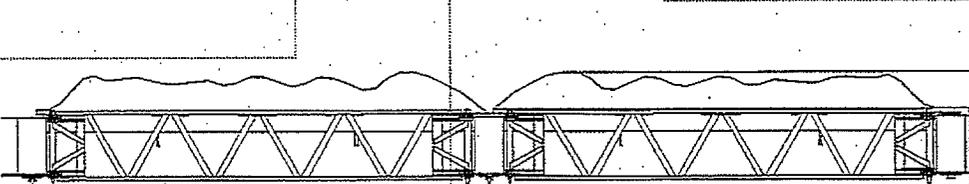
Failure to adhere to these Load Capacity Requirements will result in property damage, severe injury or death.

\* No additional loads permitted

CONCRETE  
DEBRIS



GRIT



CONCENTRATED  
LOAD

55 Gal. (208.2 Liter)  
Drum, 22 in. (559 mm)  
Dia. C

1000 lbs  
(4.5 kN)

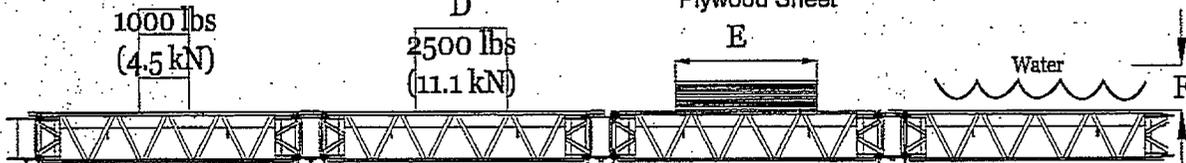
4-ft X 4-ft X 4-ft  
(1.2 m x 1.2 m x 1.2m)  
Crate D

2500 lbs  
(11.1 kN)

4 ft X 8 ft (1.2 m x 2.4 m)  
Plywood Sheet E



Water F



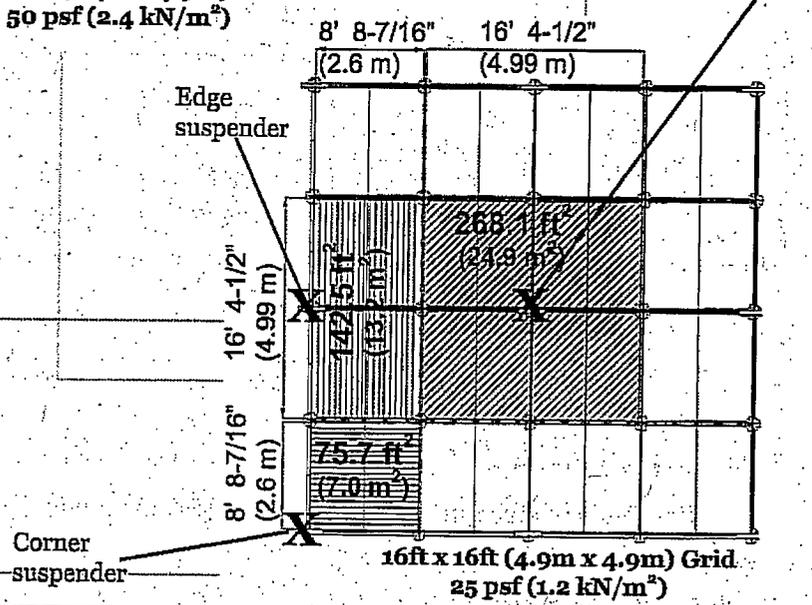
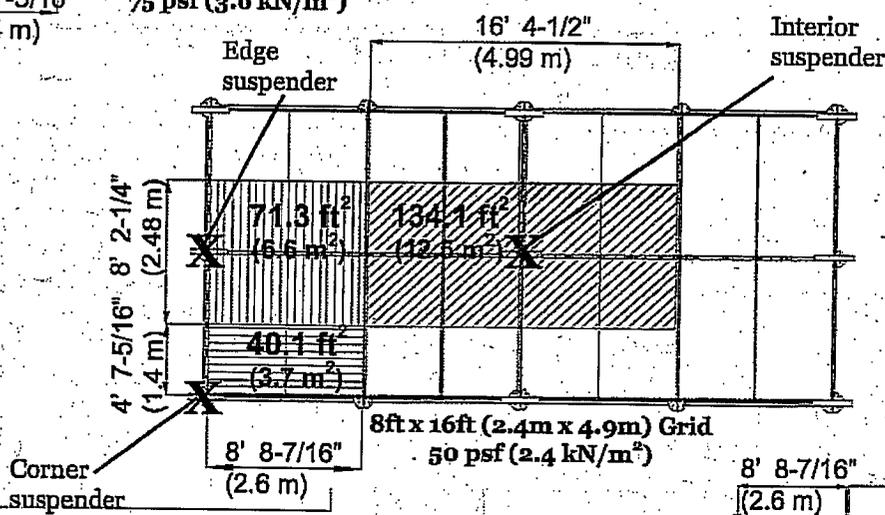
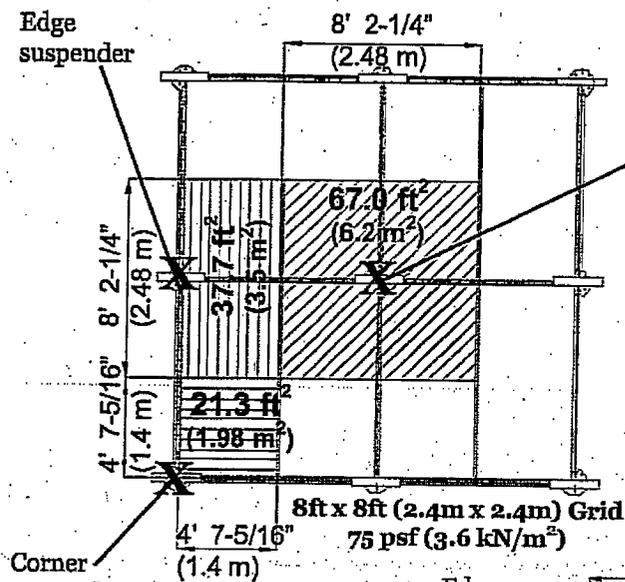
## 3.4 TRIBUTARY AREA

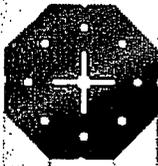
**TRIBUTARY**

Tributary area is the area of platform suspended by a specific susponder.

The shaded sections represent the tributary areas of the platform supported by their respective suspenders.

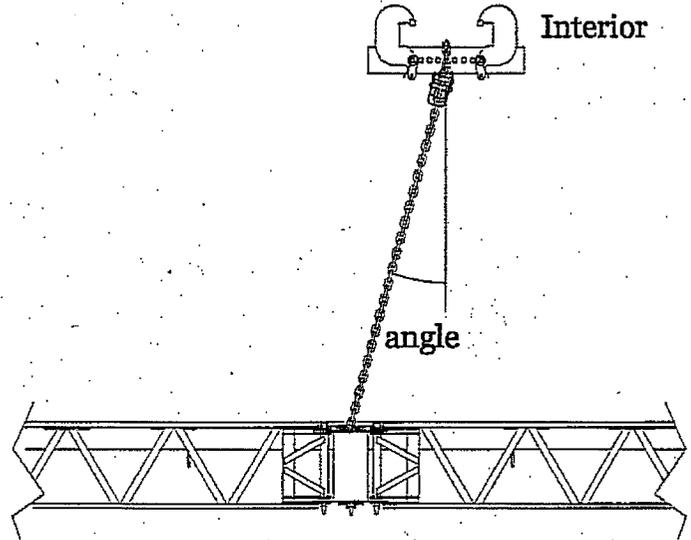
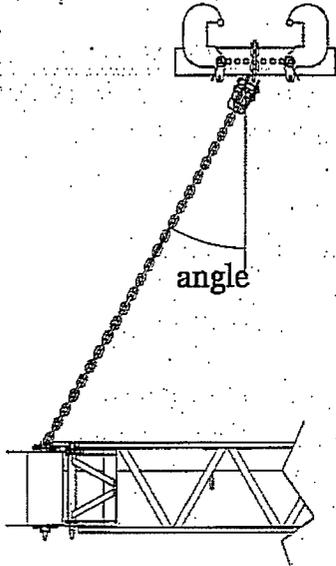
The largest tributary area is found on an interior susponder. Thus, susponder loadings are generally greater for interior suspenders.





# 3.0 QuikDeck™ Technical Specifications

## 3.5 SUSPENDER LOADS



### SUSPENDER LOADS

#### Multi-Point Scaffold

All loads derived from live load + 6 psf (.29 kN/m<sup>2</sup>) deadload.

Uniform Load Rating	Nominal Tributary Area	Suspender Angle				
		Never Exceed The Load/Angle Combinations Without Written Approval from Beeche Systems Corp.				
		0°	10°	15°	30°	45°
<b>25 psf</b> (1.2 kN/m <sup>2</sup> ) Live Load	16 ft x 16 ft (4.9 m x 4.9 m) Interior	8312 lbs (36.97 kN)	8441 lbs (37.55 kN)	N/A	N/A	N/A
	8 ft x 16 ft (2.4 m x 4.9 m) Perimeter	4418 lbs (19.65 kN)	4486 lbs (19.95 kN)	4574 lbs (20.36 kN)	5101 lbs (22.69 kN)	N/A
<b>50 psf</b> (2.4 kN/m <sup>2</sup> ) Live Load	8 ft x 16 ft (2.4 m x 4.9 m) Interior	7508 lbs (33.39 kN)	7624 lbs (33.91 kN)	7773 lbs (34.57 kN)	N/A	N/A
	8 ft x 8 ft (2.4 m x 2.4 m) Perimeter	4227 lbs (18.80 kN)	4294 lbs (19.10 kN)	4376 lbs (19.46 kN)	4881 lbs (21.71 kN)	N/A
<b>75 psf</b> (3.6 kN/m <sup>2</sup> ) Live Load	8 ft x 8 ft (2.4 m x 2.4 m) Interior	5430 lbs (24.15 kN)	5514 lbs (24.52 kN)	5621 lbs (25.00 kN)	6270 lbs (27.89 kN)	N/A
	4 ft x 8 ft (1.2 m x 2.4 m) Perimeter	3057 lbs (13.60 kN)	3104 lbs (13.81 kN)	3165 lbs (14.08 kN)	3530 lbs (15.70 kN)	4323 lbs (19.23 kN)

For loads to structure: add 60 lbs (.27 kN) for Beam Clamp Assembly + 1.5 lbs/ft (.023 kN/m) of chain.

N/A = Not Allowed

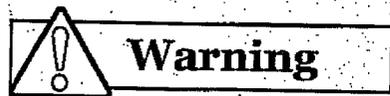
## 3.6 USING ANGLED SUSPENDERS

### USING ANGLED SUSPENDERS

When using suspenders at an angle, it is important to insert the chain in the proper Node chain slot.

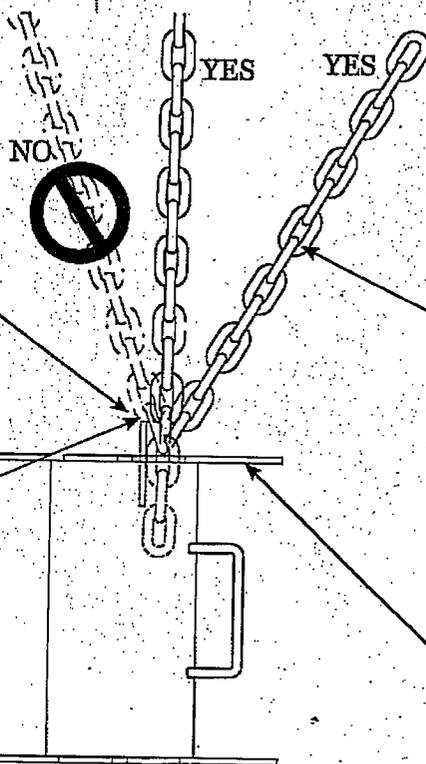
The Node is equipped with 4 chain slots - one chain slot for each of four quadrants. Chain should be inserted into a chain slot such that the load on the chain seats the chain further into the slot, rather than pulling the chain out of the slot and applying side load against the Chain Retainer. The Chain Retainer is designed to prevent the chain from being withdrawn from the Node - the Chain Retainer is NOT designed to take side load from an angled suspender.

Failure to insert the chain in the proper chain slot could cause failure of a suspender, resulting in property damage, serious injury or death. See Maximum Allowable Suspender Angles on Pages 19, 20 and 24 and refer to Node (4.2) in Section 4.0 "Components".



#### Warning

DO NOT load Chain against Chain Retainer Pin when using suspenders on an angle

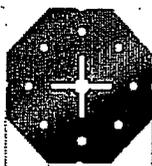


See Section 3.5 "Suspender Loads" for maximum allowable chain tension/angle depending on platform rating and suspension location.

3/8 (9.5 mm) Grade 100 Suspension Chain (4.9)

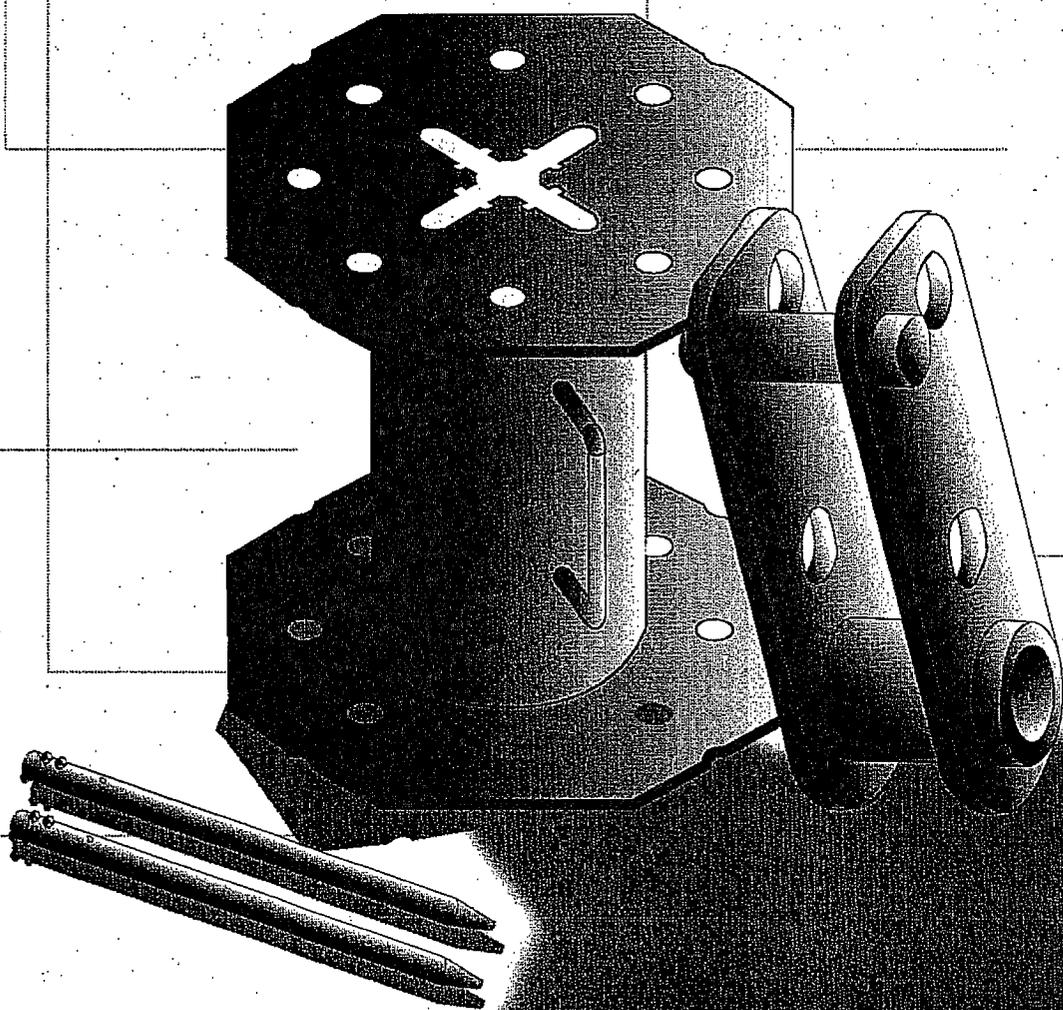
Chain Retainer Pin (4.10)

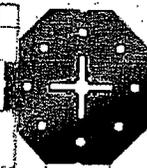
Node (4.2)



## 4.0 QuikDeck™ Components

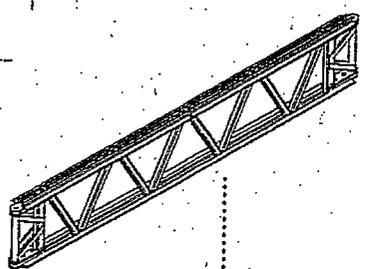
# 4.0 Components



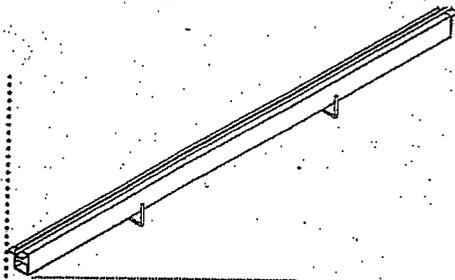


# 4.0 QuikDeck™ Components

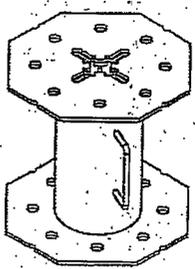
## Platform Components



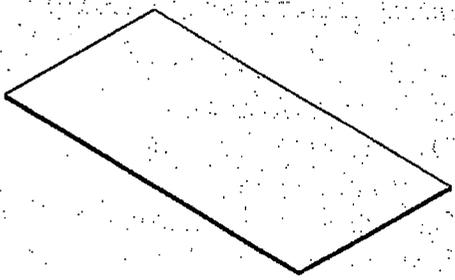
4.1 Joist



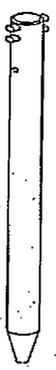
4.4 Deck Support



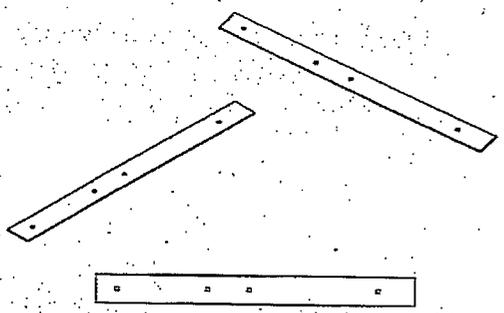
4.2 Node



4.5 Decking



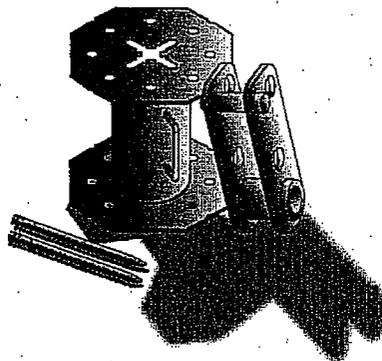
4.3 Node Pin



4.6 Deck Retainer

# 4.0 QuikDeck™ Components

## 4.0 General



### COMPONENTS

The following section provides a review of the QuikDeck™ Platform System components. Please thoroughly review this section to familiarize yourself with QuikDeck™ Platform System component features and functions.

- **All QuikDeck™ Platform System components are equipped with a handle or other feature to facilitate handling and to provide a tie-off location during assembly for prevention of falling objects.**
- **Maximum component weight for all QuikDeck™ Platform System components is 75 lbs (34 kg).**

### IMPORTANT

Contact Beeche Systems Corp. for repair or replacement of QuikDeck™ Platform System components.



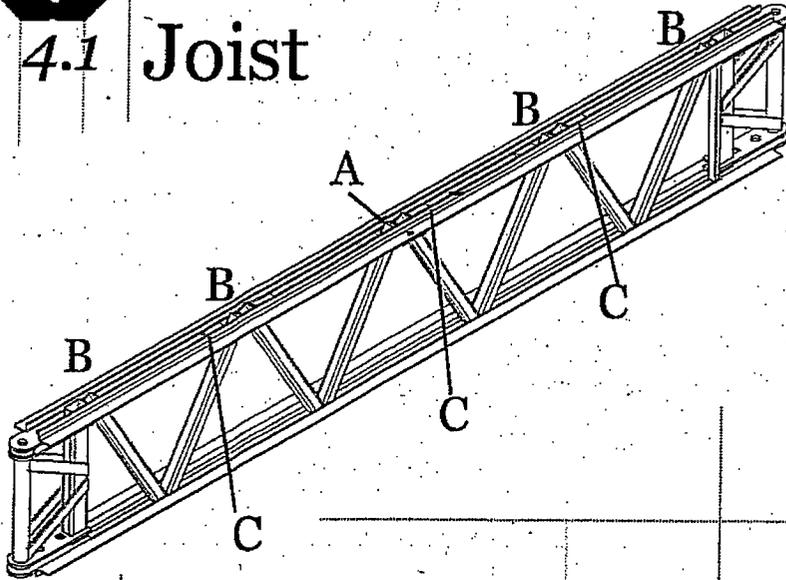
### Warning

Modification or repair of QuikDeck™ Platform System components, or replacement with aftermarket components, is prohibited unless approved in writing by Beeche Systems Corp.

**Before using the QuikDeck™ Platform System, please review and understand all load ratings and capacities. Consult Beeche Systems Corp. for additional information and engineering assistance.**

# 4.0 QuikDeck™ Components

## 4.1 Joist



### JOIST

Joists are the primary structural component of the QuikDeck™ Platform System. Joists connect Nodes and support Deck Supports and Decking.

### A.

### DECK SUPPORT LOCATING HOLE

The Deck Support Locating Hole is used in conjunction with the Deck Support (see 4.4).

### B.

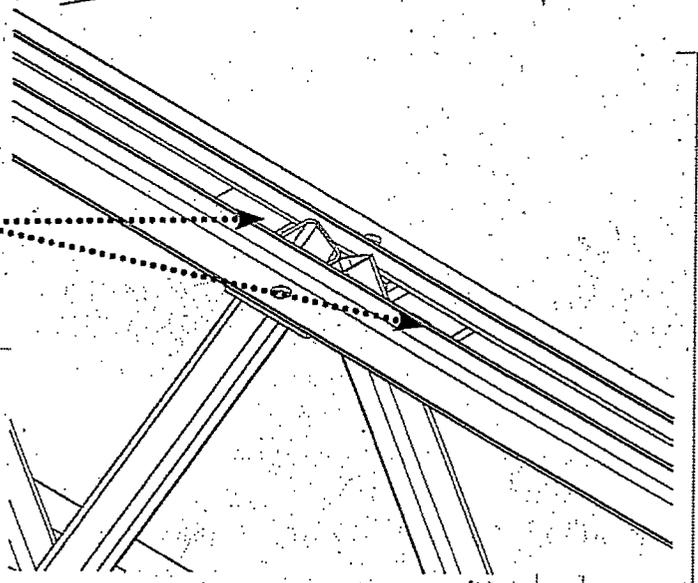
### MOUNTING NUTS

The Mounting Nuts are positioned along the Joist top-member in 8 locations and are used to fasten Deck Retainers and Toe Boards.

### C.

### HARD POINT

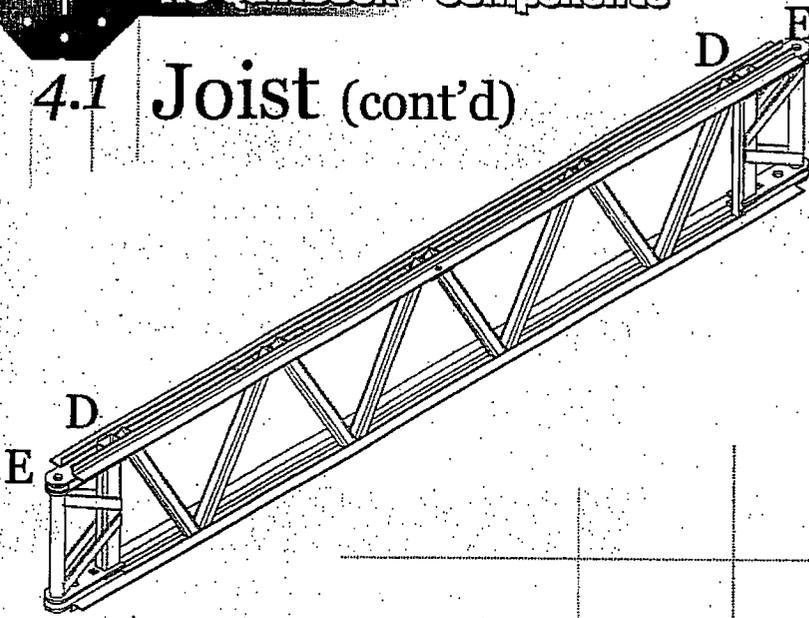
Each Joist has three "hard point" locations that provide structural connection for Auxiliary Suspender Mounting Brackets. Removal of Mounting Nuts are required to install Auxiliary Suspender. See 5.2 for more information on application of Auxiliary Suspender Mounting Brackets.





## 4.0 QuikDeck™ Components

### 4.1 Joist (cont'd)



**D.**

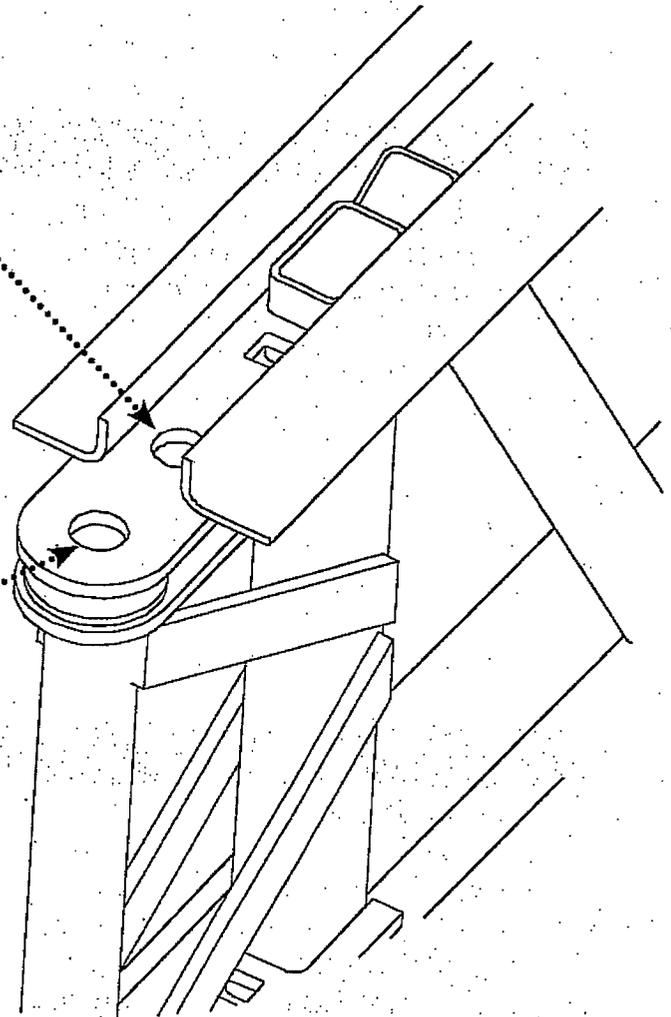
#### **ANTI ROTATION PIN LOCATION**

The Anti-Rotation Pin Hole provides a method to limit Joist rotation during platform installation.

**E.**

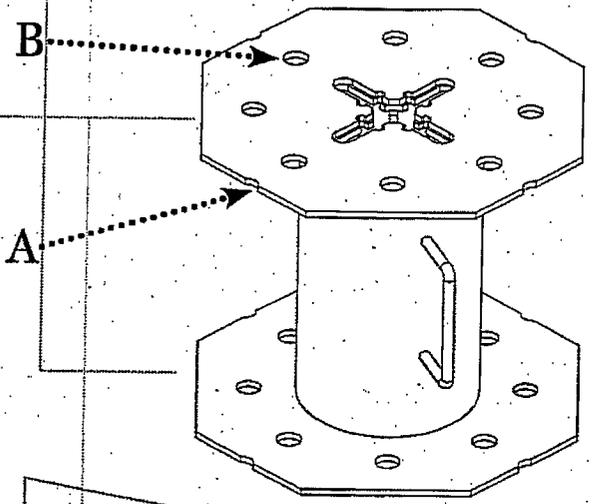
#### **NODE TO JOIST CONNECTION**

The Node to Joist Connection contains a tubular end connection that strengthens the Joist, guides Node Pins and provides location for handling and tie-off during assembly.



# 4.0 QuikDeck™ Components

## 4.2 Node



**A.**

**ANTI-ROTATION GROOVE**

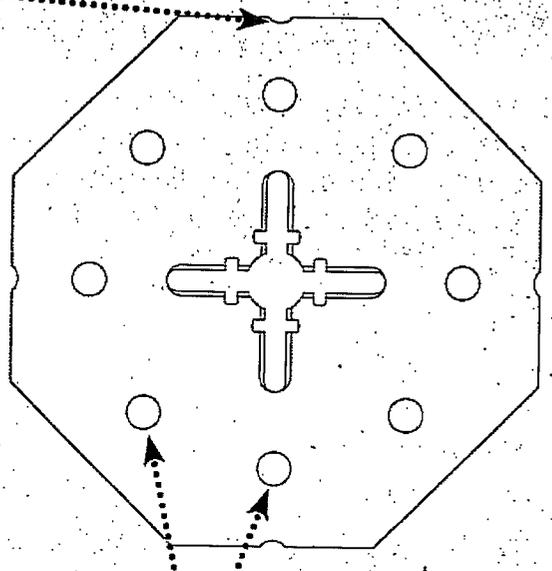
4 Anti-Rotation Grooves function with Joist Anti-Rotation Pin Holes to provide a method of limiting Joist rotation during platform installation. See 4.1 Joist, page 29-30 for more information.

**NODE**

The Node is an integral component to the QuikDeck™ Platform System that connects Joists and provides structural connections for suspenders.

Nodes include a radial hole pattern for connecting Joists in 8 separate locations, 45 degrees apart.

Refer to Angled Suspenders page 25 and Maximum Allowable Suspender Angles on Pages 19, 20 and 24.



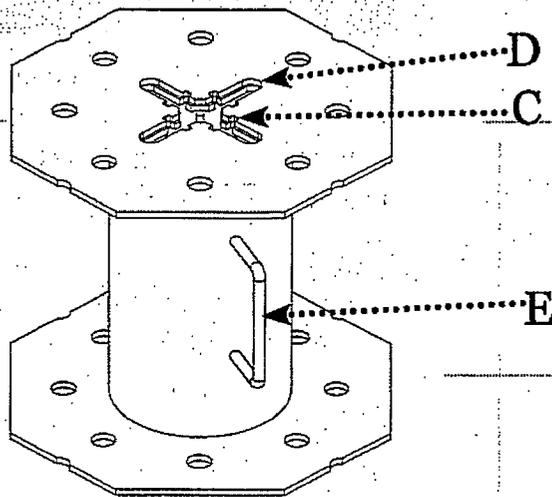
**B.**

**NODE TO JOIST CONNECTION**

See 4.1 Joist, on pages 29-30 for more information on connection.

# 4.0 QuikDeck™ Components

## 4.2 Node (cont'd)



**C.**

### CHAIN RETAINER SLOT

Each Chain Retainer Slot is designed to accept a Chain Retainer Pin (see 4.10 for more information on Chain Retainer Pin) to ensure positive retention of Suspension Chain in chain slot.

**E.**

### NODE HANDLE

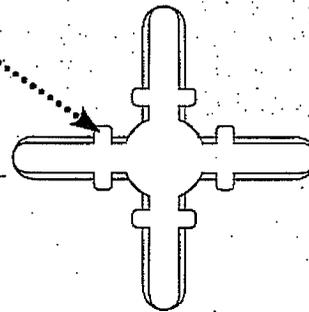
Nodes include a handle to facilitate handling and provide a location for tie off during installation, relocation and removal.



**D.**

### FOUR POSITION CHAIN SLOT

The Node is equipped with four chain-slots designed to retain  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Suspender Chains.



# 4.3 Node Pin

## *PINS*

All Pins are machined from alloy steel and are heat treated for high strength and durability. Zinc plated finish ensures protection from rust. Baking after plating is specified to prevent hydrogen embrittlement. Cross pins provide positive stop and method of removal.

## *16" NODE PIN*

$\frac{3}{4}$  in. (19 mm) diameter x 16 in. (406 mm) long pins are used to secure the Joist (4.1) to the Node (4.2) and also are used to install Railing and Containment Posts. (4.12/5.3)

## *PIN REMOVAL FEATURE*

Upper roll pin provides method to remove pin.

## *POSITIVE STOP FEATURE*

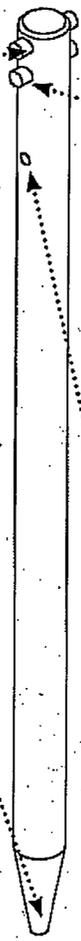
Positive Stop feature provides positive stop during insertion.

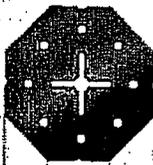
## *TAPERED END FEATURE*

Tapered end facilitates easy insertion into Joist, Node and Railing Post.

## *RETENTION HOLE*

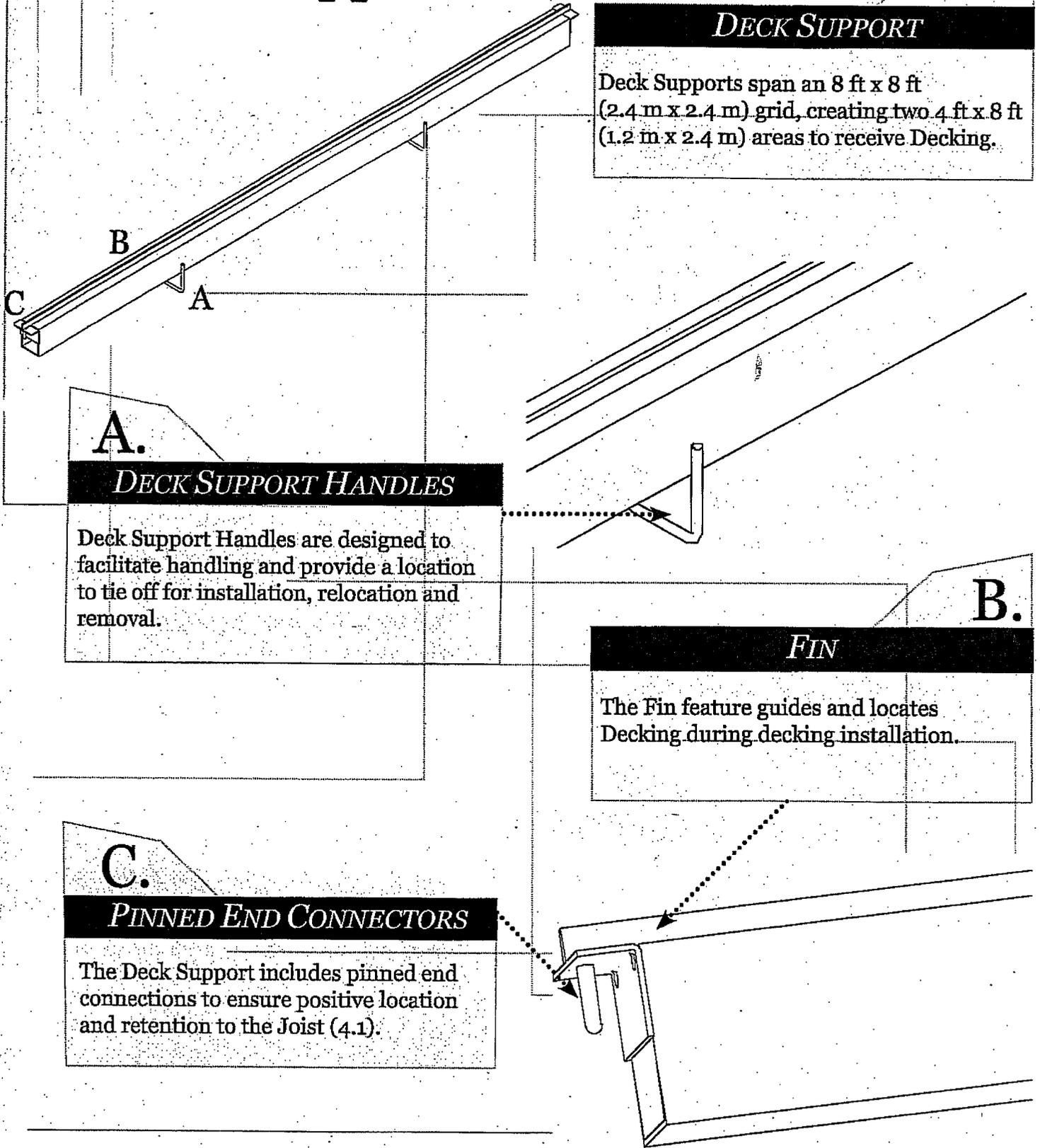
Cross-hole used with hair pin clip to retain pin when used to install Railing Post.





## 4.0 QuikDeck™ Components

### 4.4 Deck Support



## 4.5 Decking

### DECKING

Decking supports all live loads and provides a working surface for the platform. Standard Decking for the QuikDeck™ Platform System is 4 ft x 8 ft (1.2 m x 2.4 m) x 3/4 in. (19 mm) thick plywood, American Plywood Association Structural I Grade BB OES.

Aluminum or steel grating and other alternative decking materials are available for special applications. Contact Beeche Systems Corp. for additional information.

Decking is supported on all 4 sides by Joists and a Deck Support.

Decking is positively retained along 3 sides by Deck Retainers (4.6).

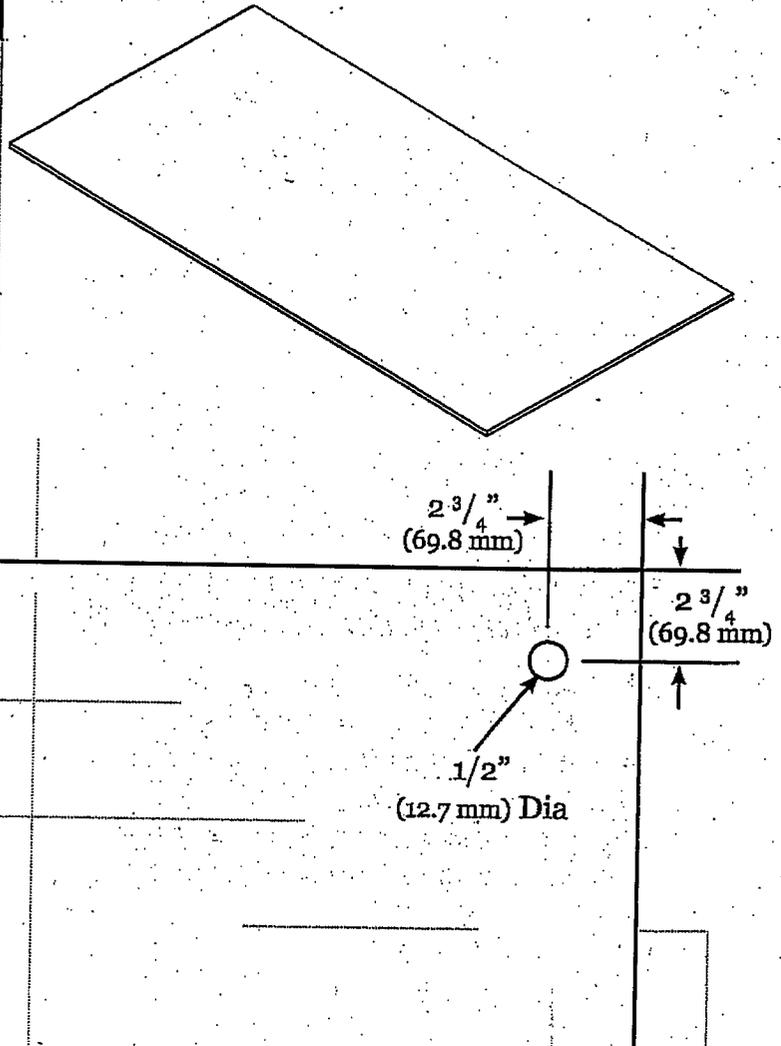
#### Warning

**Damaged or decayed Decking can result in Decking failure under load, resulting in property damage, serious injury or death.**

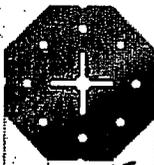
**Replace Decking immediately if damage or decay is evident.**

**Decking should be tied off prior to installation if danger from falling objects exists. A 1/2 in. (12.7 mm) hole drilled in corner of Decking provides tie off point. It is important that the contractor drills holes responsibly. Refer to the illustration.**

**Danger of falling objects can be caused by windy conditions. Properly secure all objects, especially if area below platform cannot be secured and all persons evacuated.**

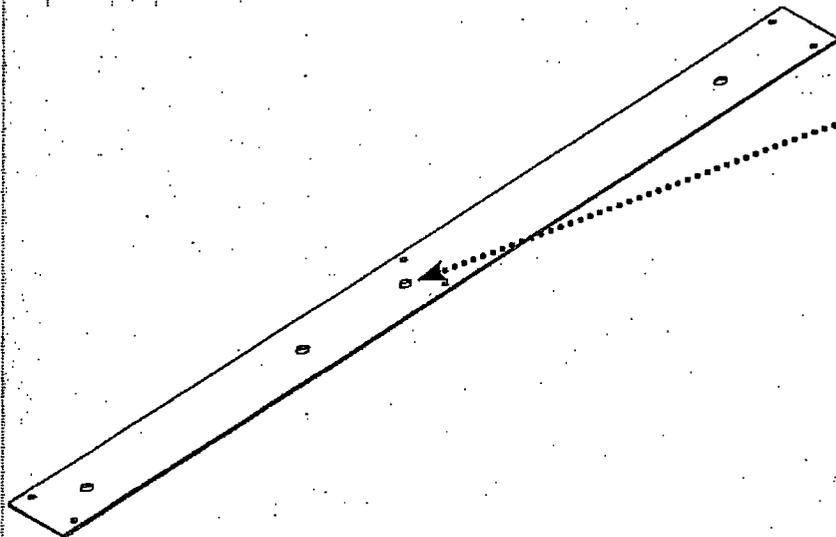


Refer to Section 9.0 "Platform Inspection and Maintenance" for information on the inspection and damage prevention of plywood Decking.



## 4.0 QuikDeck™ Components

### 4.6 Deck Retainer



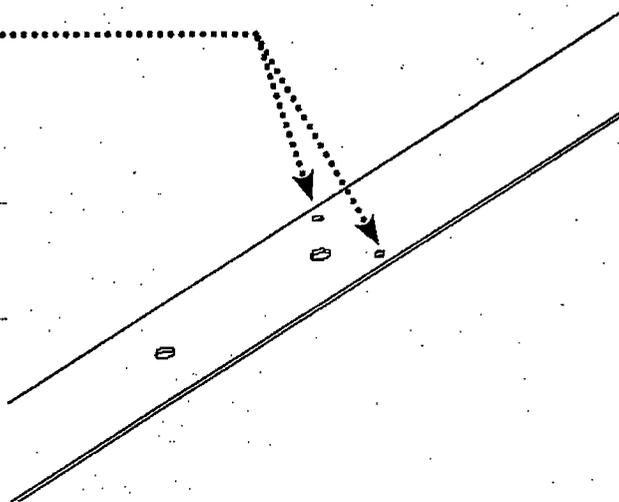
#### DECK RETAINER

Deck Retainers secure plywood Decking and prevent wind uplift. Deck Retainers are fabricated from 4 in. (101 mm) wide 11-gauge galvanized steel with a hole pattern to match the mounting nut locations on the Joist. Each Deck Retainer should be secured with all required  $\frac{1}{2}$ -13 x 2.50 in. UNC fasteners.

A.

#### MOUNTING HOLES

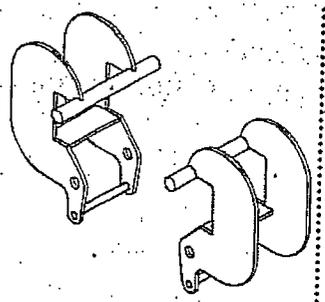
Deck Retainers also include a pattern of six  $\frac{1}{4}$  in. (6.3 mm) diameter holes. These holes facilitate installation of deck screws into Decking for prevention of racking when using short Joists or if uplift protection is required over Deck Support.



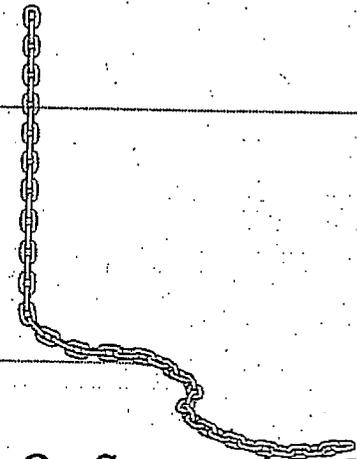
#### Warning

Failure to install Deck Retainers properly, to avoid uplift, may result in serious injury or death.

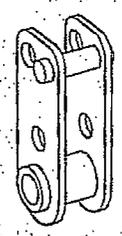
# Suspension Components



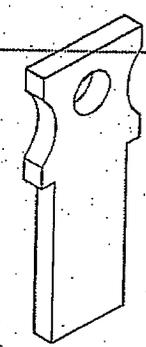
**4.7** Beam Clamp  
with Cross Tube



**4.9** Suspension Chain



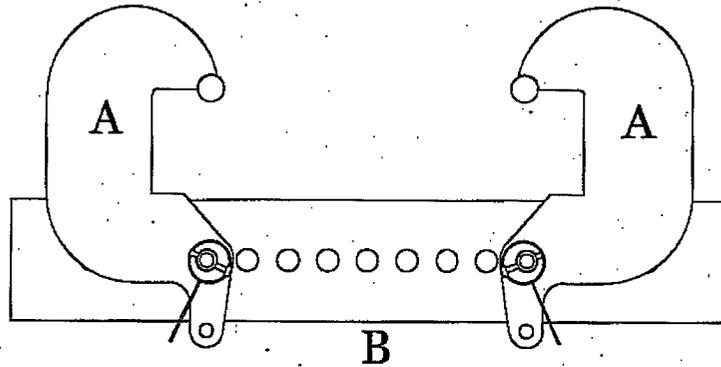
**4.8** Chain Coupler



**4.10** Chain Retainer

# 4.0 QuikDeck™ Components

## 4.7 Beam Clamp



**BEAM CLAMP**

Beam Clamp assemblies provide a method of suspending the QuikDeck™ Platform System from structural members. Beam Clamps consist of 2 fabricated steel jaws pinned to a 4.5 in. (114.3 mm) diameter structural steel pipe.

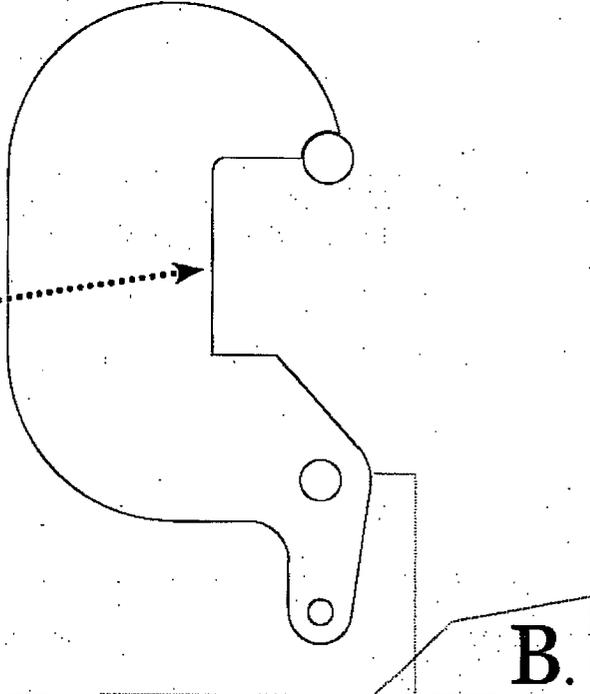
**A.**

**BEAM CLAMP JAW**

Beam Clamp Jaws are adjusted on Cross Tubes to connect to different size structural members.

Load bearing bars distribute loads to structural members.

Clearance holes in Jaw facilitate assembly of Jaw to Adjustable Cross Tube.

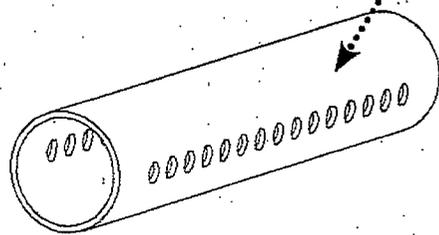


**B.**

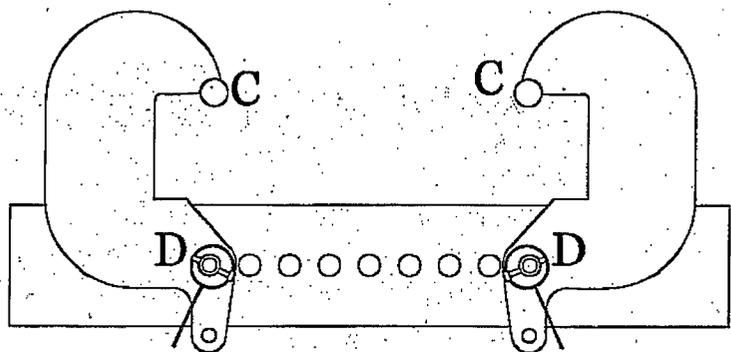
**ADJUSTABLE CROSS TUBE**

Beam Clamp Cross Tubes provide a connection between Beam Clamp Jaws and support 3/8 in. (9.5 mm) Grade 100 Chain or wire rope suspenders.

Standard Cross Tubes for the QuikDeck™ Platform System accommodate beam flange widths from 6 in. (152 mm) to 12 in. (305 mm) Cross Tubes are available to accommodate wider flange widths. Contact Beeche Systems Corp. for more information.



# 4.7 Beam Clamp (cont'd)



**C.**

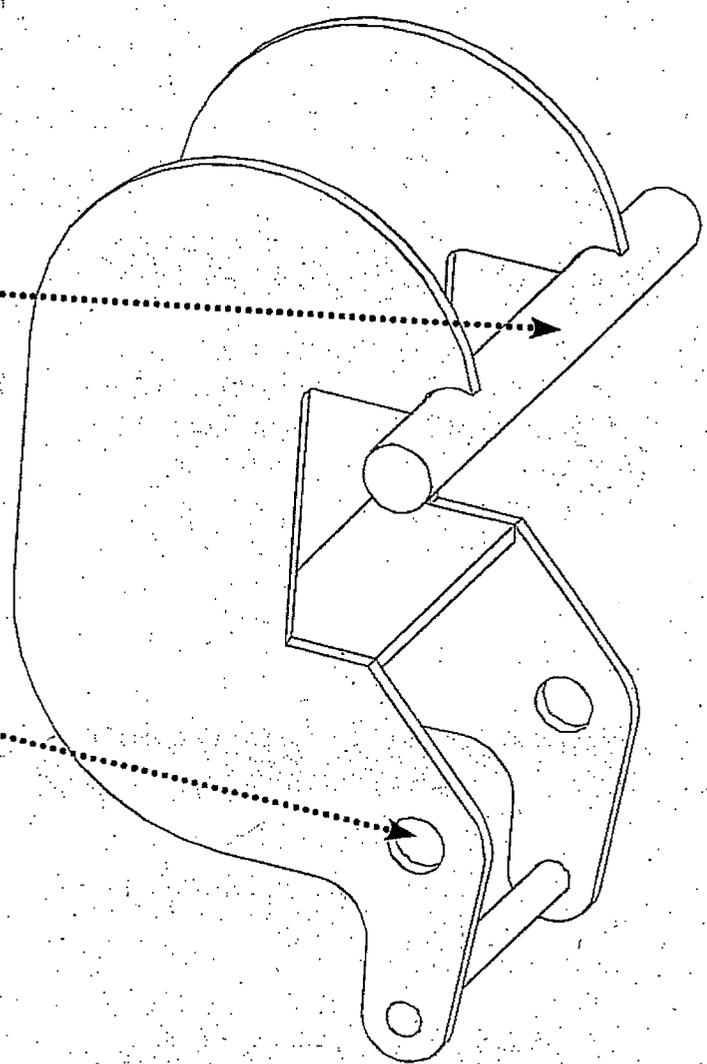
### **1 IN. LOAD BEARING BAR**

The Load Bearing Bar distributes the loads to structural members.

**D.**

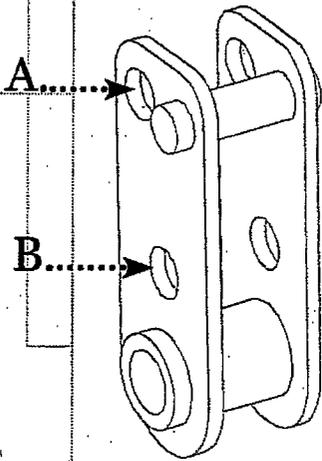
### **PIN CLEARANCE HOLES**

Used for assembling the Beam Clamp to the Adjustable Cross Tube.



# 4.0 QuikDeck™ Components

## 4.8 Chain Coupler



**A.**

### CHAIN CONNECTION PIN

The Chain Connection Pin facilitates connection of  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chain to the Chain Coupler. See 6.12 for additional information on application of Chain Coupler.

**B.**

### RIGGING ANGLE CONTROL PIN

The Rigging Angle Control Pin allows control of rigging angles when utilizing a choker configuration on structural members.

The Rigging Angle Control Pin or padding of chain are not required when connecting to Beam Clamp Cross Tubes.

### CHAIN COUPLER

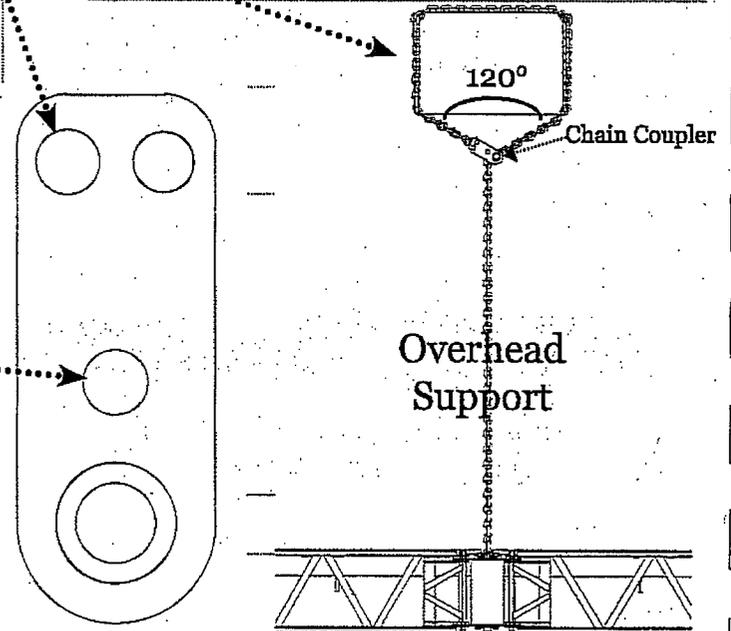
Chain Couplers are used to form a choker loop at the end of the chain and secure it to Beam Clamp Cross Tubes (refer to 4.7 B for more information on Cross Tubes) or structural members.

When utilized in a choker configuration, the chain must be guarded from sharp corners and the working load limit must not be exceeded.

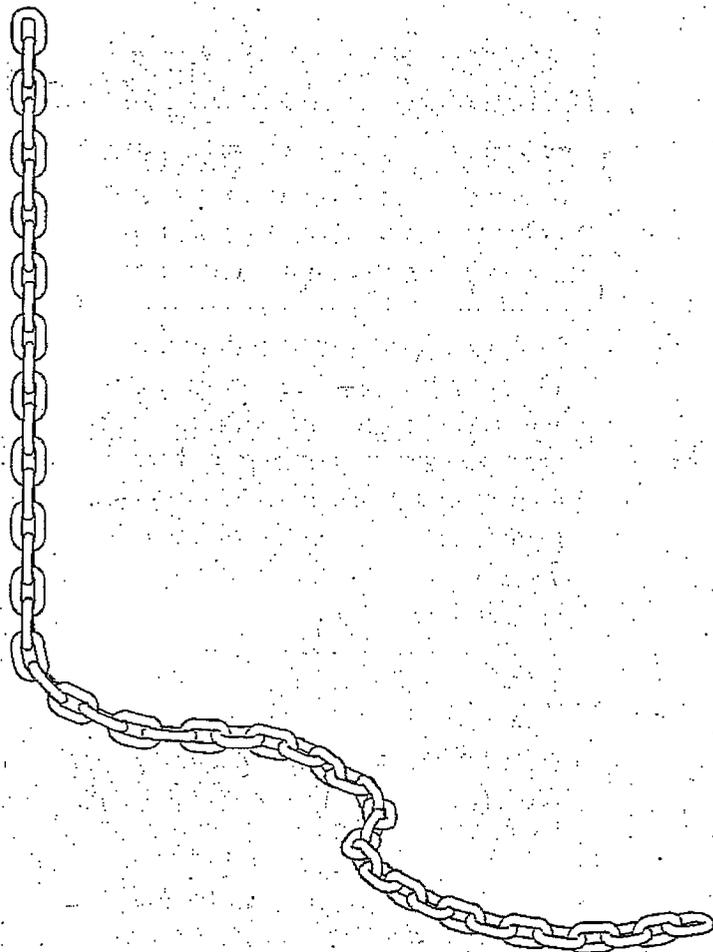


### Danger

To prevent exceeding the chain working load limit, the included rigging angle of the choker legs must be less than 120 degrees.



## 4.9 Suspension Chain



### CHAIN

Standard Suspension Chain for the QuikDeck™ Platform System is  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chain. In standard configurations, Suspension Chain is connected between a Beam Clamp Assembly (4.7) and a Node (4.2).



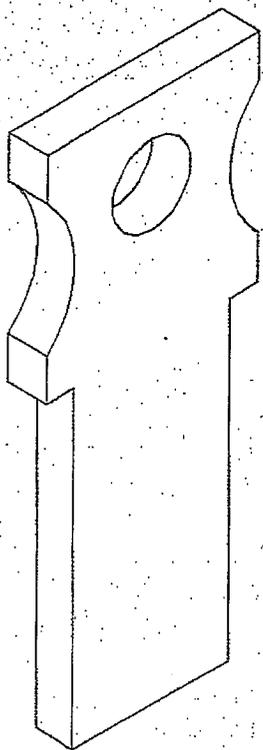
### Warning

Chain must have a minimum working load limit of 8800 lbs (39.1 kN).

**DO NOT** twist chain when inserting into Chain Coupler and wrapping around Beam Clamp Tube to Node slot.

The use of chain other than  $\frac{3}{8}$  in. (9.5 mm) Grade 100 may cause suspender failure, resulting in property damage, serious injury or death.

## 4.10 Chain Retainer Pin



### CHAIN RETAINER PIN

The Chain Retainer Pin is installed in the Node to ensure positive retention of suspension chain in chain slot. (See 4.2 for more information on Node).

Chain should be inserted into a chain slot such that the load on the chain seats the chain further into the slot, rather than pulling the chain out of the slot and applying side load against the Chain Retainer. The Chain Retainer is NOT designed to take side load from an angled suspender.



### Warning

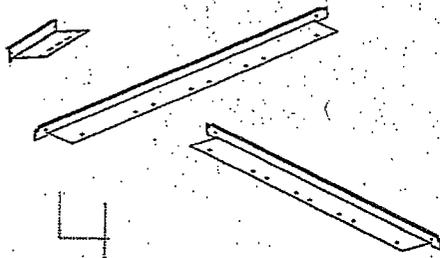
**Accidental removal of chain from chain slot can be caused by: failure to insert the chain in the proper chain slot, or not using Plastic Ties to secure the Chain Retainer Pin to chain. This can result in a failure of a suspender, resulting in property damage, serious injury or death.**

**See Section 6.9 for more information on application of Chain Retainer.**

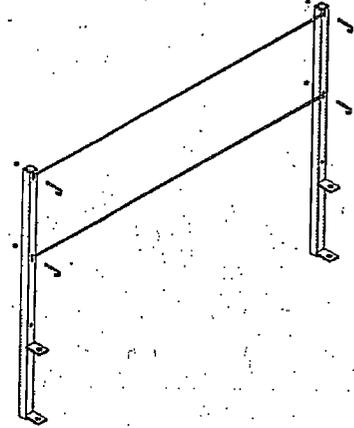


# 4.0 QuikDeck™ Components

## Safety Related Components



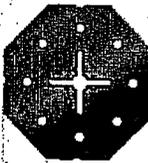
4.11 Toe Boards



4.13 Wire Rope Railing

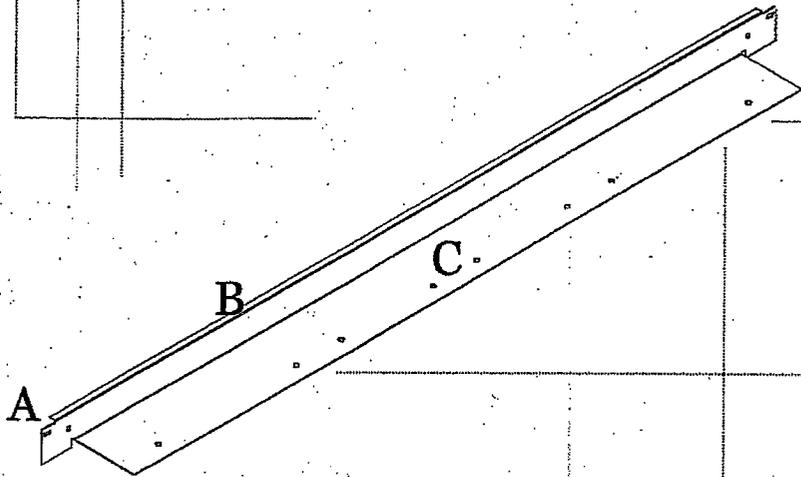


4.12 Railing Posts



# 4.0 QuikDeck™ Components

## 4.11 Toe Boards



### TOE BOARDS

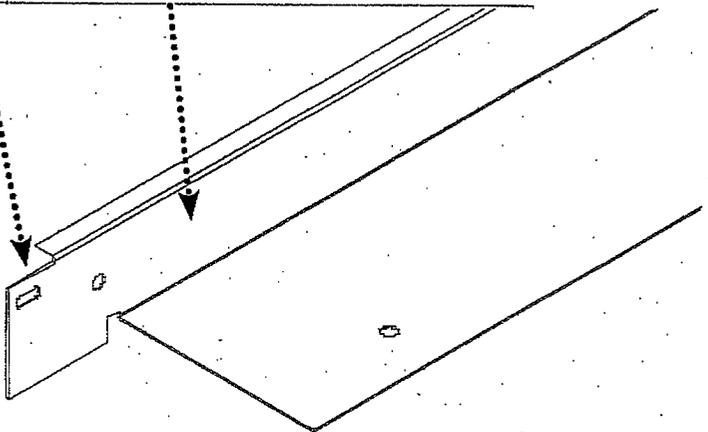
OSHA compliant Toe Boards are fabricated from 16-gauge steel in the form of a "z" section for strength and rigidity. Toe Boards are installed on the platform edge or around platform openings to minimize danger of falling objects below the platform and to prevent decking uplift.

### A. RAILING POST MOUNTING LOCATIONS

Toe Boards include Railing Post-Mounting Holes on both ends. Railing Posts are secured using 3/8-16 UNC fasteners.

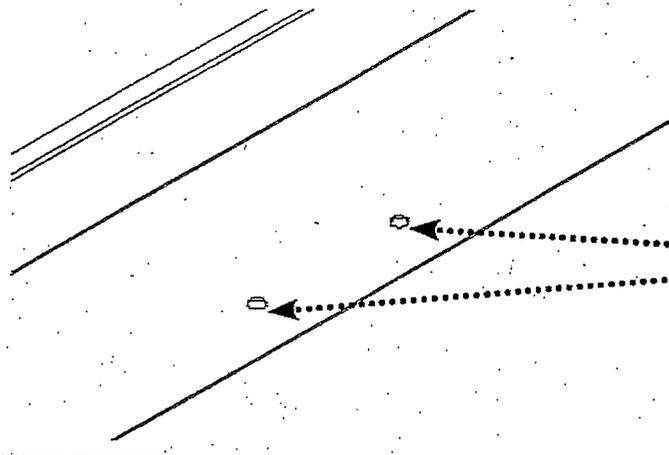
### B. INTEGRAL KICK PLATE

The Integral Kick Plate is used to minimize danger of falling objects below the platform.

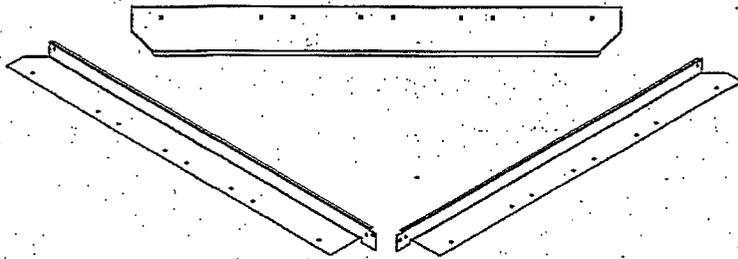


### C. JOIST MOUNTING HOLES

Toe Boards include 8 Joist Mounting Holes. Toe Boards must be secured using all eight 1/2-13 x 2.75 in. UNC fasteners.



## 4.11 Toe Boards (cont'd)

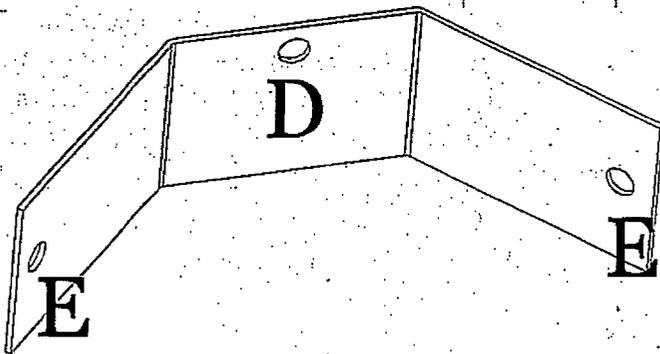
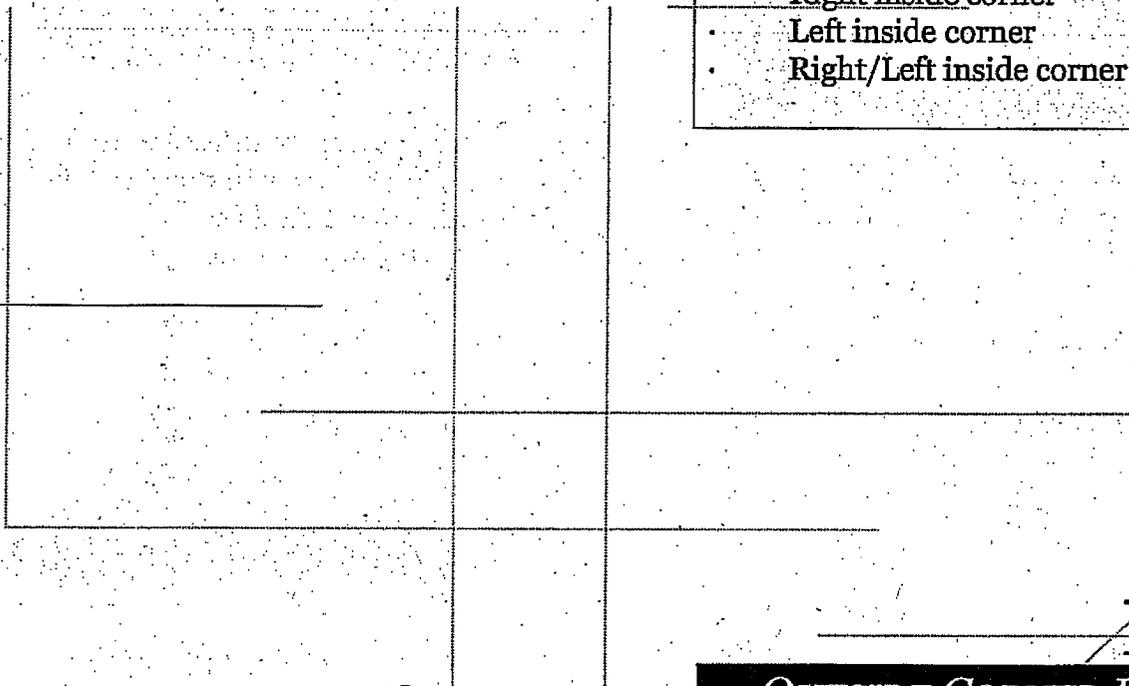


### INSIDE CORNER TOE BOARDS

Inside Corner Toe Boards are required at inside corners of platforms. Inside Corner Toe Boards are required for applications such as creating an opening in a platform.

Inside Toe Boards are available in three configurations:

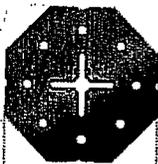
- Right inside corner
- Left inside corner
- Right/Left inside corner



### OUTSIDE CORNER INFILL

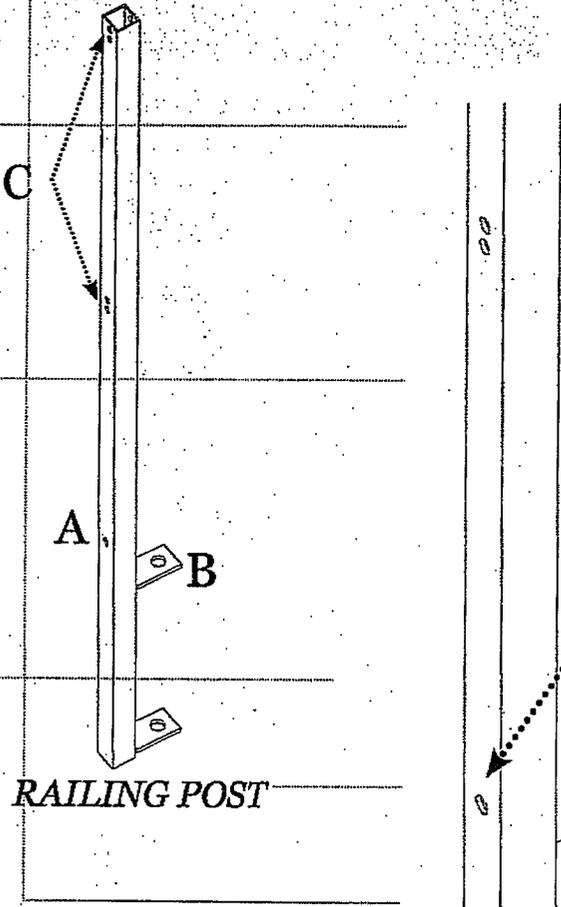
Toe Boards at outside corners of platform are connected using a Corner Infill. These contain Railing Post Mounting locations (D) and Toe Board locations (E).

See 4.12 Railing Posts for further



# 4.0 QuikDeck™ Components

## 4.12 Railing Post



### RAILING POSTS

OSHA compliant Railing Posts are fabricated from 1 1/2 in. (38 mm) square x 11 gauge steel tubing. The Railing Post and the Containment Post share the same features (A, B and C). See 5.3 for additional information on Containment Posts.

### A.

### TOE BOARD MOUNTING HOLES

These holes serve to secure the Toe Board and Corner Infill to the Railing Post. See 4.11 Toe Board for further mounting information.

### B.

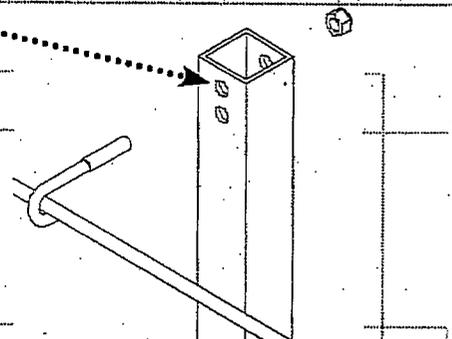
### NODE PIN MOUNTING HOLE

These holes facilitate mounting of Railing Post to Node. Railing Posts are secured using the standard 3/4 in. (19 mm) diameter x 16 in. (406 mm) tapered steel pin used to connect Joists to Nodes.

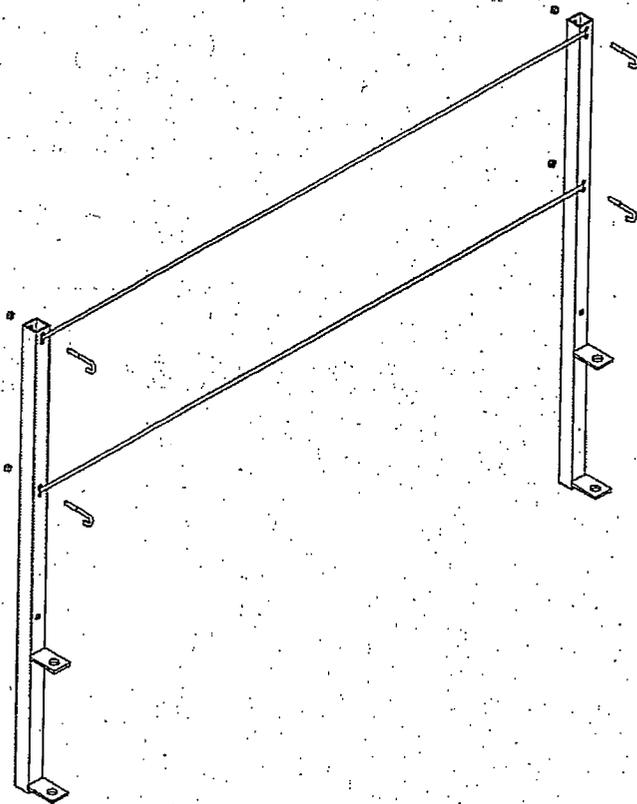
### C.

### WIRE ROPE MOUNTING LOCATION

Specially designed J-bolts securely fasten Wire Rope Railings, comprised of two strands of 5/16 in. (7.9 mm) diameter Wire Rope, at appropriate locations on the Railing Post.



# 4.13 Wire Rope Railing

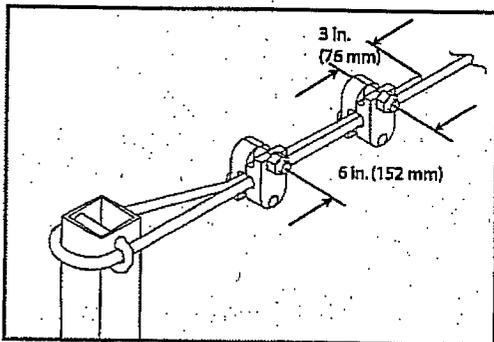


## WIRE ROPE RAILING

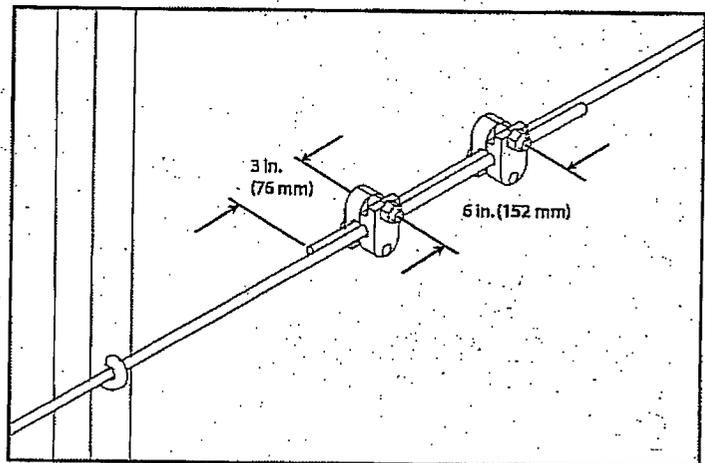
Wire Rope Railings are comprised of yellow plastic-coated 3/8 in. (9.5 mm) diameter Wire Rope. Railings are secured to Railing Posts with specially designed J-bolts.

5/16 in. (7.9 mm) Wire Rope Clips are used to secure Wire Rope Railing at splice locations, see below. See also Section 4.16.

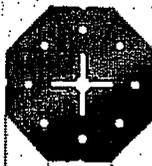
## TYPICAL WIRE ROPE CONNECTIONS



Wire Rope Terminated at Railing Post

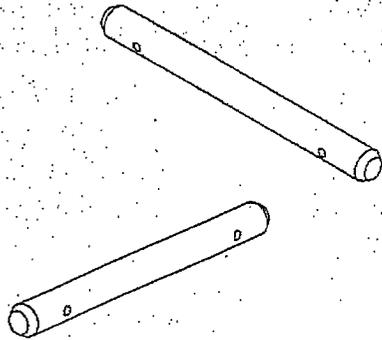


Wire Rope Spliced Connection

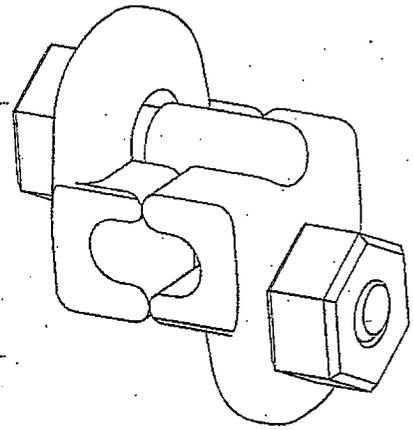


## 4.0 QuikDeck™ Components

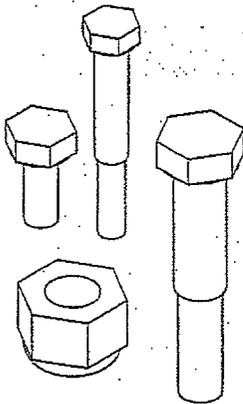
### Hardware



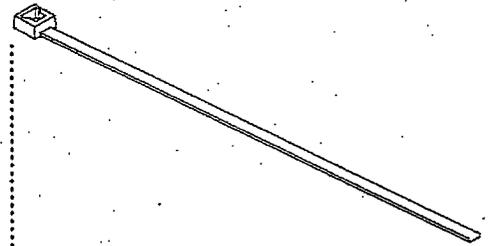
4.14 Pins



4.16 Wire Rope Clips



4.15 Fasteners



4.17 Plastic Ties

## 4.14 Pins

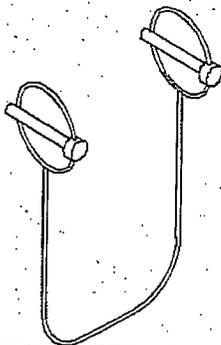
### PINS

All Pins are machined from alloy steel and are heat treated for high strength and durability. Zinc plated finish ensures protection from rust. Baking after plating is specified to prevent hydrogen embrittlement.

### LYNCH PIN WITH LANYARD

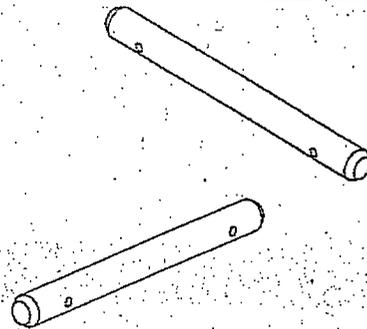
$\frac{3}{16}$  in. (4.7 mm) Diameter Lynchpins are used to secure pins and prevent removal. Lynchpins are secured with spring-loaded rings and are connected by  $\frac{1}{16}$  in. (1.6 mm) diameter 7 x 7 stainless steel cable for ease of assembly.

Lanyards are available in 8 in. (203 mm) length for securing mounting pin in Chain Coupler Assembly and 16 in. (406 mm) length for securing Mounting Pin in Beam Clamp Assembly.



### BEAM CLAMP PIN

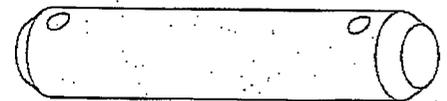
$\frac{3}{4}$  in. (19 mm) diameter x 6.5 in. (165 mm) long Pins secure Beam Clamp Jaws to Cross Tube. (See 4.7 for more information on Beam Clamps). Beam Clamp Pins can be inserted through Cross Tube to prevent chain from sliding on Cross Tube in angled suspender.

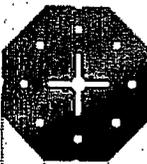


### CHAIN COUPLER PIN

Two  $\frac{3}{4}$  in. (19 mm) diameter x 4 in. (101 mm) long pins secure Suspender Chain to the Chain Coupler.

Lynchpins with 8 in. (203 mm) Lanyard are used to secure Chain Coupler Pins.



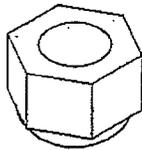


## 4.0 QuikDeck™ Components

### 4.15 Fasteners

#### LOCKING NUT

A Locking Nut with a  $\frac{5}{16}$ -18 UNC Thread is used to mount a J-Bolt to the Railing Post and to the Containment Post (5.3).



#### CAGE NUT

$\frac{1}{2}$ -13 UNC Grade 2 Cage Nut is used in 8 locations on a Joist (4.1) to secure Deck Retainers (4.6) and Toe Boards (4.11).

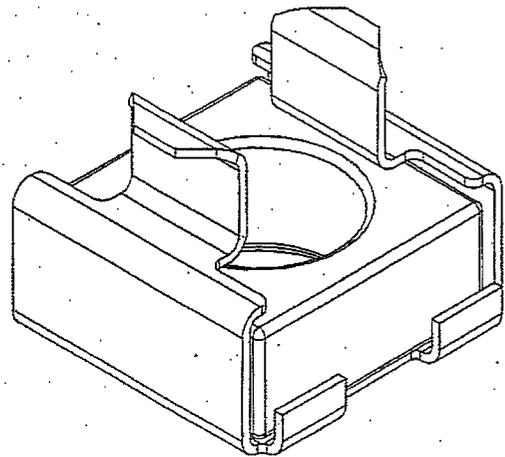
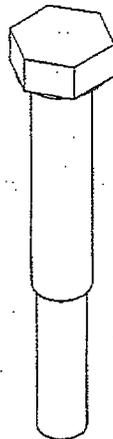


#### Warning

**\* Do not use Cage Nuts for installing the Auxiliary Suspension Mounting Bracket. Refer to pages 56 - 57 for more information.**

#### HEX HEAD CAP SCREW

$\frac{1}{2}$ -13 x 2.50 in. long Hex Head Cap Screw is used in 8 locations on a Joist (4.1) to secure a Deck Retainer (4.6) or Toe Board (4.11). This screw threads into a Cage Nut



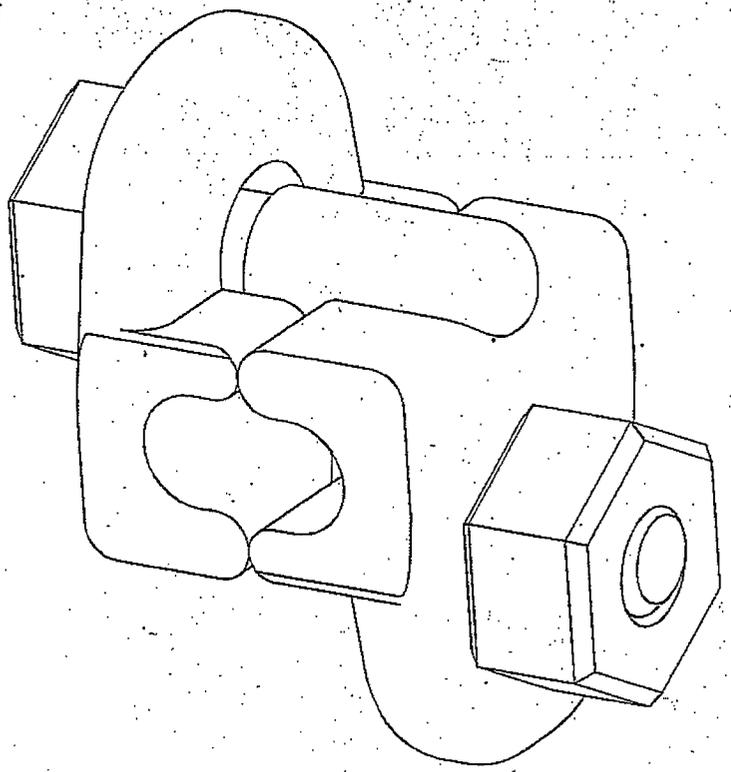
# 4.16 Wire Rope Clips

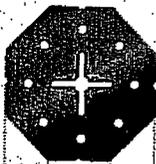
**WIRE ROPE CLIPS**

5/16 in. (7.9 mm) Wire Rope Clips provided with the QuikDeck™ Platform System meet or exceed the performance requirements of Federal Specification FF-C-450 Type III, Class 1.

Wire Rope Clips are used to secure Wire Rope Railing at splice locations.

Following manufacturer's instructions, install using Torque Wrench to ensure proper torque specifications and inspect and re-torque as indicated in Section 9, "Platform Inspection and Maintenance".



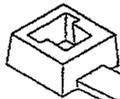


## 4.0 QuikDeck™ Components

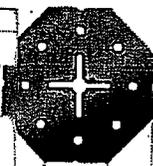
### 4.17 Plastic Ties

#### *PLASTIC TIES*

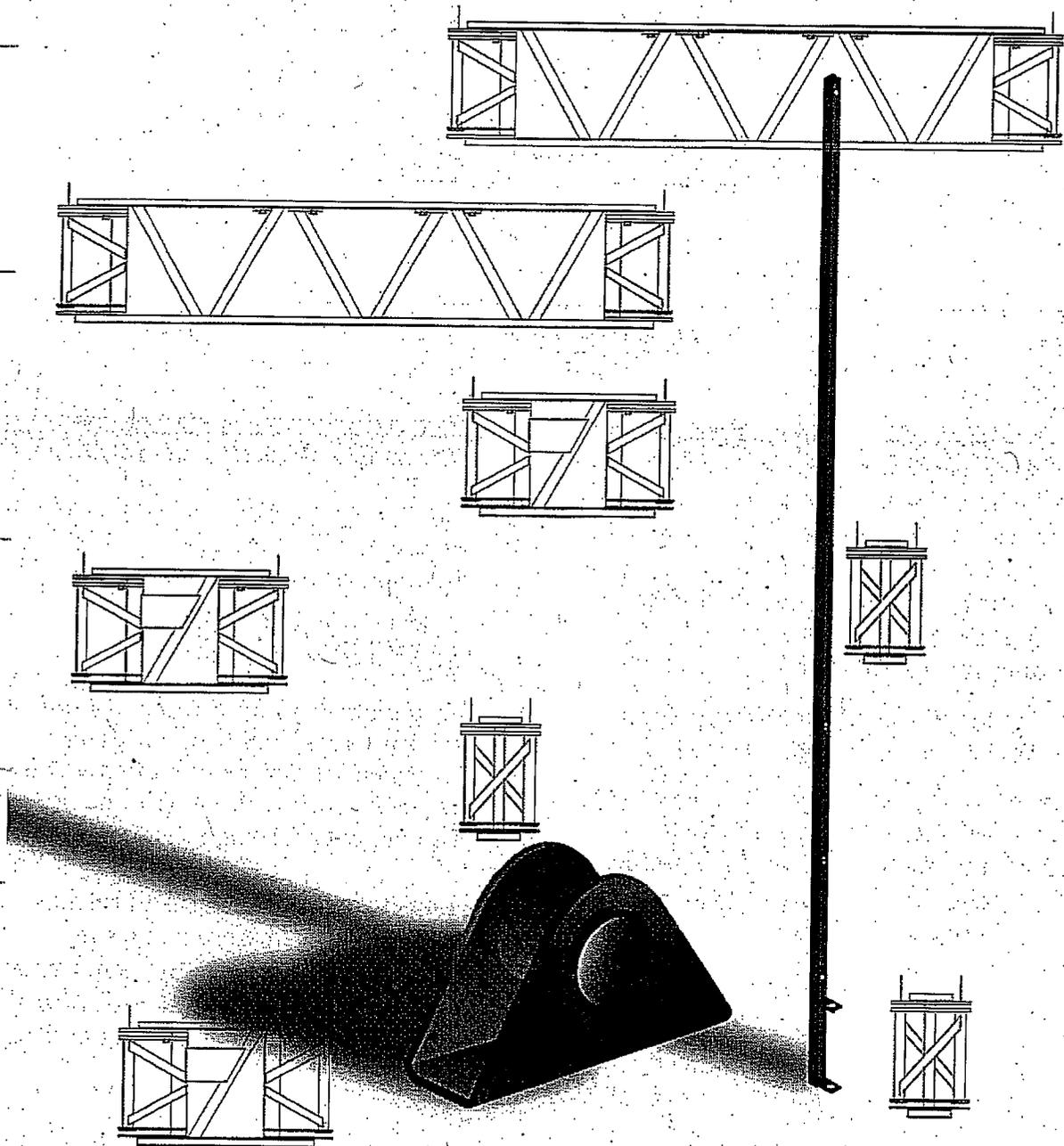
Standard Adjustable Plastic Ties in High-Visibility Green. Required to secure the Chain Retainer Pin to the  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chain.

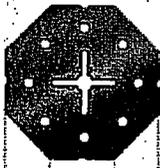


Installation Direction



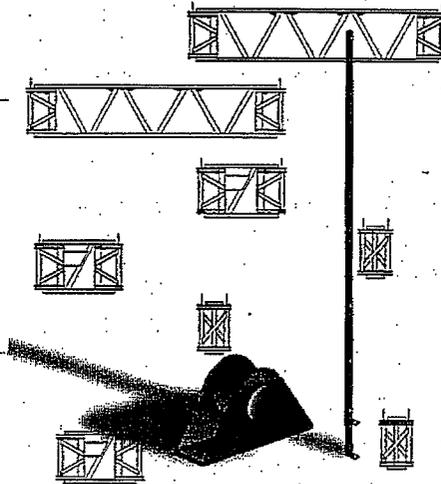
# 5.0 Accessories





## 5.0 QuikDeck™ Accessories

### 5.0 General



1.

#### ACCESSORIES

The following section introduces accessories for the QuikDeck™ Platform System. These accessories enhance the functionality and flexibility of the QuikDeck™ Platform System and reduce installation time.

Please contact Beeche System Corp. for a complete list of available accessories.

Components provided by Beeche Systems corp. not covered in this manual are “special components” and are job specific.

Notify Beeche Systems Corp. prior to utilizing these “special components” on future jobs.

#### IMPORTANT

Always comply with assembly instructions when installing QuikDeck™ Platform System accessories.



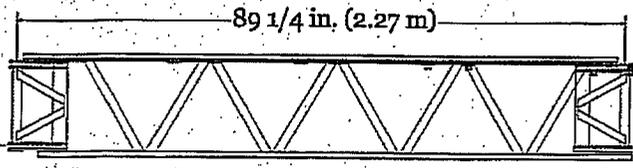
#### Danger

**Improper installation or assembly of QuikDeck™ Platform System accessories can cause failure of the accessory or of the platform, resulting in property damage, injury or death.**

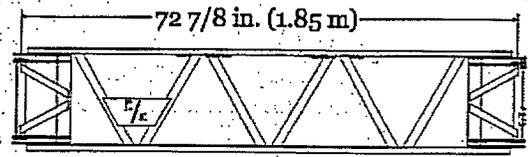
Review and understand all ratings and capacities before using the QuikDeck™ Platform System. Consult Beeche Systems Corp. for additional information and engineering assistance.

**Review and understand all rated capacities before using the QuikDeck™ Platform System. Consult Beeche Systems Corp. for additional information and engineering assistance.**

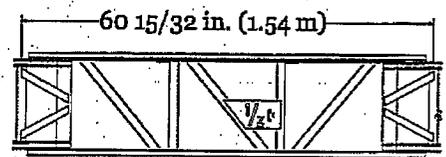
# 5.1 Optional Joist Lengths



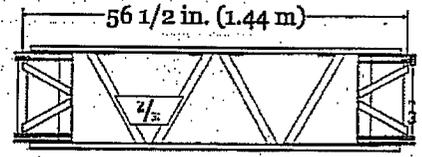
**8 FT STANDARD JOIST**



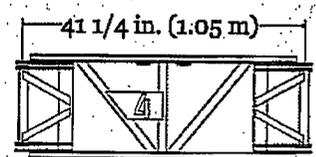
**5/6 JOIST**



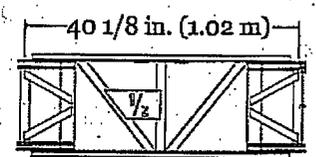
**1/2 DIAGONAL JOIST**



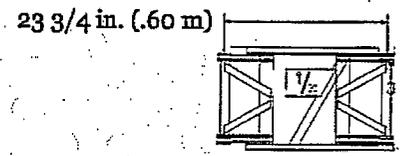
**2/3 JOIST**



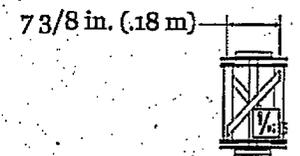
**4 FT JOIST**



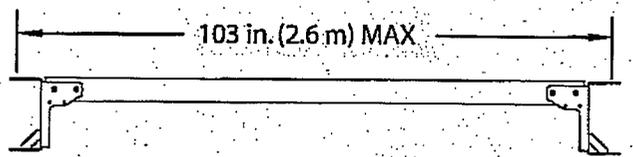
**1/2 JOIST**



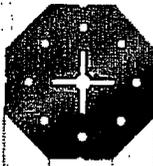
**1/3 JOIST**



**1/6 JOIST**

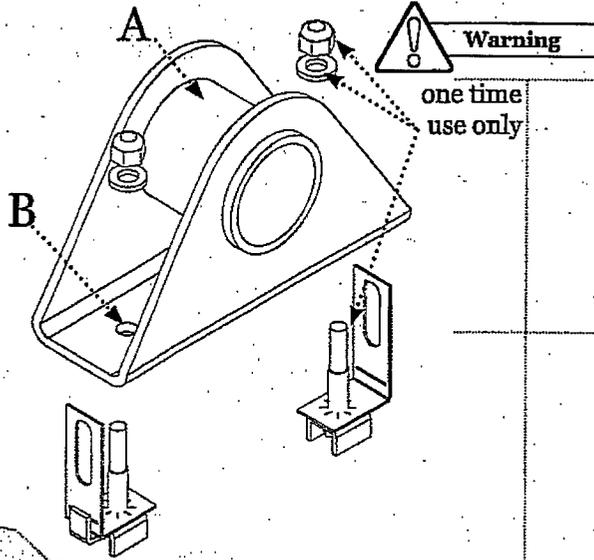


**Cut-To-Fit JOIST KIT**

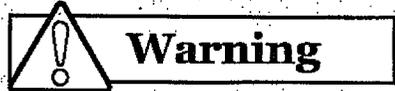


# 5.2 Auxiliary Suspender Mounting Bracket

## AUXILIARY SUSPENDER MOUNTING BRACKET



If a Node is located such that a suspender cannot be secured to it, an Auxiliary Suspender Mounting Bracket may be installed at any Joist Hard Point to provide an additional suspender location. Please refer to Section 3.0 for Load Ratings and application information. See Joist 4.1 for additional mounting information.



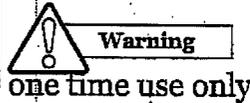
### Warning

**Auxiliary Suspender Mounting Brackets must be used in pairs in order to provide equivalent suspender capacity as a Node.**

A.

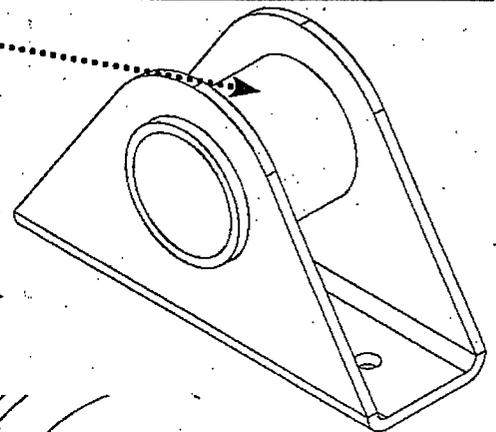
### SUSPENDER TUBE

Chain or Wire Rope is secured by looping around a Suspender Tube. If Chain is utilized for suspension, a Chain Coupler is used in a choker configuration to secure the chain to the Auxiliary Suspender Bracket.



### Warning

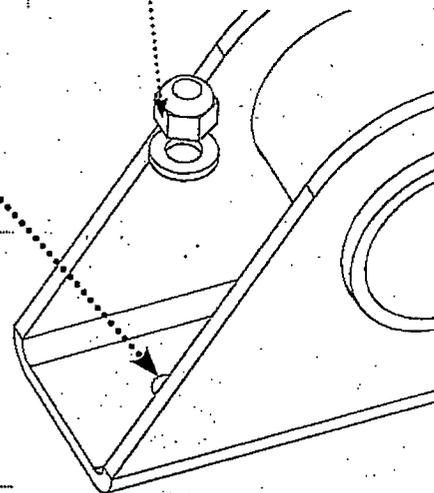
one time use only



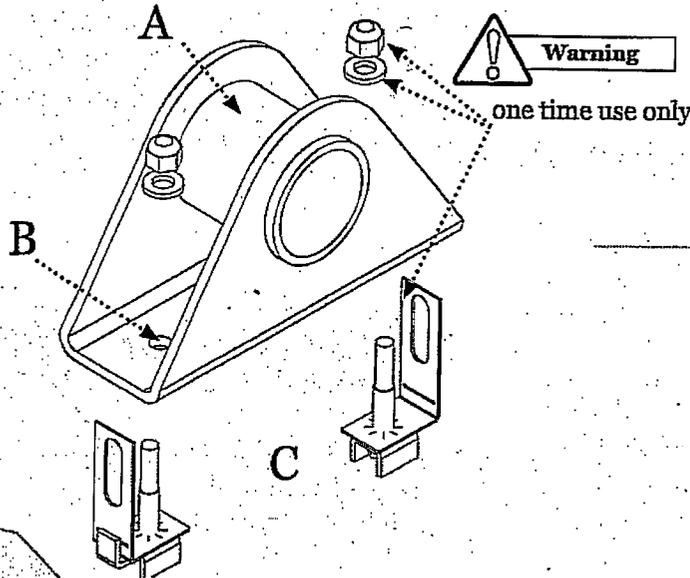
B.

### BOLT CONNECTION HOLES

Holes facilitate the fastening of Auxiliary Suspender Mounting Brackets to a Joist Hard Point using specially designed Bolt Brackets (See 5.2 C).



## 5.2 Auxiliary Suspender Mounting Bracket (cont'd)



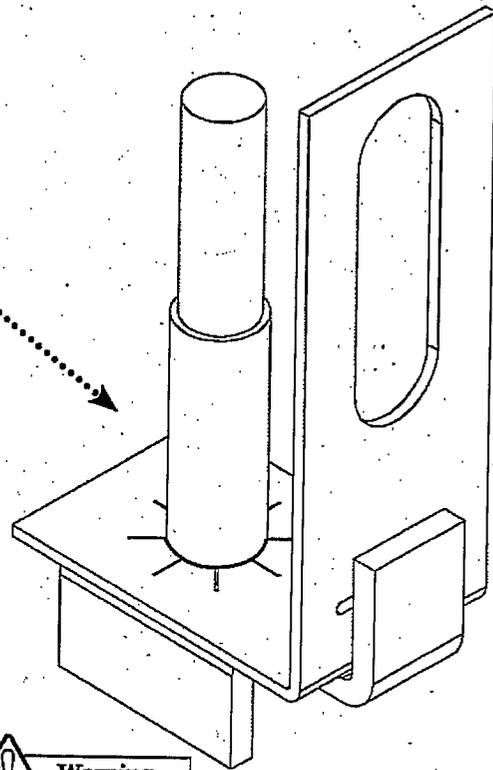
C.

### BOLT BRACKETS ASSEMBLY

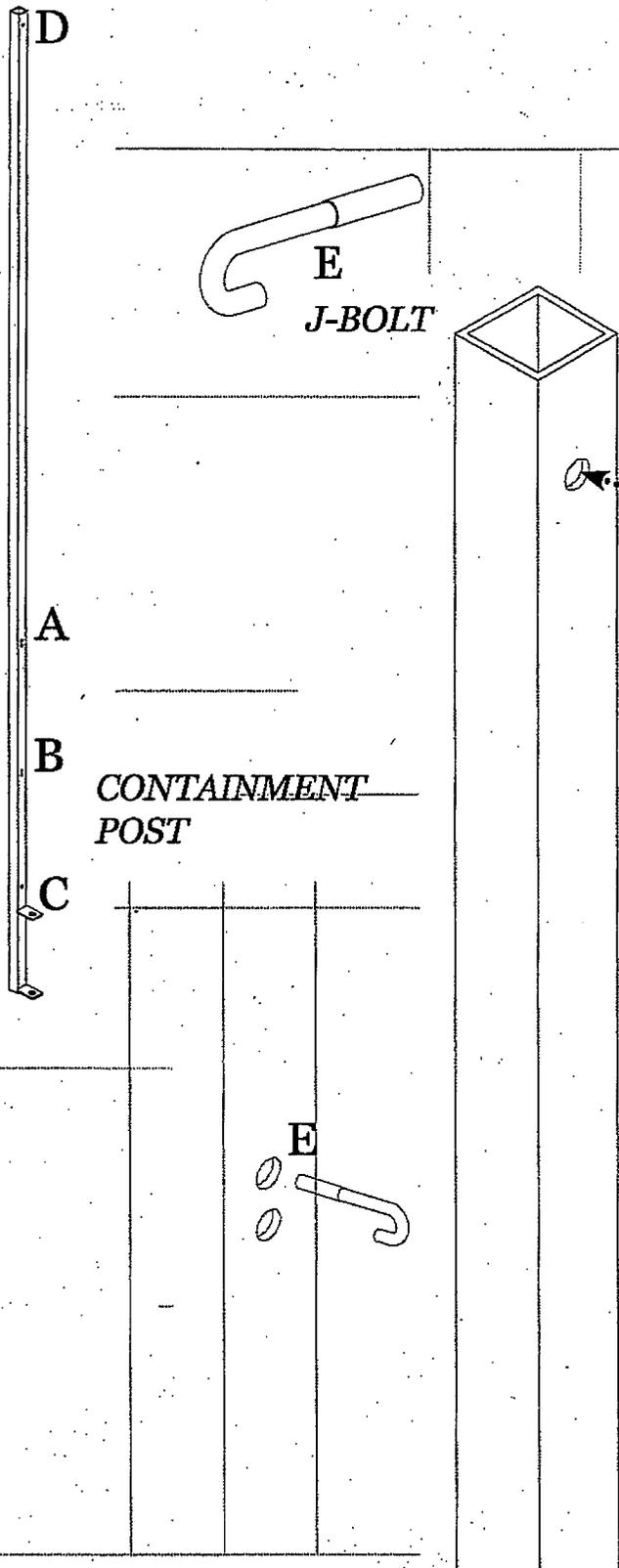
Specially designed Bolt Brackets facilitate the attachment of an Auxiliary Suspender Mounting Bracket to a Joist Hard Point with decking installed.

#### Warning

Installation of Bolt Brackets is critical for the safety of the platform. Bolt Brackets must be torqued to 60 – 70 ft-lbs (81.3 - 94.9 N-m) and are one time use ONLY. Do not reuse Bolt Brackets or substitute with aftermarket components. Contact Beeche Systems Corp. for replacement parts. Failure to follow these guidelines can cause suspender failure, resulting in property damage, serious injury or death.



# 5.3 Containment Posts



## CONTAINMENT POSTS

OSHA compliant Containment Posts are fabricated from 1 1/2 in. (38 mm) square x 11 gauge steel tubing. Railing Post and the Containment Post share standard features (A, B and C). Containment Posts contain a Mounting Hole (D) not found on Railing Posts. Refer to page 46 for Railing Posts.

## D. MOUNTING HOLE

These locations serve to tie the Containment Posts to the bridge structure.

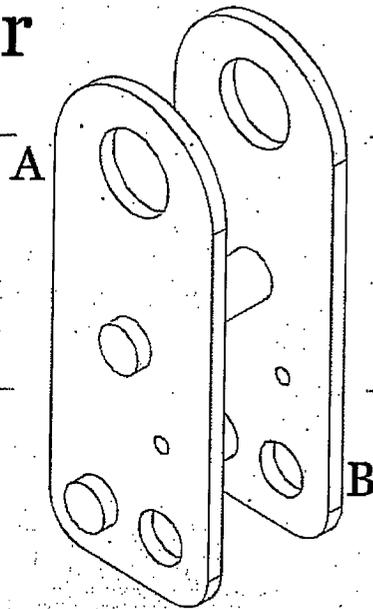
## E. RAILING MOUNTING HOLES

A J-Bolt is used in both a Railing and Containment Post for fastening in conjunction with Wire Rope.

# 5.4 Chain to Wire Rope Coupler

## CHAIN TO WIRE ROPE COUPLER

The Chain to Wire Rope Coupler facilitates the use of Wire Rope for suspension when required.



A.

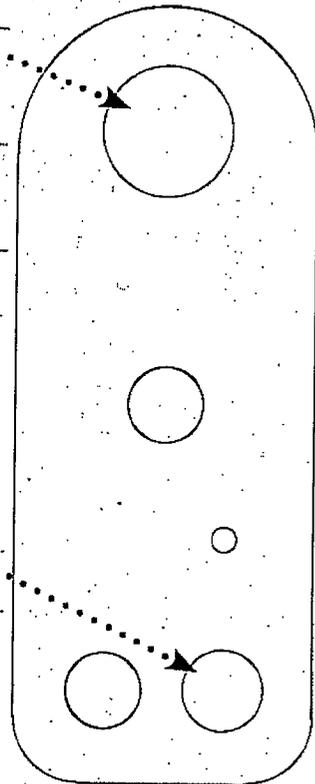
### WIRE ROPE CONNECTION PIN

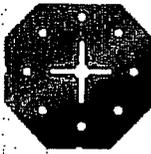
This pinned connection accommodates attachment of a single  $\frac{9}{16}$  in. (19 mm) Wire Rope or two  $\frac{9}{16}$  in. (14.3 mm) Wire Ropes with thimbles.

B.

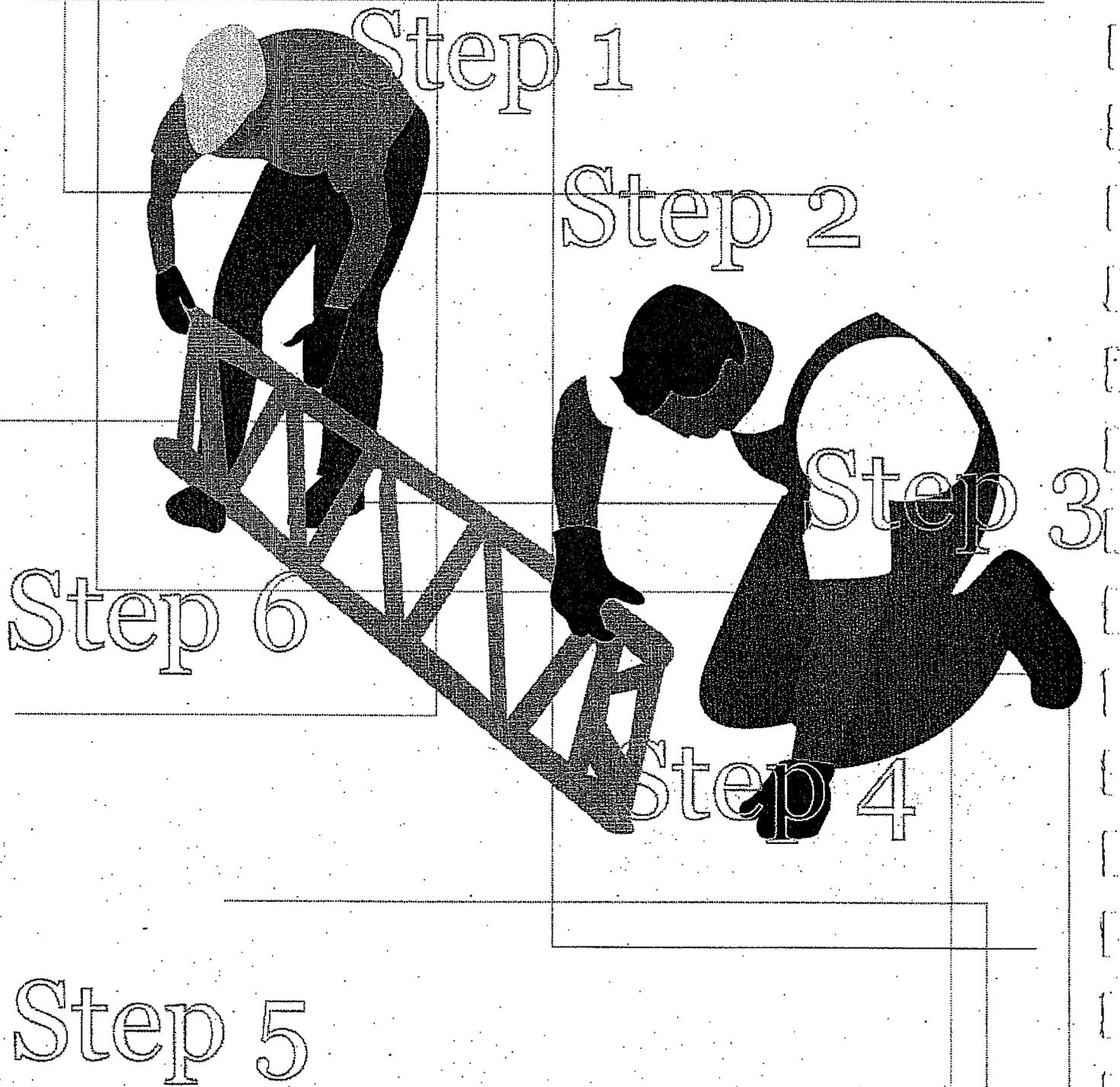
### CHAIN CONNECTION PIN

The Chain Connection Pin facilitates attachment of  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chain to the Wire Rope Coupler.





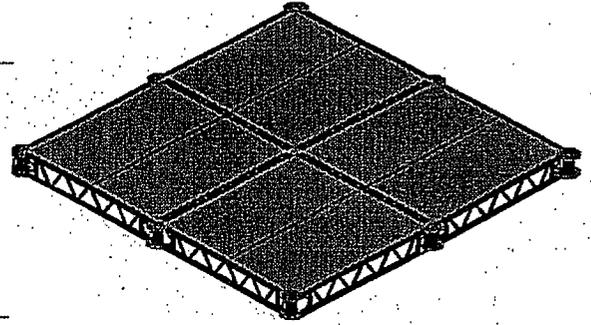
# 6.0 Installing The QuikDeck™ Platform System



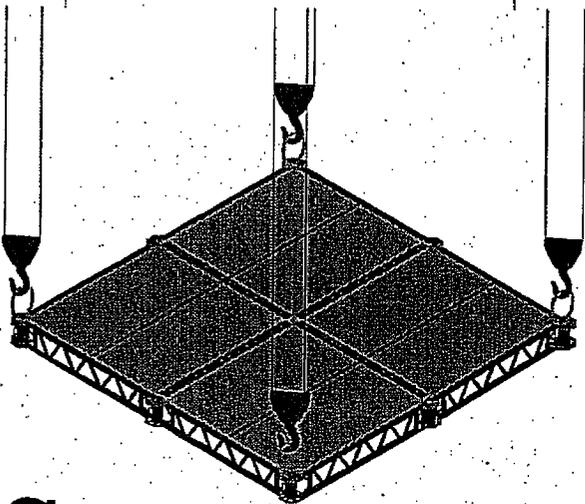
## 6.0 Installing QuikDeck™



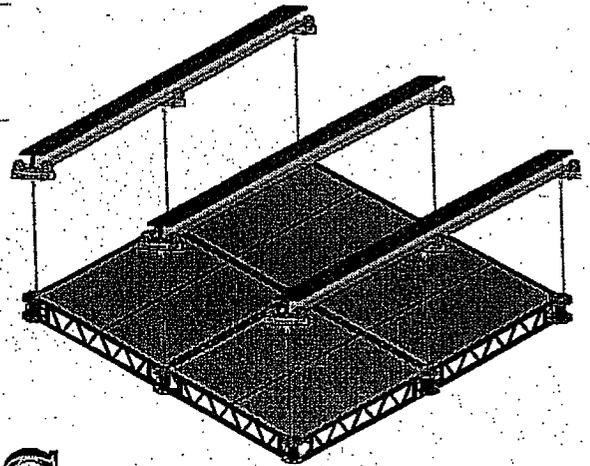
**S**tep 1: SHIPPING THE QUIKDECK™ PLATFORM SYSTEM



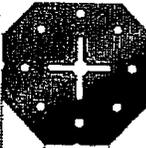
**S**tep 2: ASSEMBLING THE STAGING PLATFORM



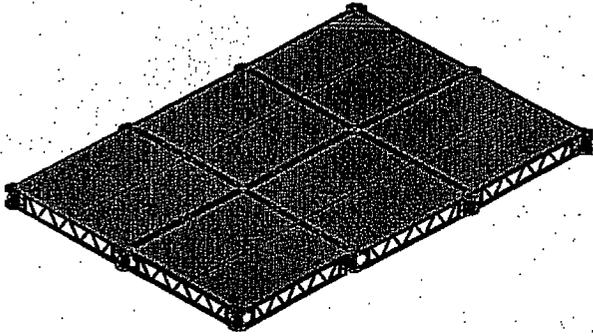
**S**tep 3: HOISTING THE STAGING PLATFORM



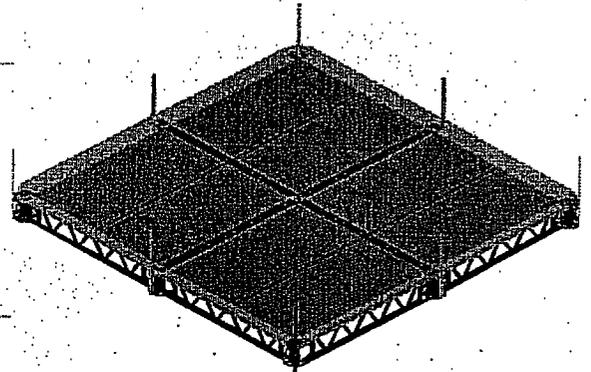
**S**tep 4: INSTALLING SUSPENSION



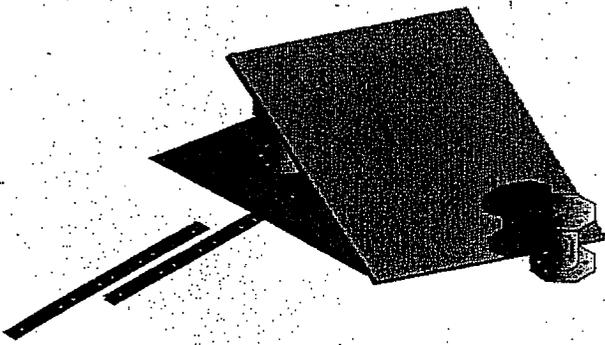
## 6.0 Installing QuikDeck™



**S**tep 5: EXPANDING  
THE PLATFORM



**S**tep 6: FINISHING  
THE PLATFORM



**S**tep 7: DISASSEMBLY  
AND REMOVAL

## 6.1 General

### Step 1 Shipping The QuikDeck™ Platform System



1.

#### SHIPPING

Step 1 discusses the transportation of the QuikDeck™ Platform System components from the Beeche Systems Corp. warehouse to the job site. It demonstrates the packaging of components and special unloading instructions.



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

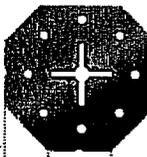
#### COMPONENTS FOR STEP 1

Components listed in Step 1 comprise the basic building blocks of the QuikDeck™ Platform System. Please refer to Section 4.0 - "QuikDeck™ Components" (p.26-52) and Section 5.0 - "QuikDeck™ Accessories" (p.53-59) for a complete review of QuikDeck™ Platform System parts and accessories.



#### Warning

Material handling can require significant resources when staging and assembling large platforms. For safety and efficiency, plan ahead to secure adequate unloading, staging areas and appropriate material handling equipment. If ground access and hoisting equipment are available, it is possible to unload materials directly onto the QuikDeck™ platform. However, always be aware of the loads being applied to the platform – it is likely that the largest loads ever applied to the platform will be from the staging of QuikDeck™ Platform System components.



# 6.0 Installing QuikDeck™

## 6.2 Packaging

### Step 1



QuikDeck™ Platform System components are packaged to provide safe and efficient shipping and unloading. Basic QuikDeck™ Platform System components are listed below with a brief description of packaging type, quantity and special instructions.

COMPONENTS	QTY	PKG. WEIGHT	SPECIAL INSTRUCTIONS
Joist (4.1)	15 per Bundle	1125 lbs (.5 tonne)	To ensure stability, the tubes at the end of the Joist are tied off with metal bands.
Node (4.2)	48 on a 4ft x 4ft (1.2m x 1.2m) Pallet	1350 lbs (.6 tonne)	
Deck Support (4.4)	48 on a 4ft x 4ft (1.2m x 1.2m) Pallet	2500 lbs (1.13 tonne)	The Deck Supports are packaged uniquely due to the handles. The handles are tied off to ensure safety. They overhang the pallet by 4 ft (1.2 m). * If the deck support shifts during transportation, be careful when cutting the metal tie as the support may fall due to unbalanced weight distribution.
Deck Retainers (4.6)	375 Stackable	2500 lbs (1.13 tonne)	
Toe Boards (4.11)	110 on a 4ft x 4ft (1.2m x 1.2m) Pallet	2500 lbs (1.13 tonne)	
Decking (4.5)	27 per Bundle	2000 lbs (.9 tonne)	Plywood directly shipped from supplier. Package size varies. See Load Ratings chart (p.22) for limitations on storing Decking on platform.
Beam Clamps (4.7)	150 in a 4ft x 4ft x 4ft (1.2m x 1.2m x 1.2m) Crate	2500 lbs (1.13 tonne)	Beam Clamps @ 1 crate = 150-160 which is 1750-1875 lbs (.79-.85 tonne). W/CrossTubes 2500 lbs (1.13 tonne) max.
Chain Couplers (4.8)	575 in a 4ft x 4ft x 4ft (1.2m x 1.2m x 1.2m) Crate	2500 lbs (1.13 tonne)	
Pins, Bolts, Screws, Lanyards (4.3)(4.14)	4ft (1.2m) Collapsible Cubes	2500 lbs (1.13 tonne)	
Suspension Chain (4.9)	Wire Basket	800 lbs (.36 tonne) per 500 ft (152 m)	
Railing Assembly (4.12)	100 in a 4ft x 4ft x 4ft (1.2m x 1.2m x 1.2m) Crate	1400 lbs (.63 tonne)	

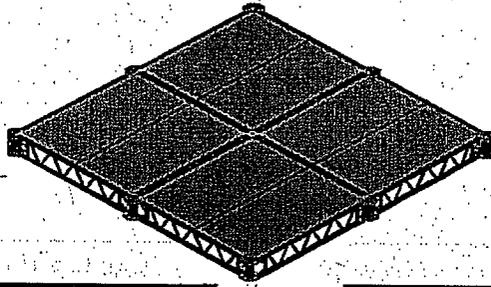


**Warning**

**DO NOT** untie the metal bands until you are ready to use the Joists or Deck Supports. Do not cut banding or shrink-wrap until ready to use.

## 6.3 Components/ Tool List

### Step 2 Assembling the Staging Platform



2.

#### BUILDING

Assembling the Staging Platform is generally the first step in installing a large area QuikDeck™ Platform. The Staging Platform should be assembled directly under the desired installed position of the Staging-Platform.

A Staging Platform is generally 16 ft x 16 ft (4.9 m x 4.9 m) in size. Once hoisted and suspension is installed, the Staging Platform acts as a material staging area. Before assembly commences, it is helpful to add dunnage under Joists and Nodes to allow adequate space between QuikDeck™ components and the ground.

 **Warning**

A Staging platform larger than 16 ft x 16 ft (4.9 m x 4.9 m) must be reviewed and approved by Beeche Systems Corp.

#### COMPONENTS FOR STEP 2

Component	Quantity
Joist (4.1).....	12
Node (4.2).....	9
16 in. (406 mm) Node Pin (4.3)..	24
Deck Support (4.4).....	4
Decking 4-ft x 8-ft (1.2 m x 2.4 m) (4.5).....	8
Deck Retainer (4.6).....	8
Hex Cap Screw (4.15).....	32
Dunnage.....	As required



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

#### TOOL LIST

- |                                                         |                                  |                             |                                            |
|---------------------------------------------------------|----------------------------------|-----------------------------|--------------------------------------------|
| * Lever Hoist 1.5 Tons (33.5 kN) 1.5M Lift <sup>1</sup> | * Drill Driver Cordless w/Clutch | * Drive Sq Bit Adpt         | * Hitch Pin 3/4" x 6 in. Long <sup>1</sup> |
| * Pin Extractor Tool <sup>1</sup>                       | * Hammer 16 oz (85 kg) dead blow | * Wrench 3/16" Combo        | * Torque Wrench 3/8" Drive                 |
| * Ratchet Wrench 3/8" Drive                             | * Socket 1/2" Deep x 3/8" Drive  | * Socket 3/4" x 3/8" Drive  | * Wire Rope Cutter                         |
| * Hand Sledge / Drill-Hammer                            | * Socket 5/8" Deep x 3/8" Drive  | * Socket 7/16" x 3/8" Drive | * Bull Pin (Spud Wrench)                   |
| * Duct Tape                                             | * Caution Tape                   |                             |                                            |

<sup>1</sup>: Purchase direct from Beeche Systems Corp.

# 6.0 Installing QuikDeck™

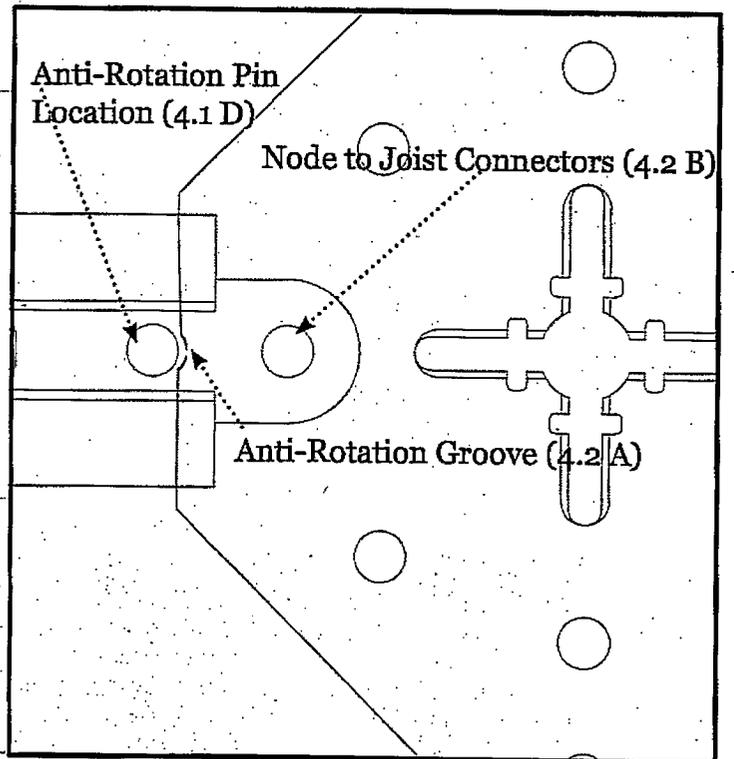
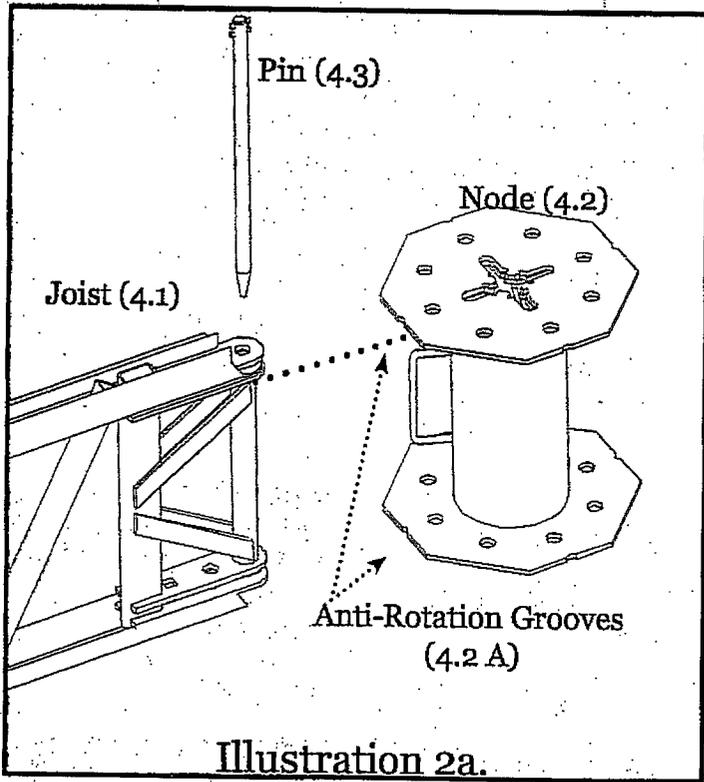
## 6.4 Joist to Node Connection

### Step 2

2a.

With one Joist, one Node, and one 16 in. (406 mm) Node Pin, slide the Node into the Joist end, aligning the Node to Joist Connectors as illustrated below.

Ensure that the Joist Anti-Rotation Hole is aligned with the Node Anti-Rotation Groove when assembled.



## 6.4 Joist to Node Connection

### Step 2

2b

Align the 16 in. (406 mm) Node Pin through the Node-to-Joist Connector Holes. Push the Pin through the Joist and Node making sure the Pin is pushed through the bottom of the Node to Joist Connector Holes. The Pin is completely installed when the Lower Roll Pin Stop is touching on the top surface of the Joist.

Temporarily insert Hitch Pin or other 3/4 in. (19 mm) diameter pin into the Joist Anti-Rotation Hole to prevent movement.

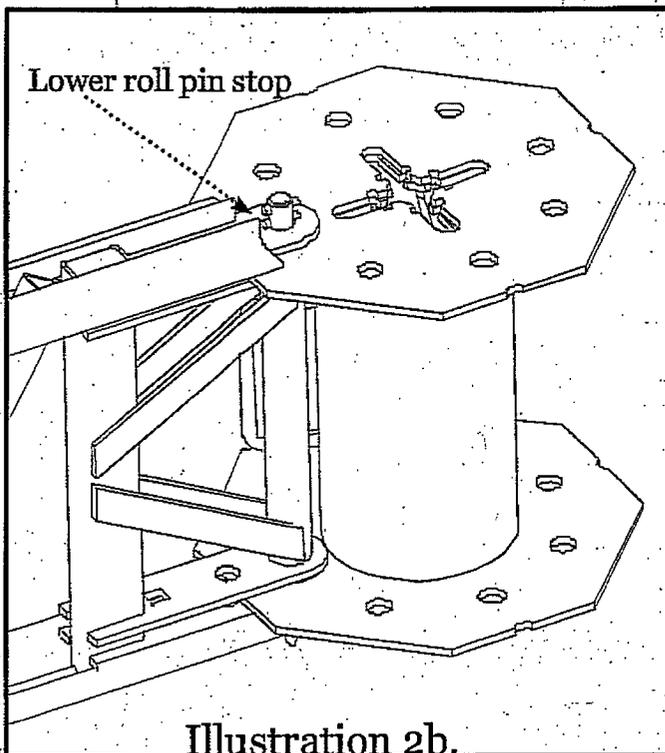
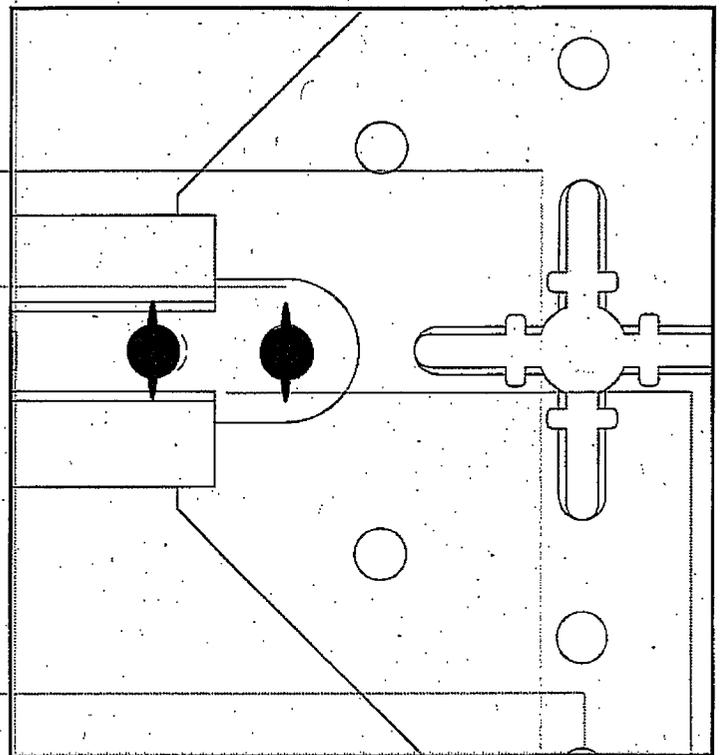
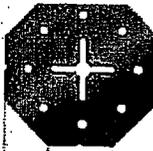


Illustration 2b.





## 6.0 Installing QuikDeck™

### 6.4 Joist to Node Connection

#### Step 2

2c

Repeat steps 2a. and 2b. for the remaining three sides, building a single 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ Platform System “module” or “grid”. Square up the corners of the assembly to facilitate installation of Decking.

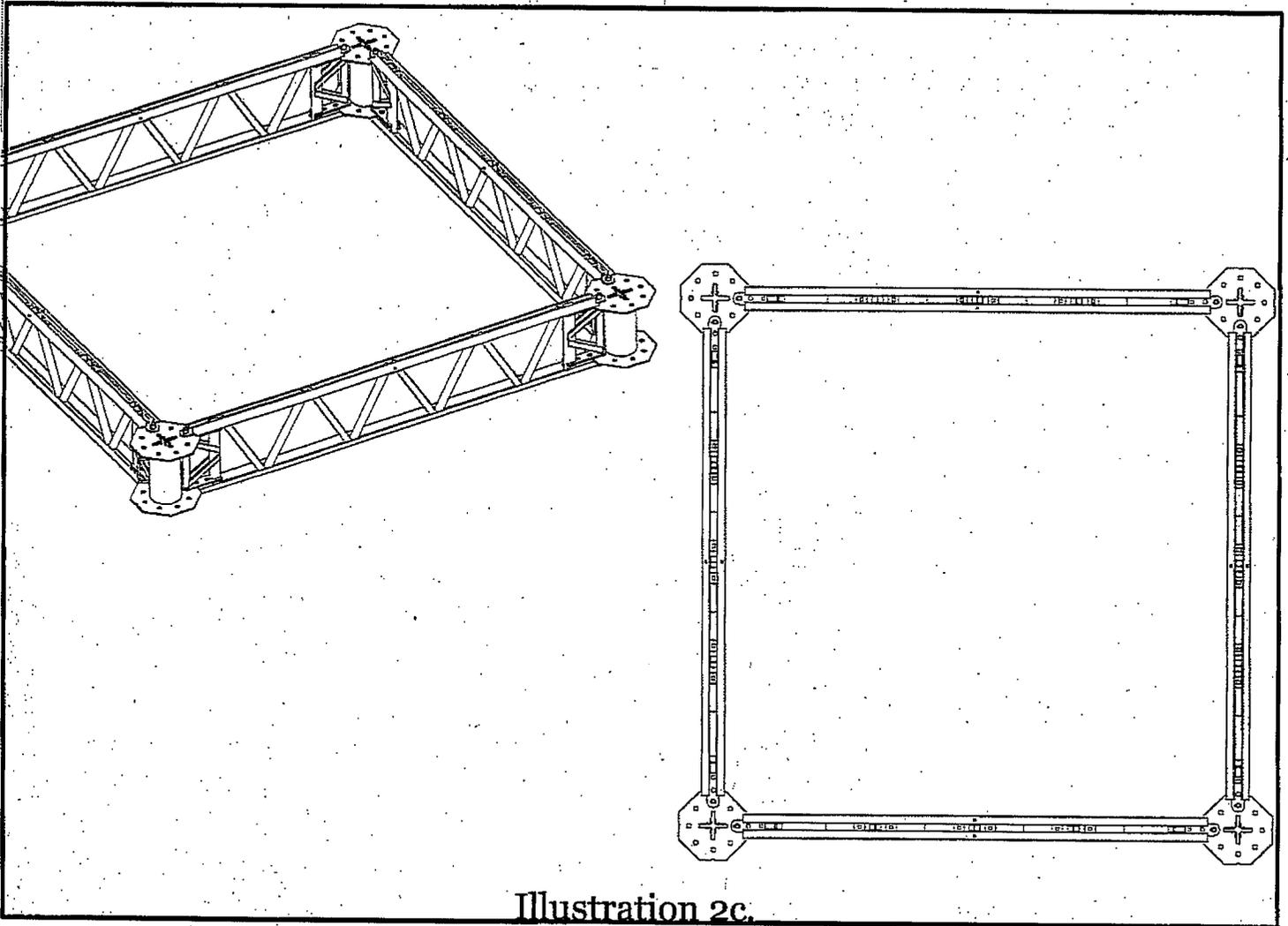


Illustration 2c.

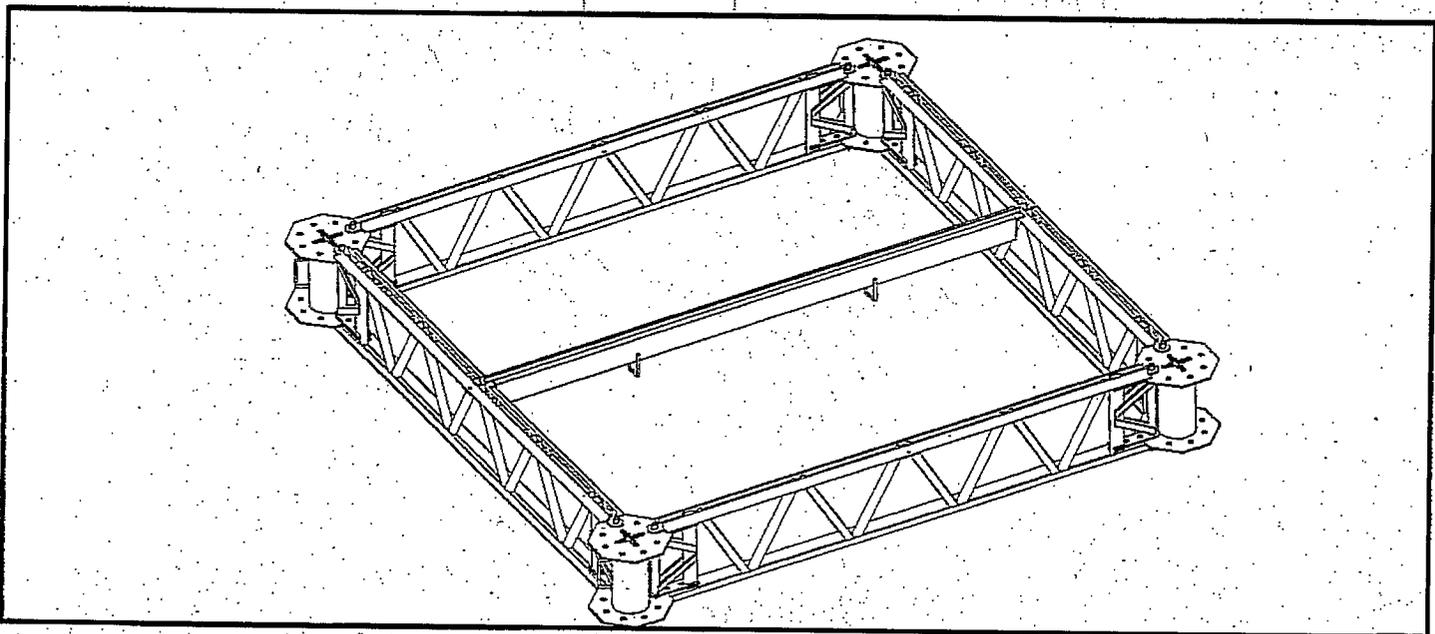
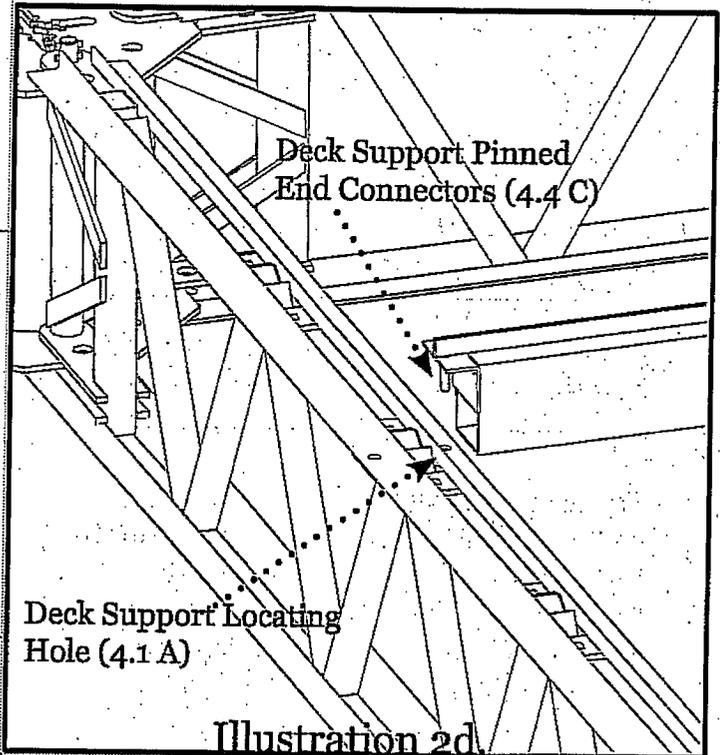


## 6.5 Deck Support Installation

### Step 2

2d

Select a Deck Support and insert the Deck Support Pinned End Connectors into Deck Support Locating Holes in the Joists.



# 6.0 Installing QuikDeck™

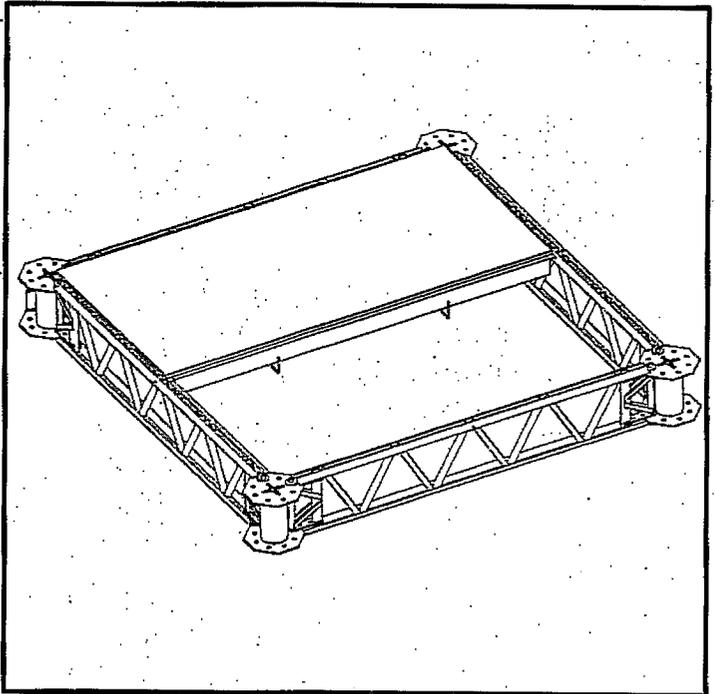
## 6.6 Decking Installation

### Step 2

2e.

Install 4 ft x 8 ft (1.2 m x 2.4 m) Decking panels into the pockets created by the Joist top angles and Deck Support Fin by inserting one end of the panel and sliding it until it is fully seated. Repeat with other panel to complete Decking installation.

To ensure that the Decking is installed correctly, it should be fully seated onto the top surfaces of the Deck Support tube and the Joist angles. Make certain Decking is correctly installed before moving onto the next steps.



4 ft x 8 ft (1.2 m x 2.4 m) piece of Decking (4.5)

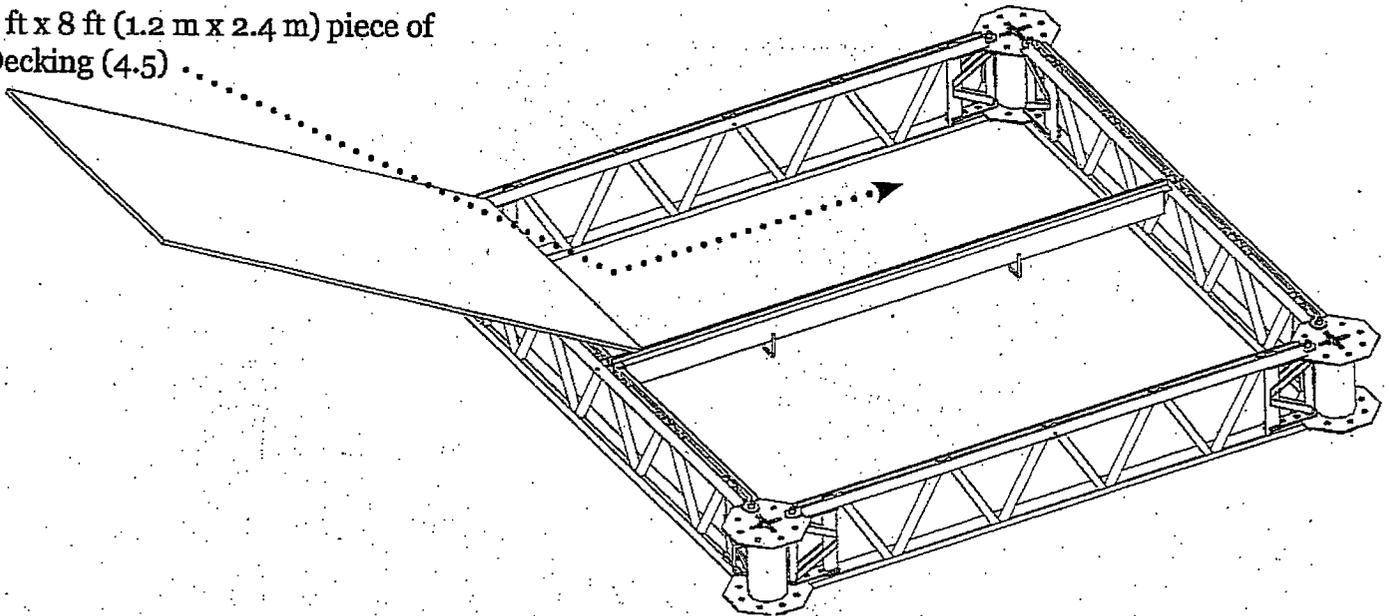


Illustration 2e.

## 6.6 Decking Installation

### Step 2

2f.

Repeat steps 2a. - 2e. to create a 16 ft x 16 ft (4.9 m x 4.9 m) Staging Platform.

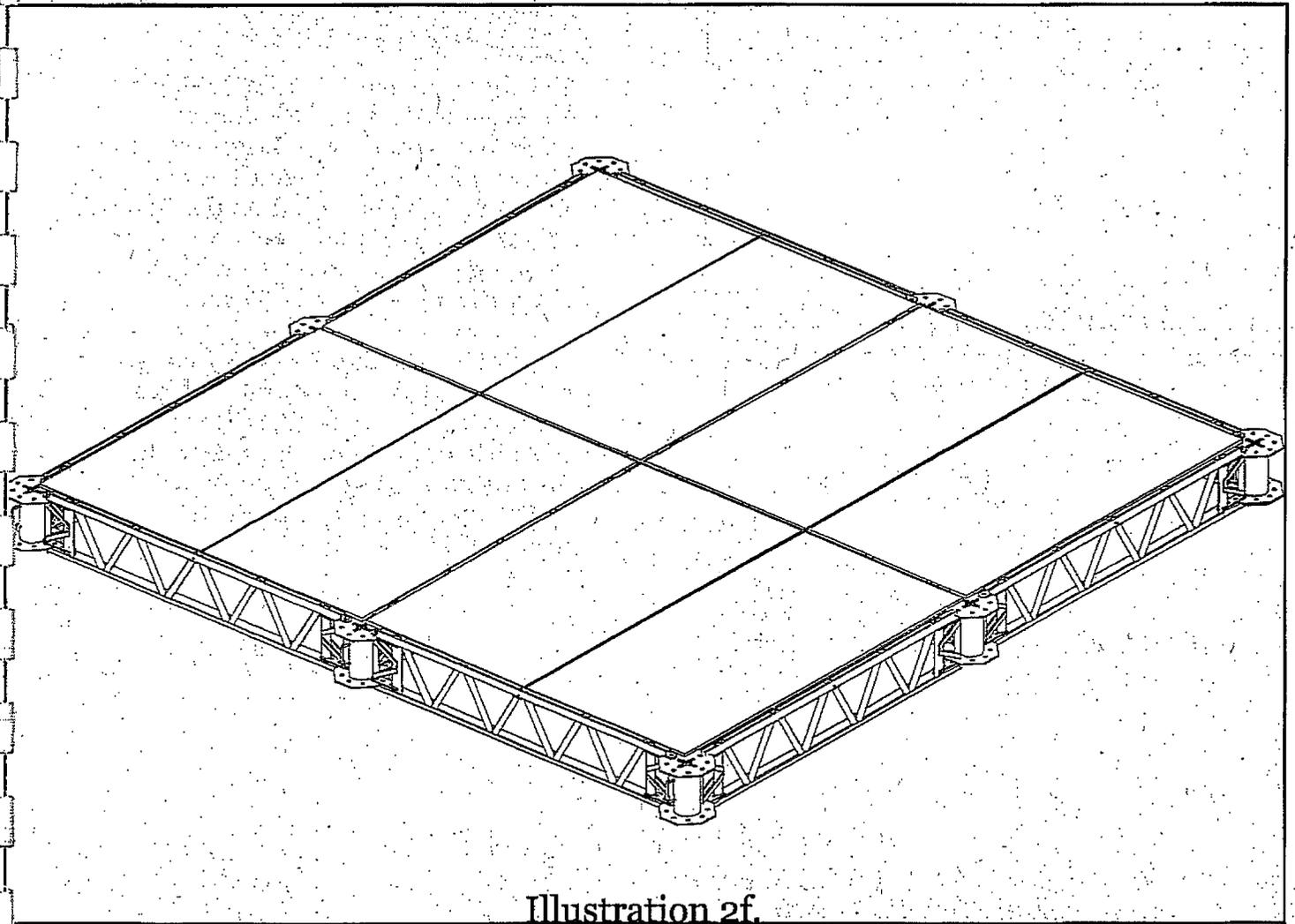


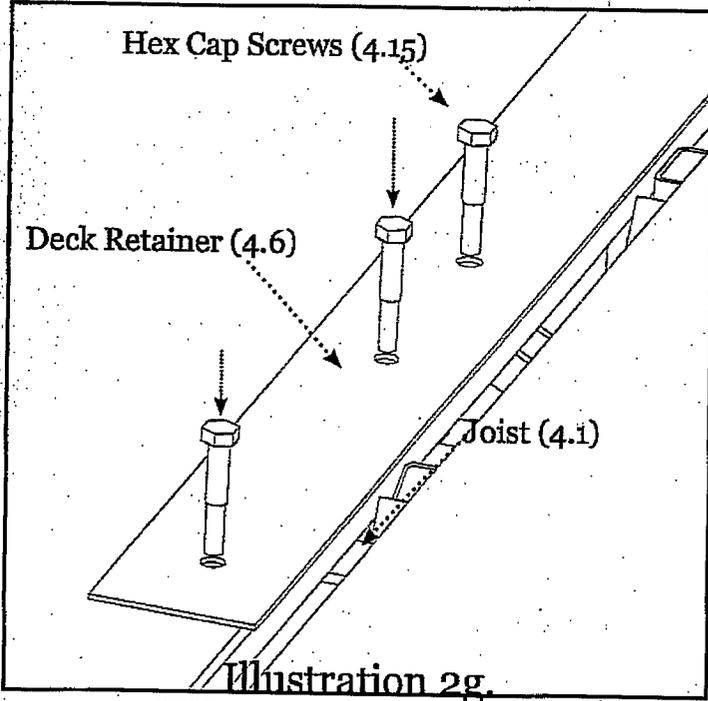
Illustration 2f.

## 6.0 Installing QuikDeck™

### 6.7 Deck Retainer Installation

#### Step 2

2g

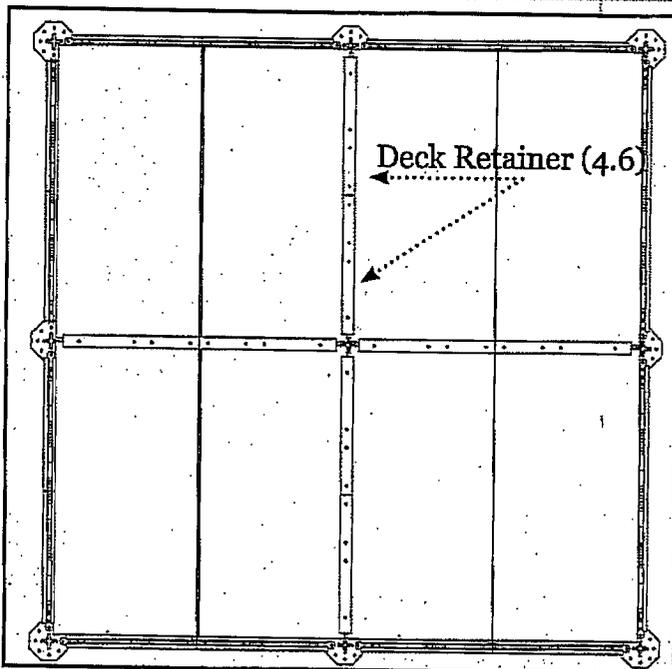


Select 8 Deck Retainers and 32 1/2-13 Hex Cap Screws. Align holes in Deck Retainers to the Mounting Nuts on the top of the interior Joists only. Two Deck Retainers per Joist are required. Install a 1/2-13 Hex Cap Screw in all Deck Retainer holes and securely tighten using a wrench or drill driver to 15 ft-lbs (20.3 N-m).



#### Danger

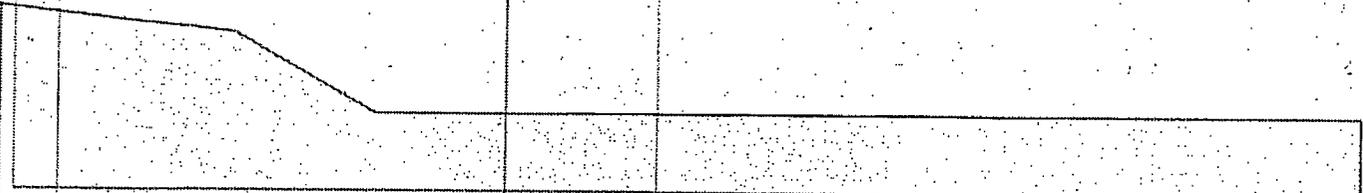
If wind gusts are possible, if Staging Platform will be in place for an extended period, or if danger of falling objects exists; it is recommended that Toe Boards be installed on the Staging Platform to completely retain all Decking panels and prevent objects from falling off the platform.



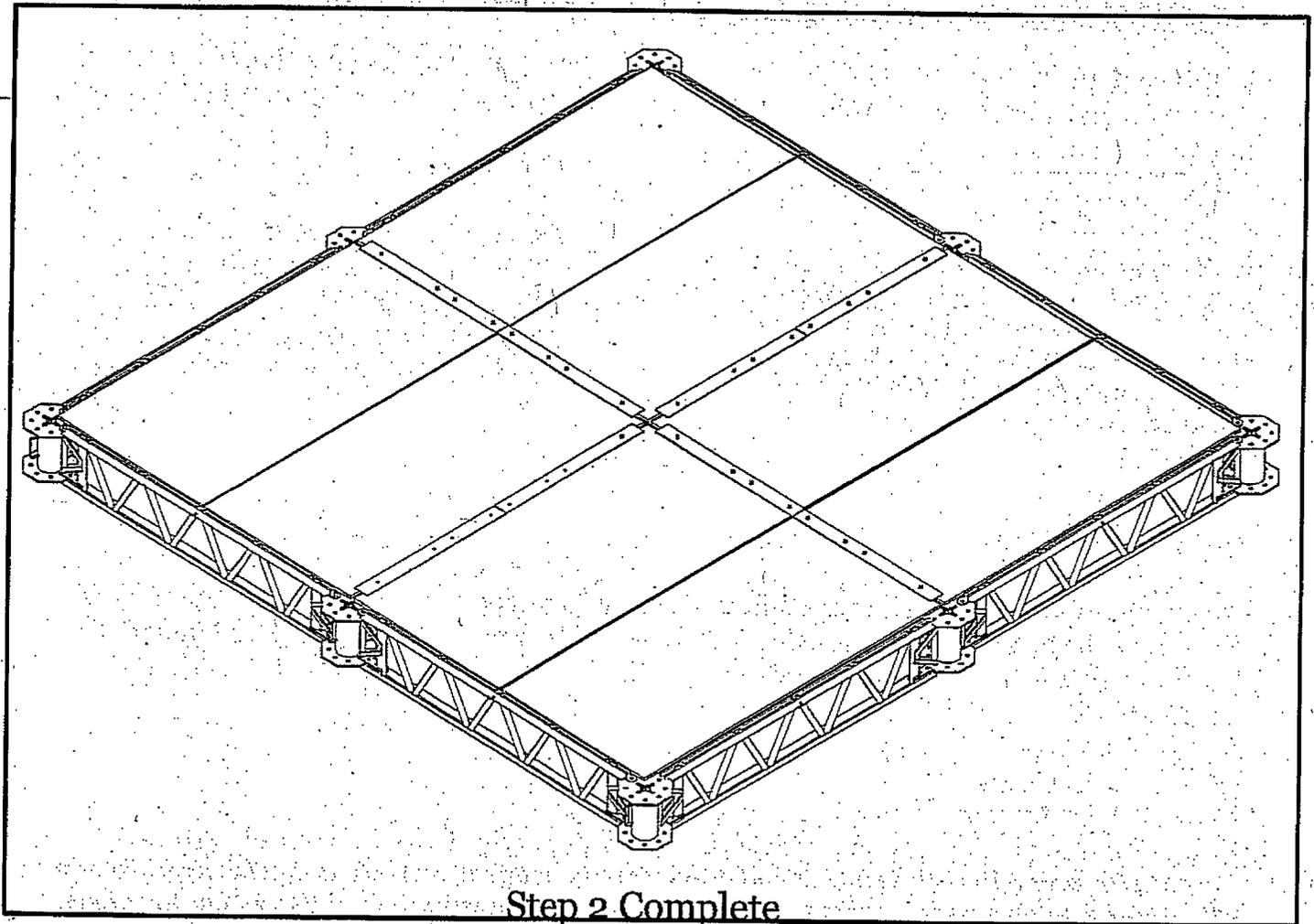
Insert the Hex Cap Screws through the Toe Board into Mounting Nuts on perimeter Joists (Not Shown). Securely tighten the 1/2-13 Hex Cap Screws using a wrench or drill driver to 15 ft-lbs (20.3 N-m). See Section 4.11 for more information on Toe Boards.

## 6.7 Deck Retainer Installation

### Step 2



Assembly has been completed. You are now ready to move onto Step 3  
"Hoisting the Staging Platform".

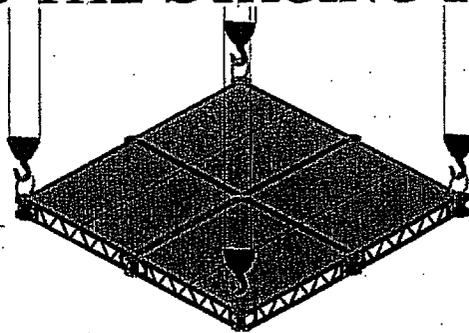


Step 2 Complete

# 6.0 Installing QuikDeck™

## 6.8 Component List

### Step 3 HOISTING THE STAGING PLATFORM



3.

#### HOISTING

In this step, the QuikDeck™ Platform System Staging Platform will be hoisted into position under the structure.



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

#### COMPONENTS FOR STEP 3

Component List for Hoisting 16 ft x 16 ft (4.9 m x 4.9 m) Staging Platform

Component	Quantity
Suspension Chain (4.9) .....	4
Chain Retainer Pins (4.10) .....	4
Plastic Ties (4.17) .....	4
Man-Riding Hoist .....	4
Clevis #80 Master Link 3/8 (9.5 mm)...	4

#### Hoisting Specifications:

Hoist (Man-Riding capable) with a minimum capacity of 2000 lbs (8.9 kN). The Operator of Hoist must be competent as defined in the General Warning Section of the User Manual. The Hoist must conform to all safety regulations. Consult Beeche Systems Corp. for additional information.



#### Warning

Before hoisting commences it is important to fully review Step 2: Assembling the Staging Platform to make sure each component is properly installed and secured. When confident that all safety checks have been performed, continue with the following steps.

# 6.9 Hoisting and Suspension

## Step 3

3a.

To prevent drifting or rotating of the platform during hoisting, ensure the Staging Platform is directly under the final hoisted location.

Attach a Clevis Master Link to each of the 3 ft (.91 m) lengths of 3/8 in. (9.5 mm) Grade 100 Chain. See Illustration 3c.

Connect the four 3 ft (.91 m) lengths of 3/8 in. (9.5 mm) Grade 100 Chain into the four Nodes at each corner of the platform by inserting end of chain through the center of the Chain Retainer Slot. Feed adequate slack into the Retainer Slot and once in place, slide the chain to any one of the four slots surrounding the center of the top of the Node.

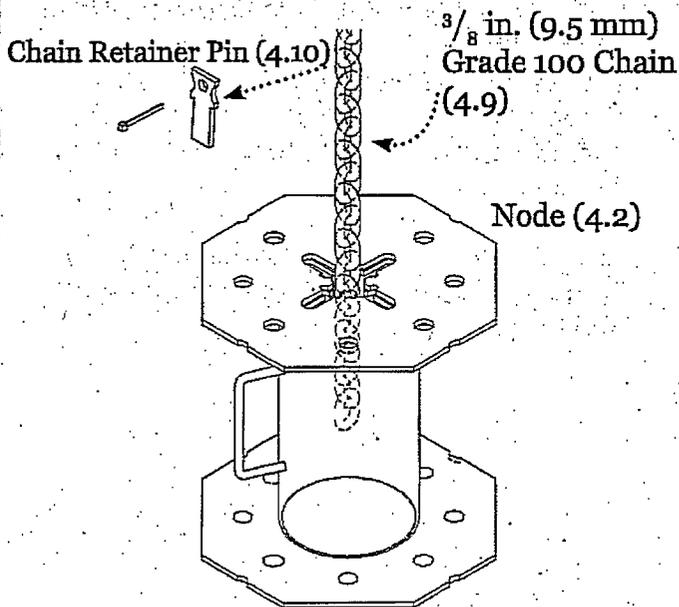


Illustration 3a.

3b.

Secure the chain in place by using a Chain Retainer Pin to pin through the Node Slot. Tie off the Chain Retainer Pin and chain using a Plastic Tie to prevent the Chain Retainer Pin from being removed. Refer to Illustration 3b. Repeat the above on the remaining three corner Nodes ensuring that Chain Retainers are properly secured with Plastic Ties before moving on to the next step.

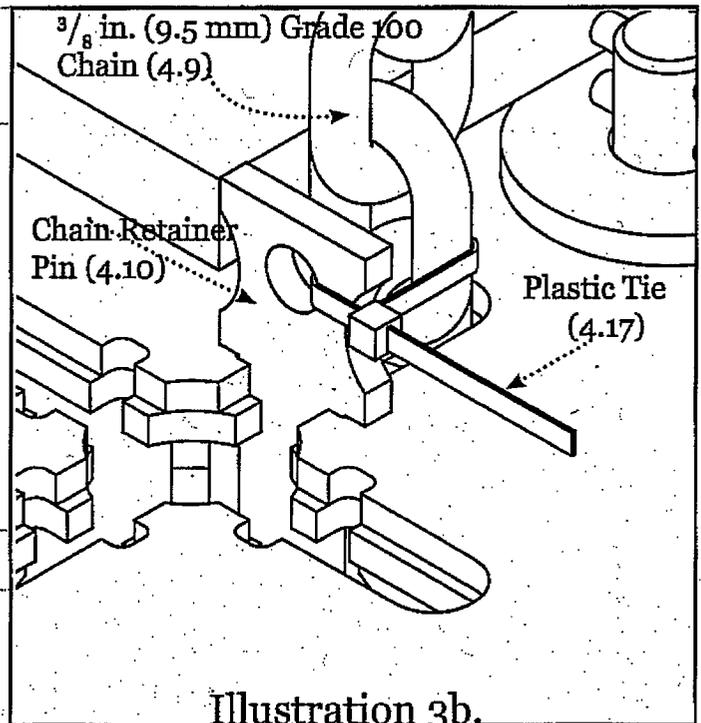
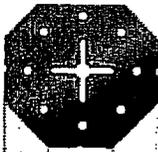


Illustration 3b.



## 6.9 Hoisting and Suspension

### Step 3



It is now the responsibility of a qualified person to apply appropriate rigging and hoisting equipment and methods to hoist the Staging Platform into position. Safe rigging conditions, consistent with all OSHA guidelines, must be maintained. Refer to OSHA CFR 1926 for more information.

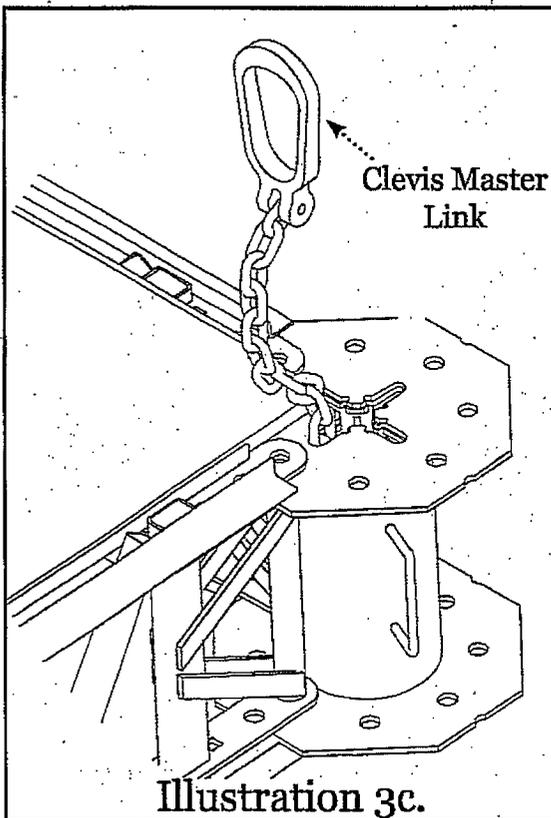


Illustration 3c.



### Warning

OSHA requires that the hoisting apparatus be either a Manual or Automatic Man-Riding Hoist. It is the responsibility of a person with competency to have knowledge of using the appropriate equipment.



### Danger

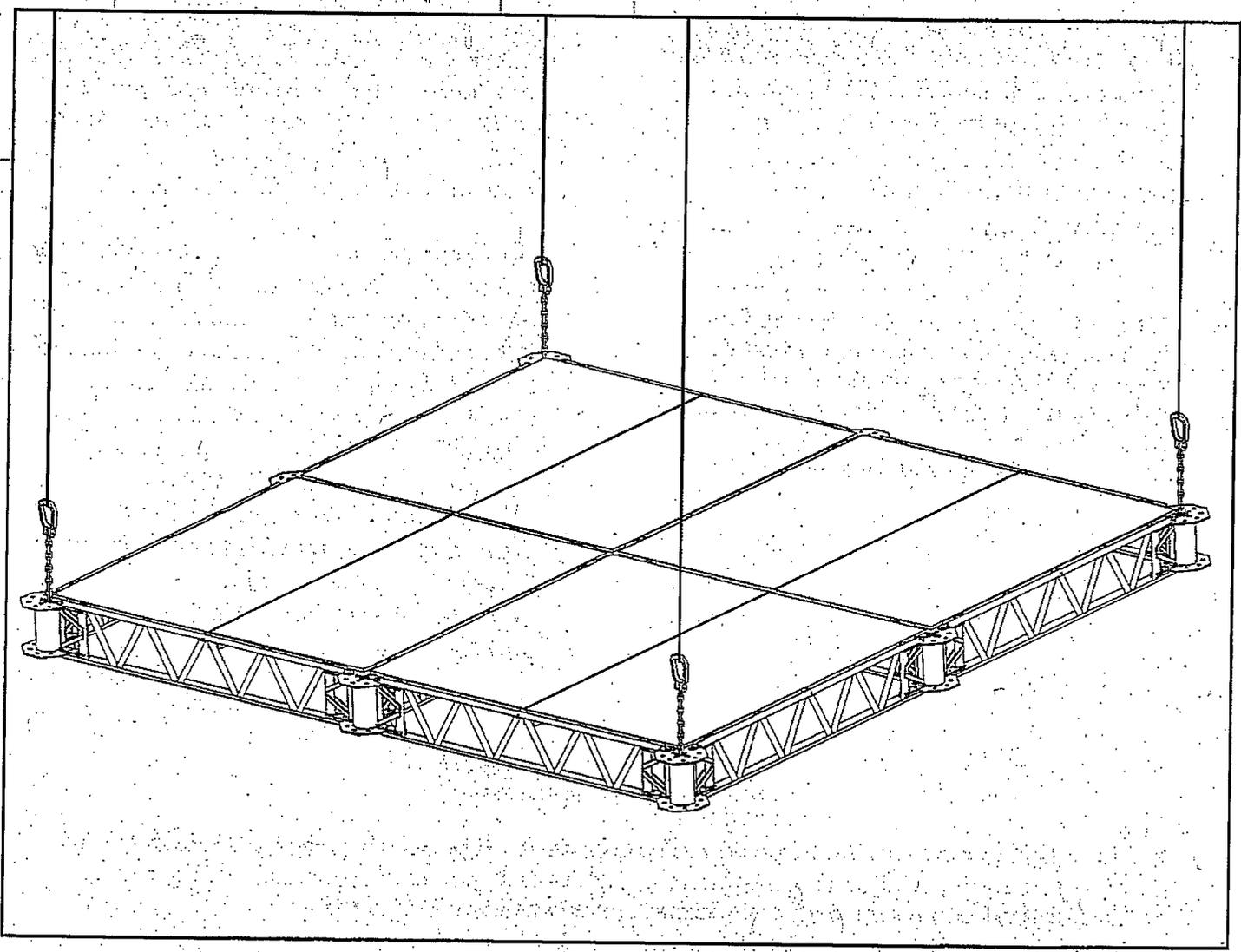
While hoisting the Staging Platform, all persons must be tied off consistent with OSHA requirements. An independent Safety Line must be used and tied off to overhead structural members. Do not tie off to the Staging Platform or any QuikDeck™ Platform System component.

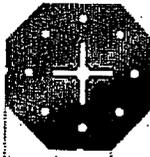
Improper rigging or hoisting of the Staging Platform can result in property damage, injury or death.

# 6.9 Hoisting and Suspension

## Step 3

Hoisting has been completed. You are now ready for Step 4 "Installing Suspension".



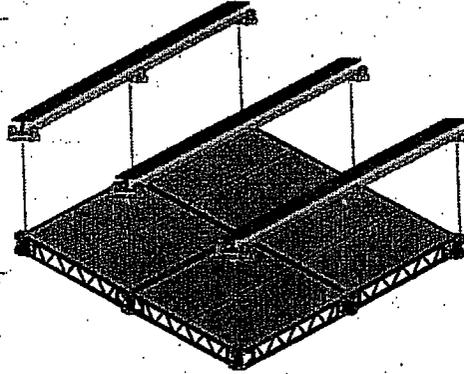


# 6.0 Installing QuikDeck™

## 6.10 Component List

### INSTALLING SUSPENSION

#### Step 4



4.

#### INSTALLING

In this step, the QuikDeck™ Platform System Staging Platform's hoisting suspension will be converted to permanent Beam Clamp supported suspension.



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

#### COMPONENTS FOR STEP 4

Component List for Installing Suspension for the 16 ft x 16 ft (4.9 m x 4.9 m) Staging Platform in a 8 ft x 8 ft (2.4 m x 2.4 m) suspender configuration (75 psf) (3.6 kN/m<sup>2</sup>).

Component	Quantity
3/8 in. (9.5 mm) Grade 100 Chain (4.9)	9
Chain Coupler (4.8)	9
Beam Clamp (4.7)	18
Cross Tube (4.7 B)	9
Chain retainer Pin (4.10)	9
Plastic Tie (4.17)	9
8 in. (203 mm) Beam Clamp Pin (4.14)	18
4 in. (101 mm) Chain Coupler Pin (4.14)	18
8 in. (203 mm) Lynch Pin with Lanyard (4.14)	18
16 in. (406 mm) Lynch Pin with Lanyard (4.14)	18
Lever Hoist 1.5 Ton (13.3 kN) Capacity	1



#### Danger

Falling objects may consist of platform components dropped during installation of the platform or tools, equipment, supplies or debris dropped during use of the platform. Falling objects can cause property damage, serious injury or death.

# 6.11 Beam Clamp Installation

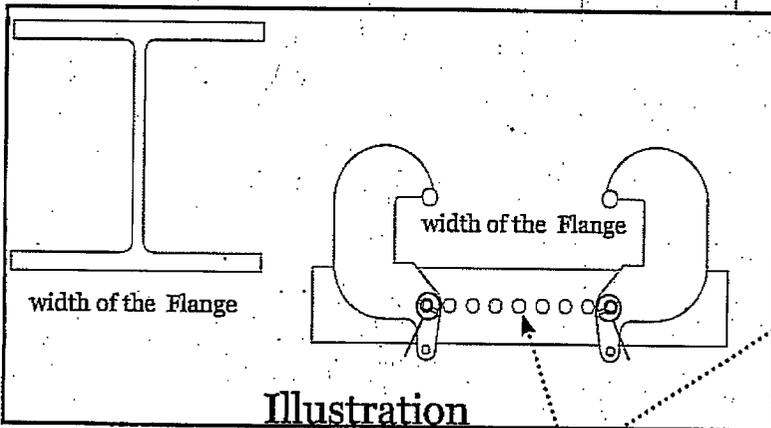
## Step 4

4a

Select the following:

- Two Beam Clamp Jaws
- one Cross Tube
- Two 6.5 in. (165 mm) Pins (see note below)
- Two 16 in. (406 mm) lanyard and Lynch Pin Assemblies

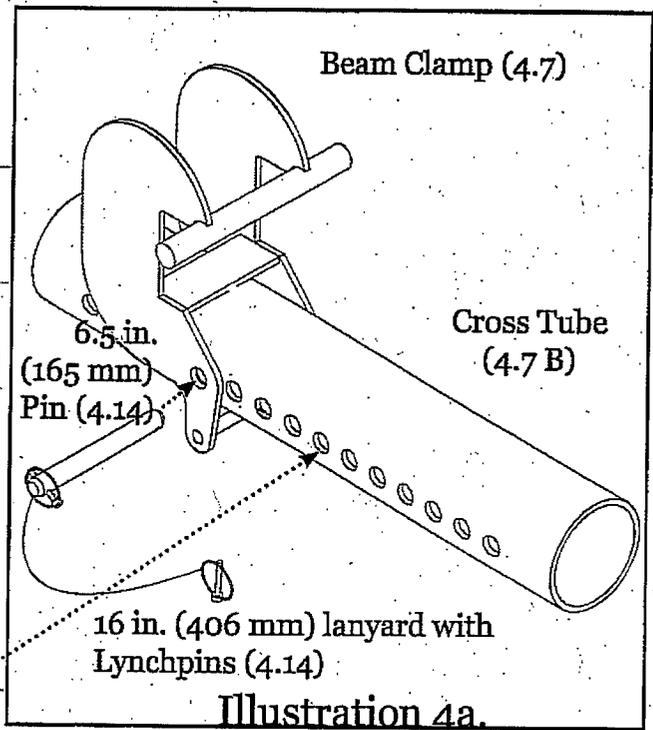
Determine the flange width of the I-Beam to obtain the correct measurement to properly set-up the Beam Clamp Assembly. When installed, the centerline of the Cross Tube should be close to the centerline of the structural member.



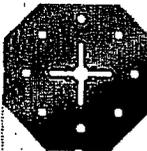
4b

Insert Cross Tube through the Beam Clamp Jaw, positioning the tube such that the centerline of the Cross Tube will be close to the centerline of the structural member when the Beam Clamp is installed.

Align appropriate hole in Cross Tube with appropriate hole in Beam Clamp Jaw and insert 6.5 in. (165 mm) Pin into place. Install Lynch Pins into both ends of 6.5 in. (165 mm) Pin.



Note: When Suspender Chains are installed on angle, if required, Beeche Systems Corp. offers an optional 8 in. (203 mm) long pin that can be inserted into the Cross Tube at midspan to prevent the chain from sliding.



## 6.0 Installing QuikDeck™

### 6.11 Beam Clamp Installation

#### Step 4

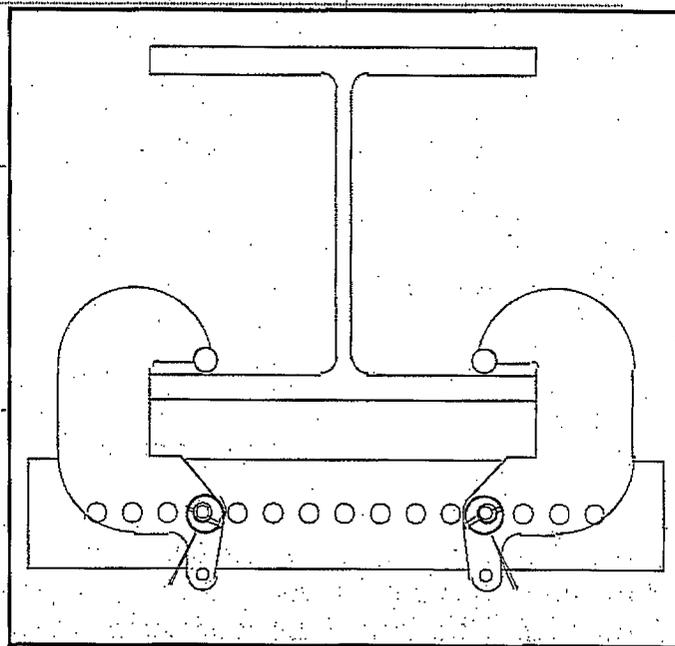
4c.

Position the Beam Clamp and Cross Tube on the I-beam.

4d.

Assemble remaining Beam Clamp Jaw onto Cross Tube, checking symmetry of the Beam Clamp Assembly. The clamp must be assembled as close as possible to the structural member to ensure stability and security of connection.

Align appropriate hole in Cross Tube with appropriate hole in Beam Clamp Jaw and insert 6.5 in. (165 mm) Pin. Install Lynch Pins with 16 in. (406 mm) lanyard into both ends of 6.5 in. (165 mm) Pin.



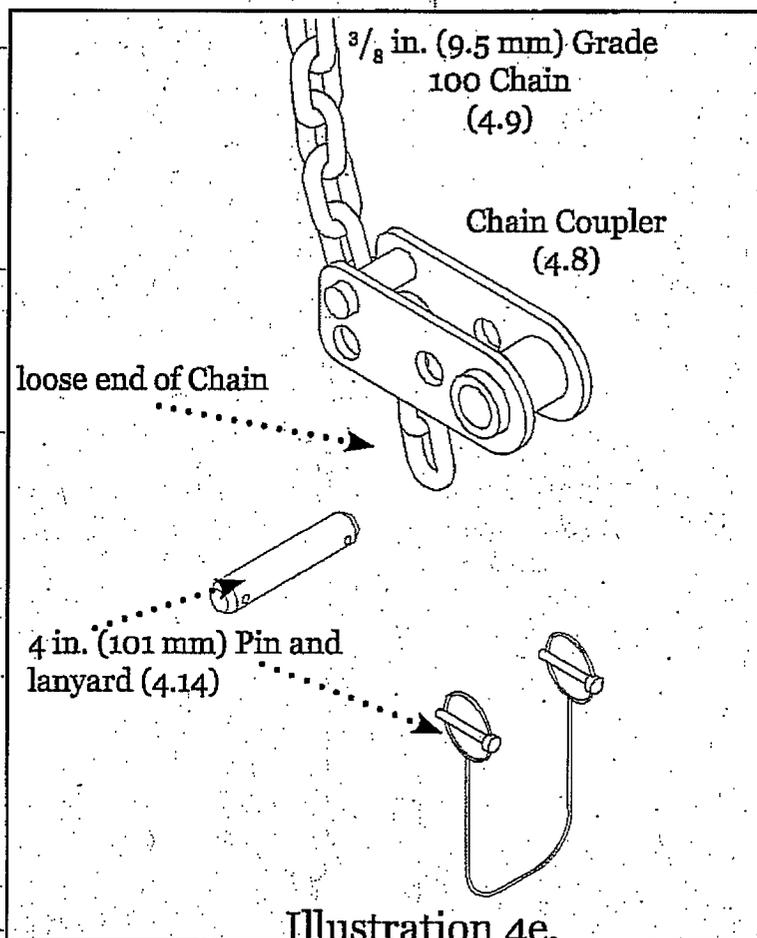
## 6.12 Chain Coupler Installation

### Step 4

4e.

Select appropriate length of  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chain and a Chain Coupler. The Chain Coupler connects to one free-end of the Chain to the Chain, as shown.

Secure the chain between the fixed pin of the Chain Coupler and the Chain Retainer Pin. Use the Lynch Pins with 8 in. (203 mm) lanyard to secure the Chain into place.



## 6.12 Chain Coupler Installation

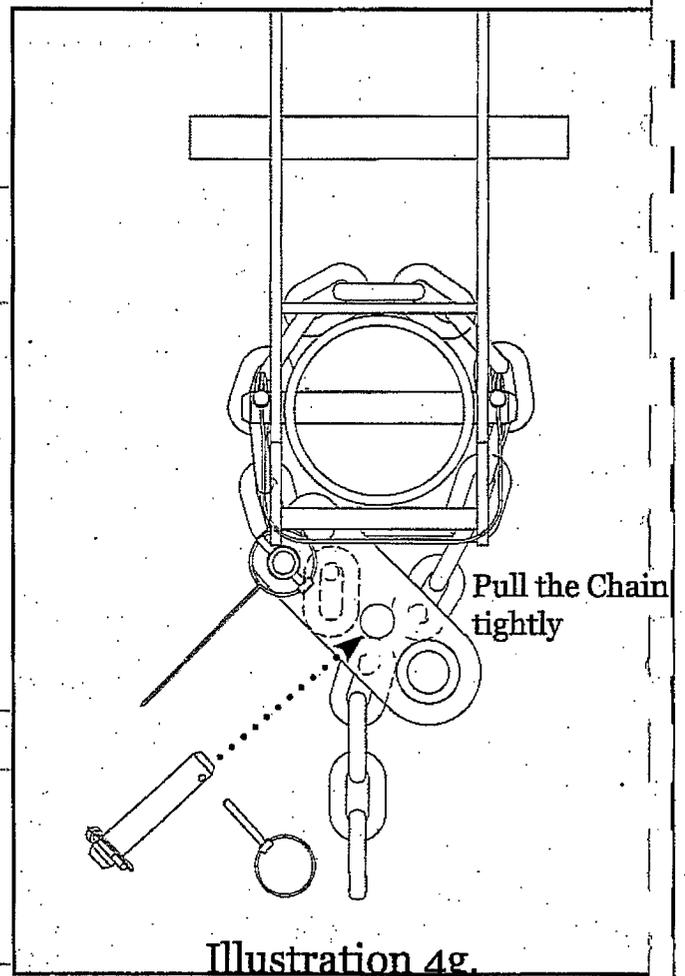
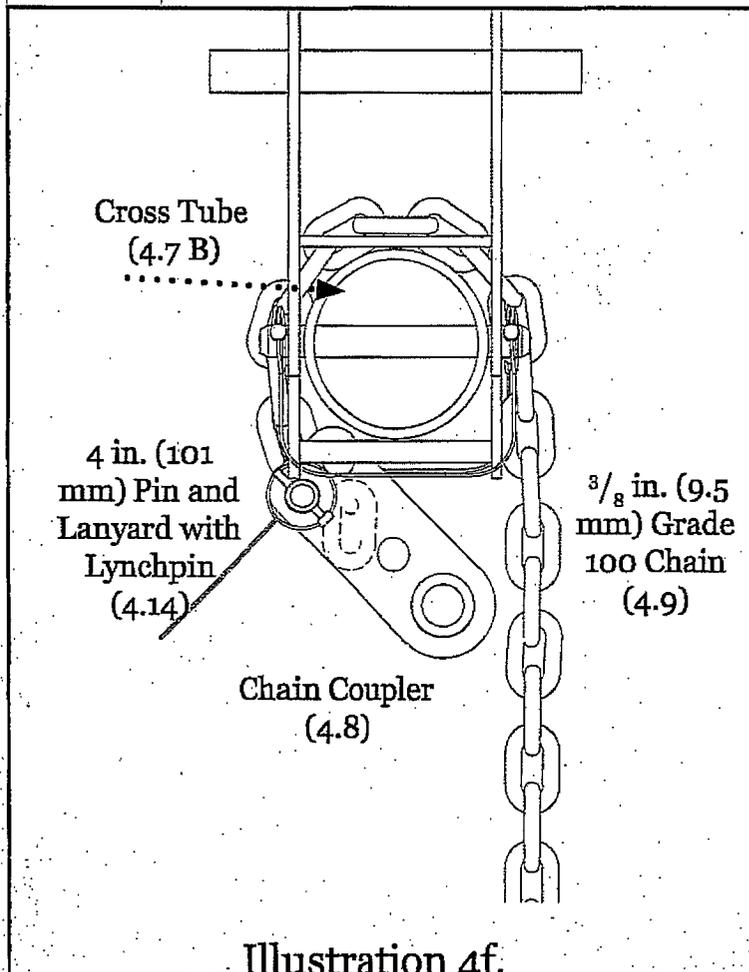
### Step 4

**4f.**

Hold free end of the Chain and sling the Chain Coupler over the Cross Tube as shown in Illustration 4f.

**4g.**

Insert the free end of the Chain between the Chain Coupler plates and bottom tube. Pull the Chain tight to create a choker configuration around the Cross Tube as shown in Illustration 4g. Avoid twisting the Chain when wrapping around the tube.

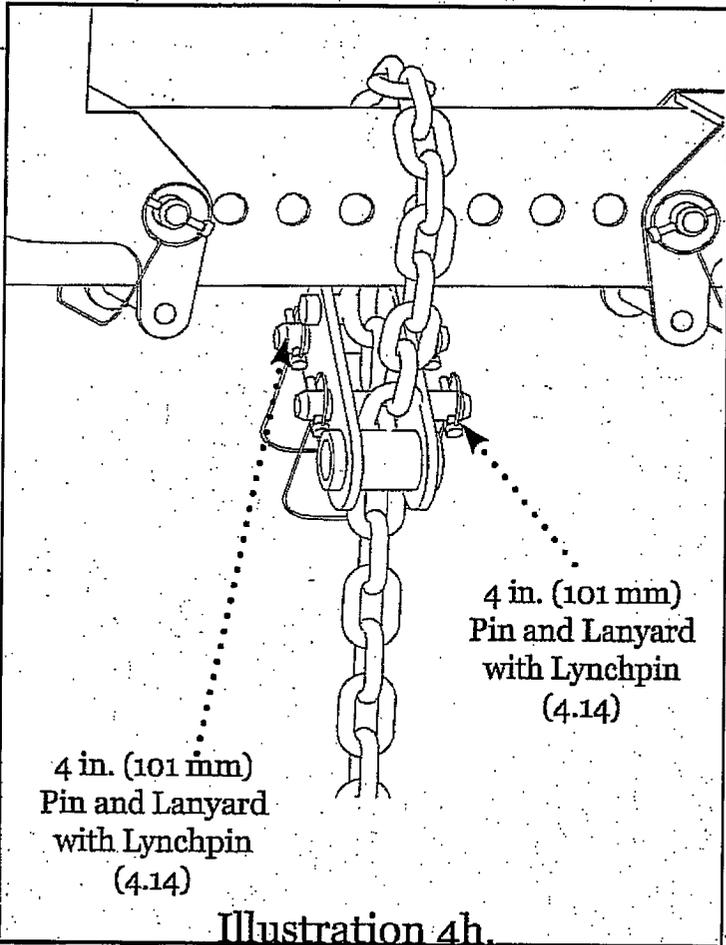


## 6.13 Chain to Node Connection

### Step 4

**4h**

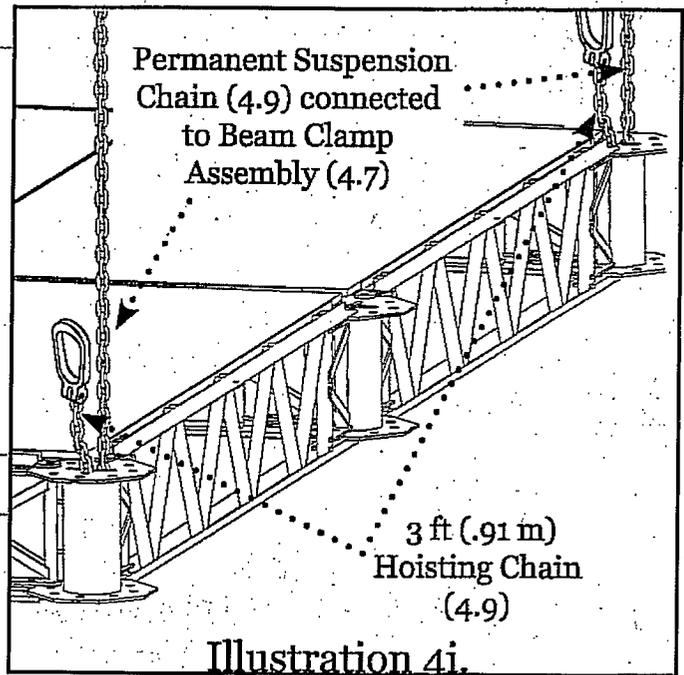
Ensure that the chain is not twisted. Place the Rigging Angle Control Pin into the Chain Coupler to secure the position and tension of the Chain. Installation of the Rigging Angle Control Pin in this application is optional.

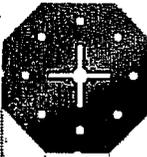


**4i.**

With the Chain now supported from the Beam Clamp assembly, insert the free end of the Chain into the hole in the selected Node.

To correctly tension and level the Staging Platform, you will need to raise the corner of the platform. Use appropriate hoisting methods and equipment. Contact Beeche Systems Corp. for additional information or to purchase specially designed hoisting accessories.





## 6.13 Chain to Node Connection

### Step 4

**4j.**

Once the platform is leveled, select appropriate Node Chain Slot. Refer to Section 3.0, page 25 "Using Angled Suspenders" to select correct Chain Slot. Slide the Chain into Chain Slot and secure it using Chain Retainer Pin and Plastic Tie. Avoid twisting the chain when inserting into Node Slot.

**4k.**

Once the Suspension Chain has been installed, ensure that there is no twist and that the Suspension Chain has been properly secured. Lower the hoist and check tension on Suspension Chain. If Suspension Chain is under tension, remove hoist and hoisting Chain. Load has now been transferred to Suspension Chain and Beam Clamp Assembly.

Chain Retainer Pin (4.10) and a Plastic Tie (4.17)

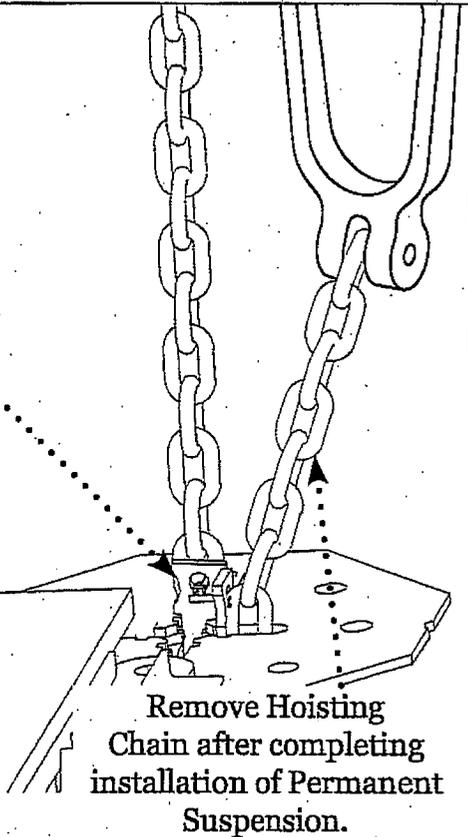


Illustration 4j.

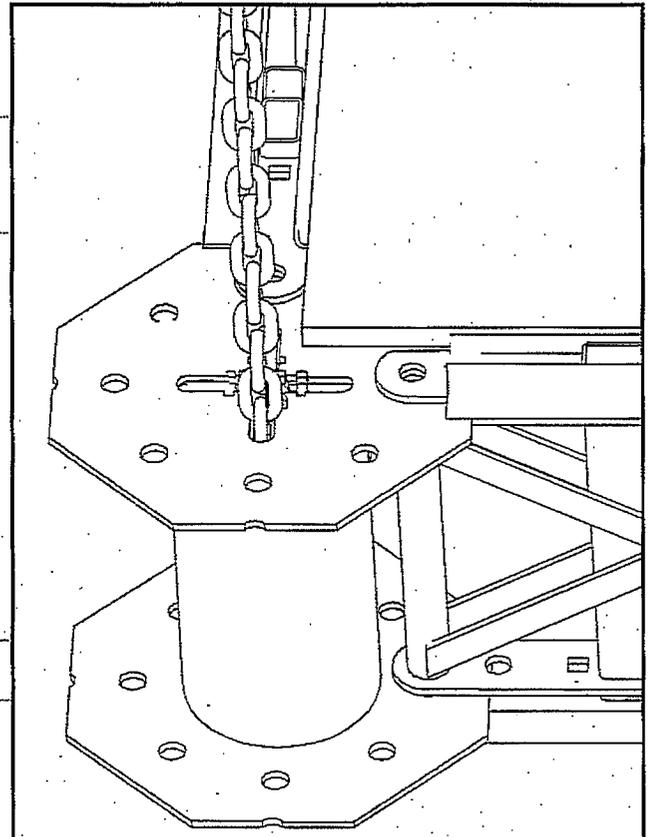


Illustration 4k.

# 6.14 Leveling the Platform

## Step 4

41.

Repeat the process for the other 3 nodes.

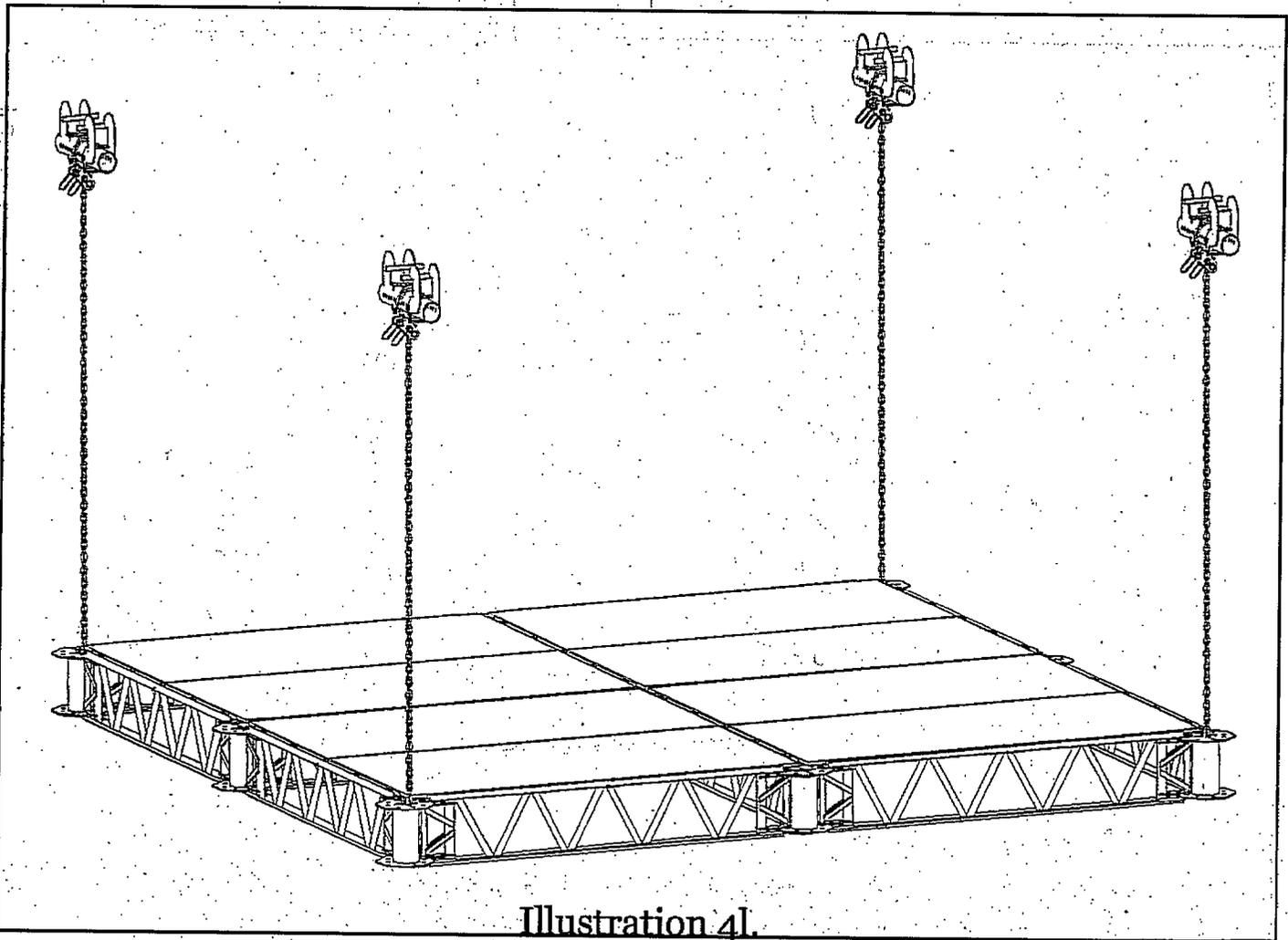


Illustration 41.



## 6.0 Installing QuikDeck™

### 6.14 Leveling the Platform

#### Step 4

4m

For the remaining Nodes, use a lever hoist or other appropriate hoist to support the Node locations while making permanent suspender connections. Repeat Steps 4a. - 4k. to complete installation of the Staging Platform.

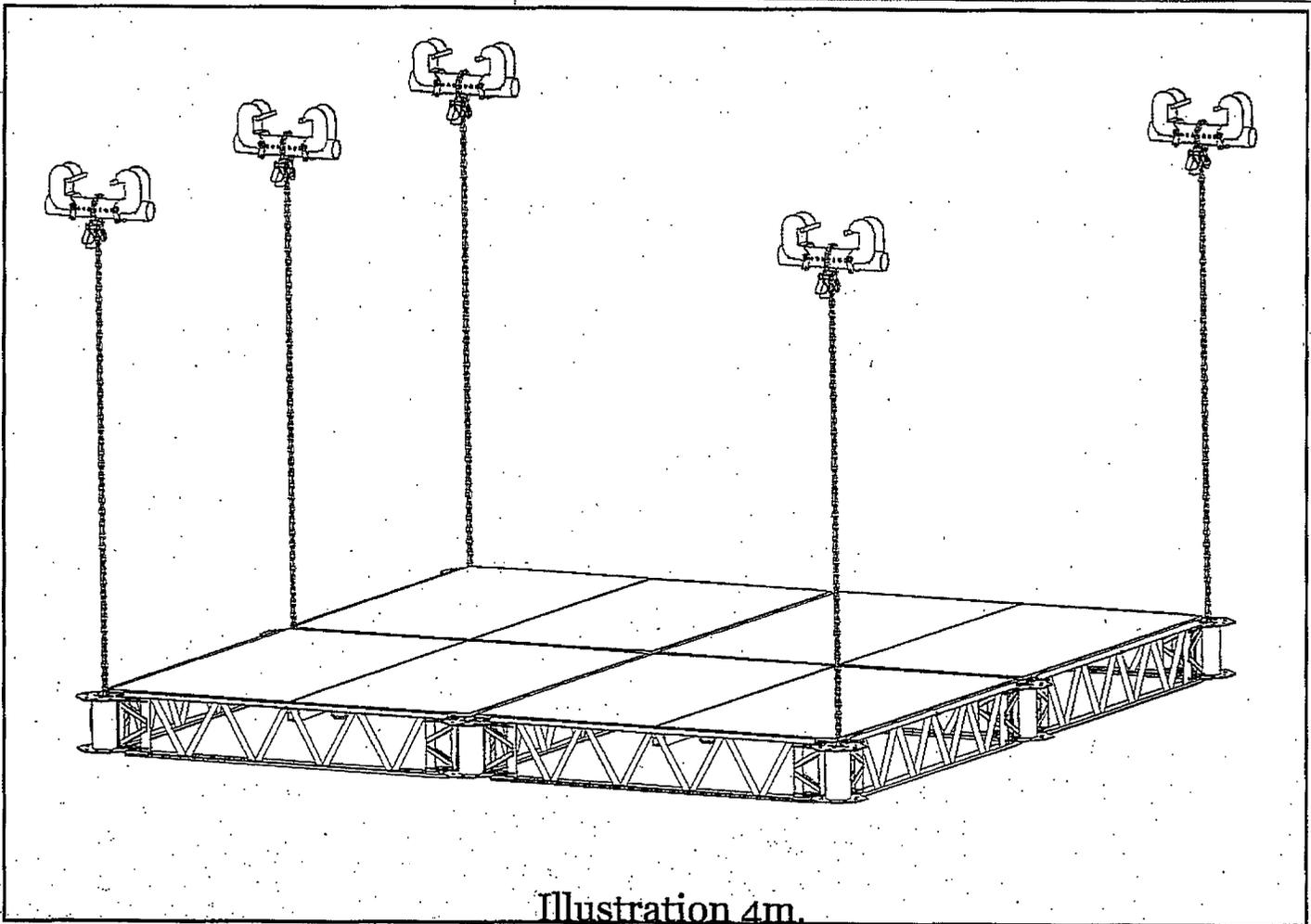
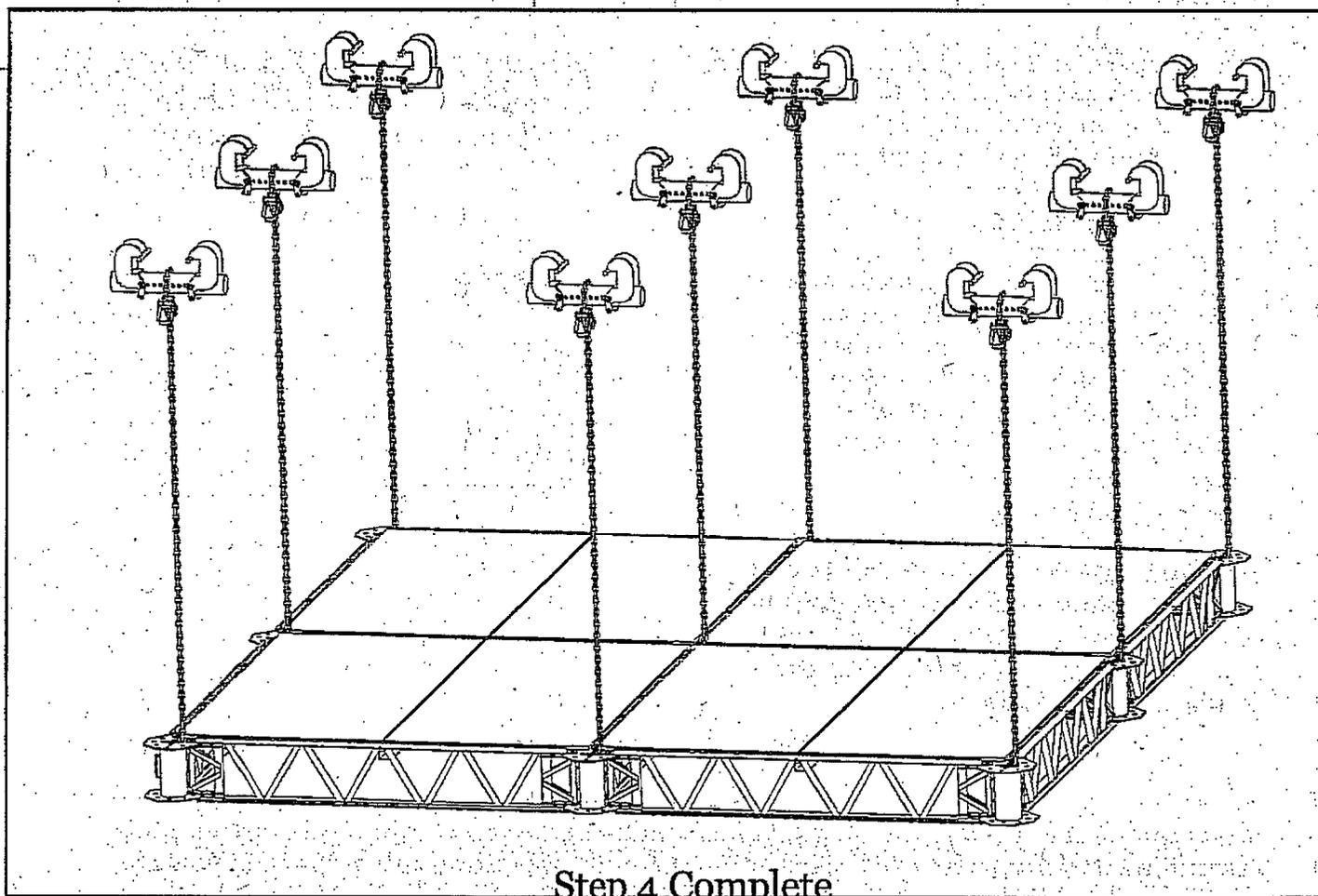


Illustration 4m.

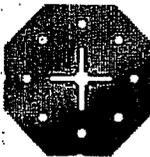
# 6.14 Leveling the Platform

## Step 4

Completed installation of the Staging Platform for a 75 PSF (3.6 kN/m<sup>2</sup>) platform. You are now ready for Step 5 "Expanding the Platform".



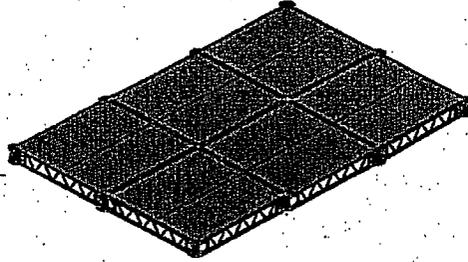
Step 4 Complete



# 6.15 Component List

## Step 5

### EXPANDING THE PLATFORM



5.

#### EXPANDING

In this step, the Staging Platform is expanded into a large area platform.

**Warning**

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

**Warning**

Maximum allowable cantilever is 16 ft (2 grids) before requiring installation of suspenders. Cantilever should not exceed 8 ft (2.4 m) (1 grid) off of the initial staging platform.

**Warning**

It is important to review the Staging Platform to ensure all components are properly assembled and secured before expanding the platform. Continue only when you are confident that all components are properly installed and secured.

#### COMPONENTS FOR STEP 5

Component List for Expanding the 16 ft x 16 ft (4.9 m x 4.9 m) Staging Platform

Component	Minimum Quantity*
Joist (4.1) .....	> 3
Node (4.2) .....	> 2
Pins (4.3) .....	> 6
Deck Retainer (4.6) .....	> 1
Deck Support (4.4) .....	> 1

## 6.16 Material Handling

### Step 5

5a.

With the Staging Platform now secured with the required number of  $\frac{3}{8}$  in. (9.5 mm) Grade 100 Chains, we can begin to expand the platform.

Select the following components:

- 3 Joists
- 2 Nodes
- 2 Deck Retainers
- 2 Decking panels
- 1 Deck Support
- 6 16 in. (406 mm) Node Pins



### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.



### Warning

The highest load the QuikDeck™ Platform System will ever see is likely during the staging of QuikDeck™ Platform System components.

Never concentrate QuikDeck™ Platform System components, supplies or materials in one area of the platform. Heavy loads accumulating in a small area can overload the platform, causing platform failure and result in property damage, serious injury or death.

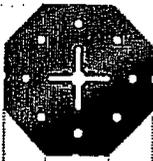
5b.

To safely expand the Staging Platform, a two-man crew is required. Each installer should be at a Node location on the edge of the platform in the area to be expanded and tied off to overhead elements.



### Warning

While working on a platform without railings installed, all persons must be tied off consistent with OSHA requirements. An independent Safety Line must be used and tied off to overhead structural members. Do not tie off to any QuikDeck™ Platform System component.



## 6.0 Installing QuikDeck™

### 6.17 Extending the Platform

#### Step 5

5c.

Assemble Joist to Node as shown in Illustration 5c. Insert 16 in. (406 mm) Node Pin to secure Joist to Node.

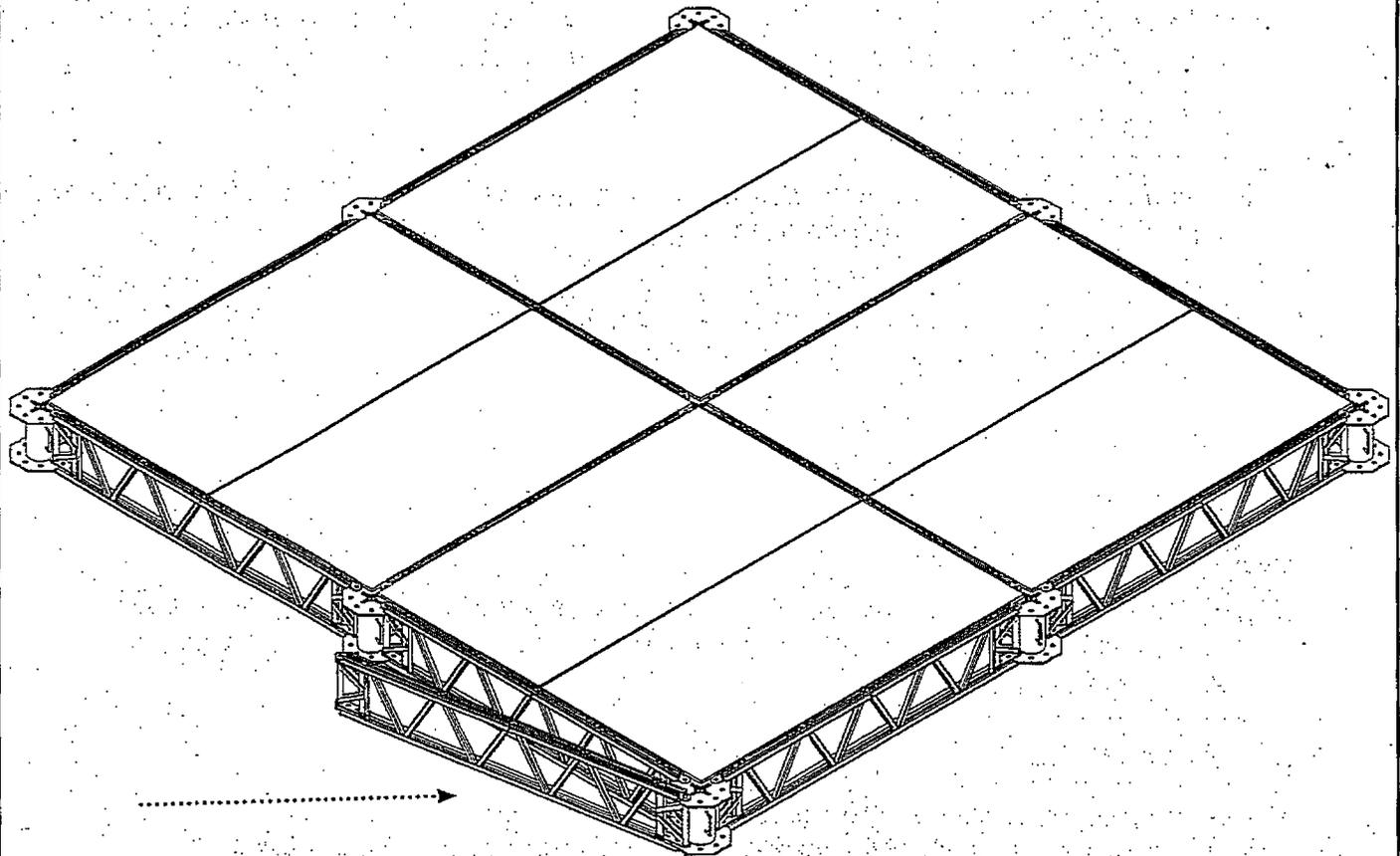


Illustration 5c.

## 6.17 Extending the Platform

### Step 5

5d

Secure Node to the Joist end using a 16 in. (406 mm) Node Pin. Note position of all Joist and Node connections.

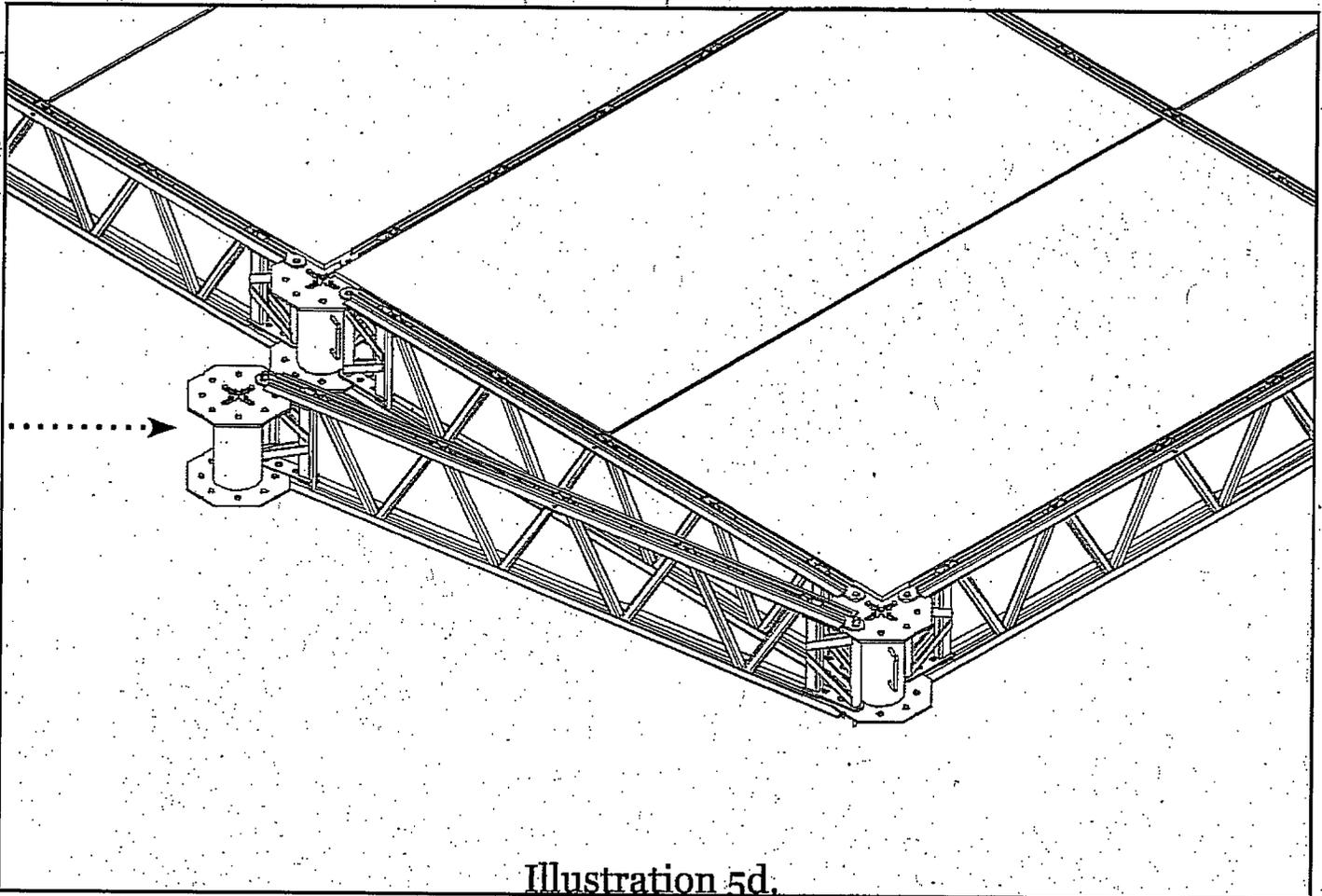
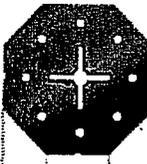


Illustration 5d.



## 6.0 Installing QuikDeck™

### 6.17 Extending the Platform

#### Step 5

5e.

Install Joist to Node as shown in Illustration 5e. Note position of all Joist and Node connections.

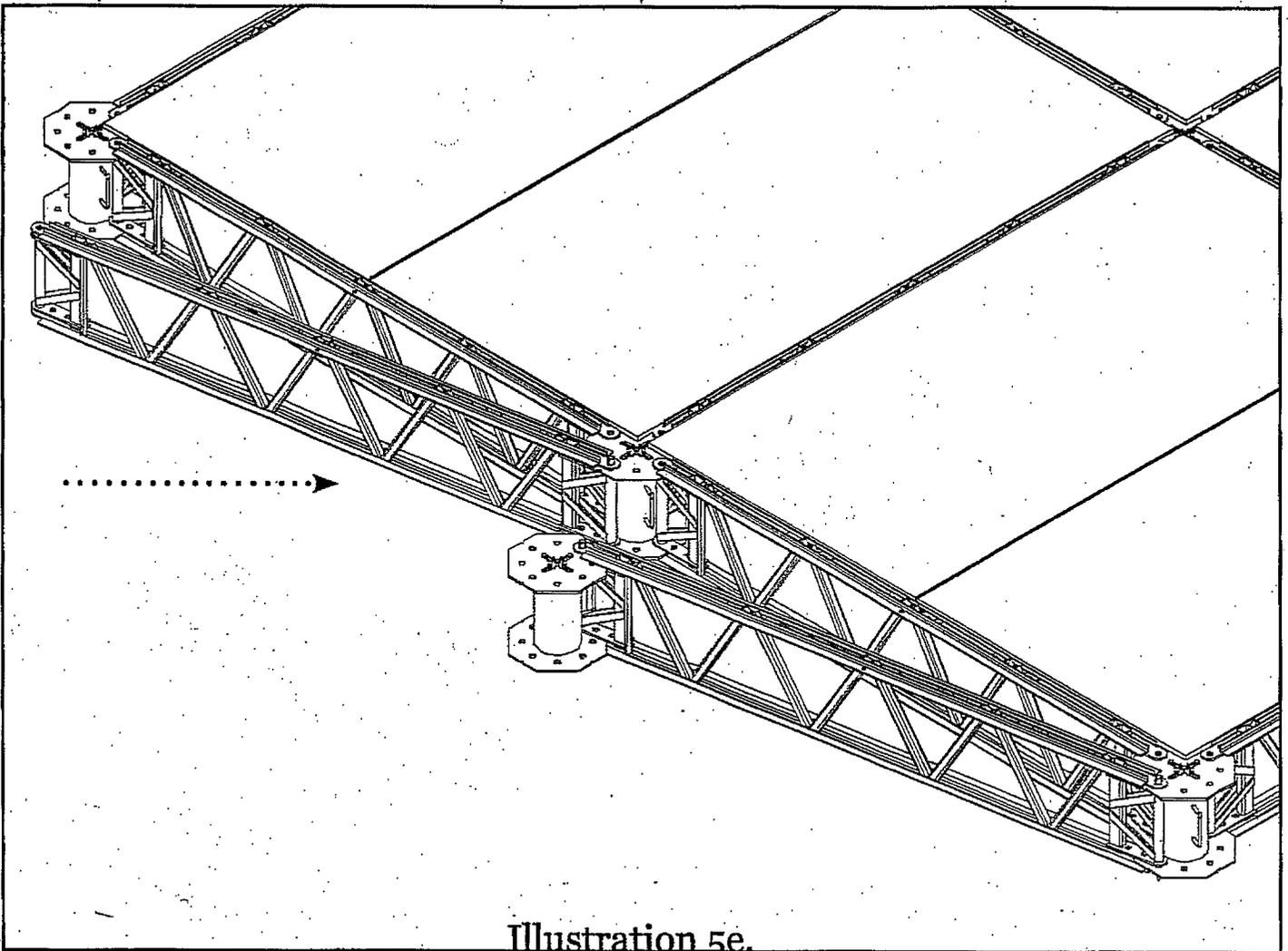


Illustration 5e.

## 6.17 Extending the Platform

### Step 5

5f.

Install Joist to Node added in Step 5d. Refer to Illustration 5f. Note position of all Joist and Node connections.

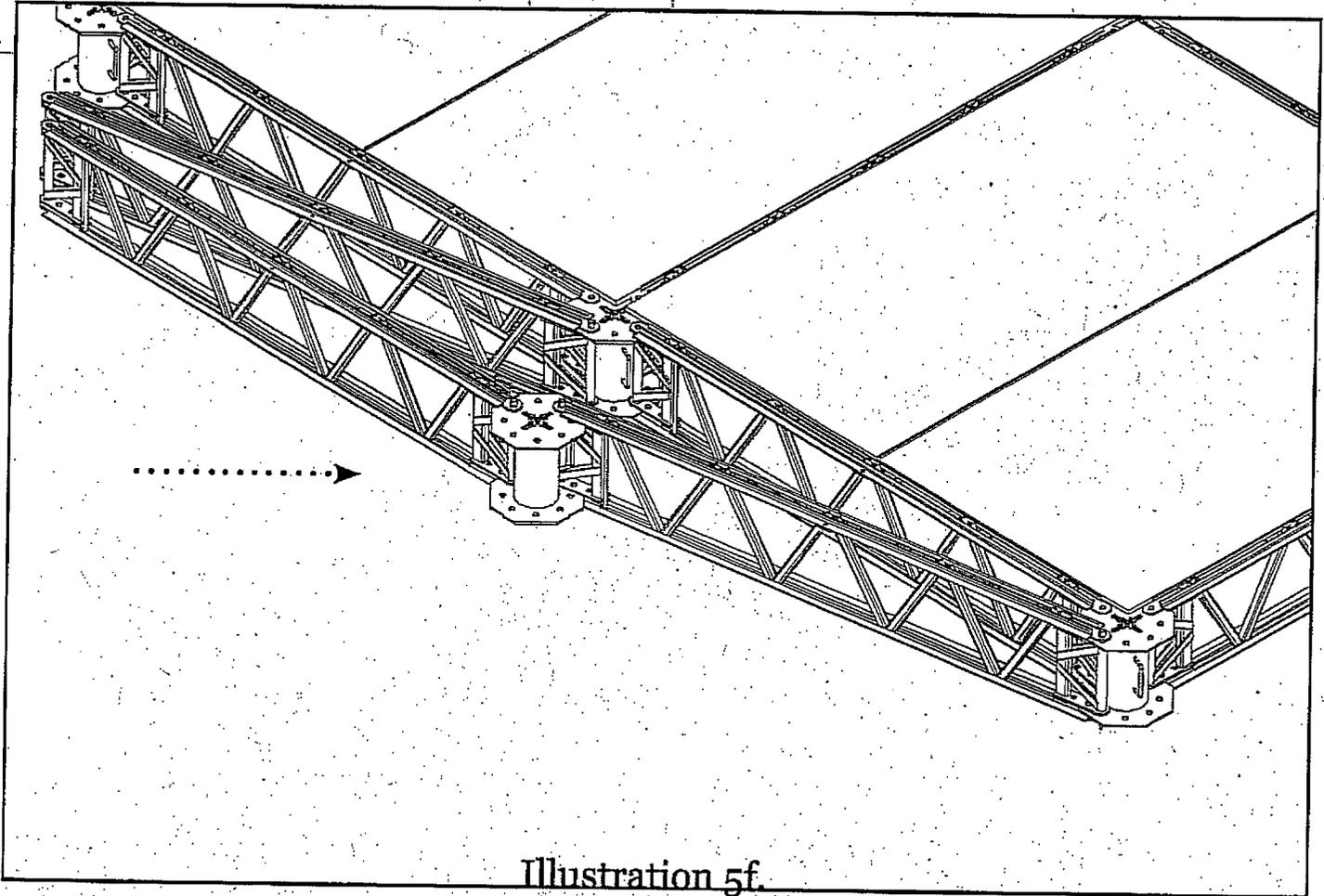


Illustration 5f.

## 6.0 Installing QuikDeck™

### 6.17 Extending the Platform

#### Step 5

5g

Install Node to Joists as shown in Illustration 5g.

Temporarily install hitch pin or other  $\frac{3}{4}$  in. (19 mm) diameter pin in Joist Anti-Rotation Pin Location at both ends of the Joist that was installed in Step 5f. This will ensure correct orientation of Node when module is rotated into position. Refer to Illustration 5g. Note position of all Joist and Node connections. You are now ready to cantilever the platform.

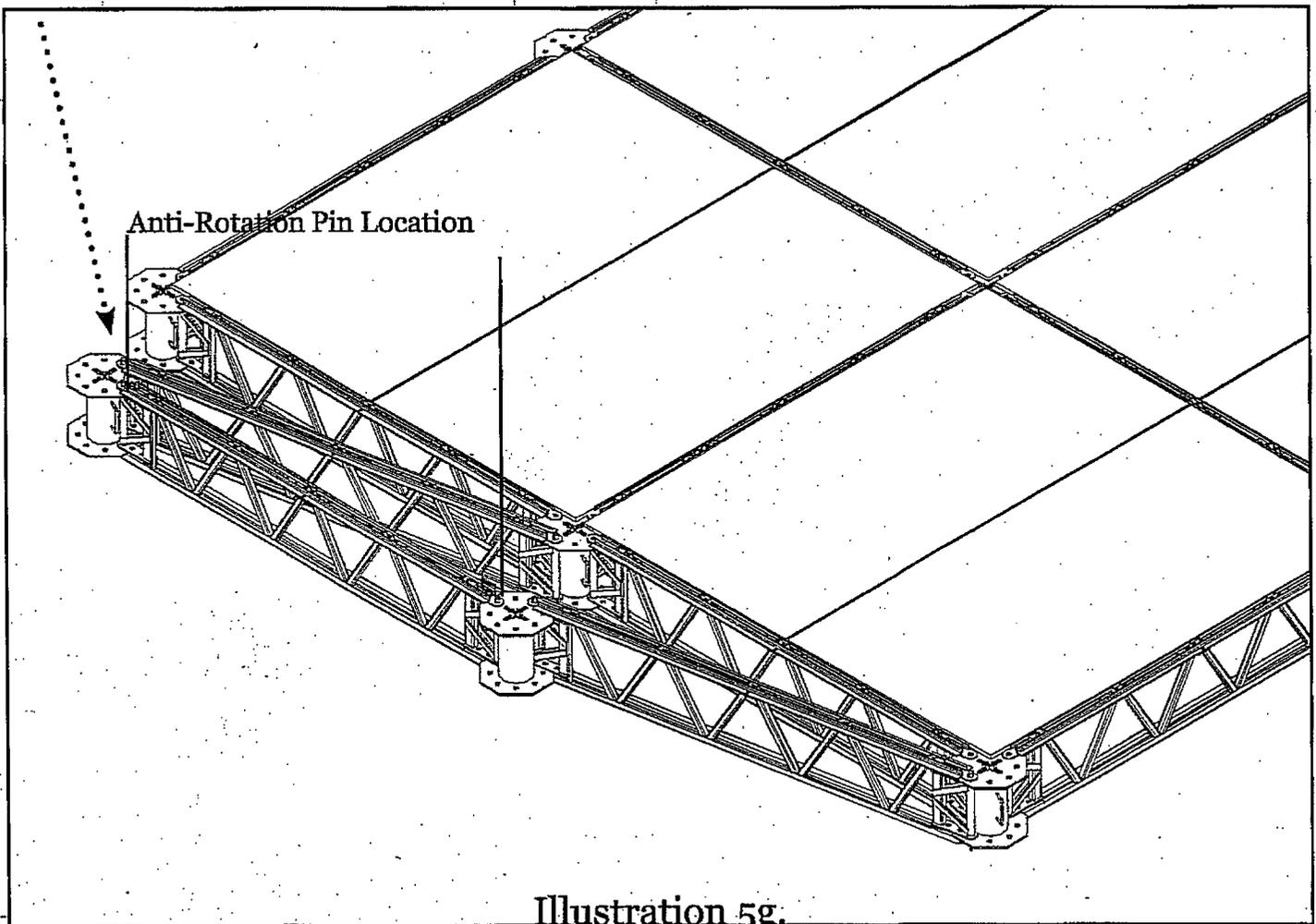


Illustration 5g.

## 6.18 Cantilevering the Platform

### Step 5

5h

Select a Deck Support and insert the Deck Support Pinned End Connector into the Deck Support Locating Hole in the Joist installed in Step 5f. Refer to Deck Support in Section 4.4 and Joist in Section 4.1 for more information. After the Deck Support Pinned End Connector is inserted into the Joist Deck Support Locating Hole, push out to rotate the Joist-Node structure to create a square 8 ft x 8 ft (2.4 m x 2.4 m) module. Insert the free Deck Support Pinned End Connector into the Deck Support Locating Hole in the appropriate Joist on the Staging Module. Refer to Illustration 5h.

You are now ready to install Decking panels.

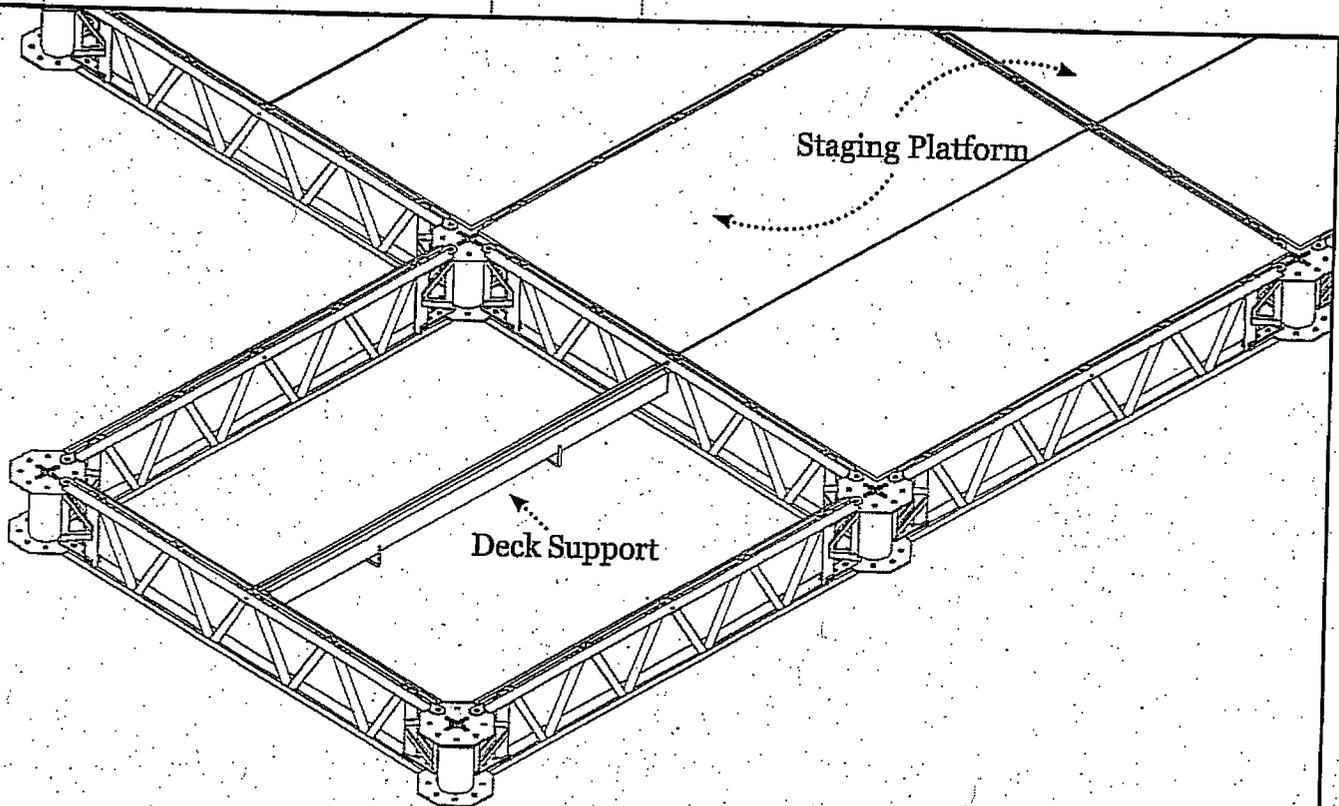
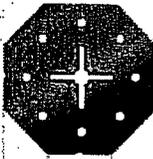


Illustration 5h.



## 6.0 Installing QuikDeck™

### 6.18 Cantilevering the Platform

#### Step 5

5i.

Install Decking panels as shown in Illustration 5i to complete the cantilevered 8 ft x 8 ft (2.4 m x 2.4 m) platform. Refer to Section 6.6 Step 2e to review installation of Decking panels.

Immediately level platform then install and tension suspenders. Install Deck Retainers and Toe Boards to prevent Decking uplift and danger of falling objects. Refer to Section 6.11 Steps 4a – 4m for installation of suspension and Section 6.7 “Deck Retainer Installation”.

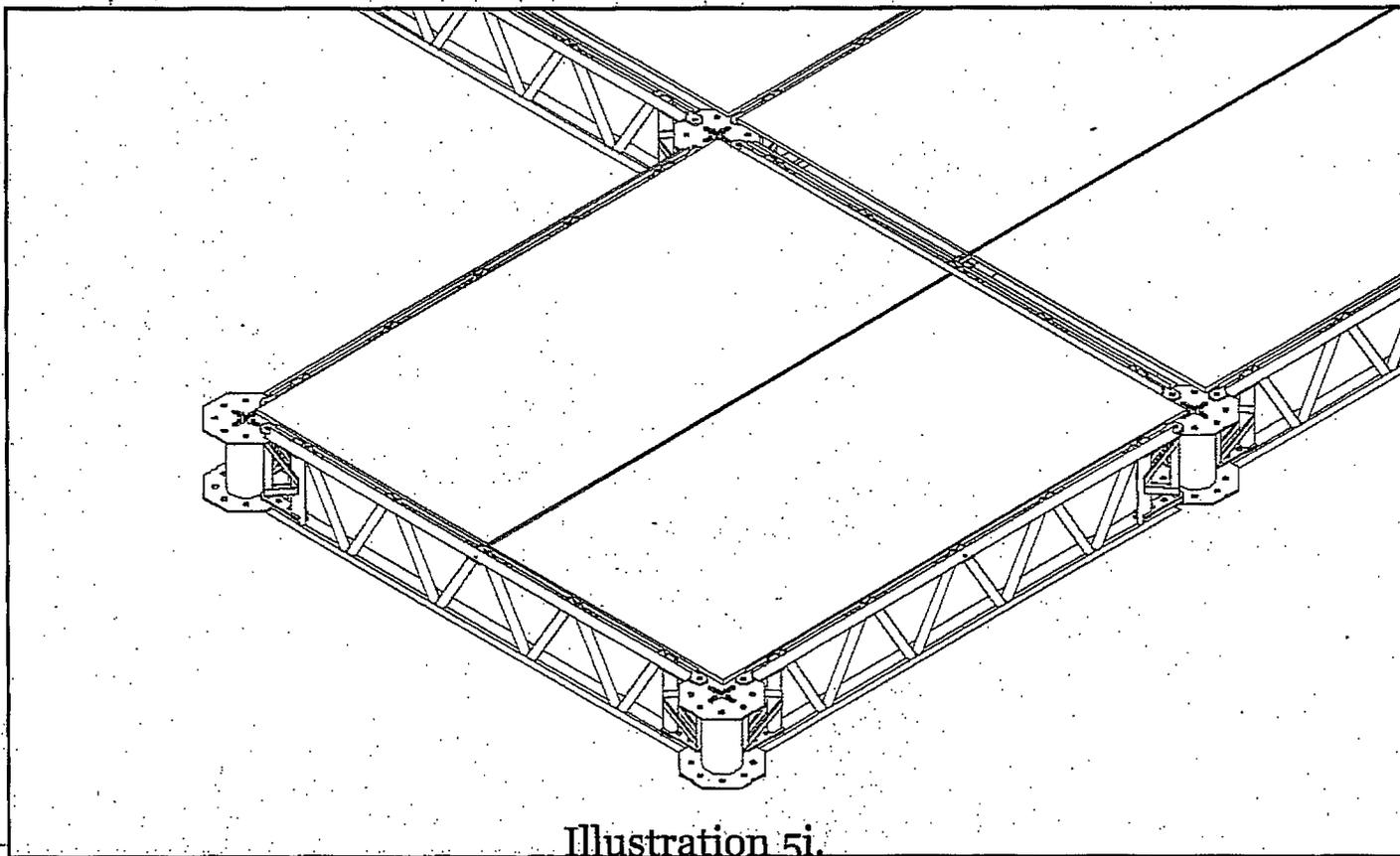


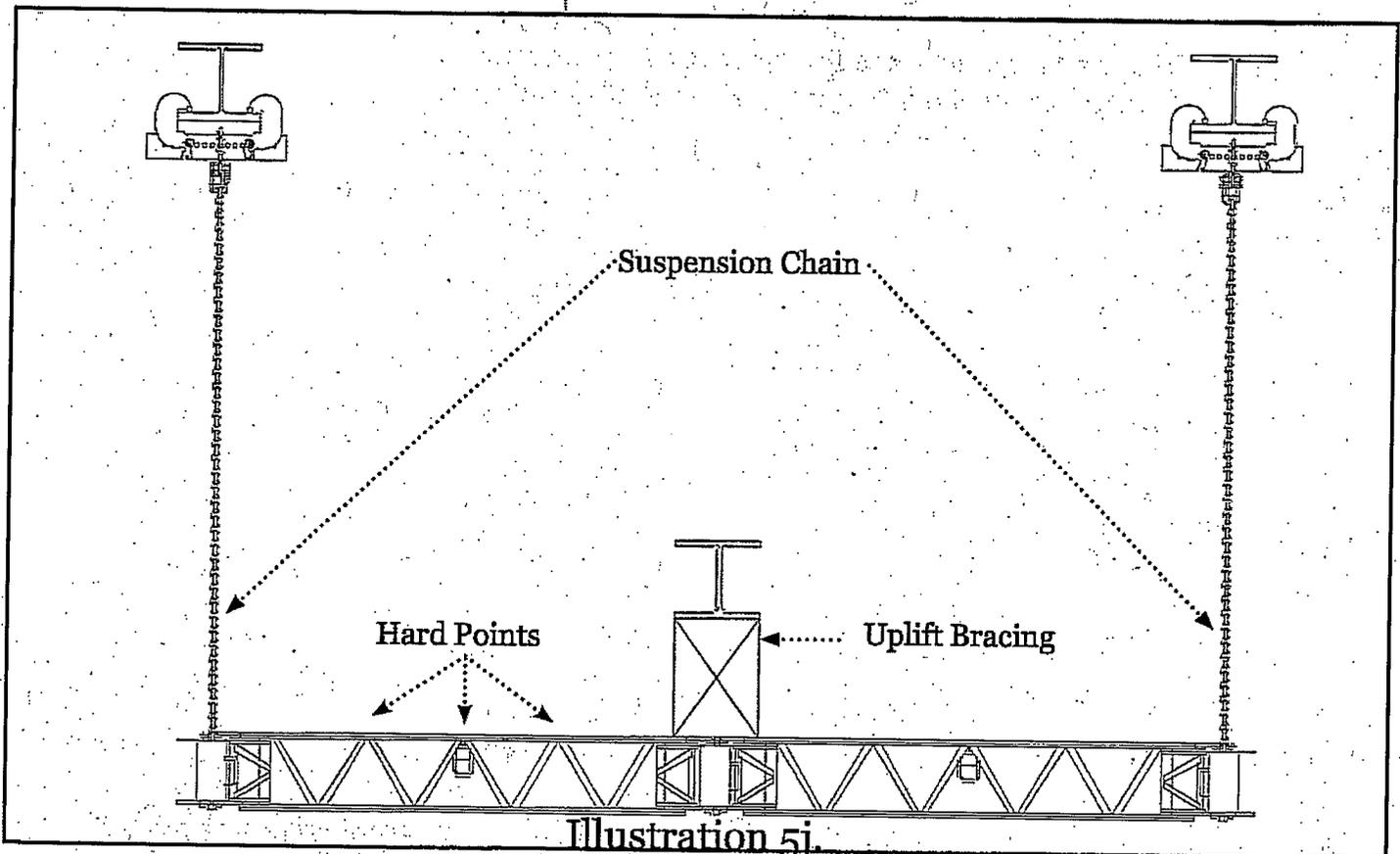
Illustration 5i.

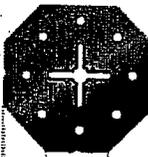
## 6.19 Installing Uplift Bracing

### Step 5

5j.

Suspenders only resist tensile forces, therefore bracing is required to resist wind uplift. Install uplift bracing at Nodes and/or Joist Hard Point locations. See Illustration 5j. Consult a Qualified Engineer to determine appropriate bracing requirements.





## 6.0 Installing QuikDeck™

### 6.20 Installing Wind Bracing

#### Step 5

5k



#### Warning

Lateral wind bracing is required to stabilize the QuikDeck™ Platform System and to resist wind loads. Appropriately sized and installed Suspension Chains or Wire Ropes on opposing angles will act as wind bracing. Vertical Suspension Chains do not resist lateral wind loads. When all suspenders are vertical additional bracing is required. Refer to Illustration 5k. Consult a Professional Engineer to determine appropriate bracing requirements. With wind bracing installed, expanding of the platform has been completed. You are now ready for Step 6 "Finishing the Platform".

The wind force acts on a Projected Area of  $6.4 \text{ ft}^2$  ( $.6 \text{ m}^2$ ) for each nominal 8 ft (2.4 m) of outer platform surface.

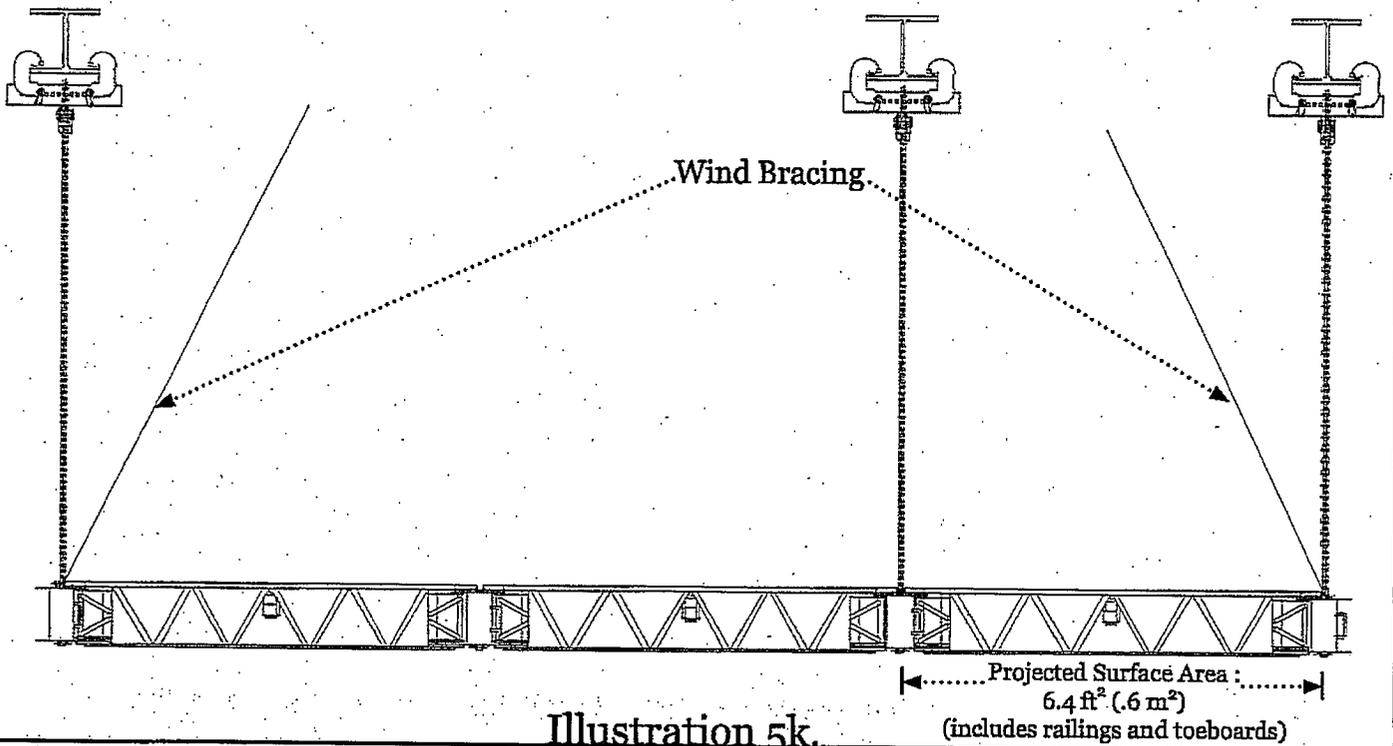
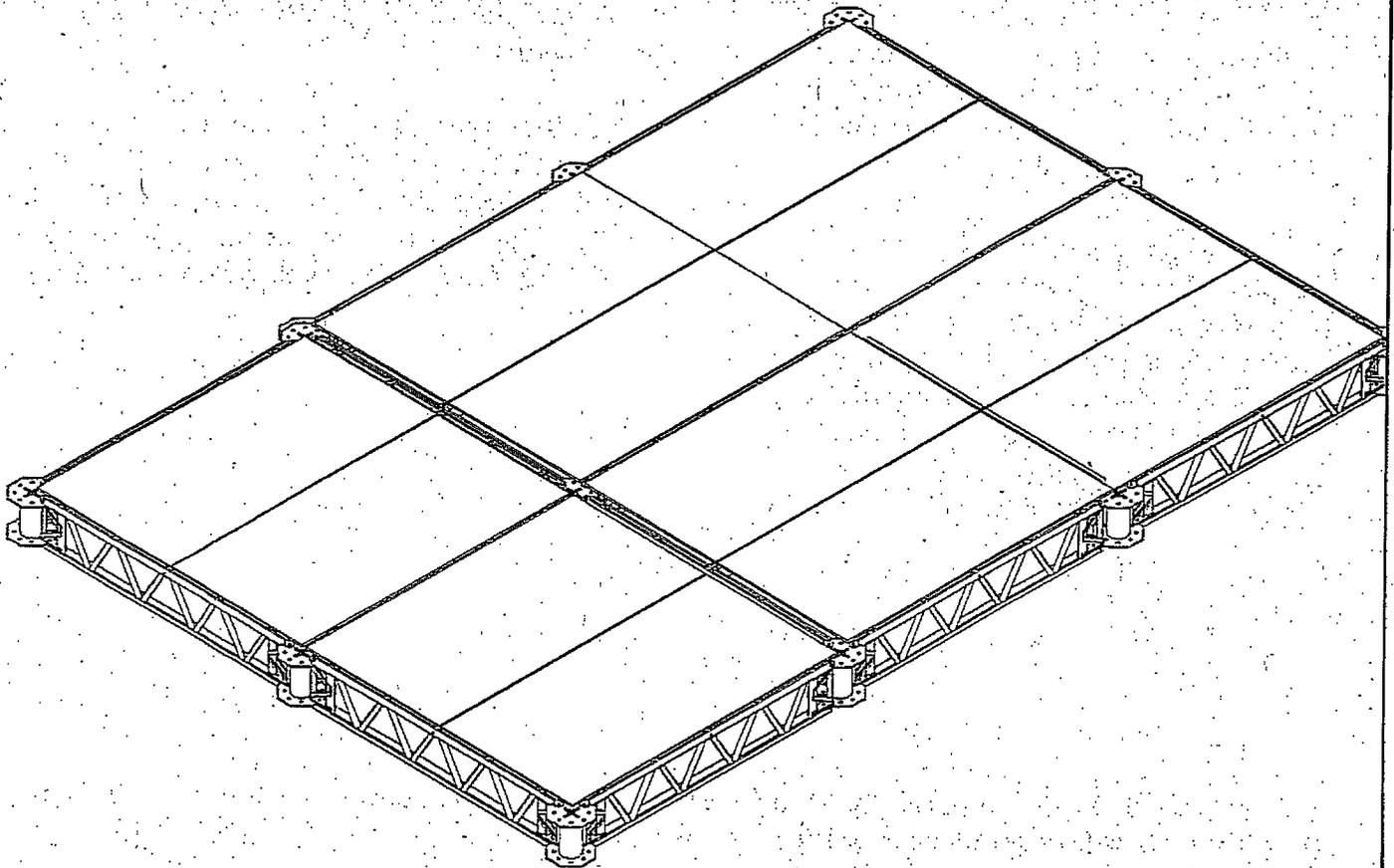


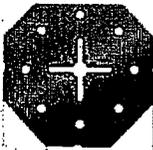
Illustration 5k.

**Step 5**

Step 5 "Extending the Platform" has been completed. You are now ready for Step 6 "Finishing the Platform".



**Step 5 Complete**

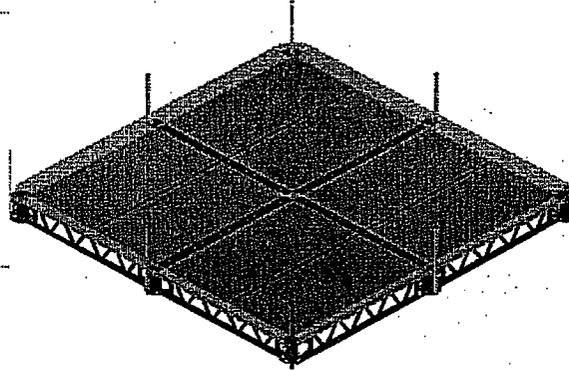


## 6.0 Installing QuikDeck™

### 6.21 Component List

#### Step 6

## FINISHING THE PLATFORM



### 6.

#### FINISHING

In this step the QuikDeck™ Platform System will have the Railing Posts, Wire Rope Railing and Toe boards installed to ensure safety of the platform.



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

#### COMPONENTS FOR STEP 6

Component	Quantity
Railing Post (4.12) .....	as required
Wire Rope Railing (4.13) .....	as required
Wire Rope Clips (4.16) .....	as required
Toe Boards (4.11) .....	as required
Toe Board Corner Infills (4.11) .	as required

Before Step 6 "Finishing the Platform" commences it is important to review the platform to ensure all components are secure.

## 6.22 Railing Post Installation

### Step 6

6a



#### Warning

Railing Posts, Railings and Toe Boards are required to be in compliance with Federal OSHA regulations. All personnel on the platform must maintain Independent Safety Lines until Railing Posts, Railings and Toe Boards are installed.

6b

Align Node Pin Mounting Holes in the Railing Post to Nodes on perimeter of the platform. Secure Railing Posts with 16 in. (406 mm) Node Pin. After installing Node Pin, insert hairpin clip through hole in the 16 in. (406 mm) Node Pin below Node Top Plate. Install Railing Posts to all Nodes on perimeter of platform.

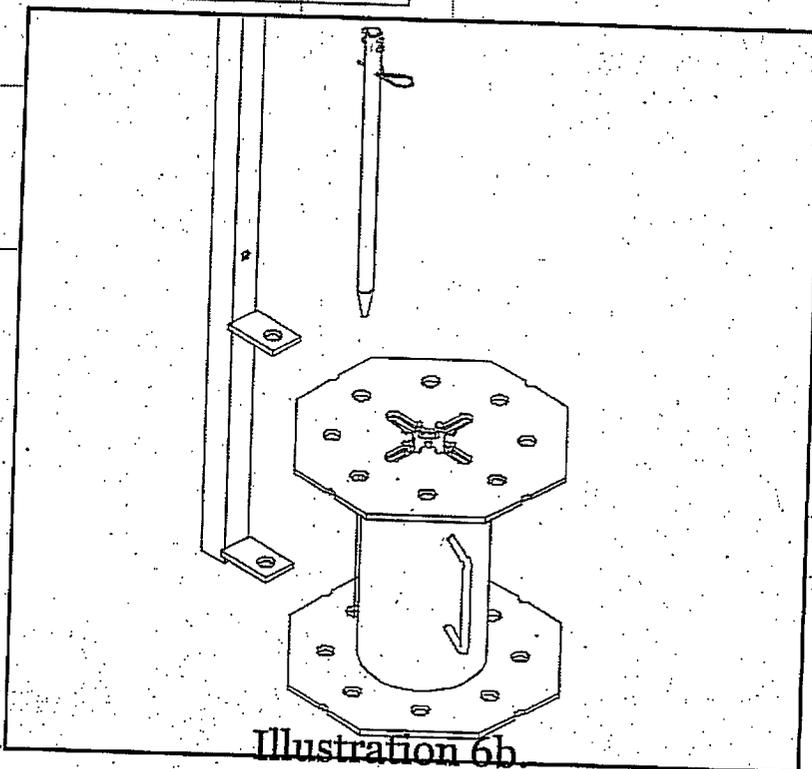


Illustration 6b

# 6.0 Installing QuikDeck™

## 6.23 Toe Board Installation

### Step 6

6c



#### Warning

To prevent danger of falling objects and to comply with OSHA regulations, Toe Boards and Toeboard Corner Infills must be installed.

Install Toe Boards to all Joists on perimeter of platform by fastening with (8) 1/2-13 UNC Hex Cap Screws inserted into Mounting Nuts. Refer to Illustration 6c. Ensure that the ends of the Toe Boards

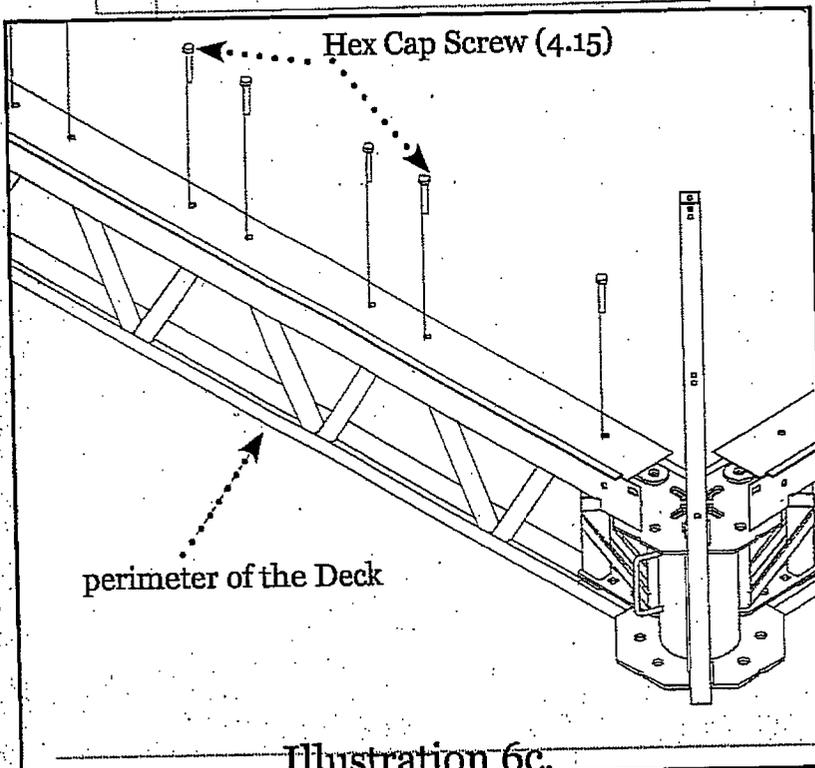


Illustration 6c.

6d

Align the slot at the end of the Toe Board with the respective hole in the Railing Post, securing it with a 3/8-16 x 2.50 in. Hex Cap Screw and 3/8-16 Lock Nut.

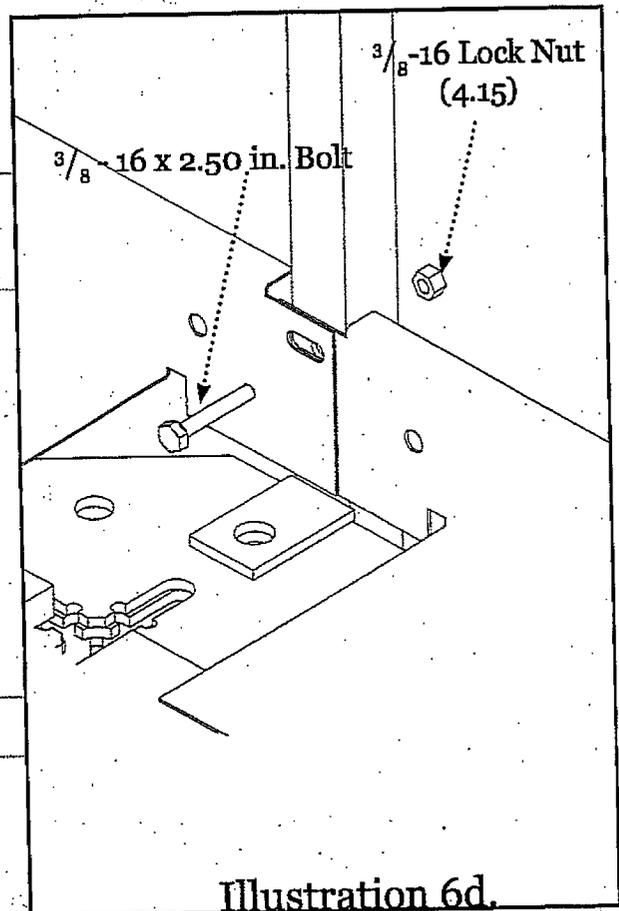


Illustration 6d.

## 6.23 Toe Board Installation

### Step 6

6e



#### Warning

Toe Boards do not meet at the corners of the platform. To prevent danger of falling objects and to comply with OSHA regulations, Toe Board Corner Infills must be installed.

Install and secure Toe Board Corner Infills to Railing Posts and to Toe Boards as shown in Illustration 6e. Secure Toe Board Corner Infills to Toe Boards with two  $\frac{3}{8}$ -16 UNC x 1 in. Hex Head Cap Screws and lock nuts. Complete installation by fastening Toe Board Corner Infill to Railing Post with  $\frac{3}{8}$ -16 UNC x 2-1/2 in. Hex Head Cap Screw.

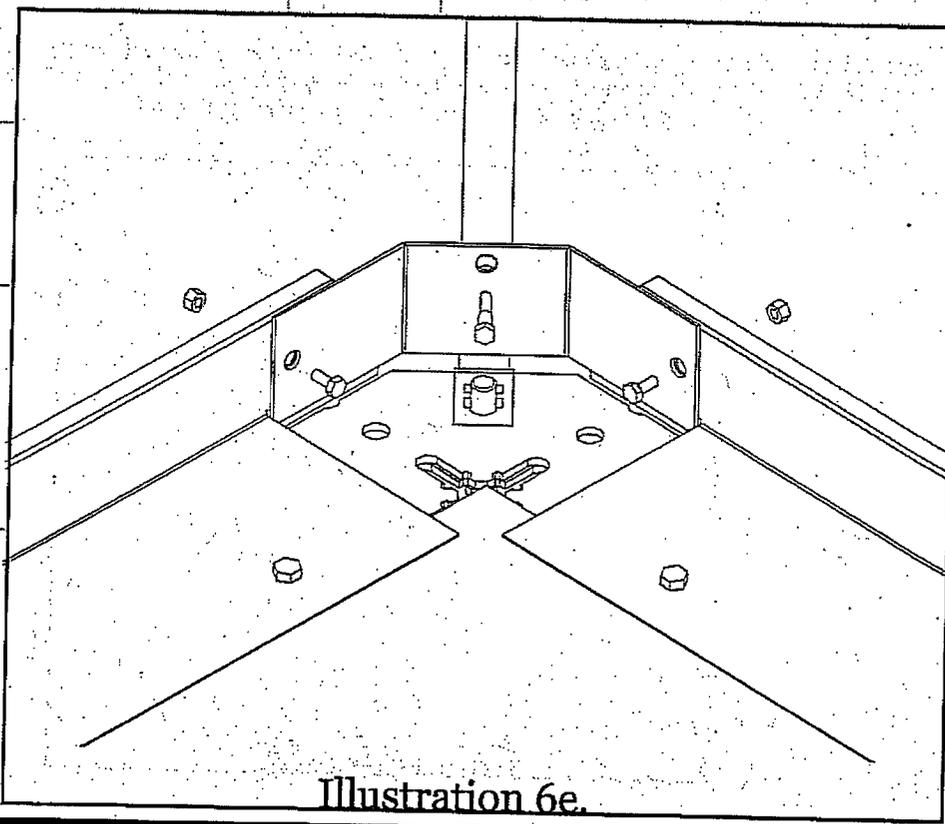
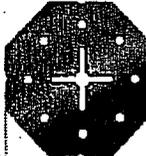


Illustration 6e.



# 6.0 Installing QuikDeck™

## 6.24 Wire Rope Railing

### Step 6



#### Warning

To prevent danger of injury or death from falls from the platform, and to comply with OSHA regulations, Railings are required.

Select installed Railing Post Assembly and spool of  $5/16$  in. (7.9 mm) diameter Wire Rope. Loosen (but do not remove) Lock Nuts on both J-Bolts, uncoil required length of Wire Rope and slide Wire Rope under hook end of J-Bolt. Push the J-Bolt fully into the holes in the post and secure with the Lock Nut. Repeat the procedure at the lower holes. Refer to Illustration 6f. Install Wire Rope Clips at Wire Rope Splice locations as required.

Note - The threaded ends of J-bolts are long enough to facilitate Wire Rope being inserted through the saddle end of J-Bolt (like an eye bolt) or slid under the saddle end of J-Bolt and clamped like a Wire Rope Clip. Choose which method suits your particular application.

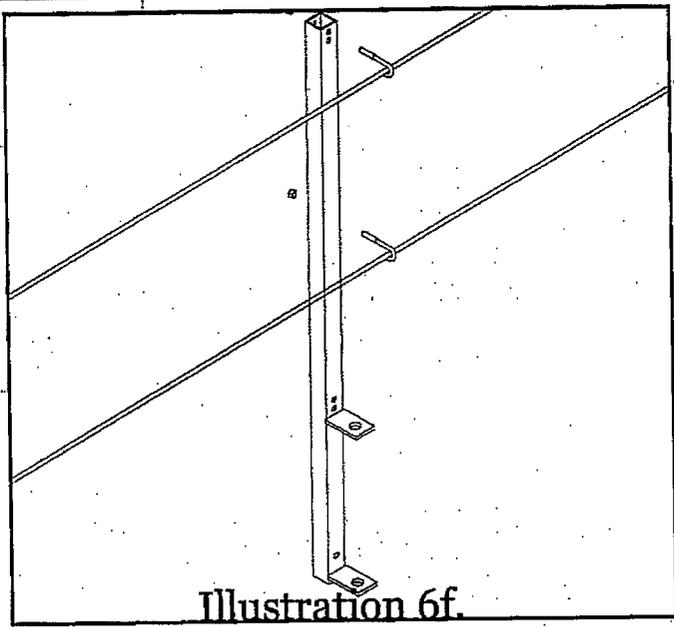
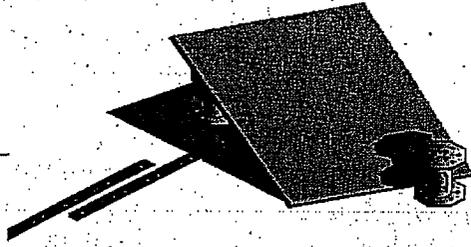


Illustration 6f.

# 6.25 Component List

## Step 7

### DISASSEMBLY AND REMOVAL



7.

#### DISASSEMBLY

In this step, the QuikDeck™ Platform System will be disassembled and removed from the structure.

Before Disassembly and Removal commences, review the Installing Suspension Steps to make sure all components are secure and suspenders are properly tensioned. When all checks have been performed you may proceed with disassembly and removal of the platform.

#### COMPONENTS FOR STEP 6

Tools and Accessories	Quantity
Drill Driver with	
9/16 socket wrench .....	1
Lever Hoist .....	1
Pin Extractor Tool.....	1

#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to removal of the component.

#### Warning

Disassembling and removing the platform is as dangerous as installing the platform. Improper disassembly can cause failure of the platform, resulting in property damage, serious injury or death. Ensure proper safety procedures are maintained to prevent falls and danger of falling objects. Always use Independent Safety Lines secured to overhead structural members to guard against falls. Secure area below platform and/or tie off each component prior to disassembly and removal to prevent danger of falling objects.



# 6.0 Installing QuikDeck™

## 6.26 Disassembly

### Step 7

7a

To remove the platform, disassemble each component in the order in which it was installed. Disassemble and remove the platform in areas no larger than 16 ft x 16 ft (4.9 m x 4.9 m) at one time.

Start disassembly by removing Toe Boards and Corner Infills.



#### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to removal of the component.

7b

Remove Wire Rope and Railing Posts.



#### Warning

Improper disassembly can cause failure of the platform, resulting in property damage, serious injury or death.

Never remove suspenders to create a cantilevered platform with greater than a 16 ft (4.9 m) or 2 grid span.

Do not stage large quantities of components in an isolated area on the platform. Instead, remove at time of disassembly or distribute loads over the platform being careful not to exceed system ratings.

Always consider load supported by components being removed before removing connections. If pins are difficult to remove, they are likely supporting load. Never remove pins supporting load. Always remove load prior to removing pins or fasteners.

## 6.26 Disassembly

### Step 7



Remove suspension components starting from edge of platform. Working back from this edge, remove suspension components making sure to never cantilever platform more than 16 ft (4.9 m) or 2 grids in any direction. Be aware of danger of tipping platform – install counterweight or uplift bracing as required.

To remove suspenders, use Lever Hoist or other hoisting device to first remove load from suspender. With load removed, remove the Chain Retainer Pin and Plastic Tie from Chain. Remove Chain from Chain Slot. Remove Chain, Chain Coupler and Beam Clamp Assembly.



#### Warning

Small platforms can tip unexpectedly when in a cantilevered condition. Always apply counterweight or install uplift bracing on the Staging Platform to prevent tipping of the platform while cantilevering. Counterweight can take the form of staged QuikDeck™ Platform System components if properly secured to platform to prevent movement.

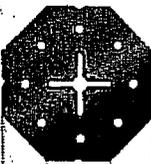


#### Warning

Never cantilever more than 16 ft (4.9 m) or 2 grids without first engineering and installing additional support to Joists.

Contact Beeche Systems Corp. for additional information.

Always be aware of loads applied to platform by staged platform components. Always distribute platform components to prevent overloading the platform.



## 6.0 Installing QuikDeck™

### 6.26 Disassembly

#### Step 7

7d

Remove Deck Retainers by removing 1/2-13 UNC Hex Cap Screws installed in Joist Mounting Nuts.

With Deck Retainers removed, remove Decking panels.



#### Warning

Be sure to secure area below platform and/or tie off Decking panels to prevent danger of falling objects.

7e

Remove Deck Supports, Joists and Nodes.



#### Warning

Be sure to secure area below platform and/or tie off components to prevent danger of falling objects.

7f.

Follow steps 7a = 7e to complete disassembly and removal of platform. Depending on size and configuration of platform, sequence for removal of Deck Supports, Joists and Nodes and Decking panels may vary.

## 6.27 Relocation of Platform Components

### Step 7

7g.

A powerful feature of the QuikDeck™ Platform System is the ability to relocate areas of the platform.

Platform area can be relocated by disassembling platform components in an area where work has been completed and reassembling them in an area where work is to be performed.

This feature provides flexibility in the layout of the platform and reduces the area of platform required for the task.

Refer to Section 6.0 for detailed information on disassembly and re-assembly of platform components.

7h.



#### Danger

The highest load the QuikDeck™ Platform System will ever see is likely during the staging of QuikDeck™ Platform System components.

Never concentrate QuikDeck™ Platform System components, supplies or materials in one area of the platform. Heavy loads accumulating in a small area can overload the platform, causing platform failure and result in property damage, serious injury or death.



#### Danger

While working near an edge platform without railings installed, all persons must be tied off consistent with OSHA requirements. An independent Safety Line must be used and tied off to overhead structural members. Do not tie off to any QuikDeck™ Platform System component.

7i.



#### Danger

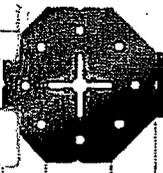
To prevent danger of falling objects, always secure area below platform and restrict personnel and pedestrians or securely tie off each component prior to installation, removal or relocation.



## 6.27 Relocation of Platform Components

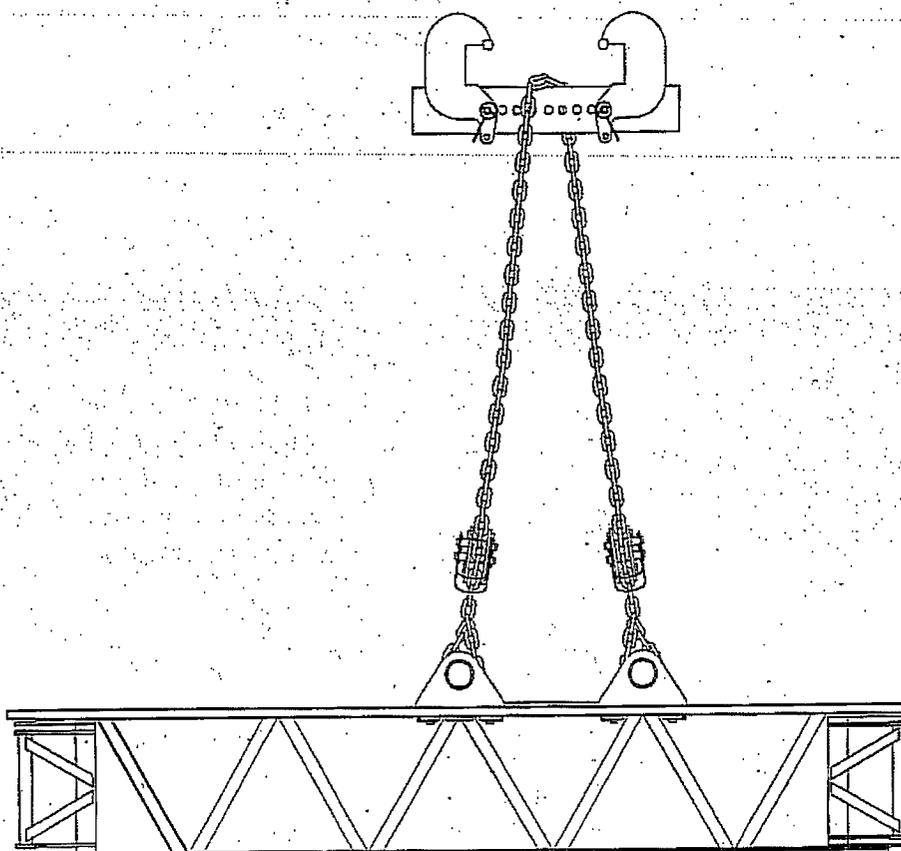
### Step 7

You have successfully completed a basic installation and removal of the QuikDeck™ Platform System. Read the next section to learn more about customizing your QuikDeck™ Platform System, Working on the Platform, and Platform Inspection and Maintenance.



## 7.0 Customizing Your QuikDeck™ Installation

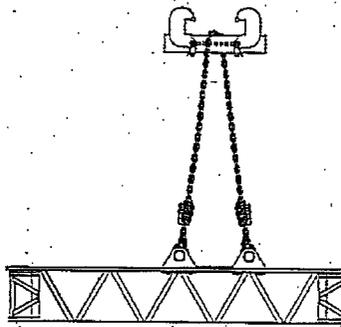
# 7.0 Customizing your QuikDeck™ Platform System Installation





## 7.0 Customizing Your QuikDeck™ Installation

### 7.0 General



1.

#### *CUSTOMIZING*

The following section introduces methods and accessories for customizing your QuikDeck™ Platform System. Contact Beeche Systems Corp. for complete list of available accessories.

#### *IMPORTANT*

All customizations are based on applicable situations that will arise on the job site. Using these components will assist in optimal operation of the QuikDeck™ Platform System.

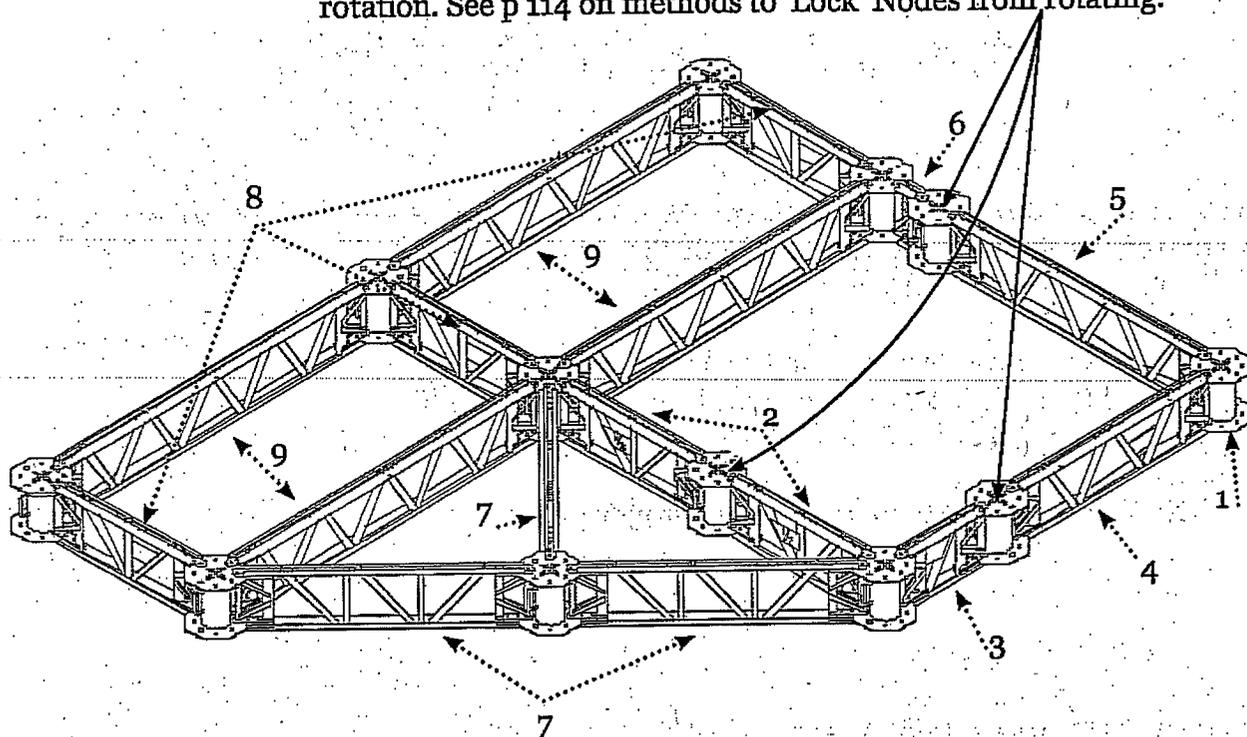


#### **Warning**

**Carefully review installation of all QuikDeck Platform System accessories. Improper assembly of the QuikDeck™ Platform System components or accessories can cause failure of the platform, resulting in property damage, serious injury or death. Before using the QuikDeck™ Platform System, review ratings and capacities. Consult Beeche Systems Corp. for additional engineering support.**

## 7.1 Using Optional Joists

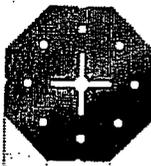
Not a Suspension Point due to Nodes not restrained from rotation. See p 114 on methods to 'Lock' Nodes from rotating.



### Joist List

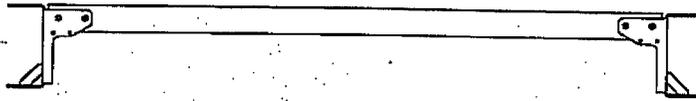
(see Section 5.1 for Joist Dimensions)

ITEM	QTY	Description
1	12	Node
2	2	1/2 Joist Assembly with Nuts
3	1	1/3 Joist Assembly with Nuts
4	1	2/3 Joist Assembly with Nuts
5	1	5/6 Joist Assembly with Nuts
6	1	1/6 Joist
7	3	1/2 Diagonal Joist
8	3	4 ft Joist Assembly with Nuts
9	4	8 ft Joist Assembly with Nuts
See Next Page	1	Cut-To-Fit Joist Kit



## 7.0 Customizing Your QuikDeck™ Installation

### 7.1 Using Optional Joists Installing the Cut-To-Fit Joist Kit

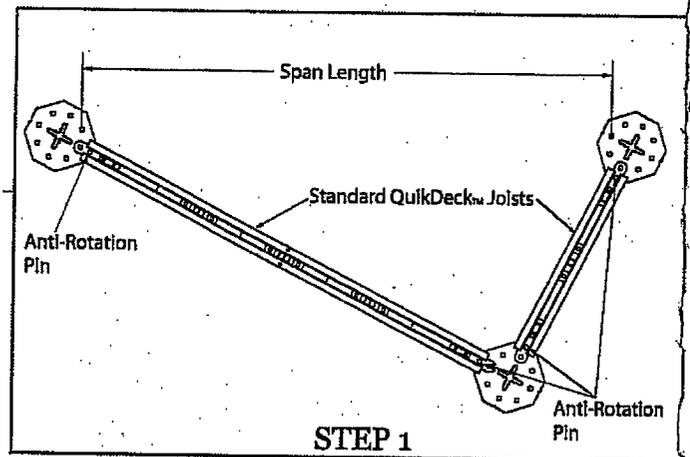


#### STEP 1: DETERMINE THE SPAN LENGTH

To prevent rotation of Nodes, insert Node Pins at all anti-rotation locations where standard Joists connect to Nodes.

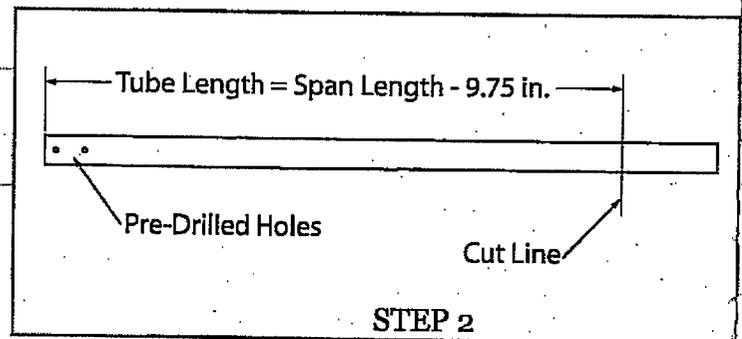
Measure the center-to-center distance between the Node holes that the Cut-To-Fit Joist will span. This is a critical dimension. Double check the distance before proceeding.

**NOTE:** Span length must not exceed 103 in.



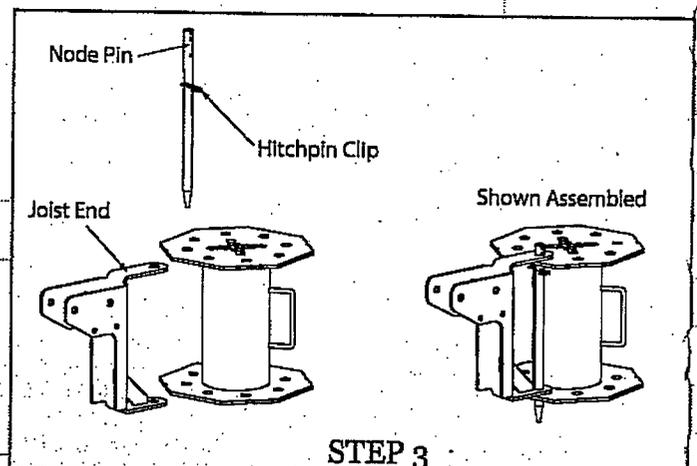
#### STEP 2: CUTTING THE SUPPORT TUBE TO LENGTH

Subtract 9-3/4 in. from distance obtained in Step 1. Mark this distance on the Cut-To-Fit tube from the end with the existing factory pre-drilled holes. Cut tube to length plus or minus 1/8 in.



#### STEP 3: INSTALLING JOIST ENDS

Install the two (2) Joist Ends at the Node locations measured in Step 1 using the standard QuikDeck™ Node Pin and Hitchpin Clip.



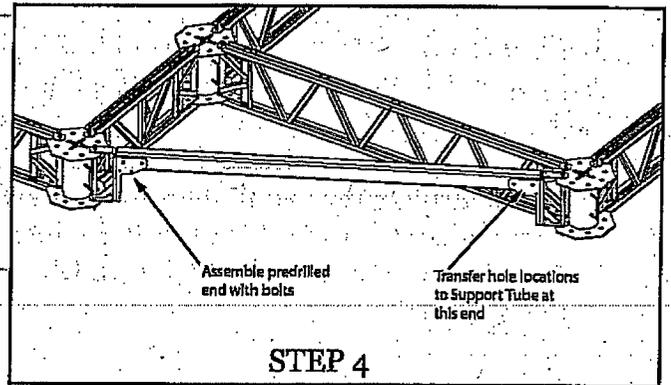
## 7.0 Customizing Your QuikDeck™ Installation

### 7.1 Using Optional Joists

#### Installing the Cut-To-Fit Joist Kit (cont'd)

##### STEP 4: TEST FITTING & MARKING SUPPORT TUBE

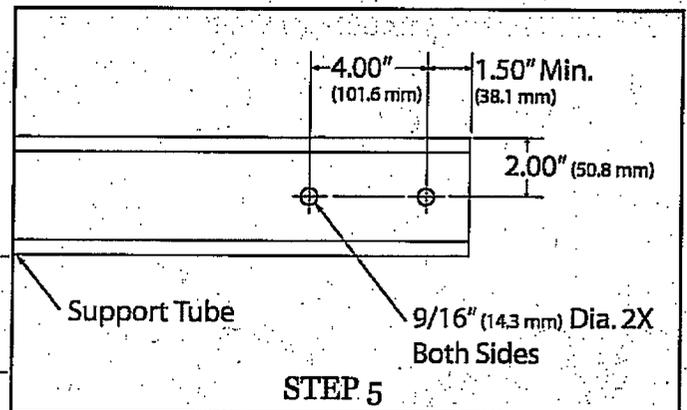
Using the factory pre-drilled hole locations in the Support Tube, assemble the Support Tube to one of the Joist Ends installed in Step 3 using 1/2-13 x 4.50 in. hex bolts and lock nuts.



#### Danger

See Section 2.5 "Falling Objects" hazard.

Slide the other end of the Support Tube down into the pocket on the opposite Joist End. Clearly mark the four (4) hole locations on the Support Tube. Remove the Support Tube.



##### STEP 5: DRILLING THE SUPPORT TUBE

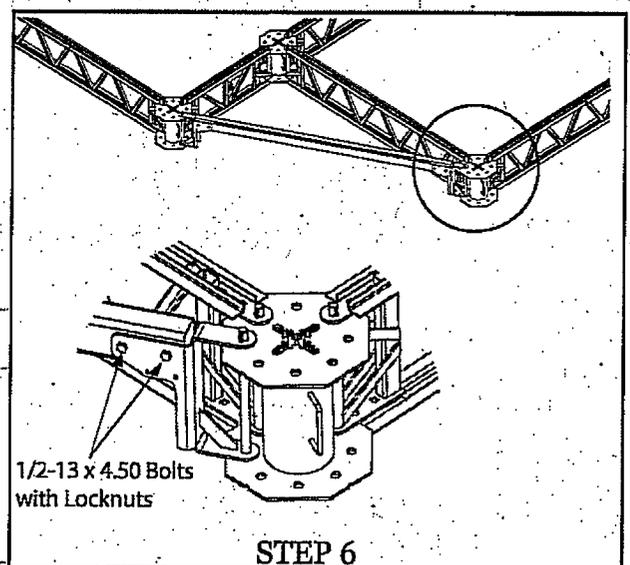
Using a heavy-duty drill and Unibit, Drill Four (4) 9/16 in. holes as marked in Step 4. The Joist End may be used as a template to assist in the locating the drill dimensions shown at right for reference. Drilling holes on-site as marked is recommended.

##### STEP 6: REINSTALLING THE SUPPORT TUBE

Using the supplied 1/2-13 x 4.50 hex bolts and lock nuts\* tighten the Support Tube to the Joist Ends at the four (4) locations as shown.

Torque fasteners to 5-15 ft/lbs (6-20 N-m) or until a minimum of three bolt threads are visible beyond the nut.

\* Never use nuts other than ESN (nylon locking) variety.





## 7.0 Customizing Your QuikDeck™ Installation

### 7.1 Using Optional Joists

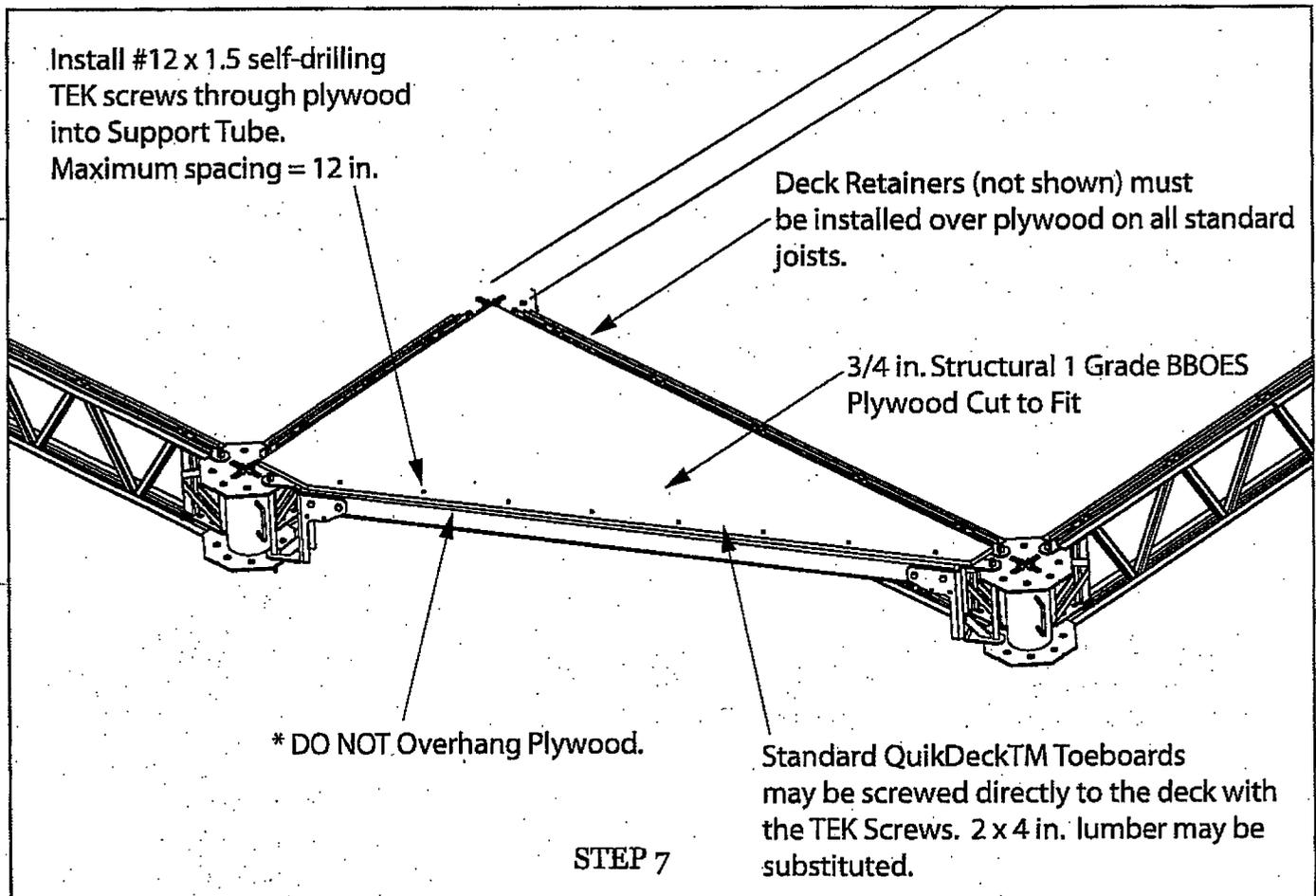
#### Installing the Cut-To-Fit Joist Kit (cont'd)

##### STEP 7: COMPLETING THE INSTALLATION

Cut 3/4 in. BBOES Structural Grade 1 Plywood Decking Panel to fit the area created by the installed Cut-To-Fit Joist. The plywood should be cut so that it completely covers the top face of the Support Tube\*.

Using the drill driver install the supplied Tek screws through the plywood and into the top surface of the support tube at 12 in. increments along the Support Tube.

Standard deck retainers must be used where applicable to secure the plywood to all standard joists.



## 7.0 Customizing Your QuikDeck™ Installation

### 7.1 Using Optional Joists

When using short Joists in a platform configuration it is preferred that the Nodes be supported by three Joists (except at corners).

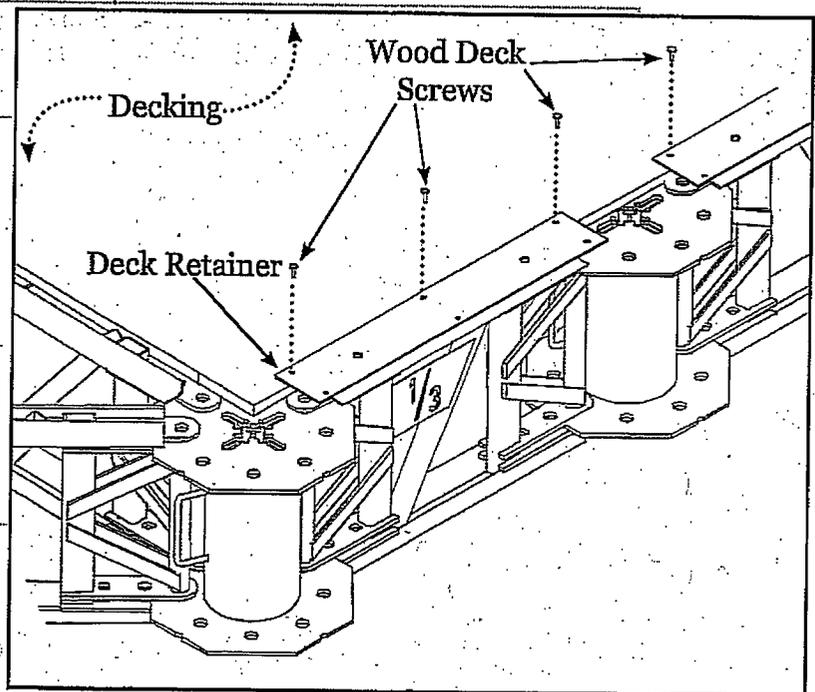
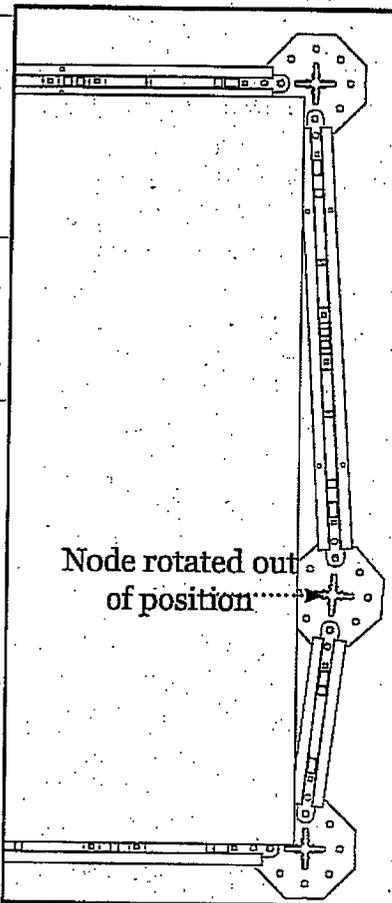


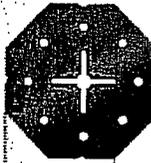
#### Warning

A Node supported by only two Joists can rotate out of position and could lead to the loss of the plywood Decking. See Illustration below.

If unable to use a third Joist to support the Node, please see the below Illustration and text depicting how to use a Deck Retainer to gain the required stability.

Bolt Deck Retainer to Joist using 1/2-13 x 2.50 in. UNC Hex Head fasteners. Install 1/4-20 x .75 in. wood screws through outer holes in Deck Retainer into plywood Decking.





## 7.0 Customizing Your QuikDeck™ Installation

### 7.2 Using Auxiliary Suspender Mounting Brackets

#### *USING AUXILIARY SUSPENDER MOUNTING BRACKETS*

If a Node is located such that a suspender cannot be secured to it, Auxiliary Suspender Mounting Brackets may be installed at any Joist hard point to provide an additional suspender location. Please refer to Sections 3.0 and 5.2 for Load Rating and application information. See Joist 4-1 for additional mounting information.



#### **Warning**

**Auxiliary Suspender Mounting Brackets must be used in pairs to provide equivalent suspender capacity as a Node.**

1. **Install Decking**
2. **Remove cage nuts or speed nuts from selected Joist hard point.**
3. **Insert attachment brackets into Joist hard point.**
4. **Bend over Bolt Bracket retaining plate to secure to Joist.**
5. **Install Deck Retainers and install Auxiliary Suspender Mounting Bracket with two hardened  $\frac{7}{16}$  washers and  $\frac{7}{16}$ -20 Grade 8 Lock Nuts.**
6. **Torque  $\frac{7}{16}$ -20 Grade 8 Lock Nuts to 60-70 ft-lbs (81.3-94.9 N-m).**

## 7.0 Customizing Your QuikDeck™ Installation

### 7.2 Using Auxiliary Suspender Mounting Brackets

#### USING AUXILIARY SUSPENDER MOUNTING BRACKETS



#### Warning

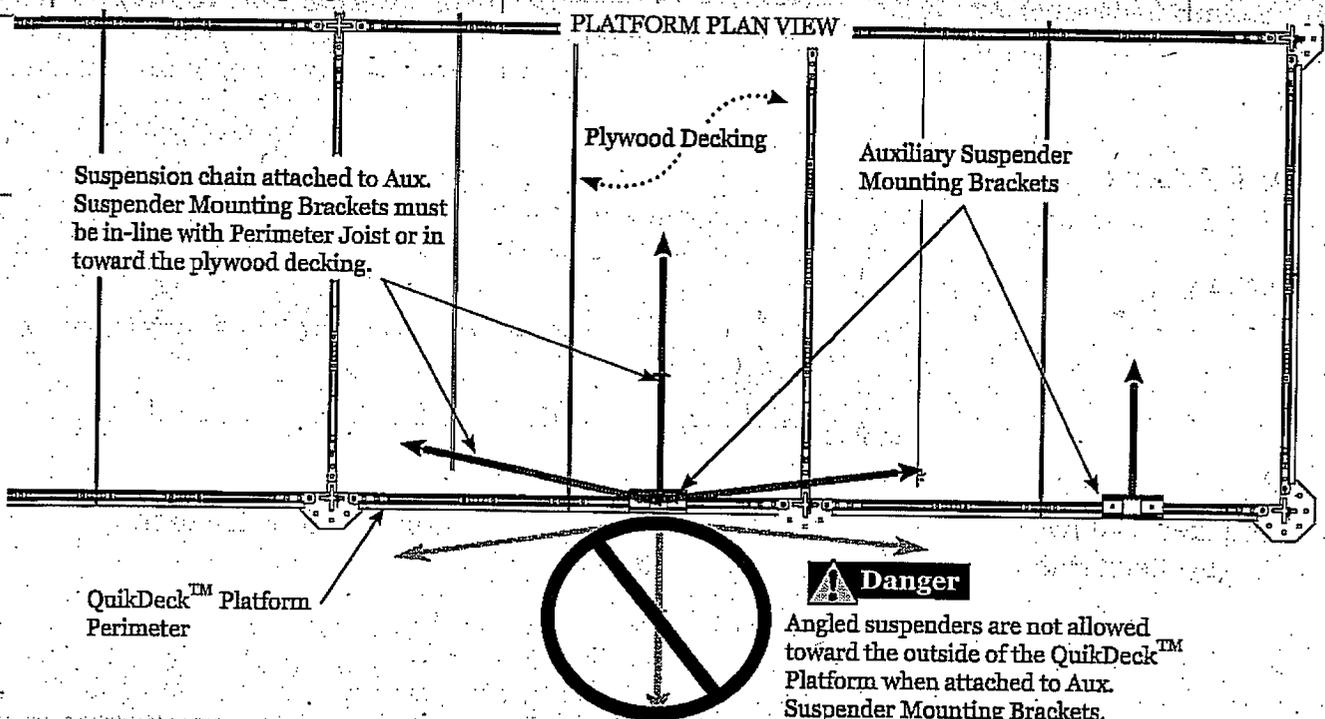
Installation of Bolt Brackets is critical for the safety of the platform. Bolt Brackets must be torqued to 60 – 70 ft-lbs (81.3 - 94.9 N-m) and are ONE TIME USE ONLY. Do not reuse Bolt Brackets or substitute with aftermarket components. Contact Beeche Systems Corp. for replacement parts.

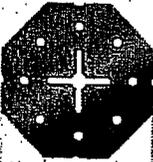


#### Danger

Suspension-chain/wire-rope loads must be toward the interior of the platform when using Auxiliary Suspender Mounting Brackets on the perimeter of a platform. Suspension chain/wire-rope loads applied toward the outside of the platform is prohibited.

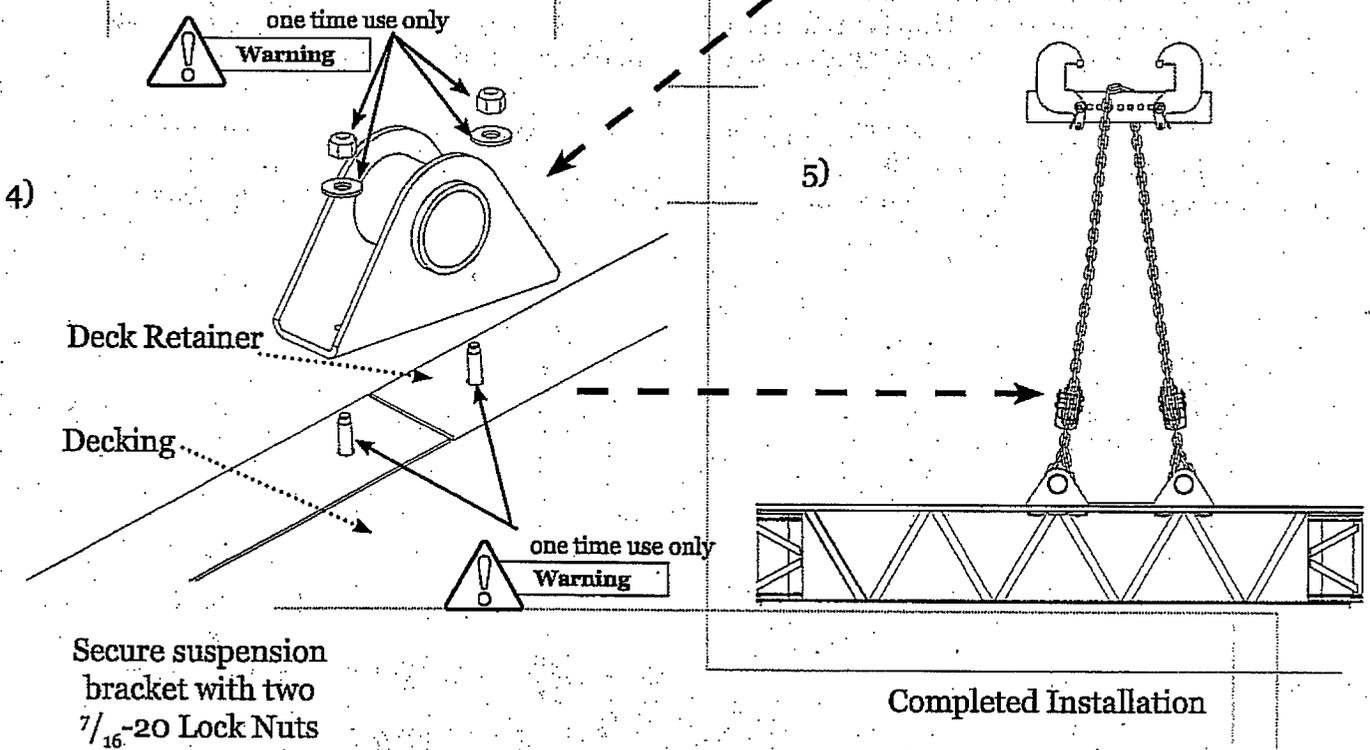
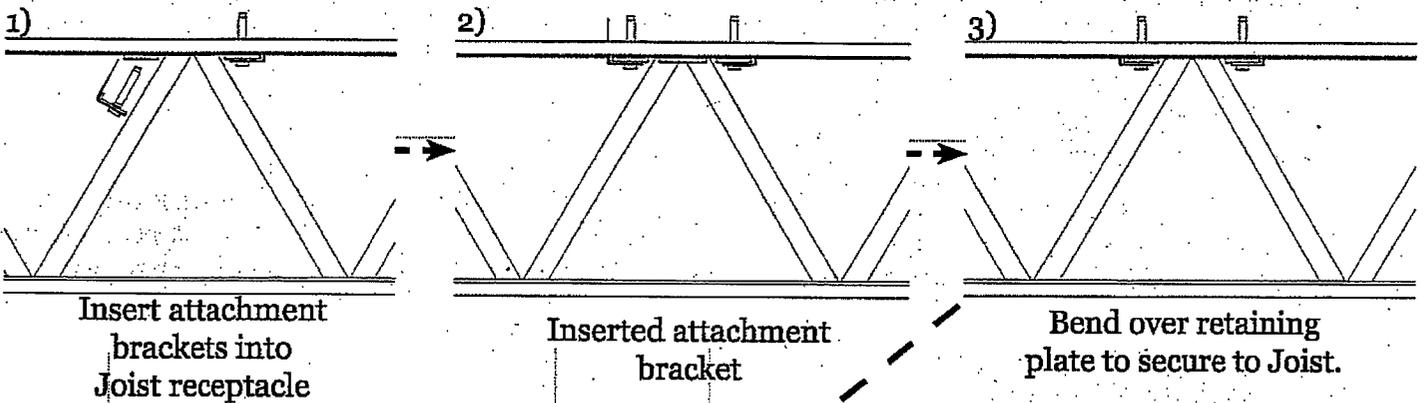
Failure to follow these guidelines can cause platform failure, resulting in property damage, serious injury or death.





## 7.0 Customizing Your QuikDeck™ Installation

### 7.2 Using Auxiliary Suspender Mounting Brackets



## 7.0 Customizing Your QuikDeck™ Installation

### 7.3 Fitting Piers and Bearings

#### *FITTING PIERS AND BEARINGS*

Using optional components, the QuikDeck™ Platform System can be configured for any bridge application. Common conditions and obstructions may include:

- Piers (perpendicular or angled to the roadway)
- Bearings
- Catwalks
- Conduits and piping

Components have been specifically designed for these applications. Some of these components include:

- Optional Joists
- Deck Supports without locating pins
- Hanger Brackets for 2 in. x 6 in. (51 mm x 152 mm) Structural Lumber



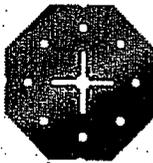
#### **Danger**

**A competent person must perform all required carpentry. Failure to properly produce wood components or install fasteners can cause failure of the platform, resulting in property damage, serious injury or death.**



#### **Warning**

**A competent person must install wood structural members. See the Foreword at the beginning of this manual for a definition of a competent person.**



## 7.0 Customizing Your QuikDeck™ Installation

### 7.3 Fitting Piers and Bearings

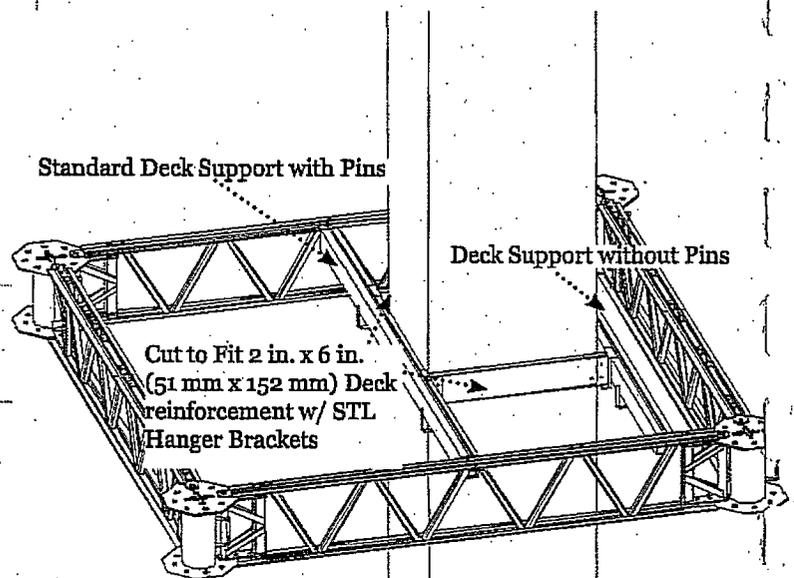
#### EXAMPLE #1

The obstacle falls completely within a single 4 ft x 8 ft (1.2 m x 2.4 m) deck panel - no QuikDeck™ Platform System structural members affected.

1. Install a standard Deck Support in the 8 ft x 8 ft (2.4 m x 2.4 m) grid. The Deck Support may be installed either laterally or longitudinally, depending on the location of the interruption.

2. If the space between the obstacle and the Deck Support is greater than 12 in. (304.8 mm) install a deck support without pins parallel to the Deck Support with pins. The Deck Support should be as close to the obstacle as possible. Whenever a Deck Support without pins is used, it must be captured between two deck panels, or some other means must be provided to prevent the Deck Support from moving out of location.

3. If the space between the obstacles and the Joist parallel to the Deck Support is greater than 12 in. install a Deck Support without pins on the obstacle side.



#### Example #1

The obstacle falls completely within a single 4 ft x 8 ft (1.2 m x 2.4 m) Deck Panel

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.

## 7.0 Customizing Your QuikDeck™ Installation

### 7.3 Fitting Piers and Bearings

#### EXAMPLE #1 CONTINUED

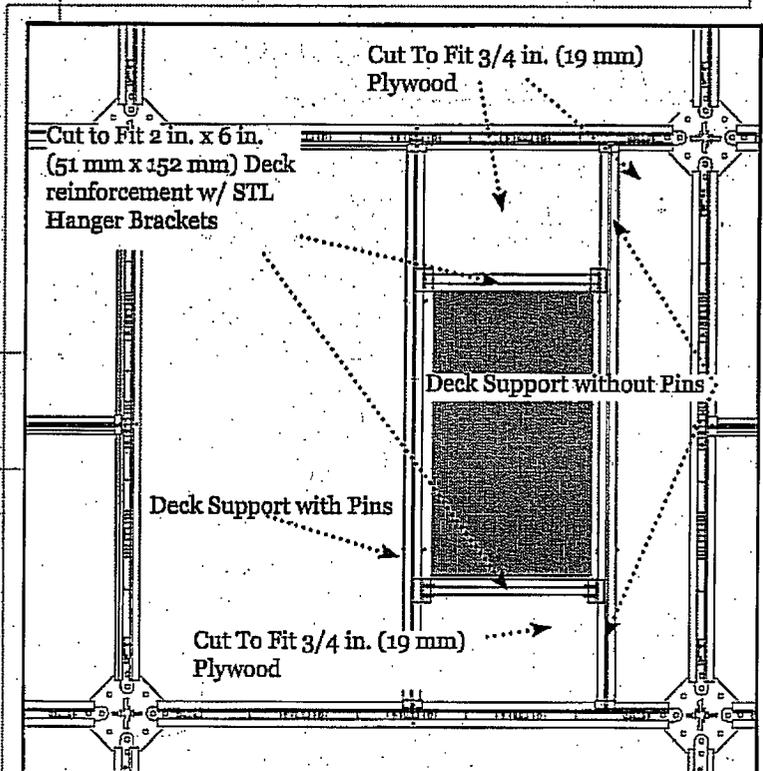
The obstacle falls completely within a single 4 ft x 8 ft (1.2 m x 2.4 m) deck panel - no QuikDeck™ Platform System structural members affected.

4. On both sides of the obstacle, install a 2 in. x 6 in. (51 mm x 152 mm) wood deck reinforcement (with hangers) perpendicular to the Deck Support. A 2 in. x 6 in. (51 mm x 152 mm) deck reinforcement is never used for a span greater than 4 ft (1.2 m). The 2 in. x 6 in. (51 mm x 152 mm) lumber may be shortened as required. Hangers can be supported by a Joist or a Deck Support.

5. Each end of deck reinforcement is secured to a hanger with (4) #10 x 1 stainless steel wood screws.

6. Cut pieces of Structural Grade 3/4 in. (19 mm) BBOES plywood to fill all gaps as required. Each piece of plywood must be no more than 1/4 in. (6.3 mm) smaller than the space it fills. Each piece of plywood must be supported on at least three sides. Plywood wider than 7 in. (178 mm) must be supported on all four sides.

7. Whenever a deck panel bears on a deck reinforcement, secure it to the deck reinforcement with #10 x 2-1/2 stainless steel square socket deck screws on 5 in. (127 mm) centers.



Example #1  
The obstacle falls completely within a single  
4 ft x 8 ft (1.2 m x 2.4 m) Deck Panel

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



## 7.0 Customizing Your QuikDeck™ Installation

### 7.3 Fitting Piers and Bearings

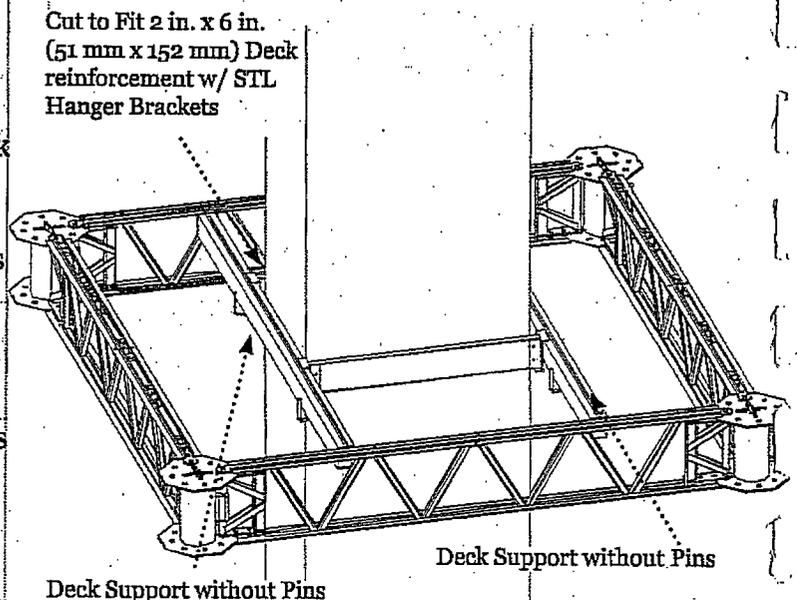
#### EXAMPLE #2

The obstacle falls completely within a single 8 ft x 8 ft (2.4 m x 2.4 m) grid. It interferes with the installation of a standard deck support. No other QuikDeck™ Platform System structural members are affected.

1. Install (2) Deck Supports without pins on opposing sides of the obstacle. These Deck Supports may be installed either laterally or longitudinally, depending on the size and location of the interruption.

2. On the other two opposing sides of the obstacle, install 2 in. x 6 in. (51 mm x 152 mm) wood deck reinforcements with hangers perpendicular to the Deck Supports. A 2 in. x 6 in. (51 mm x 152 mm) deck reinforcement is never used for a span greater than 4 ft (1.2 m). The 2 in. x 6 in. (51 mm x 152 mm) lumber may be shortened as required. Hangers can be supported by a Joist or a deck support.

3. Each end of the deck reinforcement is secured to a hanger with (4) #10 x 1 in. stainless steel wood screws.



#### Example #2

The obstacle falls completely within a single 8 ft x 8 ft (2.4 m x 2.4 m) grid

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.

## 7.0 Customizing Your QuikDeck™ Installation

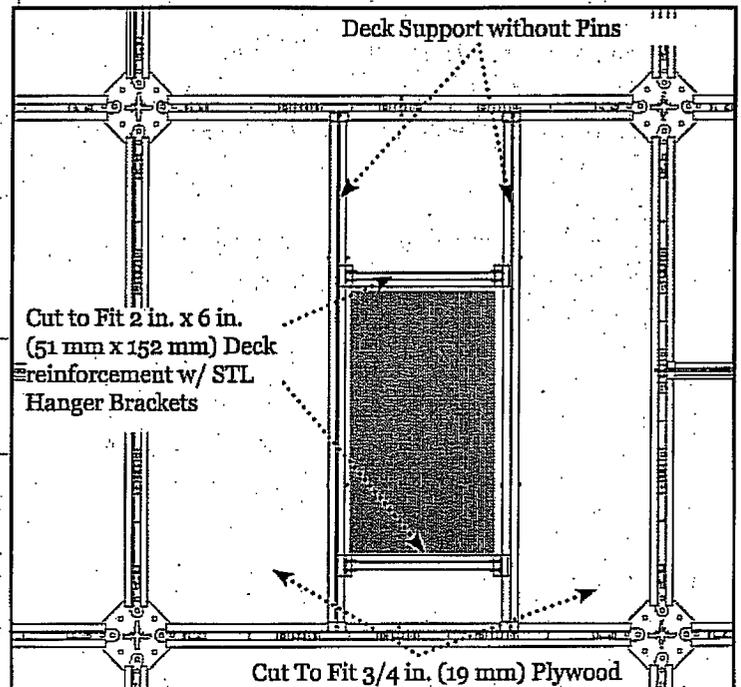
### 7.3 Fitting Piers and Bearings

#### EXAMPLE #2 CONTINUED

The obstacle falls completely within a single 8 ft x 8 ft (2.4 m x 2.4 m) grid- It interferes with the installation of a standard deck support. No other QuikDeck™ Platform System structural members are affected.

4. Cut pieces of Structural 1 Grade  $\frac{3}{4}$  in. (19 mm) BBOES plywood to fill all gaps as required. Each piece of plywood must be no more than  $\frac{1}{4}$  in. (6.3 mm) smaller than the space it fills. Each piece of plywood must be supported on at least three sides. Plywood wider than 7 in. (178 mm) must be

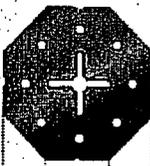
5. Whenever a deck panel bears on a deck reinforcement, secure it to the deck reinforcement with #10 x  $2\frac{1}{2}$  in. stainless steel socket deck screws on 5-in. (127 mm) centers.



Example #2  
The obstacle falls completely within a single 8 ft x 8 ft (2.4 m x 2.4 m) grid

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



## 7.0 Customizing Your QuikDeck™ Installation

### 7.3 Fitting Piers and Bearings

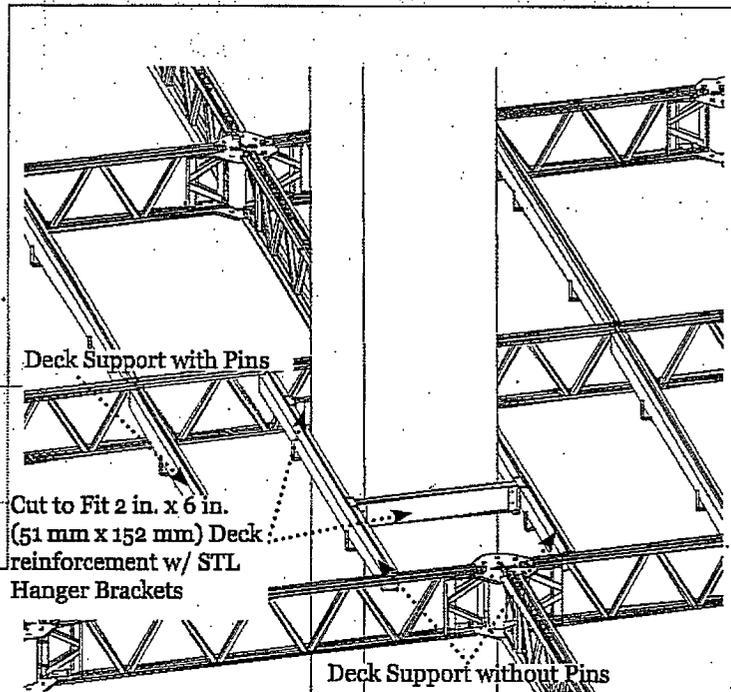
#### EXAMPLE #3

The obstacle interrupts a single longitudinal Joist - no other QuikDeck™ Platform System structural members affected. The obstacle is less than 48 in. (1.2 m) wide

1. Install (2) longitudinal Deck Supports without pins on opposing sides of the obstacle.

2. On the other two opposing sides of the obstacle, install 2 in. x 6 in. (51 mm x 152 mm) wood deck reinforcements with hangers perpendicular to the deck support. A 2 in. x 6 in. (51 mm x 152 mm) 4ft (1.2 m) length of structural lumber may be shortened as required. Hangers can be supported by a Joist or a Deck Support.

3. Each end of the deck reinforcement is secured to a hanger with (4) #10 x 1 in. stainless steel wood screws.



Example #3

The obstacle interrupts a single longitudinal joist

Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



## 7.0 Customizing Your QuikDeck™ Installation

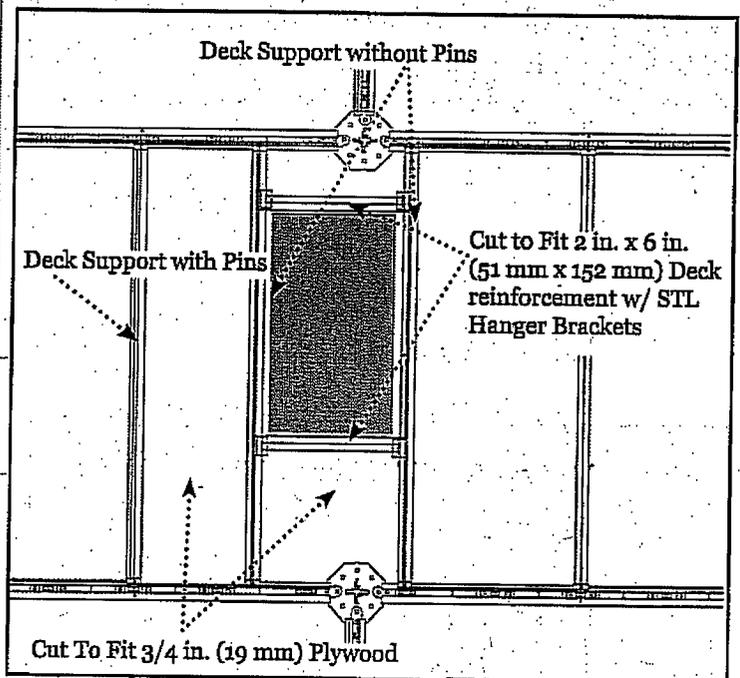
### 7.3 Fitting Piers and Bearings

#### EXAMPLE #3 CONTINUED

The obstacle interrupts a single longitudinal Joist - no QuikDeck™ Platform System structural members affected. The obstacle is less than 48 in. (1.2 m) wide

4. Cut pieces of Structural 1 Grade  $\frac{3}{4}$  in. (19 mm) BBOES plywood to fill all gaps as required. Each piece of plywood must be no more than  $\frac{1}{4}$  in. (6.3 mm) smaller than the space it fills. Each piece of plywood must be supported on at least **three** sides. Plywood wider than 7 in. (178 mm) must be supported on all **four** sides.

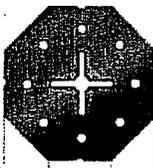
5. When a deck panel bears on a deck reinforcement, secure it to the deck reinforcement with #10 x  $2\frac{1}{2}$  in. stainless steel square socket deck screws on 5 in. (127 mm) centers.



Example #3  
The obstacle interrupts a single longitudinal Joist

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



# 7.0 Customizing Your QuikDeck™ Installation

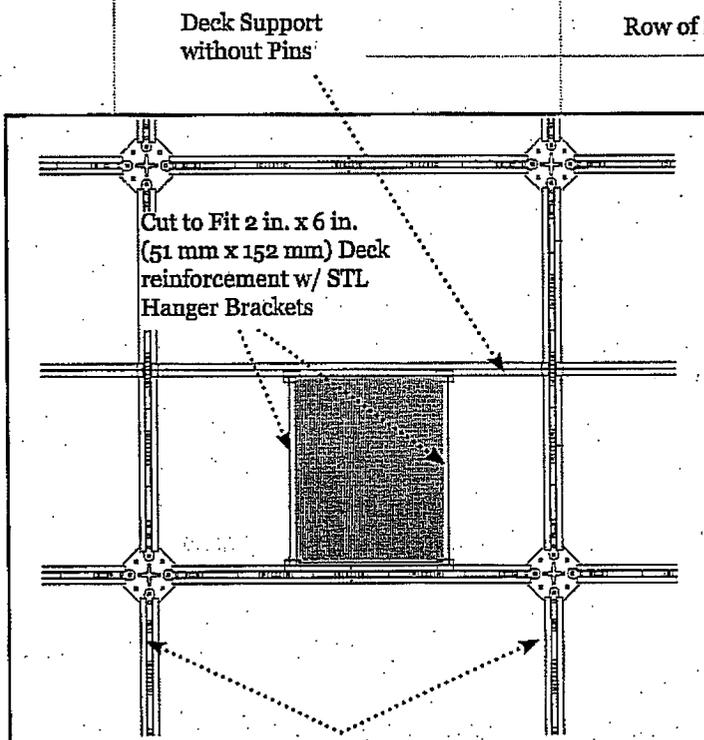
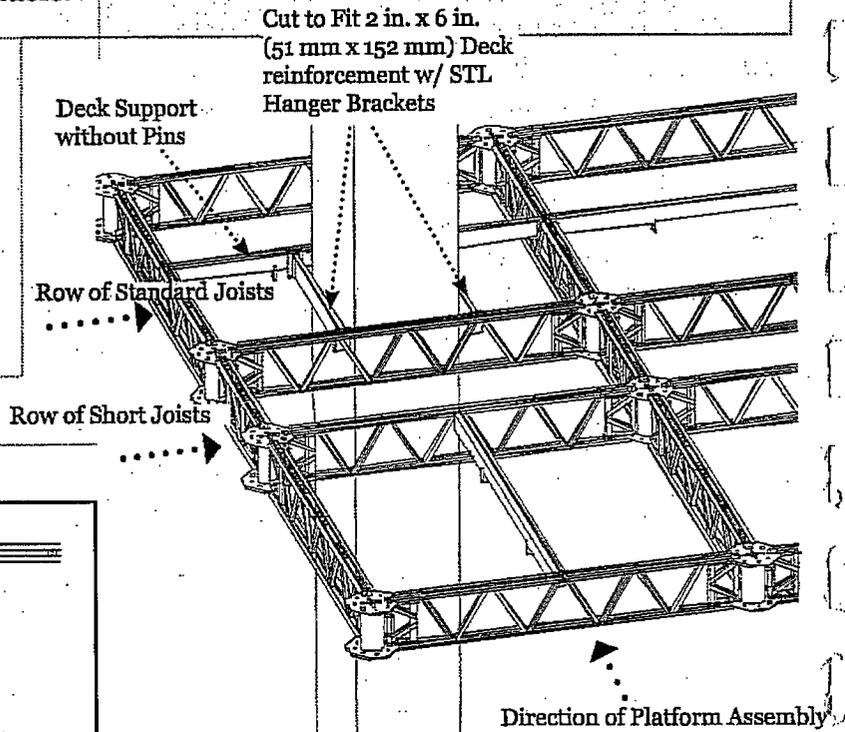
## 7.3 Fitting Piers and Bearings

### EXAMPLE #4

The obstacle interrupts a lateral row of Joists and Nodes - no QuikDeck™ Platform System structural members affected.

1. Install longitudinal short Joists using the greatest length that will allow a full lateral row of Joists and Nodes on near side of obstacle.

2. Install the next row of Joists and Nodes in the normal manner. To fill in the remaining space around the obstacle, refer to Examples 1, 2 and 3 as required



Short Joists Used To Force The Grid Module To Fit Obstacles. Short Joists Are Made In 1/6, 1/3, 1/2, 2/3, and 5/6 Lengths.

### Example #4

The obstacle interrupts a lateral row of Joists and Nodes

#### Notes:

1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



# 7.0 Customizing Your QuikDeck™ Installation

## 7.3 Fitting Piers and Bearings

### EXAMPLE #5

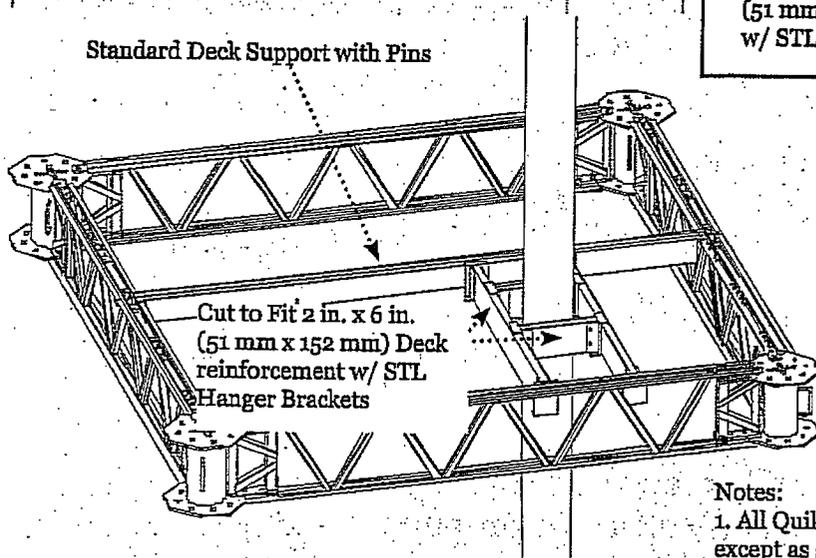
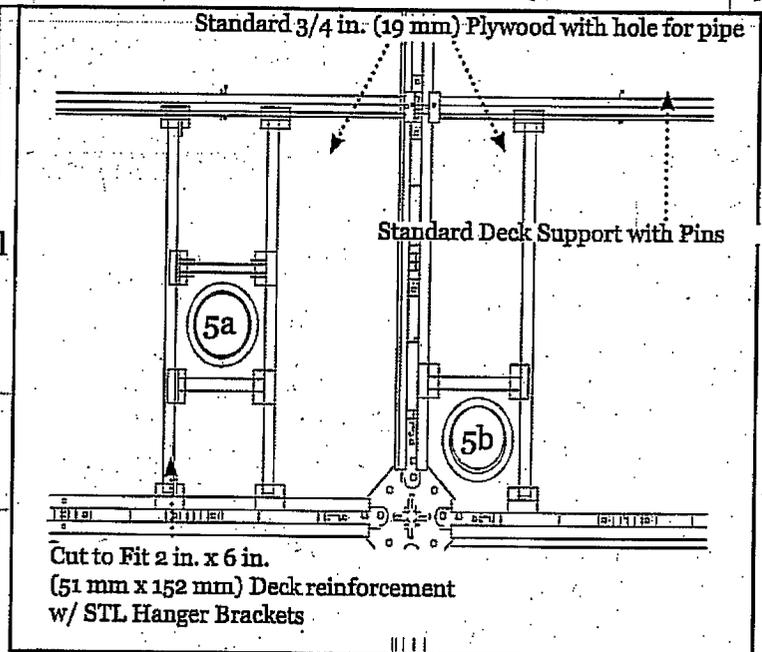
The obstacle such as a drainpipe penetrates a single deck panel.

1. Install (2) 4 ft (1.2 m) nominal 2 in. x 6 in. (51 mm x 152 mm) wood deck reinforcement with steel hangers on opposing sides of the obstacle.
2. If the obstacle is wider than 6 in. (152 mm), install (2) additional cut to fit pieces of 2 in. x 6 in. (51 mm x 152 mm) lumber with steel hangers on the other (2) opposing sides of the obstacles. The brackets for these pieces of 2 in. x 6 in. (51 mm x 152 mm) lumber must bear on the pieces of lumber installed in step 1.
3. Secure the deck panel to the deck reinforcement with #10 x 2-1/2 in. stainless steel square socket deck screws on 5 in. (127 mm) centers.



### Danger

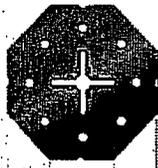
A competent person must perform all required carpentry. Failure to produce wood components or install fasteners can cause



Example #5  
The Plywood is prepared for obstacles such as pipes or conduits

#### Notes:

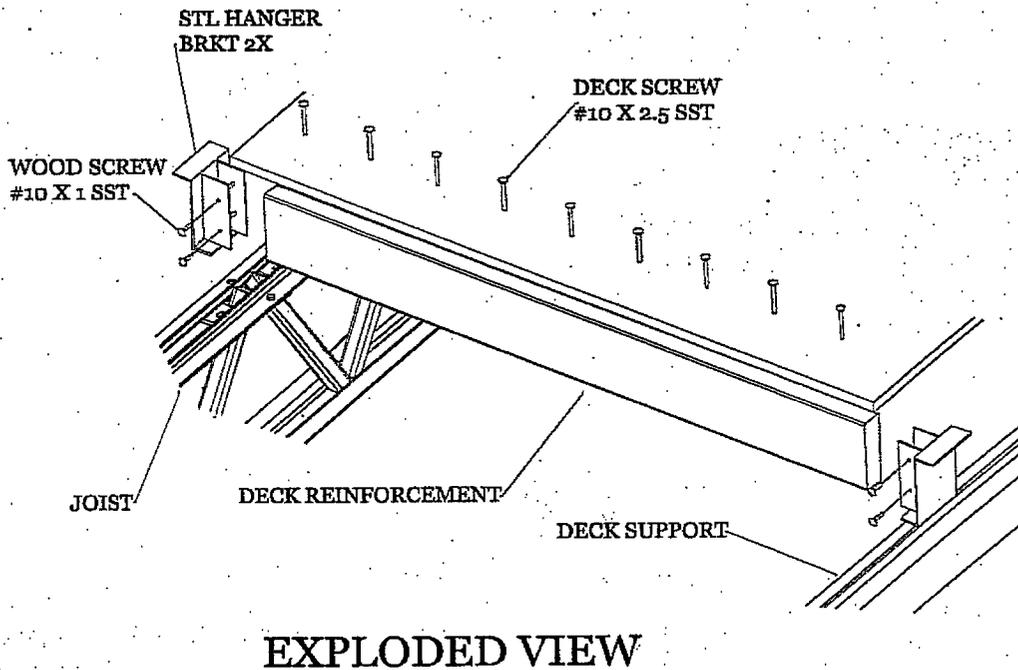
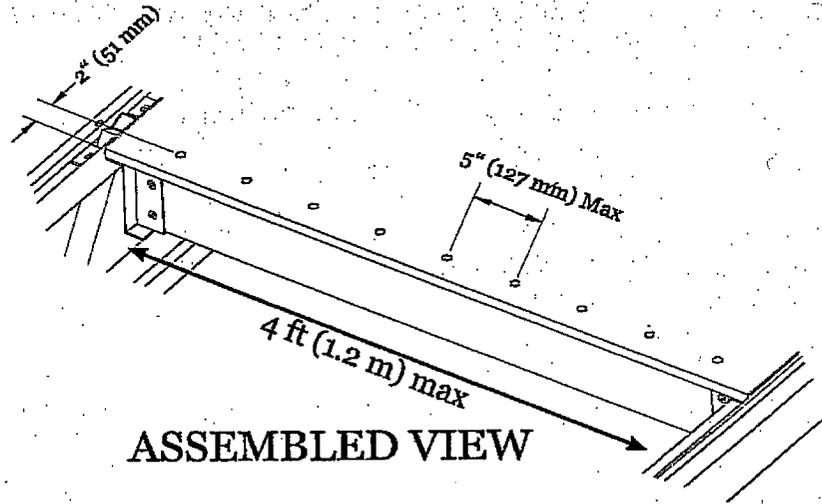
1. All QuikDeck™ Platform System components shown are standard except as shown otherwise.
2. For 2 in. x 6 in. (51 mm x 152 mm) Structural Grade lumber and hanger details see page 127.



## 7.0 Customizing Your QuikDeck™ Installation

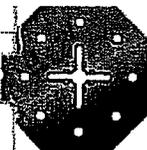
### 7.3 Fitting Piers and Bearings

**2 in. x 6 in. (51 mm X 152 mm) Structural LUMBER AND HANGER**



#### **Danger**

Failure to properly install screws as shown can cause failure of platform, resulting in property damage, serious injury or death.



# 7.0 Customizing Your QuikDeck™ Installation

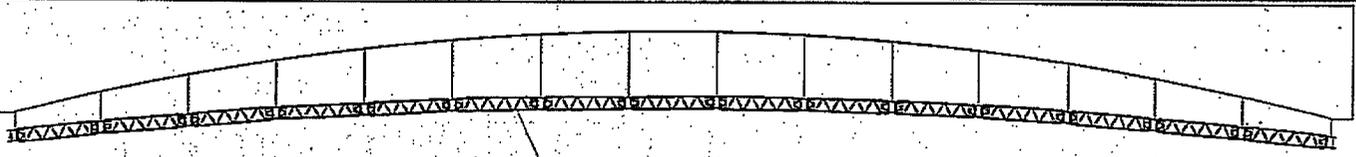
## 7.4 Fitting Arched Bridges

### FITTING ARCHED BRIDGES

The QuikDeck™ Platform System is designed to accommodate various arch configurations.

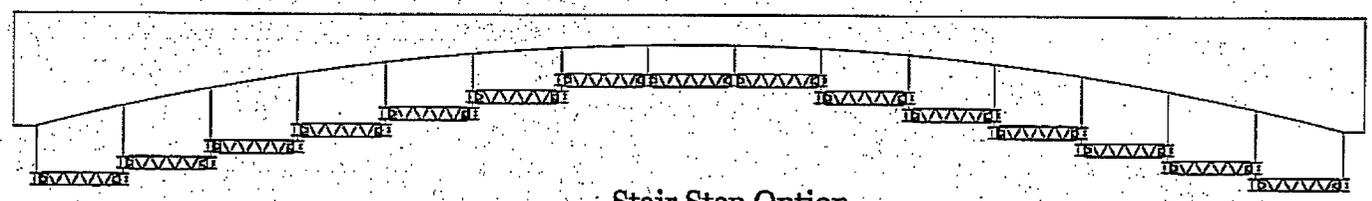
The Arch Option is accomplished by varying the suspension hoist along the platform. The minimum attainable radius using this method is 535 ft (163 m).

The Stair Step Option allows you to get closer to the arch. In this method two Nodes can share the same suspension point. Please contact Beeche Systems Corp. for installation information.

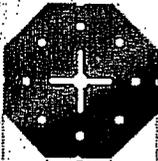


535 ft (163 m) Radius

Arched Option

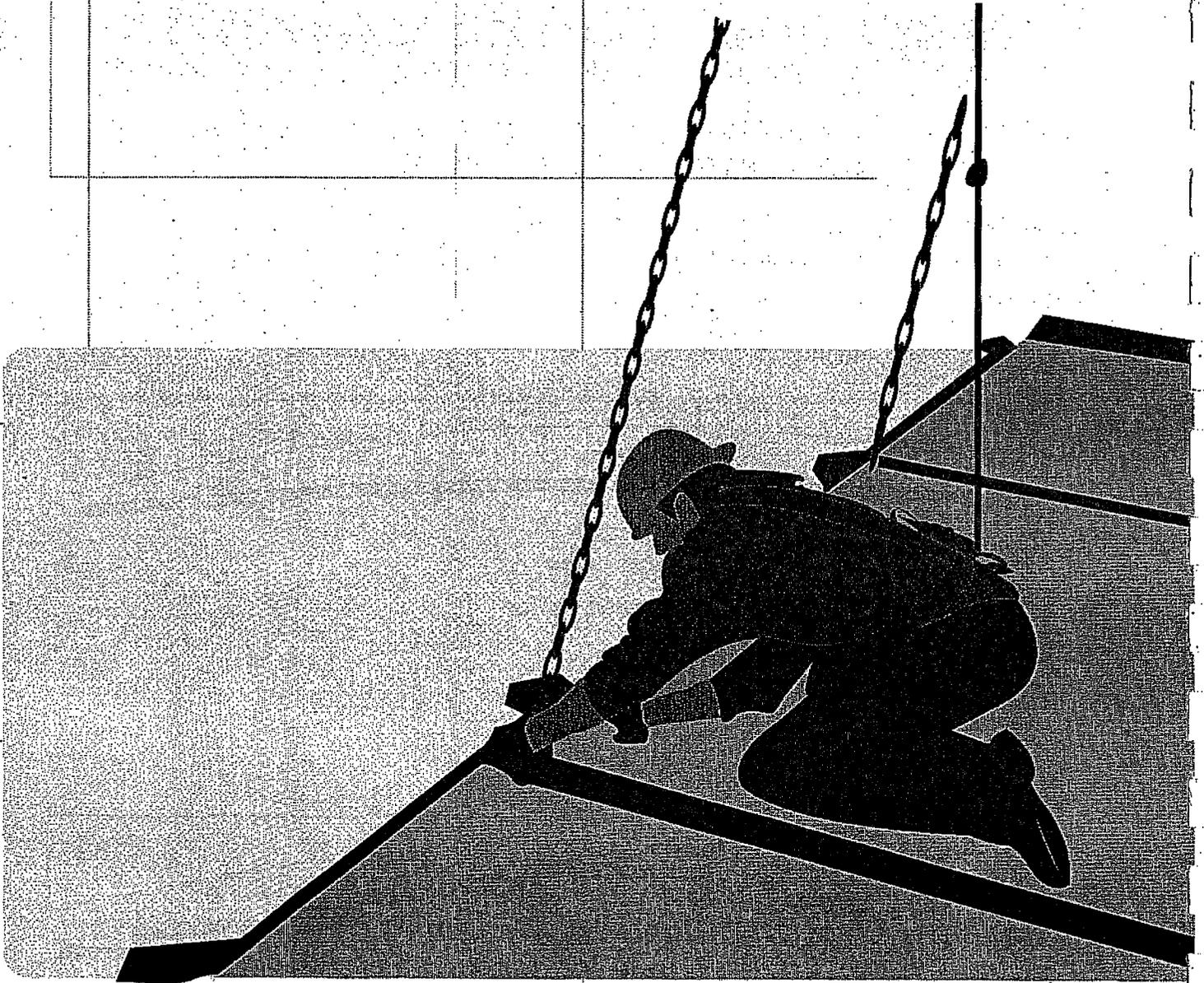


Stair Step Option



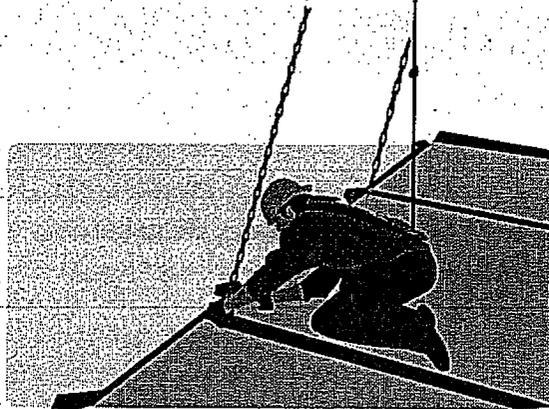
## 8.0 Working on the Platform

### 8.0 Working on the Platform



# 8.0 Working on the Platform

## 8.0 General



1.

### SAFETY

Beeche Systems Corp. manufactures and markets the QuikDeck™ Platform System with the express understanding that the end user is thoroughly familiar with the safe and proper application of the product.



### Warning

Property damage, injury or death can result from overloading, misuse, improper assembly, improper operation or lack of maintenance of the QuikDeck™ Platform System.

### IMPORTANT



### Warning

The capacity of the QuikDeck™ Platform System may be affected by overloading, damage, wear, corrosion, misuse, intentional modification and other conditions.

Regular inspection of QuikDeck™ Platform System components must be conducted by a competent person to ensure structural integrity of components and preservation of system load rating.

Always discard and replace damaged components. Beeche Systems Corp. assumes no responsibility for the consequences of alteration, modification or repair of QuikDeck™ Platform System components.



### Warning

Property damage, injury or death can result from a failure to comply with applicable safety guidelines and federal, state, and local regulations. Understand these safety guidelines and Section 9.0 - "Platform Inspection and Maintenance" before installing, operating or removing equipment.

## 8.0 Working on the Platform

### 8.1 Safety

#### WARNINGS



#### Warning

1) A trained and qualified operator or competent person must be present, at all times, during assembly, hoisting, lowering, traversing, disassembly and any other operation involving the QuikDeck™ Platform System.



#### Warning

2) Before installing, operating or removing the QuikDeck™ Platform System, the on-site supervisor or the designee or operator(s), must become aware of all the requirements of applicable federal, state, and local safety regulations, especially those relating to the features of the equipment, to its use, maintenance, control and operations.



#### Warning

3) Never exceed Load Ratings for the QuikDeck™ Platform System. Exceeding design load limits may result in failure of the platform or supporting structural members.



#### Warning

4) Load Ratings of the QuikDeck™ Platform System may be affected by overloading, damage, wear, corrosion, misuse, intentional modification and other circumstances. Regular inspection of QuikDeck™ Platform System components must be conducted by a competent person to ensure integrity of components and preservation of load rating. Always discard and replace damaged components. Beeche Systems Corp. assumes no responsibility for the consequences of alteration, modification or repair of QuikDeck™ Platform System components.



#### Warning

5) The on-site supervisor or designee or the operator(s) must read and fully understand all operating and/or maintenance manuals pertaining to mechanical equipment incorporated into the assembly, but not manufactured by Beeche Systems Corp., such as manual and/or motorized hoists.

### 8.2 Precautions

#### FALLING OBJECTS



##### Warning

If the area under the platform can not be secured, each component must be tied off with rope of sufficient strength prior to installation of the component. After the component is installed and secured, rope can be removed.

#### EVACUATION



##### Warning

Beeche Systems Corp. recommends a comprehensive evacuation plan be developed in the event of an emergency. This plan should be communicated to all personnel working on or near the platform.

The plan should include, at a minimum, the following:

- 1) Location of all exits.
- 2) An individual assigned to be responsible for the safety of the work force.
- 3) A daily log of personnel and visitors on the platform.
- 4) A designated "accountability area" for review of log to ensure all personnel and visitors have safely evacuated the platform.

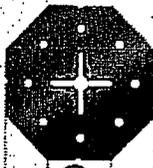
#### OVERLOADING

Do not exceed the rated capacities located in Section 3.0 - "Technical Specifications" QuikDeck™ Platform System Load Capacities.



##### Danger

Exceeding load ratings will cause failure of platform, resulting in property damage, injury or death.



## 8.0 Working on the Platform

### 8.2 Precautions

#### *SEVERE WEATHER*



#### **Warning**

**Evacuate the platform if severe weather is predicted or observed.**

**Severe weather conditions can induce excessive wind loads, resulting in failure of the platform, property damage, serious injury or death.**

**Always be aware of severe weather conditions and evacuate the platform at the first sign of severe weather.**

#### *FIRE HAZARDS*



#### **Warning**

**Always shield plywood Decking from sparks and flame and never use or store flammable liquids on platform.**

**Sparks, flame and gasoline or other flammable liquids pose a serious risk of fire. Fire can cause failure of the platform, resulting in property damage, serious injury or death. Per OSHA CFR 29 part 1926, gasoline powered equipment is prohibited on suspended scaffolding.**

**Always be aware of fire hazards and use APA approved fire retardant plywood when required by specification or conditions.**

# 9.0 Platform Inspection and Maintenance

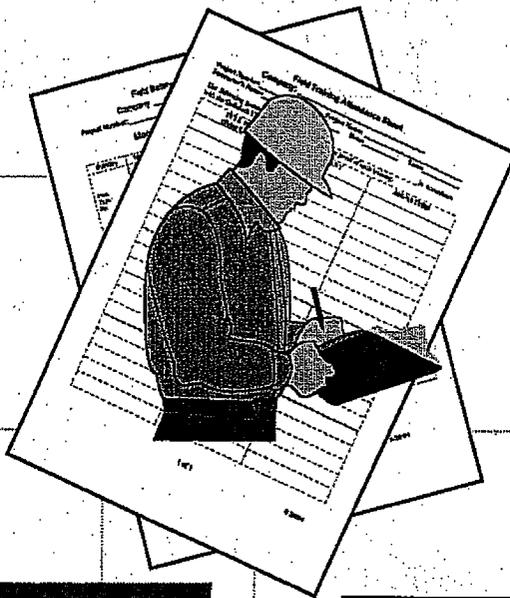
## 9.0 Platform Inspection and Maintenance





# 9.0 Platform Inspection and Maintenance

## 9.0 General



1.

### SAFETY



#### Warning

Regular inspection of QuikDeck™ Platform System components must be conducted by a competent person to ensure integrity of components and preservation of Load Rating. Failure to regularly inspect the QuikDeck™ Platform System may result in failure of platform, resulting in property damage, injury or death.

### IMPORTANT



#### Danger

Load Ratings of the QuikDeck™ Platform System may be affected by overloading, damage, wear, corrosion, misuse, intentional modification and other circumstances.

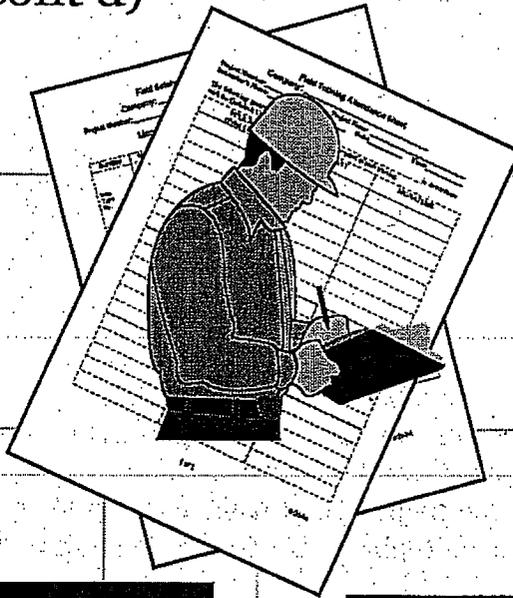


#### Warning

To ensure safe operation of the QuikDeck™ Platform System, inspection procedures must be performed by a Competent Person at the specified intervals. A Competent Person is one who is capable of identifying existing and predictable hazards and has authorization to take prompt corrective measures to eliminate them. A Safety Inspection Sign Off Calendar should be utilized and initialed at the time the inspection is performed. A Sample is included in this section.

# 9.0 Platform Inspection and Maintenance

## 9.0 General (cont'd)



1.

### **SAFETY (cont'd)**



#### **Warning**

Beeche Systems Corp. assumes no responsibility for the consequences of alteration, substitutions, modification or repair of QuikDeck™ Platform System components.

### **IMPORTANT (cont'd)**



#### **Warning**

When not in use, all QuikDeck™ Platform System components should be appropriately stored and protected from physical damage and shielded from corrosive chemicals, rain, snow, freezing, excessive heat or other such conditions that could result in degradation of structural integrity. Stored components should be inspected for damage or corrosion prior to use.



#### **Warning**

To ensure safe operation of the QuikDeck™ Platform System, inspection procedures must be performed by a Competent Person at the specified intervals. A Competent Person is one who is capable of identifying existing and predictable hazards and has authorization to take prompt corrective measures to eliminate them. A Safety Inspection Sign Off Calendar should be utilized and initialed at the time the inspection is performed. A Sample is included in this section.

## 9.0 Platform Inspection and Maintenance

### 9.1 Daily Inspection

#### DAILY SAFETY INSPECTION



#### Warning

#### 1) Inspect platform for excessive deflection.

Excessive deflection is a clear sign of platform overloading. If excessive deflection is observed, immediately evacuate the platform and secure area under platform in case of platform failure. Remove load from platform and inspect platform, suspension components and supporting structural members for damage. Replace with Beeche Systems Corp. supplied components as required.



#### Warning

#### 2) Inspect Wire Rope Clips

Using torque wrench, and following manufacturers instructions, inspect all Wire Rope Clips utilized for suspension and Wire Rope Railings for proper torque specifications. Re-torque as required.



#### Warning

#### 3) Inspect Suspension Connections

Check all platform and suspension assembly connections to ensure that they are in proper position and are in good working condition. Start inspection with Beam Clamp connections to structural members and Chain leading from Beam Clamps to Nodes. Ensure Chain Retainers are installed and are properly retained by Plastic Ties.



#### Warning

#### 4) Inspect Wire Rope

Check Wire Rope for signs of damage or exposure to heat or flame. Wire Rope should be kept clean from build-up of debris and foreign materials. Replace wire rope as required.

## 9.1 Daily Inspection

### DAILY SAFETY INSPECTION



#### Warning

#### 5) Inspect Suspension Chain

Check Chain for twists or bends, nicks or gouges, stretch, signs of wear and exposure to heat or flame. Replace Chain as required.



#### Warning

#### 6) Inspect for missing fasteners and lanyards.

Check all connections for missing pins, fasteners and lanyards. Replace pins, fasteners and lanyards as required.



#### Warning

#### 7) Inspect all nuts and bolts for proper torque specifications.

Inspect all threaded fasteners for proper torque specifications. Re-torque fasteners as required.



#### Warning

#### 8) Inspecting Decking and Preventing Damage

Inspect Decking for damage and decay. Replace Decking as required. Always inspect Decking Panels prior to installation and after removal.

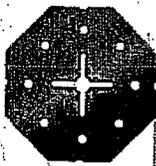
Damaged Decking Panels can fail under load, resulting in property damage, injury or death.

Damaged Decking Panels should never be utilized for decking on the QuikDeck™ Platform System.

Deck Panels suspected of damage should be immediately removed from service and carefully inspected before reuse.

Proper inspection, storage, handling and use are necessary to ensure structural integrity and safe application of Decking Panels.

Use of damaged Decking Panels may result in property damage, injury or death.



## 9.0 Platform Inspection and Maintenance

### 9.1 Daily Inspection

#### DAILY SAFETY INSPECTION



#### Warning

#### 8) Inspecting Decking and Preventing Damage (Cont'd)

Some common types of damage to Decking Panels are:

- \* **Decay.** Decay (or rotting) can significantly reduce load carrying capacity of Decking Panels. Indications of Decking Panel decay include changes in hardness, stiffness, color, texture and fiber brushness (low resistance to shock and failure across the grain without splintering). Decking Panels with signs of decay should be immediately removed from service and inspected before reuse.
- \* **Face breaks.** A break on the surface of a Decking Panel is the result of overloading. A face break looks like an irregular crack across the tension face (bottom) of the Decking Panel, or a small, straight wrinkle across the compression face (top). Face breaks result in significant loss of load carrying capacity. Decking Panels showing face breaks should be immediately removed from service.
- \* **Accumulated layers of Paint, Concrete, etc.** Paint, concrete or other materials can accumulate on Decking Panels and prevent proper inspection. Decking Panels that have accumulated layers of paint, concrete, etc. should be immediately removed from service and all layers of accumulated materials or debris from Decking Panels should be removed to facilitate proper inspection. Discard and replace Decking Panels if damage or decay is evident after removal of layers of materials or debris or if layers of materials or debris cannot be removed without causing damage to Decking Panel.
- \* **Saw cuts, drilled holes, and notches.** A saw cut, partially or fully through the Decking Panel, will significantly reduce the load capacity of a Decking Panel. Notches or drilled holes can have similar effects. Decking Panels with saw cuts, drilled holes, or notches in them should be removed from service unless these operations and subsequent reinforcement of the Decking Panel is performed in accordance with the latest revision of the QuikDeck™ Platform System Safety and Operations Manual.
- \* **Dents.** Dents are caused by impact from falling objects or a dropped Decking Panel striking an object. Decking Panels with dents deeper than  $1/16$ th (1.6 mm) of an inch should be immediately removed from service and inspected before reuse.
- \* **Gouges and depressions.** Gouges or depressions (where pieces of wood have been torn from the face of the Decking Panel) may be the result of damage from forklift handling, decay or chemical attack. Decking Panels with gouges or depressions should be immediately removed from service and inspected before reuse.
- \* **Splitting or Cracking.** Splits or cracks are separations that extend through the Decking Panel from one face to another. Decking Panels with end splits should be removed from service.

## 9.1 Daily Inspection

### DAILY SAFETY INSPECTION



#### Warning

#### 8) Inspecting Decking and Preventing Damage (Cont'd)

Common types of damage to Decking Panels (cont'd):

- \* **Delamination.** Delamination is a split that separates wood layers on the edge of a Decking Panel. Delamination can be caused by overloading, mechanical damage, decay or chemical attack. Delaminating layers that migrate diagonally across adjacent veneers may have been caused by overloading. Delaminating layers caused by overloading are likely to be accompanied by face breaks. Decking Panels with delaminating layers should be removed from service.
- \* **Discoloration.** Discoloration might indicate exposure to decay, high temperatures or chemical attack. Decking Panels that are entirely or partially discolored should be removed from service until the cause of the discoloration has been determined to be harmless.
- \* **Other.** Soft or crumbly wood might indicate chemical attack or decay. Odd odor might also indicate chemical attack. Decking Panels that have soft or crumbly areas on them should be removed from service until the cause has been determined to be harmless. (Continued)

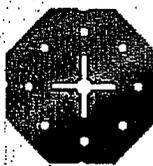
#### Preventing Damage to Decking Panels

**Impact loads.** Decking Panels can be damaged if objects are dropped or thrown onto the platform. Decking Panels that have been damaged by objects dropped or thrown onto the platform should be removed from service and evaluated before reuse.

**Improper handling.** Decking Panels can be damaged if dropped or thrown from the platform. Remove and store Decking Panels in an orderly manner. Corner protection should be used when moving bundles. Do not dump Decking Panels from trucks. Do not push bundles of Decking Panels with the ends of fork lift forks. Decking Panels that have been damaged by improper handling should be immediately removed from service and evaluated before reuse.

**Decay.** Decay of Decking Panels can significantly reduce load carrying capacity. To prevent wood decay, and subsequent loss of load carrying capacity, keep Decking Panels dry and allow wet Decking Panels to dry quickly by providing adequate air circulation. Refer to Proper Storage of Decking Panels.

**Improper storage.** Decking Panels that are improperly stored are subject to biological and chemical attack and mechanical damage. Decking Panels that have been damaged through improper storage should be carefully evaluated before use. Refer to Proper Storage of Decking Panels.



## 9.0 Platform Inspection and Maintenance

### 9.1 Daily Inspection

#### DAILY SAFETY INSPECTION



#### Warning

#### 8) Inspecting Decking and Preventing Damage (Cont'd)

##### Preventing Damage to Decking Panels (Cont'd)

**Overloading.** If Decking Panels deflect significantly, or make cracking noises as load is being applied, they are being overloaded. Heavy materials should never be stored for long periods on Decking Panels. Decking Panels that have been overloaded should be immediately removed from service and inspected before reuse. Refer to Inspection of Decking Panels.

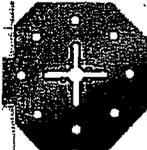
**Misuse.** Decking Panels should never be used for loading ramps, walkways, etc. or anything other than use as Decking Panels for the QuikDeck™ Platform System. Improper use of Decking Panels may cause damage to Decking Panels. Decking Panels that have been misused should be immediately removed from service and inspected before reuse. (Continued)

**Improper Reinforcement of Decking Panels.** Consult the latest revision of the QuikDeck™ Platform System Safety and Operations Manual when Decking Panels must be cut to fit around an obstruction. Provide additional support in the area as detailed in the QuikDeck™ Platform System Safety and Operations Manual.

**Jumping.** Never jump or bounce on Decking Panels.

**Chemicals.** Wood is susceptible to chemical attack. Obtain Material Safety Data Sheets (MSDS) for any chemicals being used on a job that are likely to come in contact with Decking Panels and determine if there is risk of degradation of Decking Panels. Decking Panels contaminated with hazardous chemicals should be immediately removed from service and evaluated before reuse.

**Heat.** Decking Panels can suffer permanent loss of strength under prolonged exposures to temperatures above 150° F (65 C). Decking Panels should not be exposed to temperatures that exceed 150° F (65 C). Decking Panels that have been subjected to high temperatures should be immediately removed from service and inspected before reuse.



### 9.1 Daily Inspection

#### DAILY SAFETY INSPECTION



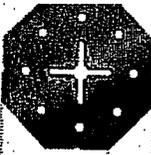
#### Warning

#### 8) Inspecting Decking and Preventing Damage (Cont'd)

##### Preventing Damage to Decking Panels (Cont'd)

**Proper Storage of Decking Panels.** Proper storage and handling of wood Decking Panels will prevent unnecessary damage, decay and reduction of service life. To prevent decay and to ensure structural integrity and long service life of Decking Panels, store Decking Panels in a manner that minimizes moisture and ensures proper air circulation. Do not store Decking Panels in contact with the ground and always separate Decking Panels with stickers to provide air circulation between Decking Panels.

**Properly sticker and store neat bundles of Decking Panels on a level surface and protected from weather.** Place bundles of Decking Panels under a roof or cover with material or in a manner such that water does not come in contact with the Decking Panels. Provide adequate air circulation and drainage to ensure water, moisture and condensation can escape. Bundles of Decking Panels should be supported on stickers spaced no more than 6 ft (1.8 m) on-center. Stickers should line up vertically to provide access for forklift forks. Banding should be in-line with stickers. Banding that is misaligned with stickers or banding that is overly tensioned can cause bowed or damaged Decking Panels.



## 9.0 Platform Inspection and Maintenance

### 9.2 Weekly Inspection

#### WEEKLY INSPECTION



#### Warning

**1) Inspect platform and components for damage or excessive deflection.**

Damage or excessive deflection is a clear sign of platform overloading. Inspect all Nodes, Joists and Beam Clamp Tubes for deformation of holes, bending or excessive deflection. If excessive deflection is observed, immediately evacuate the platform and secure area under platform in case of platform failure. Remove load from platform and inspect platform, suspension components and supporting structural members for damage. Replace with Beeche Systems Corp. supplied components as required.



#### Warning

**2) Inspect components for Corrosion and Decay.**

Check all structural components, pins and fasteners for evidence of corrosion and Nodes, Joists and Beam Clamp Tubes for deformation of holes, bending or excessive deflection. If excessive deflection is observed, immediately evacuate the platform and secure area under platform in case of platform failure. Remove load from platform and inspect platform, suspension components and supporting structural members for damage. Replace with Beeche Systems Corp. supplied components as required.



#### Warning

**3) Inspect components for damage to finish**

Check for chipped or damaged galvanizing, paint or other surface coatings. Repair finish with zinc rich paint as soon as possible to prevent further corrosion.

### 9.3 Replacing Damaged Components

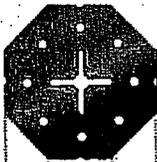
#### REPLACING DAMAGED COMPONENTS



#### Warning

Perform the following steps if a damaged component is identified during routine inspections:

- 1) Immediately report damaged component to your supervisor.
- 2) Evacuate the platform if danger of platform failure exists.
- 3) Secure area under platform if danger of platform failure exists.
- 4) Remove all materials from area around damaged component.
- 5) Personnel assigned to replace the suspect component(s) must be tied-off to execute component replacement.
- 6) Replace the damaged components with Beeche Systems Corp. supplied components.
- 7) Discard damaged component(s) - DO NOT attempt to repair damaged component(s).
- 8) Determine cause of the damage to component.
- 9) Develop and implement corrective action to prevent future incidents.
- 10) Contact Beeche Systems Corp. if component was replaced due to component defect.



# 9.0 Platform Inspection and Maintenance

## 9.4 Safety Inspection Sign Off Calendar

### Field Safety Inspection Sign Off Calendar

Company: \_\_\_\_\_

Project Number: \_\_\_\_\_ Project Name: \_\_\_\_\_

Month: \_\_\_\_\_

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Insp. Type: By:						
Insp. Type: By:						
Insp. Type: By:						
Insp. Type: By:						
Insp. Type: By:						





## Load Placards:

**25 psf** (1.2 kN/m<sup>2</sup>) (see pages 151-152)

**50 psf** (2.4 kN/m<sup>2</sup>) (see pages 153-154)

**75 psf** (3.6 kN/m<sup>2</sup>) (see pages 155-156)

Platform load signage is required on all suspended scaffolds.

For your convenience, Load Placards for the QuikDeck™ Platform System's three standard ratings are provided over the next six pages. Copy and laminate the Placard that correlates with the specific rating for your job.

Please consult Beeche Systems Corp. if your installation deviates from these standards.

Load Placards should be displayed at all platform entry locations and elsewhere on the platform, in sufficient quantity determined by the contractor, so personnel can quickly determine platform load capacity.

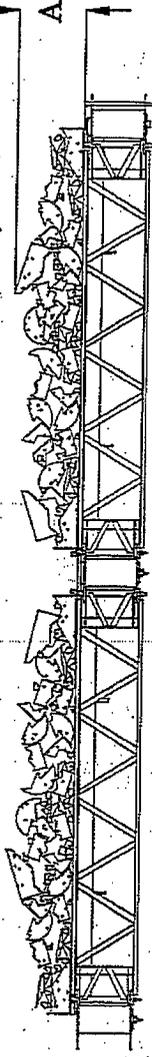
When photocopying Load Placards from this manual, use both load signs specific to your PSF (kN/m<sup>2</sup>) requirements in a front-to-back orientation, creating a single placard for lamination. One side of the placard states the Load Rating in PSF (kN/m<sup>2</sup>) and the other side gives specific examples of maximum loading allowed.

# LOAD CAPACITY MULTI-POINT SCAFFOLD

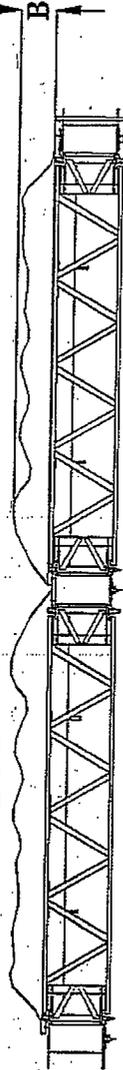
**25 PSF  
(1.2 kN/m<sup>2</sup>)**

Maximum Allowable Material Loading		PLATFORM CONFIGURATION	
Concentrated load acts on a 4 ft <sup>2</sup> (.37 m <sup>2</sup> ) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ Module. Load must be a minimum 4 ft (1.2 m) apart.			
DRAWING REF.	25 psf (1.2 kN/m <sup>2</sup> )	50 psf (2.4 kN/m <sup>2</sup> )	75 psf (3.6 kN/m <sup>2</sup> )
A	16 ft X 16 ft (4.9 m X 4.9 m)	8 ft X 16 ft (2.4 m X 4.9 m)	8 ft X 8 ft (2.4 m X 2.4 m)
B	3 in. Max (76 mm Max)	7 in. Max (177 mm Max)	10 in. Max (254 mm Max)
C*	1 in. Max (25 mm Max)	2 in. Max (50 mm Max)	3 in. Max (76 mm Max)
D*	0	1	1
E*	8 Sheets	16 Sheets	27 Sheets
F*	4 in. (101 mm)	8 in. (203 mm)	12 in. (304 mm)

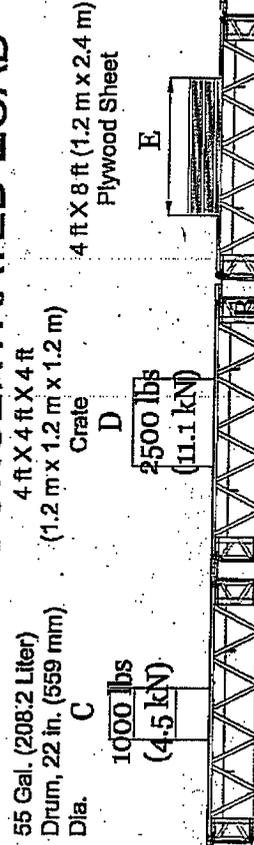
CONCRETE DEBRIS



GRIT



CONCENTRATED LOAD



\* No additional loads permitted

**Danger**

Failure to adhere to these Load Capacity Requirements will result in property damage, severe injury or death.

All personnel working on the QuikDeck™ Platform System must be familiar with scaffold equipment and regulations (OSHA subpart 'L' "Scaffolds" in CFR 29 part 1926) and must complete the QuikDeck™ Training Class and pass the QuikDeck™ Exam.

For additional information please consult your copy of the QuikDeck™ Platform System Safety and Operations Manual.

If you have any questions regarding the QuikDeck™ Platform System please contact Beeche Systems Corp. at 1-800-582-9391 or at [www.quikdeck.com](http://www.quikdeck.com)

**PLATFORM LOAD RATING**

**25 PSF**

**(1.2 kN/m<sup>2</sup>)**

**SEE OTHER SIDE FOR  
DETAILS ON PLATFORM LOAD**

# LOAD CAPACITY MULTI-POINT SCAFFOLD

**50 PSF  
(2.4 kN/m<sup>2</sup>)**

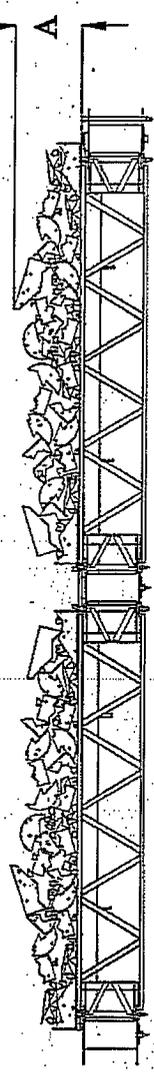
Maximum Allowable Material Loading	
Concentrated load acts on a 4 ft <sup>2</sup> (.37 m <sup>2</sup> ) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ Module. Load must be a minimum 4 ft (1.2 m) apart.	
DRAWING REF.	PLATFORM CONFIGURATION
A	25 psf (1.2 kN/m <sup>2</sup> ) 16 ft X 16 ft (4.9 m x 4.9 m) 3 in. Max (76 mm Max) 1 in. Max (25 mm Max) 1 0 8 Sheets 4 in. (101 mm)
B	50 psf (2.4 kN/m <sup>2</sup> ) 8 ft X 16 ft (2.4 m x 4.9 m) 7 in. Max (177 mm Max) 2 in. Max (50 mm Max) 2 1 16 Sheets 8 in. (203 mm)
C*	75 psf (3.6 kN/m <sup>2</sup> ) 8 ft X 8 ft (2.4 m x 2.4 m) 10 in. Max (254 mm Max) 3 in. Max (76 mm Max) 4 1 27 Sheets 12 in. (304 mm)
D*	
E*	
F*	

**\* No additional loads permitted**

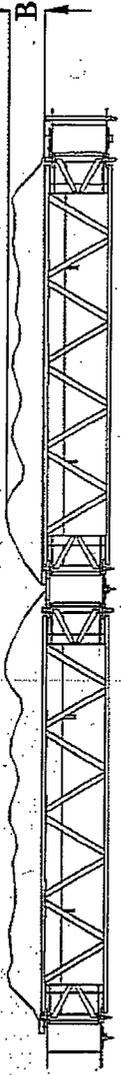
**Danger**

Failure to adhere to these Load Capacity Requirements will result in property damage, severe injury or death.

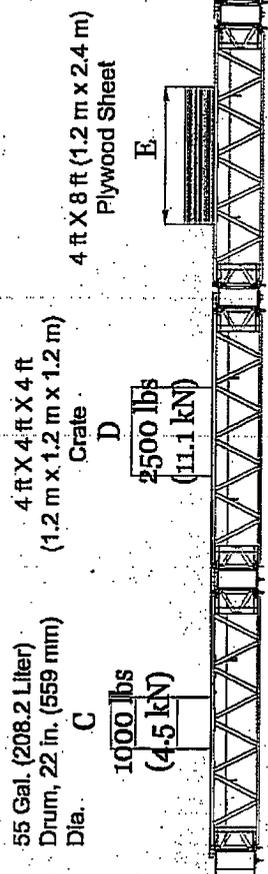
**CONCRETE DEBRIS**



**GRIT**



**CONCENTRATED LOAD**



All personnel working on the QuikDeck™ Platform System must be familiar with scaffold equipment and regulations (OSHA subpart L "Scaffolds" in CFR 29 part 1926) and must complete the QuikDeck™ Training Class and pass the QuikDeck™ Exam.

For additional information please consult your copy of the QuikDeck™ Platform System Safety and Operations Manual.

If you have any questions regarding the QuikDeck™ Platform System please contact Beeche Systems Corp. at 1-800-582-9391 or at [www.quickdeck.com](http://www.quickdeck.com)

**PLATFORM LOAD RATING**

**50 PSF**

**(2.4 kN/m<sup>2</sup>)**

**SEE OTHER SIDE FOR  
DETAILS ON PLATFORM LOAD  
CAPACITIES.**

# LOAD CAPACITY MULTI-POINT SCAFFOLD

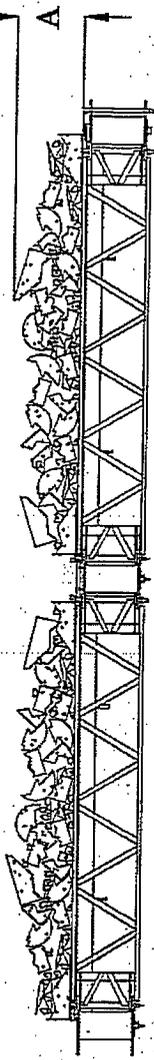
**75 PSF  
(3.6 kN/m<sup>2</sup>)**

## Maximum Allowable Material Loading

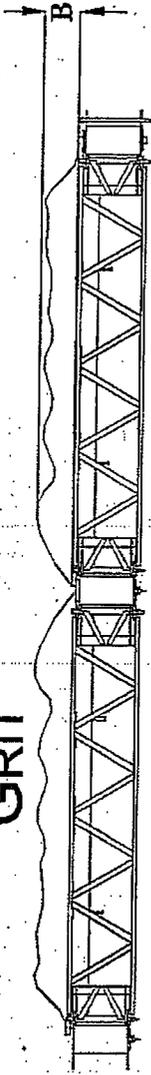
Concentrated load acts on a 4 ft<sup>2</sup> (37 m<sup>2</sup>) area. One load per 8 ft x 8 ft (2.4 m x 2.4 m) QuikDeck™ Module. Load must be a minimum 4 ft (1.2 m) apart.

DRAWING REF.	PLATFORM CONFIGURATION		75 psf (3.6 kN/m <sup>2</sup> ) 8 ft X 8 ft (2.4 m X 2.4 m)
	25 psf (1.2 kN/m <sup>2</sup> ) 16 ft X 16 ft (4.9 m X 4.9 m)	50 psf (2.4 kN/m <sup>2</sup> ) 8 ft X 16 ft (2.4 m X 4.9 m)	
A	3 in. Max (76 mm Max)	7 in. Max (177 mm Max)	10 in. Max (254 mm Max)
B	1 in. Max (25 mm Max)	2 in. Max (50 mm Max)	3 in. Max (76 mm Max)
C*	1	2	4
D*	0	1	1
E*	8 Sheets	16 Sheets	27 Sheets
F*	4 in. (101 mm)	8 in. (203 mm)	12 in. (304 mm)

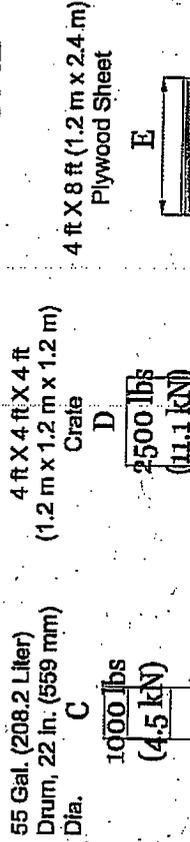
CONCRETE DEBRIS



GRIT



CONCENTRATED LOAD



\* No additional loads permitted

**Danger**

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All personnel working on the QuikDeck™ Platform System must be familiar with scaffold equipment and regulations (OSHA subpart L, "Scaffolds" in CFR 29 part 1926) and must complete the QuikDeck™ Training Class and pass the QuikDeck™ Exam.

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**PLATFORM LOAD RATING**

**75 PSF**

**(3.6 kN/m<sup>2</sup>)**

**SEE OTHER SIDE FOR  
DETAILS ON PLATFORM LOAD**