OPERATORS MANUAL

EPU



PREMIER
Scaffold Solutions

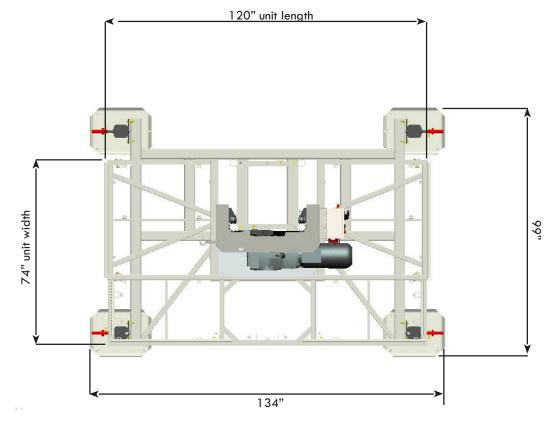
Quick Reference



Technical Specifications		
EPU	6' wide x 10' long	
Transport dimensions	134" x 99" x 102" including tower cap	
Max operating load	11,000 lbs.	
Maximum height	Up to 250' without PREMIER's authorization	
Free standing	NO FREESTANDING	
Travel speed	27' per minute	
Motor specs	480 VAC	
	60Hz	
	3 Phases	
Mast sections	28.5" x 28.5" x 60"	

Description	Weight in lbs
EPU	6,000
2' Bridge with accessories	375
4' Bridge with accessories	450
2' Guard Rail	25
4' Guard Rail	35
End Guard Rail	38
Mason Guard Rail	35
5' Outrigger	20
Tower	365
Pro Bar	10

Basic Dimensions



Operators Manual Revisions
Revisions of this manual are posted on our website: www.premierscaffoldsolutions.com

Congratulations!

You have made a solid investment in the EPU product and PREMIER Scaffold Solutions (PREMIER). The EPU will ensure safety on the jobsite and increase your overall performance. PREMIER looks forward to offering you the best customer support in the scaffold industry.

As advocates of a safe and prosperous work environment, PREMIER advises that you read and understand the information presented in this owners manual for the EPU. Additionally, the law requires that you be familiar and abide by ANSI/SIA A92.9-2011 standards for mast-climbing work platforms.

PREMIER encourages you to share this information with all personnel involved with the use and operation of your EPU(s). Failure to share this information could result in serious personal injury and/or equipment damage.

All federal and state safety and health standards must be followed, including OSHA 29 CFR 1926 subpart L (1926. 450 to 1926.454) for scaffolds.

PREMIER cannot be held responsible for users failing to comply with any and/or all federal, state, and local regulations. PREMIER reserves the right to make changes to the equipment or manual without notice. Further questions may be directed to PREMIER.

Acknowledgements:

This manual was produced by PREMIER Scaffold Solutions in 2015.

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Created by:

PREMIER Scaffold Solutions Technical Staff

GEN	NE	RAL
INFO	RMA	NOITA

Model	41001002
Description	EPU
Serial number	
Purchase date	
Warranty expiration date	
•	

WARRANTY & LIMITATIONS

PREMIER warrants new products to be free from defects in material and workmanship for a period of one (1) year, following the date of delivery to the first purchaser. PREMIER's obligation and liability under this warranty is expressly limited to repairing and/or replacing, at PREMIER's discretion, remanufactured or new parts which appear to PREMIER, upon inspection, to have been defective in material or workmanship. Such parts shall be provided at no cost to the user, F.O.B. PREMIER's facilities or other source at PREMIER's option.

PREMIER shall assume the cost to install any repaired or replacement part provided under this warranty to the extent established by the applicable service policy in effect at the time of delivery. The cost of any such work will only be paid by PREMIER if a written authorization has been granted prior to commencement of work.

This warranty does not apply to component parts or accessories of the products not manufactured by PREMIER, and as such, carries the warranty of the manufacturer thereof, or to normal maintenance (such as engine tune up) or to normal maintenance parts. PREMIER makes no other warranty, expressed or implied, and makes no warranty of merchantability or fitness for any particular purpose.

PREMIER's obligation under this warranty shall not include duty, taxes or any other charges whatsoever, or any liability for direct, indirect, incidental or consequential damage or delay. Products or parts for which a warranty claim is made must be returned prepaid by sender to the designated location. Any improper use, including operation after discovery of defective or worn parts, shall void this warranty. Improper use also includes operation beyond rated operating loads, substitution of parts not approved by PREMIER, including anchors, or any alteration, modification or repair by others, and shall automatically void this warranty.

The above warranty may not be altered without the written authorization of PREMIER.

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CHAPTER 1 INTRODUCTION

- Safety Instructions
- Identification Plate
- Overview
- Technical Specifications
- Troubleshooting
- Daily/Weekly Inspection Sheet
- Monthly/Yearly Inspection Sheet





Safety Comes First!

For your personal safety, always have a competent person and back-up competent person assemble, operate, disassemble and move the EPU.

Performance and Safety Rules:

- 1. Prepare a plan showing how the EPU(s), bridges, extensions and hoists will be positioned near structures or walls to be erected. On long walls, separate EPUs to allow for flexibility. Position EPUs to provide proper anchoring points for towers.
- 2. Establish distance between the EPU and the structure or wall, taking into account the length of the plank outriggers, as well as curvatures, balconies, columns, trees, telephone wires, electrical lines or anything else that could be in the way.
- 3. Refer to regulations governing distances between the EPUs and all utilities (under or above ground and existing or planned). For clarification and directions, contact job site management.
- 4. For your personal safety, make sure the ground or support surface capacity meets with the static load charts herein. Soil compacting, cribbing or shoring can increase bearing capacity. Contact a licensed engineer for assistance.
- 5. On difficult jobs, never modify the EPU or substitute factory parts. This could adversely affect safety, performance and void the warranty. In addition, this could lead to serious injury.
- 6. Rely on a licensed engineer to help on special jobs and to approve plans if required in your area.
- 7. Maintain correct equipment and parts inventory on the job site to work efficiently. Keep equipment in good condition and refer to the maintenance checklist.
- 8. After installation, mark the "off-limit" areas of the EPU using fencing, barriers and warning tape, and note the emergency phone numbers (fire and police) for quick reference. Have an emergency evacuation plan ready to execute in case of need.
- 9. Never load the bridges or EPUs beyond their rated load. Overloading may cause EPUs to bind and bridges to fail, causing serious injury or death.
- 10. Contact your distributor or factory for service, repair or technical advice. Refer to equipment type and serial numbers when calling.
- 11. Use the appropriate fall protection equipment when climbing/descending the tower, modifying planking, or working with the hoist.
- 12. Always wear required safety equipment when working on the EPU.

IDENTIFICATION PLATE

The identification plate is located on the side of drive unit, opposite the control box.



OVERVIEW

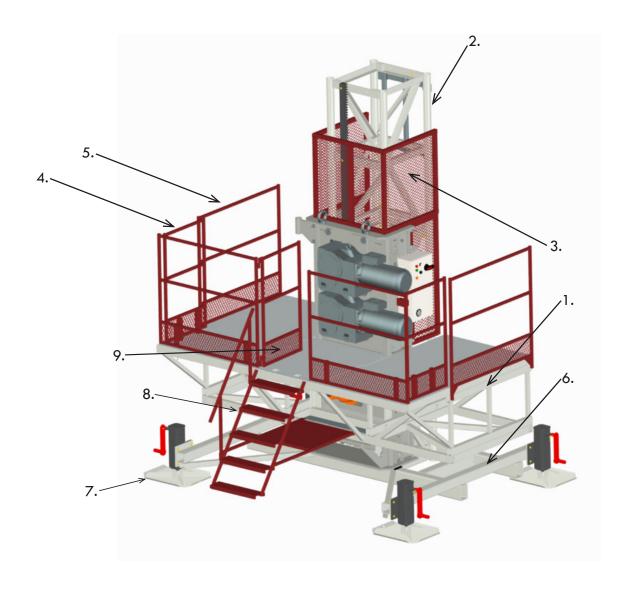


Diagram No.	Part No.	Qty.	Description
1	41001003	1	Power Unit Platform
2	41009002	1	28.5" x 28.5" x 5' Tower
3	41006007	2	Tower Guard
4	40606200	2	2' Guardrail
5	40606400	4	4' Guardrail
6	41002001	1	Base
7	41002020	4	Support Jack
8	41006005	1	Access Stairs
9	41006002	2	Access Door

MAINTENANCE

Daily Maintenance	Date	Operator
Check and maintain perimeter boundaries		
Check for stable ground condition where EPU is positioned		
Check if base is level; adjust if necessary		
Check mast is level and properly aligned		
Check and clear walkway		
Check guard rails and door for proper installation/operation		
Check rack and pinions are properly aligned		
Check rollers and properly aligned and no excessive wear		
Check that planking is properly placed, overlapped and secure		
Check and secure outriggers		
Clean off excess work debris from critical components		
Weekly Maintenance	Date	Operator
Perform Daily Maintenance as well as the following requirements:		
Check for wear on cords and connections		
Check structure for any damage or distortion		
Check mast bolts for tightness		
Check mast bolt washers and replace if bent		
Check pinions are free of debris		

MAINTENANCE

Operator

CHAPTER 2 TRANSPORTATION

- General Information
- Transportation



GENERAL INFORMATION

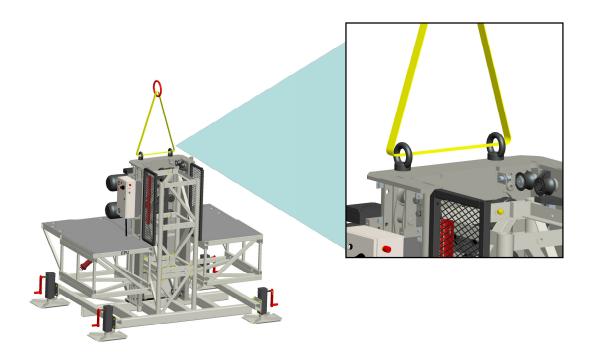
Before Moving the EPU

- 1. All outriggers must be in the closed position and securely locked in place.
- 2. No outside connections of any kind to the unit.
- 3. Remove all guard rails and components which can interfere with chains or slings.

Handling/Loading Equipment

Pick points for safe handling of the equipment.

Chains / Sling



TRANSPORTATION OPTIONS

- 1. A semi with a flat bed trailer
- 2. A semi with a drop deck trailer
- 3. A pick-up with a standard trailer, or 5th wheel trailer
 - *Trailer deck height cannot exceed 5'
 - *Never attempt to lift more than one unit at a time; never attempt to stack units.

Flat Bed



Drop Deck

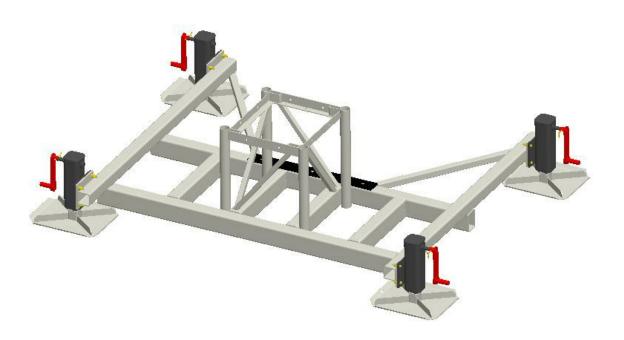


5th Wheel



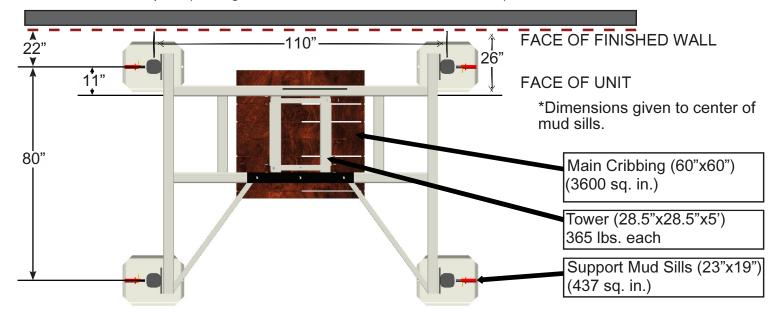
CHAPTER 3 POSITIONING & LEVELING

- Static Load Chart
- Positioning/Leveling



STATIC LOAD CHART

The illustration below shows how the EPU weight of 6,000 lbs. and operating load of 11,000 lbs. are transferred to the ground through the four load bearing mud sills. The total square inches of all four mud sills is 1,908 sq. in. (see figure below for individual mud sill sizes).



Mud Sill Load Distribution is as Follows:

All calculations use the EPU weight of 6,000 lbs. and a load of 11,000 lbs. = 17,000 lbs. Above 15' the towers are tied to a structure and the load is transferred primarily through the towers to the main cribbing.

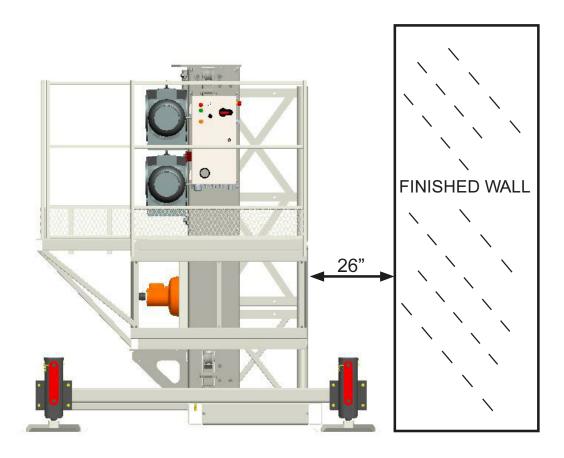
For example:

- Add .1 lbs./sq. in. to the mud sill, where a 5' tower is added.
- Main cribbing starts at 4.75 lbs./sq. in. + .1 lbs./sq. in. = 4.85 lbs./sq. in.

Setup Height (ft.)	Reaction (lbs.)	Pressure (psi.)
25	18,460	5.15
50	20,285	5.65
75	22,110	6.15
100	23,935	6.65
125	25,760	7.15
150	27,585	7.65
200	31,235	8.65
250	34,885	9.65

POSITIONING/LEVELING

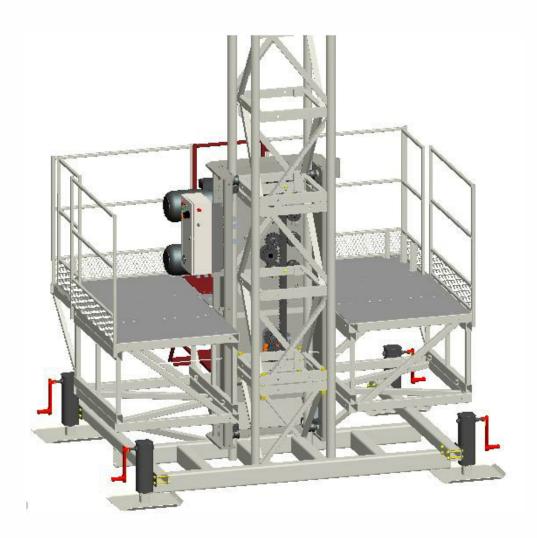
- Determine the location of the mud sills on the EPU in relation to the wall.
- Ensure the ground is firm and stable before positioning the EPU. Refer to the static load chart on page 13 to assist with this.
- Level and clean the area under the mud sills to an even compact surface.
- If your set up is higher than 250', you will need authorization and support from PREMIER.
- Use a forklift or crane to place the EPU into position.
- PREMIER recommends that you lower the main and support jacks 4" before setting the EPU into place.
- Set the face of the EPU in place, parallel 26" from the finished wall. This allows for a two plank set up.
 See graphic below.
- Level the EPU base using the adjustable jacks. Use a level on the front of the tower to check for plumb.



Face of the unit is 26" from the face of the finished

CHAPTER 4 SETTING UP THE EPU

- Guard Rail & Outriggers
- Tower Installation



GUARD RAIL & OUTRIGGERS

General Warnings for Planks

Plank overlap is subject to rules and regulations and must be closely followed. Planks **should** exceed the last outrigger; PREMIER recommends a 12" overlap. Never stand on any unsupported plank and ensure all open ends are securely blocked off.

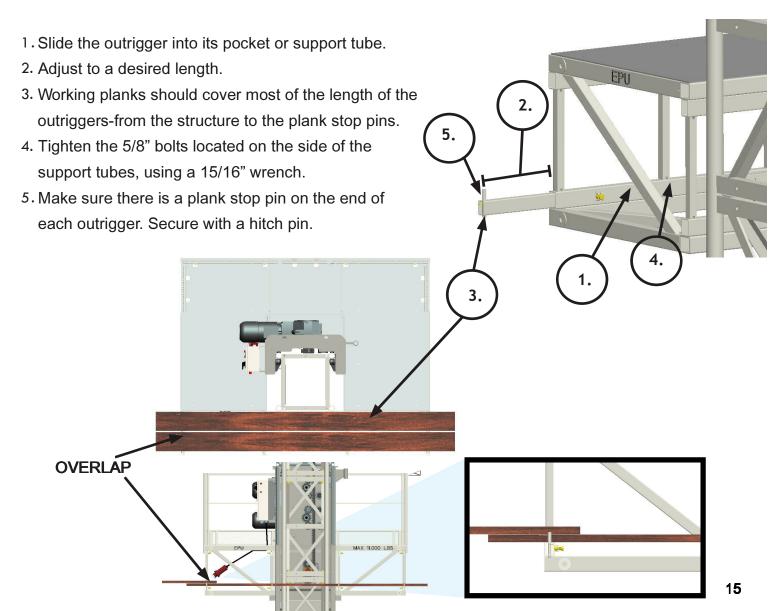
Outriggers

The EPU offers ergonomically and safe work options with the lower outrigger planks being used for standing while the top outrigger planks, or the EPU itself, being used for materials. In turn, the risk of back injury is minimized while production increases.

PREMIER offers a standard outrigger: 5'. Other outrigger lengths are also available for special applications, contact PREMIER's technical team for assistance.

Outriggers offer a plank layout which will not interfere with the wall tie systems.

Overlapping planks in front of the towers allow for easy movement of planks while the EPU is moving.



GUARDRAIL & OUTRIGGERS

Installing the Guard Rail

PREMIER offers 4 types of guard rails to provide for a safe, efficient and approved work area on the EPU.

- 1. Standard 2', 4' guard rail
- 2. End guard rail
- 3. Mason guard rail
- 4. Outrigger guard rail adaptor

Standard 2', 4'Guard Rail

- The standard 4' guard rail is the most commonly used and fits most positions on the unit, bridges and extensions.
- The 2' guard rail works on the 2' bridge.





End Guard Rail

Can be placed on the end of a unit or any



GUARD RAIL & OUTRIGGERS

Mason Guard Rail

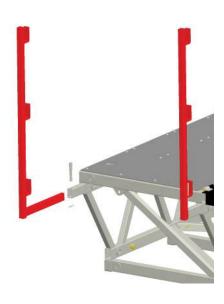
- Use the mason guard rail to block ends of the set up when working on planks.
- Install the mason guard rail over all working planks at each end of the set up. Planks **should** exceed the mason guard rail by 6".
- Secure in place with at least two nails.



Outrigger/Guard Rail Adaptor

The outrigger guard rail adaptor is used when the mason walk board area is exposed to large openings in the building face or exceeds the end of the wall.

- The guard rail adaptor is placed inside of the outrigger.
- It is locked in place with the plank stop pin.
- Any standard guard rail can be placed on the hooks.





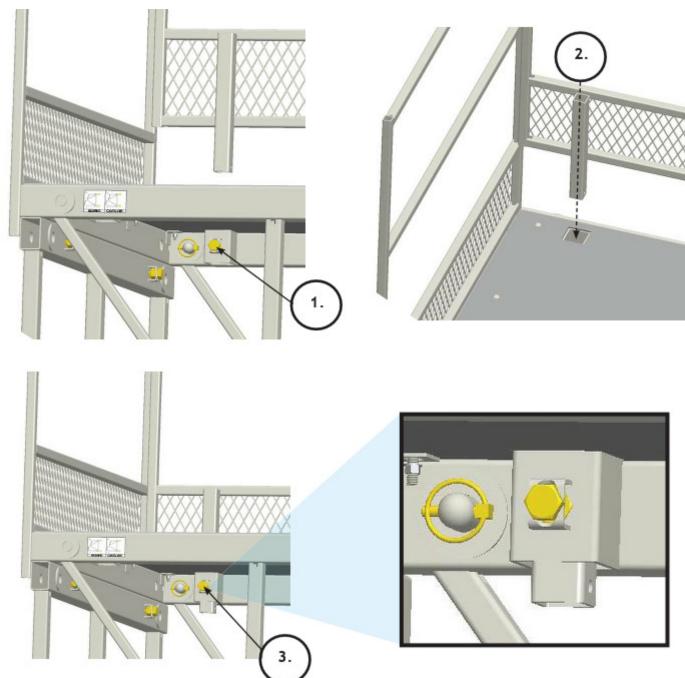
GUARD RAIL & OUTRIGGERS

Securing the Guard Rail

Each guard rail has two clevis pins to secure them in place.

To install and secure:

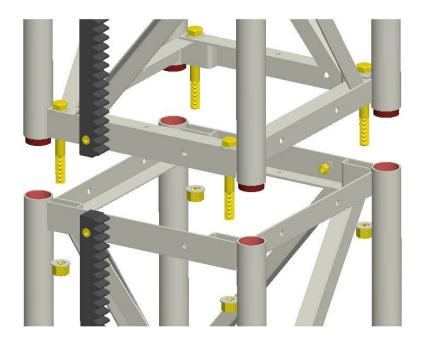
- 1. Loosen screw before installation.
- 2. Place post into pocket.
- 3. Tighten screw to secure.



TOWER INSTALLATION

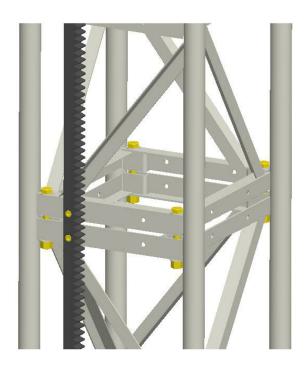
Tower Installation Procedures

- 1. Install each 5' tower, making sure racks line up with subsequent tower.
- 2. Slide the 5/8 x 6 1/2" toggle bolt, washer and nut onto the connecting lug and hand
- 3. tighten. Torque all toggle bolts to 120 ft lbs in a diagonal pattern from corner to
- 4. corner.
- 5. Raise the EPU, repeat steps 1, 2 and 3.



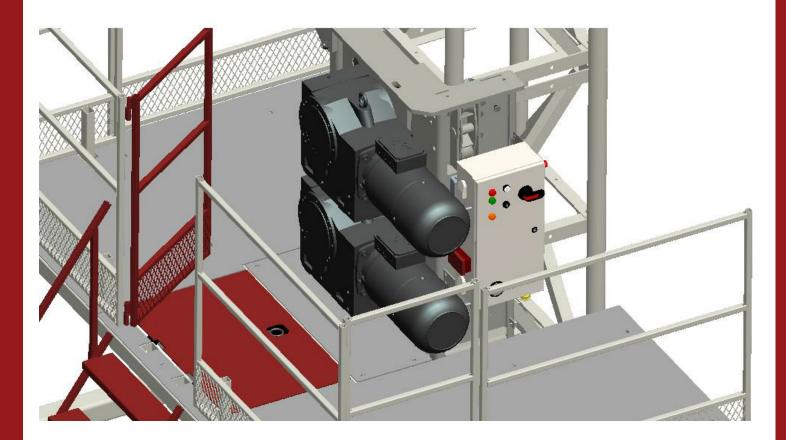
Tower Removal & Transport

- 1. To remove one tower, loosen the toggle bolt assembly and disengage from connecting lug on all 4 corners.
- 2. Place the removed tower near the doorway.
- 3. Store towers on a flat surface away from construction traffic.



CHAPTER 5 OPERATOR INSTRUCTIONS

- Starting & Stopping the
- · Motors Raising & Lowering
- the EPU Loading the EPU



STARTING & STOPPING

THE PLATFORM

Starting & Stopping the Motor

- 1. Connect power supply and secure away from mast.
- 2. Release emergency stop.
- 3. Flip the main circuit breaker on front of control box.
- 4. Green light indicates unit is ready to operate.

2. (6.) MAX 11,000 LBS EPU

RAISING & LOWERING

THE EPU

Important Information

The EPU is equipped with a limit switch at the top and bottom. The limit switch will disable the movement to prevent potential damage to the EPU.

NOTE: The override switch on the side of the control box can be used to bypass floor stops when applicable.





LOADING THE EPU

To fully appreciate the EPU, loads must be distributed evenly over the entire EPU. Keep materials towards the front of the unit and bridges to allow for passage along the backside of the EPU. This minimizes torque on the towers and provides a safe passage for workers and brick carts.

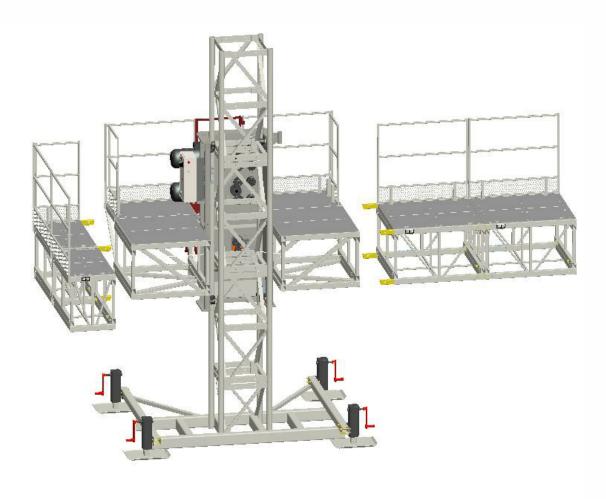
Refer to bridge section of this manual for bridge and extension load charts for guidance. The mast material load should be placed near the center of the unit, close to the tower. The next loads should be placed alternatively, left and right, ensuring loads remain balanced.



CHAPTER 6

BRIDGES & EXTENSIONS

- Bridges
- Application
- Connecting
- Cantilever bridge
- Extension bridge
- Load chart



BRIDGES

2'BRIDGE	
DIMENSIONS 4' X 2'	
WEIGHT	375 lbs w/standard accessories
GUARD RAILS	One 2' Standard guard rail
PRO BARS	Four on one end only (2 top)(2Bottom)
PRO BAR PINS & CLIPS	8 - located on both sides of the bridge
OUTRIGGERS	One 5' (Bottom)



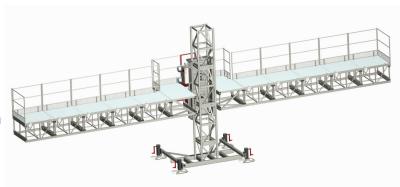
	4'BRIDGE
DIMENSIONS	4' x 4'
WEIGHT	450 lbs w/standard accessories
GUARD RAILS	One - 4' Standard guard rail
PRO BARS	Four on one end only (2 top) (2 Bottom)
PRO BAR PINS & CLIPS	8 - located on both sides of the bridge
OUTRIGGERS	One 5' (Bottom)



APPLICATIONS

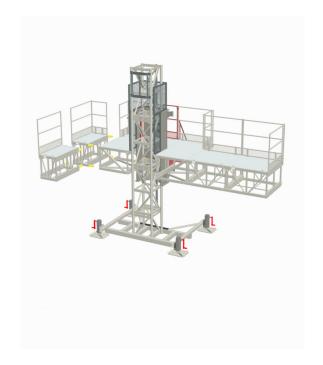
Cantilever Mode

Cantilever bridges are directly connected to the EPU using the Pro Bar System. Any combination of 2' or 4' bridges can be used for a cantilever set up. The maximum cantilever length is 20' on each side of the EPU.



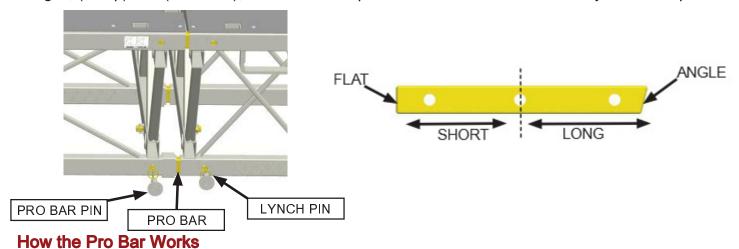
Extension Mode

Extension bridges are created by alternatively placing 2' Bridges to the end, front or back of the



CONNECTING

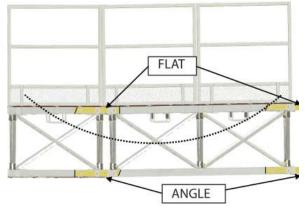
The Pro Bar System consists of a Pro Bar, Pro Bar Pin and Lynch Pin Clip and is used to connect most of PREMIER'S components and accessories. Pro Bars are stored only in one end of any of the bridges, (2 Top) and (2 Bottom), and are held in place with the Pro Bar Pins and Lynch Pin Clips.



NOTE: Only two holes are used at any given time. The CENTER hole is ALWAYS used.

Cantilever Bridge

- The object of the cantilever bridge is to slightly elevate the end of each bridge with every connection.
- This is accomplished by using the center hole and the flat side of the pro bar on the top pockets of the bridge, creating a smaller gap between bridges at the top.
- Using the center hole and the angle side of the pro bar on the bottom pockets of the bridge will create a larger gap between the bridges at the bottom.
- This causes the end of the cantilever bridge to be higher than the EPU and will return to a flat condition as material is loaded.



CANTILEVER BRIDGE

NEVER place hands or arms between bridges when connecting bridges.

- The maximum cantilever length is 20' on each side of the EPU.
- It is possible to install 20' of bridge in cantilever mode on one end of the EPU before installing the same on the opposite end.

Procedures

*PREMIER recommends that you assemble the bridges from left to right. Assembling cantilever bridges this

way, will ensure the installer knows that the flat end of the Pro Bar is inside the bridge on the right side. When disassembling the bearing bridge disassemble from left to right as well. This makes for easier disassembly at the

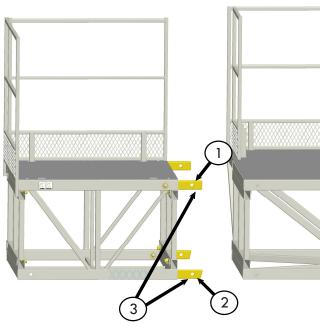
end of the job.

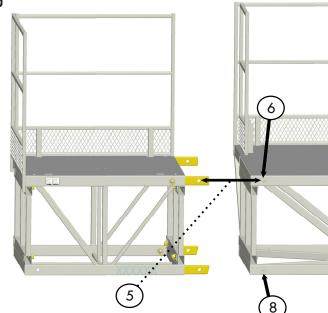
Building the Cantilever Bridge

- 1. Insert the angle side of the pro bar all the way into the top pockets of the bridge and secure the "center hole" of the pro bar in place with the pro bar pins.
- 2. Insert the flat side of the pro bar all the way into the bottom pockets of the bridge and secure the "center hole" of the pro bar in place with the pro bar pins.
- 3. This will leave the flat side of the pro bar exposed at the top and the angle side of the pro bar exposed at the bottom with one hole visible.

Attaching to a EPU or Bridge

- 4. Using slings through the frame, suspend the bridge from a fork lift or crane. Maneuver the bridge so the Pro Bars slide into the pockets.
- 5. Adjust the bridge until the Pro Bar hole lines up with the **top** holes of the EPU or bridge.
- 6. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.
- 7. Using a forklift or crane, adjust the end of the bridge up or down until the bottom connection holes align.
- 8. Insert Pro Bar pins through the bridge and Pro Bar holes securing them with lynch pins.





EXTENSION BRIDGE

Extension bridges are created by alternatively placing 2' Bridges as follows:

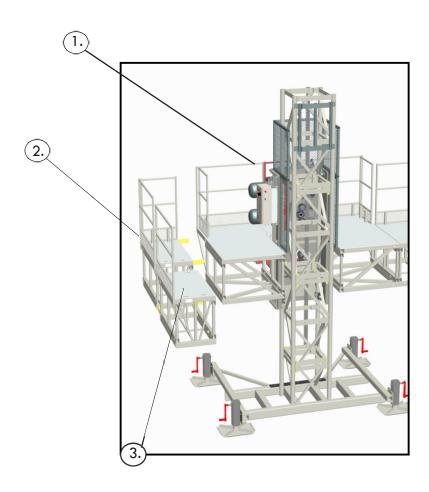
Assembly

NEVER place hands or arms between bridges when connecting bridges.

A) Extending from the end of the EPU:

- 1. Attach a 4' bridge to the end of a EPU. (See cantilever section)
- 2. Install two (2) Pro bars into the top outrigger pockets, using the angle side in first, and pin the center hole leaving the flat side exposed with 1 hole visible.
- 3. Install two (2) Pro bars into the bottom outrigger pockets, using the flat side in first, and pin the center hole leaving the angle side exposed with 1 hole visible.

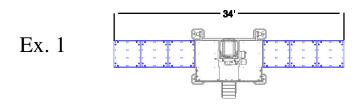
Continue to assemble the extension bridges as described until the maximum (2) forward extension and (1) for counter balance at the rear are assembled.



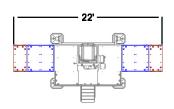
CANTILEVER MODE

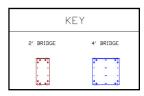
LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.



Ex. 2





Load Calculation:

To calculate the load rating on your setup, use the following calculation: Note: your setup may be different and load ratings will change based on configuration being used.

((Max. unit load - bridge weight)/total linear feet) x bridge length = load rating)

Using Example #2, the load rating will be calculated as follows:

Step 1: Calculate the max. unit load. In example #2 there is 1 EPU, so the max. unit load will be 11,000.

Step 2: Calculate the total bridge weight. Example #2 has (2) 2' bridges, (2) 4' bridges.

2' bridge: 2*375 = 750

4' bridge: 2*450 = 900

Total Bridge Weight = 1,650

Step 3: Calculate the length of the setup. Total linear feet in example #2

is 22. Now plug this information into the formula above.

((Max. unit load(11,000) - bridge weight(1,650) / total linear feet (18)) x bridge length = load rating)

Subtract 11,000-1,650=9,350. Divide 9,350 by 22 = 425

Now take 425 and multiply by a section length to figure a bridge load rating.

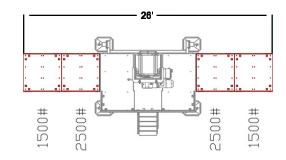
4 x 425 = 1,700

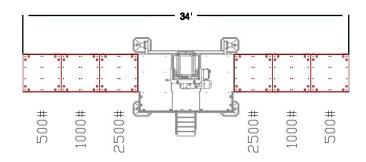
A 4' bridge in this example would have a load rating of 1,700.

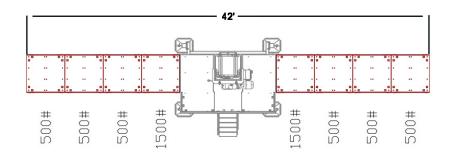
CANTILEVER MODE

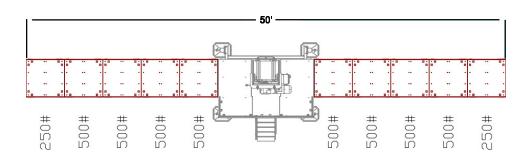
LOAD CHART

Examples of typical setups. Weight in pounds and rounded down for added safety.









CHAPTER 7 TYING THE PLATFORM

- Wall Tie Schedule
- Wall Tie Installation Procedures
- Anchors



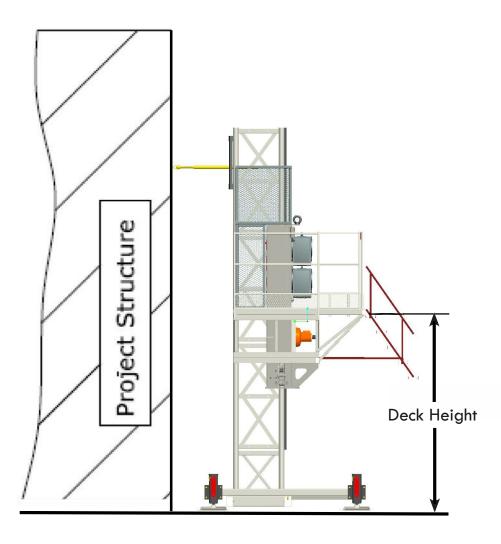
Wall Tie Schedule				
		Setup with weather protection,forward extension or 4 planks		
0-15'	Free Standing	Not Free Standing		
16'-250'	Every 20' (1)	Every 10' (2)		

- (1) The wall tie can be 30' if towers are pre installed to top of building.
- (2) The wall tie can be 20' if towers are pre installed to top of building.

WARNING!

Do not use the EPU when wind speed exceeds 35 miles/hour or when wind speed exceeds 20 miles/hour when using weather protection.

During pre installation or dismantle of wall ties all bridging must be disconnected. Wind speed must be below 28 miles/hour.



WALL TIE INSTALLATION PROCEDURES

Anchor installation

Before attaching masts to the building using the wall tie system, anchors must be connected on a solid component of the building structure. Concrete slabs, columns, steel beams, relief angles and other structural elements can be used given they can sustain 3000 lb. of tension/ compression and 1000 lb. of shear force.



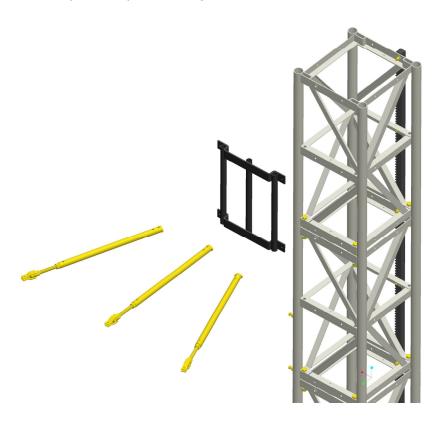


WARNING
Each anchor must be capable of withstanding 3000 lb (1360 kg) of tension / compression and 1000 lb (680 kg) of shear force.

WALL TIE INSTALLATION PROCEDURES

Wallmount installation

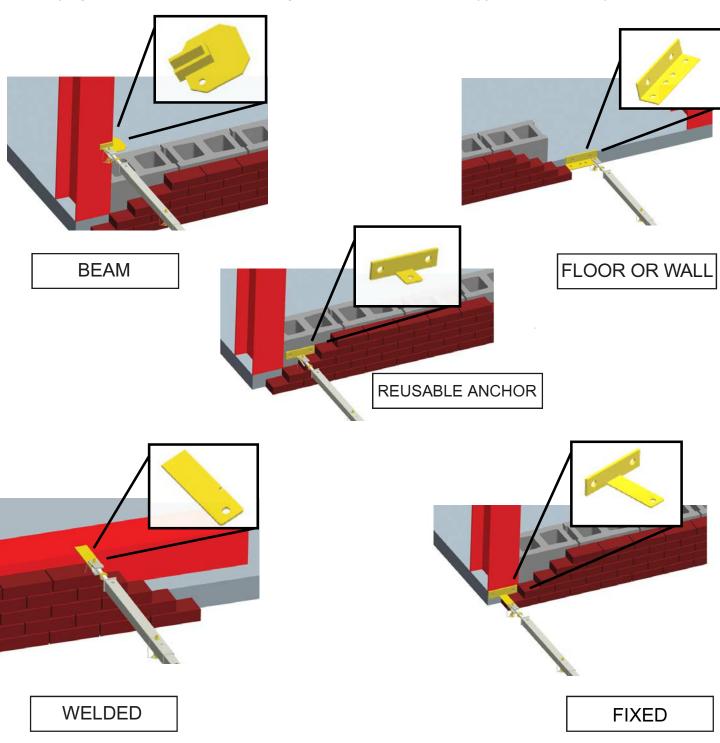
- 1. Align the wall tie bracket holes with the ones on the mast. Bolt the wall tie frame to the Mast using $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " bolts (4) and $\frac{1}{2}$ " nuts (4).
- 2. Choose the appropriate anchor. Each anchor must be capable of withstanding 3000 lb. Of tension/compression and 1000 lb of shear force.
- 3. Attach the anchor to the wall.
- 4. Using the wallmount pin, connect the wallmount to the anchor. The adjustment rod Must remain at least halfway inside the wallmount tube.
- 5. Attach a dual clamp to the vertical tube of the wall tie frame, tighten bolt.
- 6. Attach the wallmount to the dual clamp on the wall tie frame, tighten bolt.
- 7. For added strength, attach additional clamps on the wallmount in front and back of The dual clamp.
- 8. Move the adjustment rod until the mast is plumb on the front axis and the side axis.
- 9. Repeat steps 1 through 8 for each wallmount.



ANCHORS

Before attaching towers to the building using the wall tie system, it will be necessary to install anchors to a solid building structure. Concrete slabs, columns, steel beams, relief angles and other structural members can be used provided that a 3,000 lb tension/compression and 1,000 lb shear force can be applied. Use 1/2" x 6" fasteners

when tying the anchors to the building structure. There are 5 types of anchors you can use



CHAPTER 8 CHECKLISTS

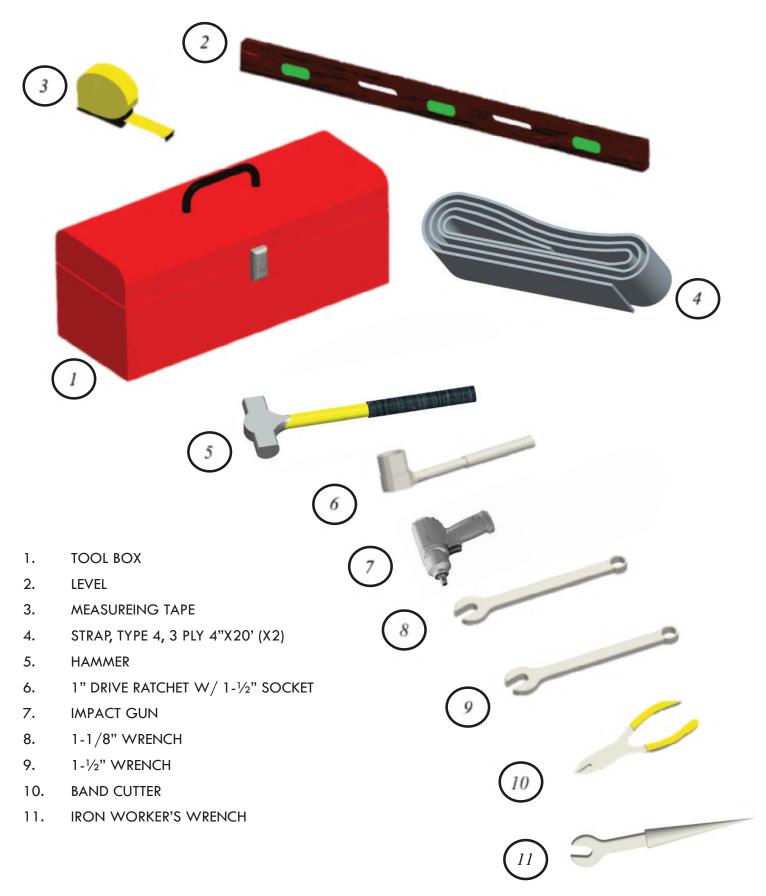
Job Equipment Check List

Miscellaneous		
5' Outrigger		
Cross Box		
Plank Safety Support		
Mason Guard Rail		
Outrigger/Guard Rail Adaptor		
Weather Protection		

Wall Tie Accessories		
Adjustable Anchor Male		
Adjustable Anchor		
Female Reusable Anchor		
Welded Anchor		
Fixed Anchor (3 to 12")		
Beam Clamp Anchor		
Wall Tie Bracket		
Attachment Stiff Arm		
Stiff Arm Extension		
Angle Bracket		

Major Components		
	EPU	
	Access Stairs	
	2' Bridge	
	4' Bridge	
	Tower	

RECOMMENDED TOOLS





Requestor	Reference	
Number Date Requested	Status	
Date Required	Structure Plan	
Customer Name	Floor Plan	
Project Name	Elevation Plan	

Project Dimensions (Attach Drawing if Possible)			
Side	Length	Height	
1			
2			
3			
4			
5			
6			

Equipment to be Used		
Side	Equipment	
1		
2		
3		
4		
5		
6		

Notes		

NOTES

NOTES

MAINTENANCE LOG

Maintenance	Date	Operator

MAINTENANCE LOG

Maintenance	Date	Operator

EPU OPERATORS MANUAL