Functional Fitness by Precor

Installation Assembly Guide



QUEENAX™ PF325 2D WALL SOLUTION

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Introduction

This document contains information required to install and assembly the Queenax PF325 2D Wall Solution storage unit. Follow the assembly instructions in the order given to correctly and efficiently assemble and install the unit.

If you are not a Precor Queenax certified servicer, you must not attempt to install and assemble this Precor product. Call your dealer for information.

WARNING: Only Precor Queenax certified service providers and technicians are authorized to assemble and install this product. Many parts are large and heavy requiring multiple technicians and specialized lift equipment to assembly. Personal injury or equipment damage can occur during installation and during use if improperly assembled and installed.



PF325 2D WALL SOLUTION

Additional Documentation

You can also view the install assembly guide online at : Online Service Manual

Contact Information

Contact Precor Queenax installation coordinator or e-mail at *queenaxinstalls@precor.com* with any issues prior to or during installation.

See Also

"General Information" on page 3

"Getting Started" on page 7

"Assembly and Installation" on page 9

"Floor Anchoring Requirements" on page 28

General Information

This section provides general information that will help you to use this guide to assemble and install the PF325 2D Wall Solution storage unit including the required tools, specifications, parts identification, unit orientation, cleaning, etc.

Tools

The following tools are required to assemble Queenax products:

Note: One set of power tools per installer is recommended.

The following tools are required to assemble Queenax products:

- ½" Drive hammer drill or Concrete drill
  - masonry bits appropriately sized for anchor types (refer to mfg's guidelines for selecting anchor bolt bit sizes.)
  - 3 mm, 6 mm, 10.5 mm, and 12.5 mm metal cutting bits
- ½" Drive Battery Impact Driver
- Battery Angle Grinder
  - Cutting disc and abrasive disc (grit #40)
- Oscillating Tool (for cutting flooring)
  - Wood and scraper blades
- Metric tape measure
- Laser measure
- Utility Knife
- Tap driver (10 mm & 12 mm cutting threads
- Rubber mallet
- Hammer
- Ladders
- Metric combination wrenches (13 mm, 17 mm, comm, and 22 mm)
- ½" and 3/8" drive ratchets
- Torque[1] wrench 100 ft-lbs (136 N•m
- Metric hex key set
- ½" metric hex key sockets from (6 mm - 10 mm, 13 mm, 17 mm, comm, and 22 mm)

[1]Torque is a measure of the force that can cause an object to rotate about an axis. Bolt/nut example: 5 nM torque is equivalent to 5 newtons of force applied one meter from the center of the bolt, 6 ft-lb is equivalent to 6 lb of force applied 1 foot away from the center of the bolt.

    - 1 short set and 1 long set with ball end
- 3/8” metric hex sockets (13 mm, 17 mm, and comm
- ½” universal joint
- ½” to 3/8” socket adapter
- ½” short and long extensions
- Vacuum cleaner

Note: One set of power tools per installer is recommended.

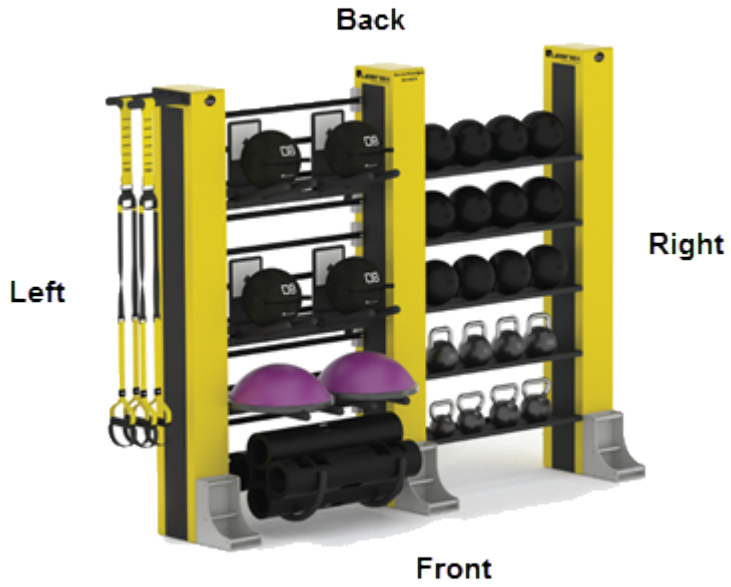
Safety Equipment

The following safety equipment is recommended:

- Safety vest
- Gloves
- Respirator
- Hard hat
- Earplugs
- Safety glasses
- Safety toe work boots

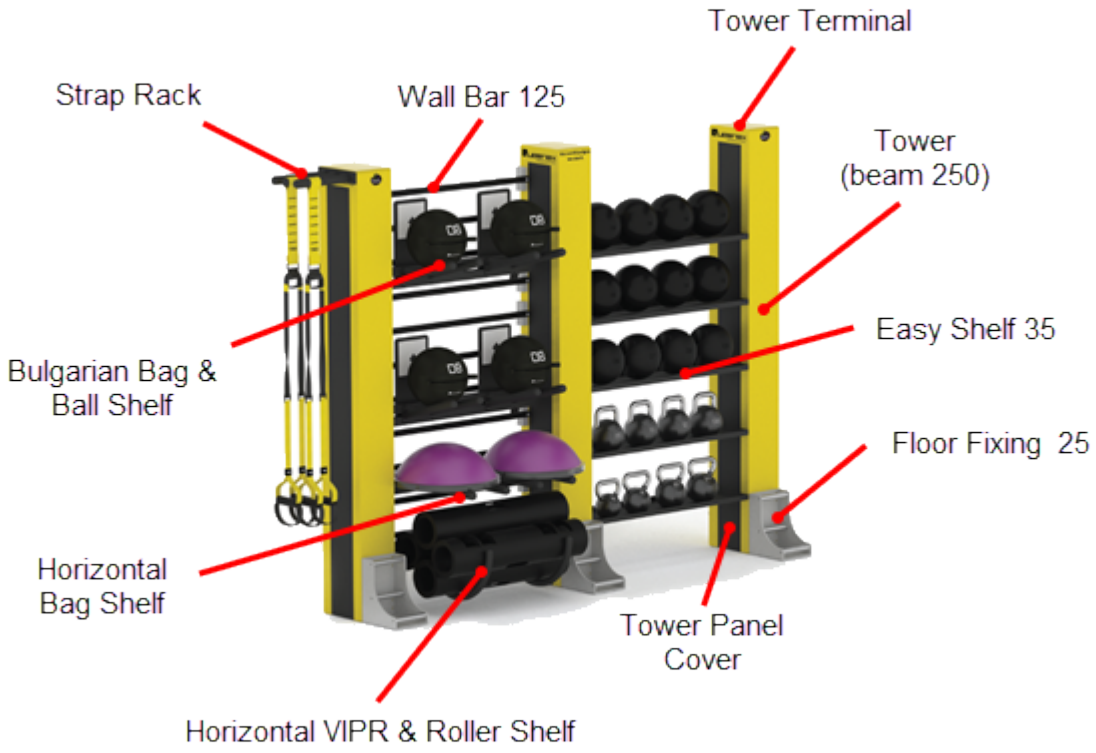
Orientation Convention

The equipment front, right, left, and back orientation.



Equipment Part and Option Identification

IMPORTANT: Always purchase OEM replacement parts and hardware from Precor. If you use parts not approved by Precor, you could void the Precor Limited Warranty. Use of parts not approved by Precor may cause injury.



Torque Specifications

This table provides a summary of system component specifications.

System Component	Specification
M10 Bolt torque	34 ft-lbs (46 Nm)
M12 bolt torque	58 ft-lbs (79 Nm)
M14 bolt torque	94 ft-lbs (127 Nm)
Expansion anchor bolt torque[1]	37 ft-lbs, (50 Nm)
Note: 1) see "Floor Anchoring Requirements" on page 28	

Cleaning

1. Wipe down equipment with recommended cleaning solution.
   - **General**: 1 oz. mild soap to 30 oz. water. .



CAUTION: Do not use acidic cleaners and do not spray directly onto the equipment surfaces.

2. Rinse using a clean lint-free cloth and dampened with water only. Dry completely with another clean lint-free cloth.

See Also

"Introduction" on page 1

"Getting Started" on page 7

"Assembly and Installation" on page 9

"Floor Anchoring Requirements" on page 28

Getting Started

Read and review the following information before starting the assembly and installation of the unit. There are several tasks in the "Installation and assembly requirements" section (see "Installation and assembly requirements" below) that must be completed before you can start the installation.

There is also additional information to help you prepare and perform a safe and efficient installation.

Baseline installation procedure

This assembly installation procedure provides a baseline procedure that will reliably install the unit. With experience you may find more efficient methods of installation. Always verify changes and/or alternate methods of assembly and installing the unit with the Precor Queenax installation coordinator.

IMPORTANT: Always verify any procedural changes or alternative methods to this installation procedure with the Precor Queenax installation coordinator.

Installation and assembly requirements

You must have the following items and conditions before you can start the equipment installation.

- **Site Survey**: You must have an approved site survey before you can install the unit.

  WARNING: Review the site survey prior to ANY drilling and make sure that there are no conditions or obstacles (such as electrical conduit, post-tension rebar, etc.) that could cause personal or facility damage while drilling.

- **Rendering**: You must have a copy of the unit build rendering before starting installation.
- **Beams and fasteners**: You must have the correct number of beams. Use the rendering to verify that the correct number of beams have been received. If the unit includes overhead beams, make sure the correct number of beam joining fastener packages were received.
- **Room Size**: Verify that the room is large enough to install and use the unit.
  - Make sure the room height, including any hanging obstructions such as sprinklers and light fixtures, will not interfere with the height requirements.
  - Make sure that there is enough space around the unit to allow installation and use of the optionals and training apps without interference.

Receiving Parts

- Use the rendering and parts invoices (packing list) to verify that all listed part boxes were received.

Assembly and Installation Tips

Unpacking boxes

- Place part and assembly boxes as close to the installation location as possible.
- Keep all individual part and assembly fastener hardware together. Do not intermix or use fastener hardware for other than the intended part installation.

Fastener Tips

- **Keep fastener hardware with the intended part or assembly**: Each training app and optional shipping box contains all the parts and fasteners required to assembly and install that item. Keep all fasteners shipped with a part together. Do not interchange, mix, or use fasteners from one part to install a different part. Doing so will make it difficult to complete the build and if a fastener is missing, make it difficult to know which fastener type is missing and needs replacement.



IMPORTANT: Do not interchange optional and training app part fasteners. When unpacking part boxes, keep the fasteners with the part and do not intermix with other parts. This will make it easy to assemble and identify any missing fasteners.

:

See Also

"Introduction" on page 1

"Assembly and Installation" on page 9

"Floor Anchoring Requirements" on page 28

Assembly and Installation

Introduction

This assembly installation procedure provides a baseline procedure that will reliable install the unit. With experience you may find more efficient methods of installation. Always verify changes and/or alternate methods of assembly and installing the unit with the Precor Queenax product installation department.

IMPORTANT: Always verify any procedural changes or alternative methods to this installation procedure with the Precor Queenax installation department.

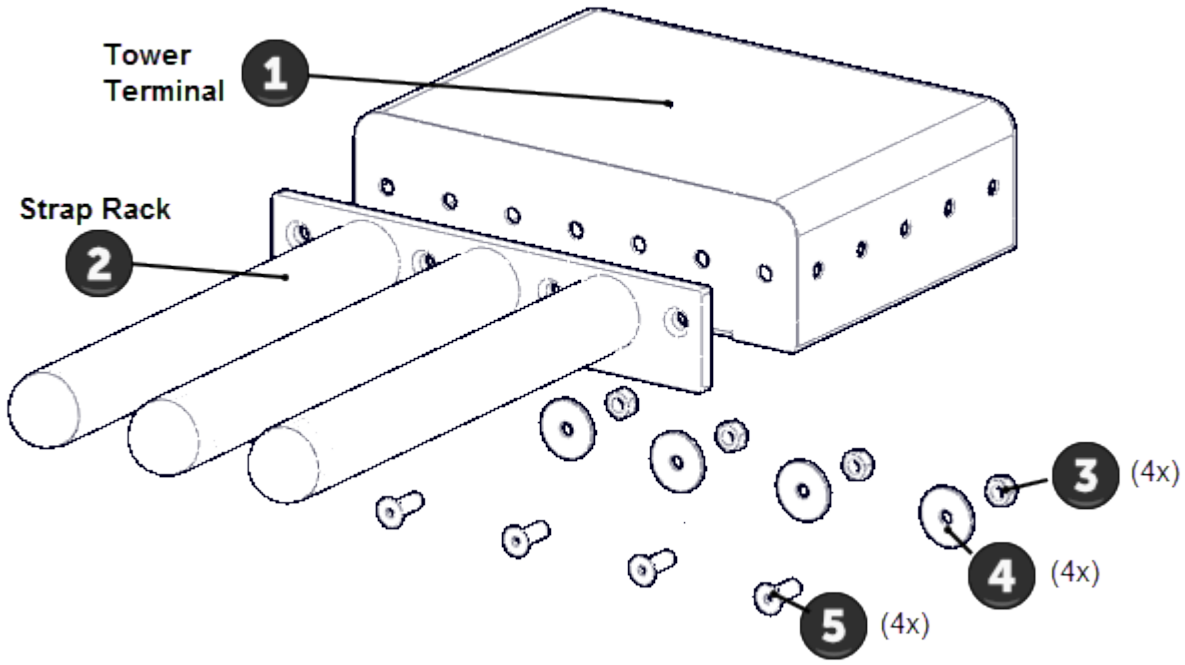
Before starting make sure you have reviewed and completed all tasks listed in the Getting Started section, see "Getting Started" on page 7.

IMPORTANT: Review the Getting Started section (see "Getting Started" on page 7) and adhere to safety information before starting the assembly and installation process.

Procedure

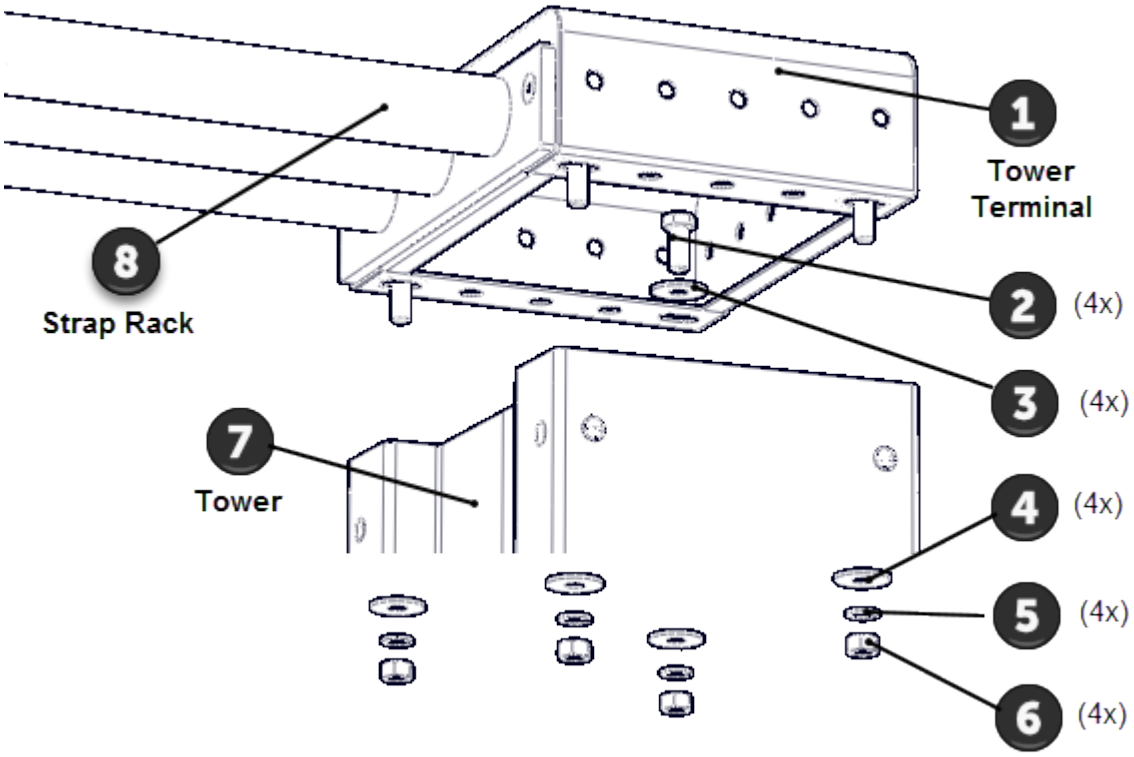
Prepare Towers for installation

1. Unpack and lay the three beam section 250 assemblies on the floor as close as possible to the install location. Refer to the rendering for specific part location and attachment information.
2. Attach the strap rack to the tower terminal 35 cm side using a 6 mm hex key to secure the M10 hex key bolt, M10 flat washer, and M10 nut. Fully tighten fasteners and torque to 34 ft-lbs (46 Nm).



ID	Qty	PN	Description
1	1	Q2017PFY-101	TOWER TERMINAL 10,PF YELLOW
2	1	Q40728-101	STRAP RACK
3	4	CWKFCN010-008	NUT,LOCK,FULL,M10,NYLON INSERT,STL,CZ
4	4	CWWNCN010-025	WASHER,FLAT,STEEL,METRIC,M10 X 40 OD X 2.5T, CZ
5	4	CWCNCN010-030	SCREW,FHC,M10X1.5X30,STL,CZ
Note: Part qty on a per unit basis.			

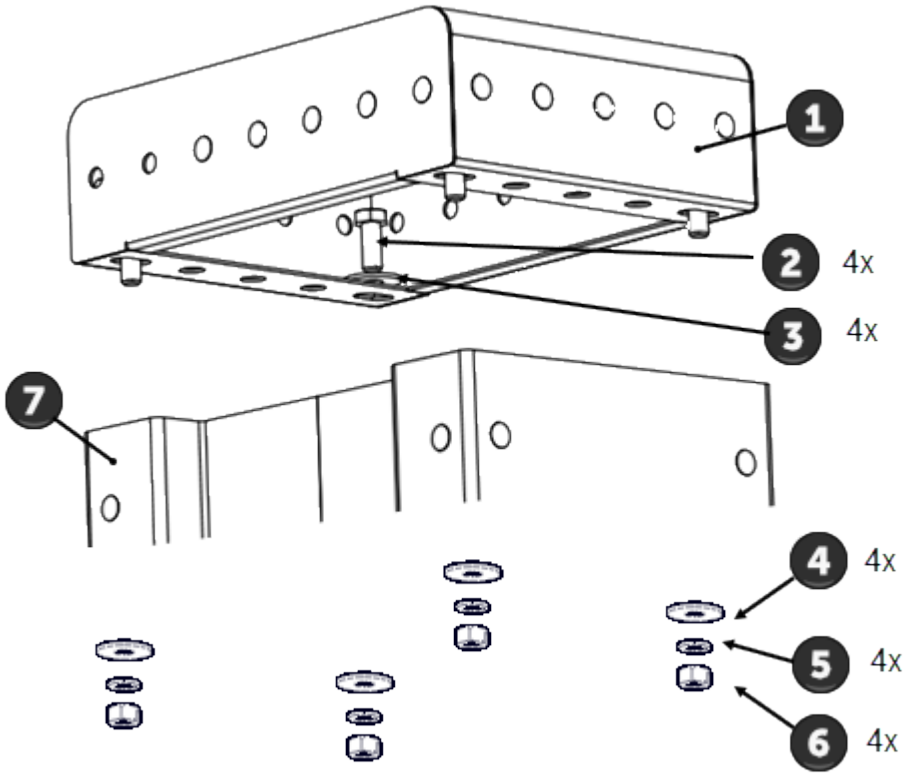
3. Attach the assembled strap rack tower terminal to the left beam section 250 tower using a 19 mm wrench secure the M12 bolt, M12 flat washer, M12 lock washer, and M12 nut. Fully tighten all fasteners and torque to 58 ft-lbs (79 Nm)



ID	Qty	PN	Description
1	1	Q2017PFY-101	TOWER TERMINAL 10,PF YELLOW
2	4	CWHMCN012-030	SCREW,HHC,M12X1.75X30,STL,CZ
3	4	CWWNCN012-025	WASHER,FLAT,STEEL,METRIC,M12 X 36 OD X 2.5T, CZ

ID	Qty	PN	Description
4	4	CWWNCN012-025	WASHER,FLAT,STEEL,METRIC,M12 X 36 OD X 2.5T, CZ
5	8	CWWBWCN012-023	WASHER, SPLIT, M12 X 2.3MM THICK, CZ
6	8	CWKARCN012-010	NUT,PLAIN,HEX,M12,STL,CZ, DIN 934
7	1	Q2275PFY-101	ASSY,BEAM,SECTION,250 S 2.0,PF YELLOW
8	1	Q40728-101	STRAP RACK
Note: Part qty on a per unit basis.			

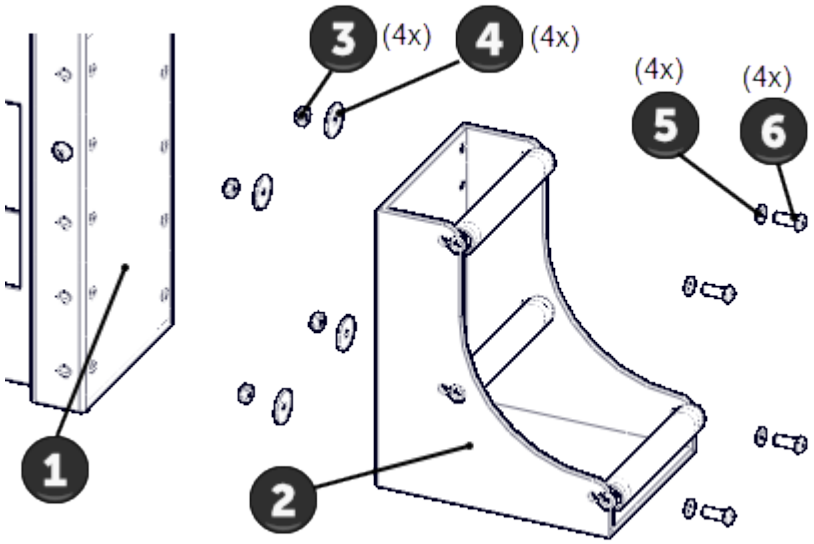
4. Attach the remaining two tower terminals on the center and right beam section 250 towers. Using a 19 mm wrench fully tighten all fasteners and torque to 58 ft-lbs (79 Nm)



ID	Qty	PN	Description
1	1	Q2017PFY-101	TOWER TERMINAL 10,PF YELLOW
2	4	CWHMCN012-030	SCREW,HHC,M12X1.75X30,STL,CZ
3	4	CWWNCN012-025	WASHER,FLAT,STEEL,METRIC,M12 X 36 OD X 2.5T, CZ
4	4	CWWNCN012-025	WASHER,FLAT,STEEL,METRIC,M12 X 36 OD X

ID	Qty	PN	Description
			2.5T, CZ
5	8	CWWBWCN012-023	WASHER, SPLIT, M12 X 2.3MM THICK, CZ
6	8	CWKARCN012-010	NUT,PLAIN,HEX,M12,STL,CZ, DIN 934
7	1	Q2275PFY-101	ASSY,BEAM,SECTION,250 S 2.0,PF YELLOW
Note: Part qty on a per unit basis.			

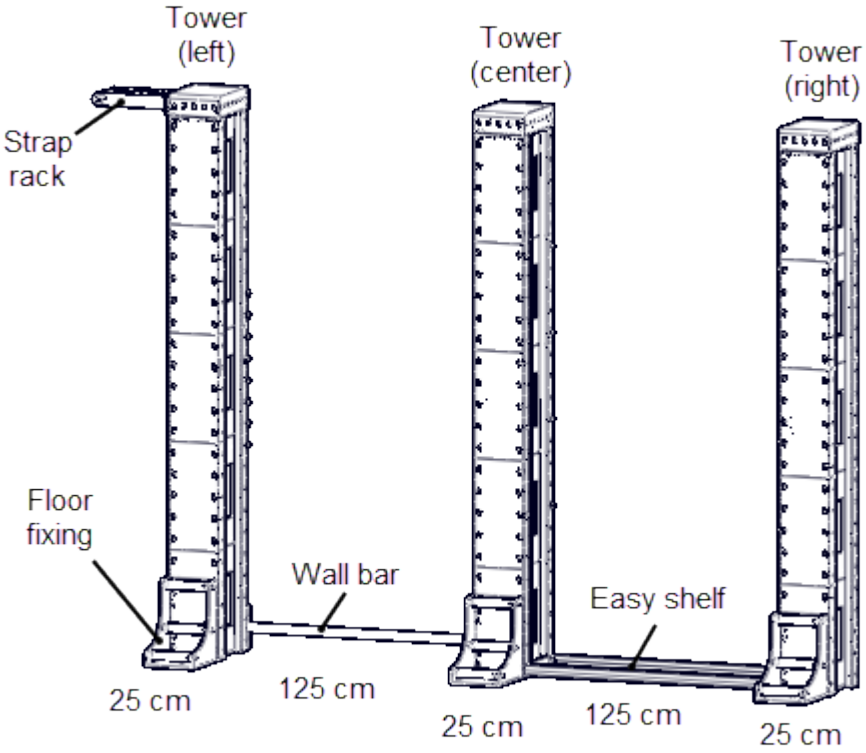
5. Attach the floor fixing 25 to the 25 cm side of the tower for all three towers. Secure using a 6 mm hex key and 17 mm wrench to tighten the M10 hex key bolt, M10 flat washer, M10 lock washer, and M10 nut. Fully tighten all fasteners and torque to 34 ft-lbs (46 Nm). Note that the strap rack is attached on the left side of the tower, see rendering for specific attachment location.



ID	Qty	PN	Description
1	1	Q2275PFY-101	TOWER - YELLOW
2	4	Q2052QMS-101	FLOOR FIXING 25, SILVER
3	4	CWKFCN010-008	NUT,LOCK,FULL,M10,NYLON INSERT,STL,CZ
4	4	CWWNCN010-025	WASHER,FLAT,STEEL,METRIC,M10 X 40 OD X 2.5T, CZ
5	4	CWWKCN010-019	WASHER, FLAT, STEEL, METRIC, M10 X 1.9MM THICK, CZ
6	4	CWTECN010-030	SCREW,BHC,M10X1.5X30,CZ
Note: Part qty on a per unit basis.			

Anchor the towers to the floor

6. Use the rendering to layout and mark the location for the left, center, and right tower floor fixing assemblies. Make sure that the unit layout provides sufficient unobstructed area around the top and sides of the equipment for installation and use.
7. Precisely stand and position the three tower floor fixing assemblies per the rendering specification. Set the towers 125 cm apart. You can use a wall bar 125 and easy shelf 35 to set the exact spacing between the left, center, and right towers respectively. Make sure the three towers are positioned equal distance from the wall and square relative to each other.



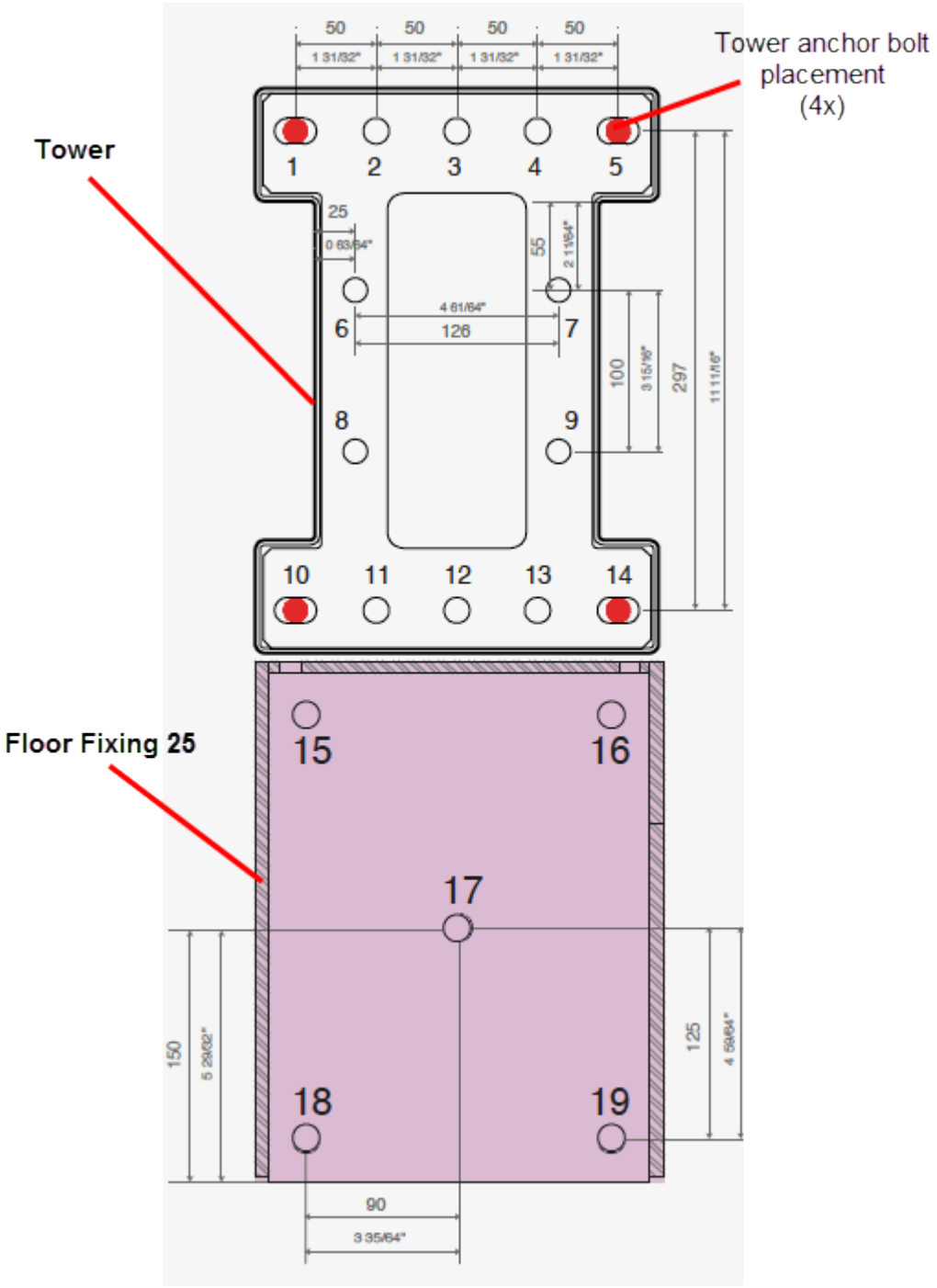
8. Verify that the customer approves the unit location. Always receive customer approval before doing any floor covering alterations or drilling of the anchor fastener holes.

IMPORTANT: Do not make any alterations to the flooring or drill any anchor bolt holes before verifying location with the customer.

9. **Floor covering installations** only: Remove the floor covering from underneath each tower. Precisely trace the outline of the tower with the floor fixing attached. Then carefully cut and remove the flooring. Replace the tower back into the final position. Repeat for each tower.

WARNING: The equipment towers and floor fixings must be installed directly on the concert surface. Any floor coverings must be removed from underneath the towers and floor fixings. Floor coverings can cause premature loosening of fasteners causing possible hardware failure and harm to exercisers.

10. Mark the four anchor bolt positions located on inside of the tower footplate, refer to the *Tower Anchor Bolt Pattern* diagram below for anchor bolt location information. Do not mark the floor fixing anchor locations at this step.



Tower Anchor Bolt Pattern

IMPORTANT: Before anchor bolt installation read the Floor Anchoring Requirements topic (see "Floor Anchoring Requirements" on page 28). Only use the Precor approved anchor bolt types (see "Approved anchor bolt types" on page 28) and adhere to the anchor bolt installation depth and position instructions (see "Anchor bolt installation Summary" on page 28).

11. Move the towers from the install location. Then use the marked tower anchor bolt locations to drill and install the anchor bolts for the left, center, and right towers. The size of the anchor hole and depth will depend on the type of anchor used, refer to "Approved anchor bolt types" on page 28 and "Anchor bolt installation Summary" on page 28 for more information.

WARNING: Review the site survey prior to ANY drilling and make sure that there are no conditions or obstacles (such as electrical conduit, post-tension rebar, etc.) that could cause personal or facility damage while drilling.

12. Mount the left, center, and right towers onto the anchor bolts and secure using the anchor bolt washer and nut. Snug but do not fully tighten the anchor fasteners at this step.

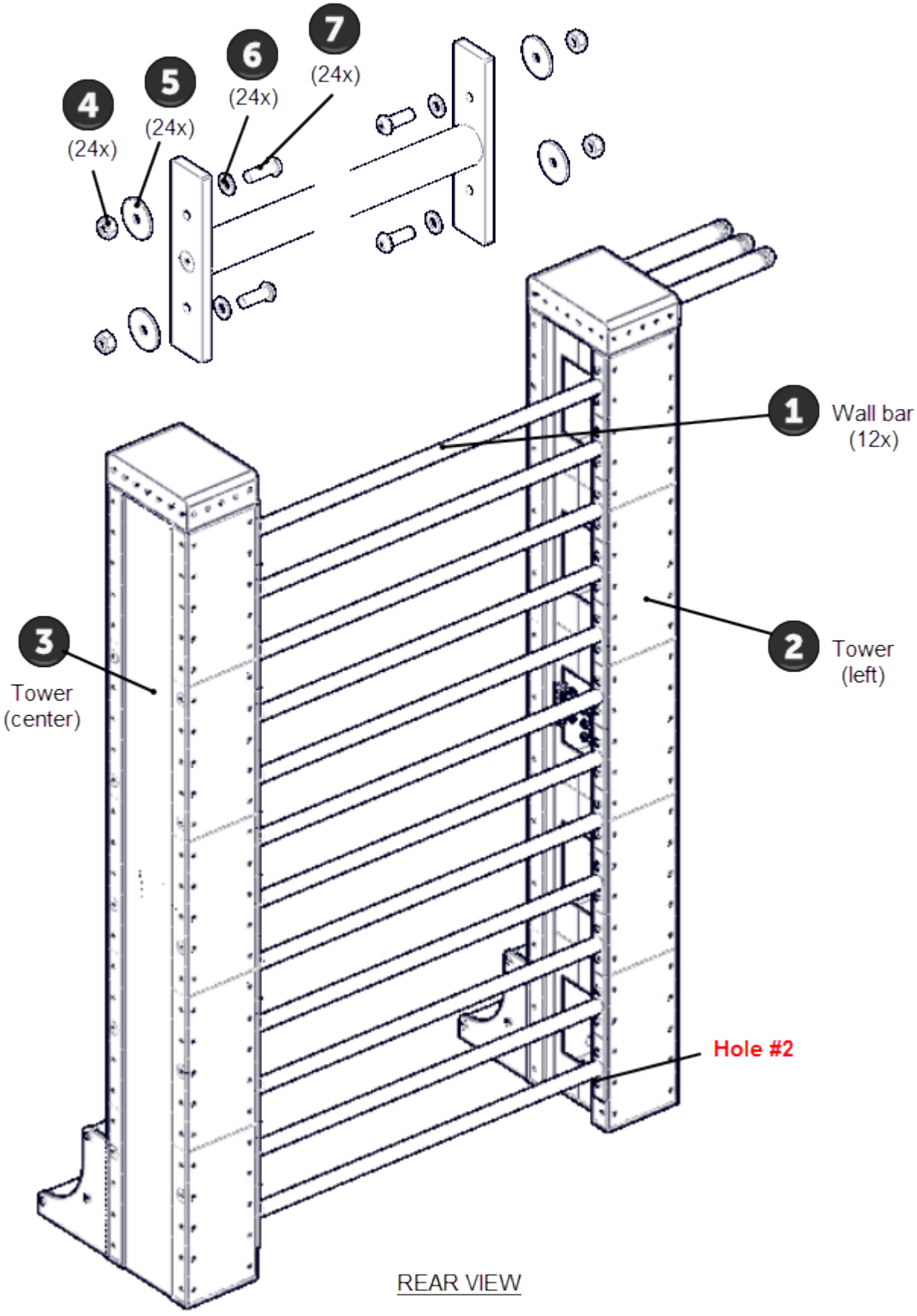
TIP: Snug fasteners, do not fully tighten fasteners at this step.

Install the Tower Placards

13. At this stage in the process you will need to Install the tower placards. Refer to the placards, labels, and decals installation document included with the literature kit materials shipped with the unit for placement information.

Install the Wall Bars

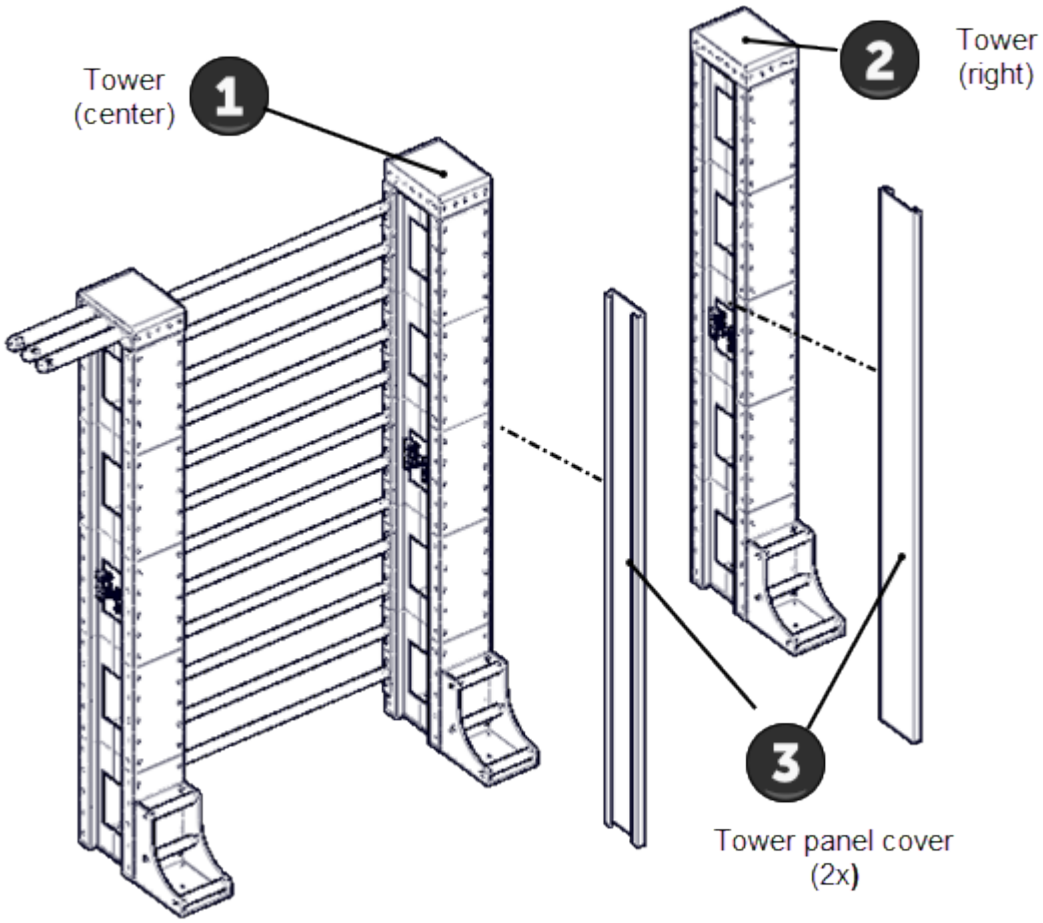
14. Install the twelve wall bar 125s between the left and center towers as shown on the rendering. Secure using the M10 hex key bolt, M10 lock washer, M10 flat washer, and M10 nut fasteners. Fully tighten all fasteners and torque to specification 34 ft-lbs (46 Nm). Fastener hardware included in box with part,


7
(24x)
6
(24x)
5
(24x)
4
(24x)
1
Wall bar
(12x)
2
Tower
(left)
3
Tower
(center)
Hole #2
REAR VIEW

ID	Qty	PN	Description
1	3	Q40022-101	WALL BAR 125,BOX OF 4
2	1	Q2275PFY-101	TOWER - LEFT
3	1	Q2275PFY-101	TOWER - RIGHT
4	48	CWKFCN010-008	NUT,LOCK,FULL,M10,NYLON INSERT,STL,CZ
5	48	CWWNCN010-025	WASHER,FLAT,STEEL,METRIC,M10 X 40 OD X 2.5T, CZ
6	48	CWWKCN010-019	WASHER, FLAT, STEEL, METRIC, M10 X 1.9MM THICK, CZ
7	48	CWTECN010-030	SCREW,BHC,M10X1.5X30,CZ
Note: Part qty on a per unit basis.			

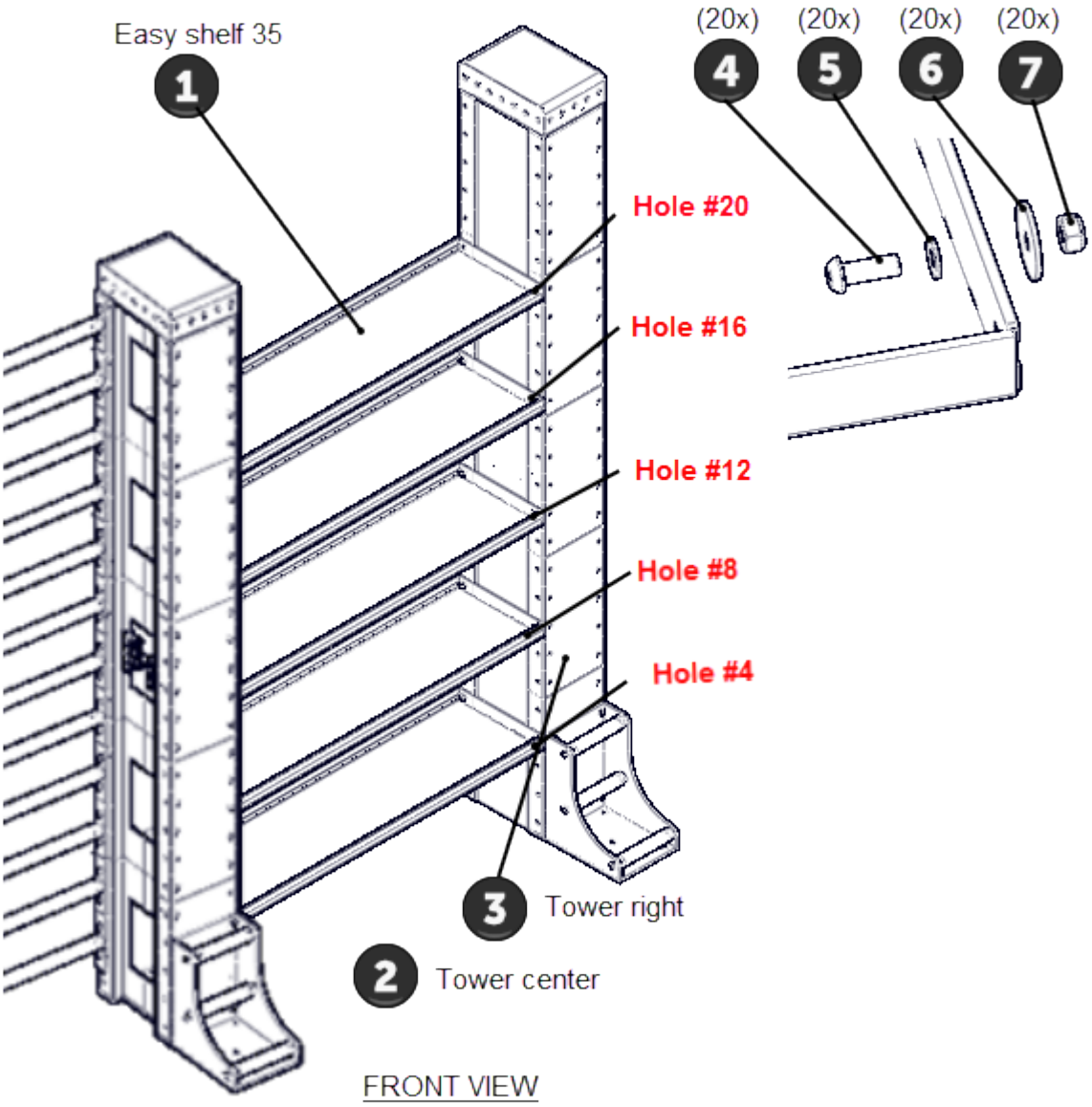
Install the Easy Shelf 35s

15. Install the center tower - right side tower panel cover and the right tower - left side tower panel covers.



ID	Qty	PN	Description
1	1	Q2275PFY-101	TOWER - CENTER
2	1	Q2275PFY-101	TOWER - RIGHT
3	2	Q40035-125	BEAM PANEL COVER125CM
Note: Part qty on a per unit basis.			

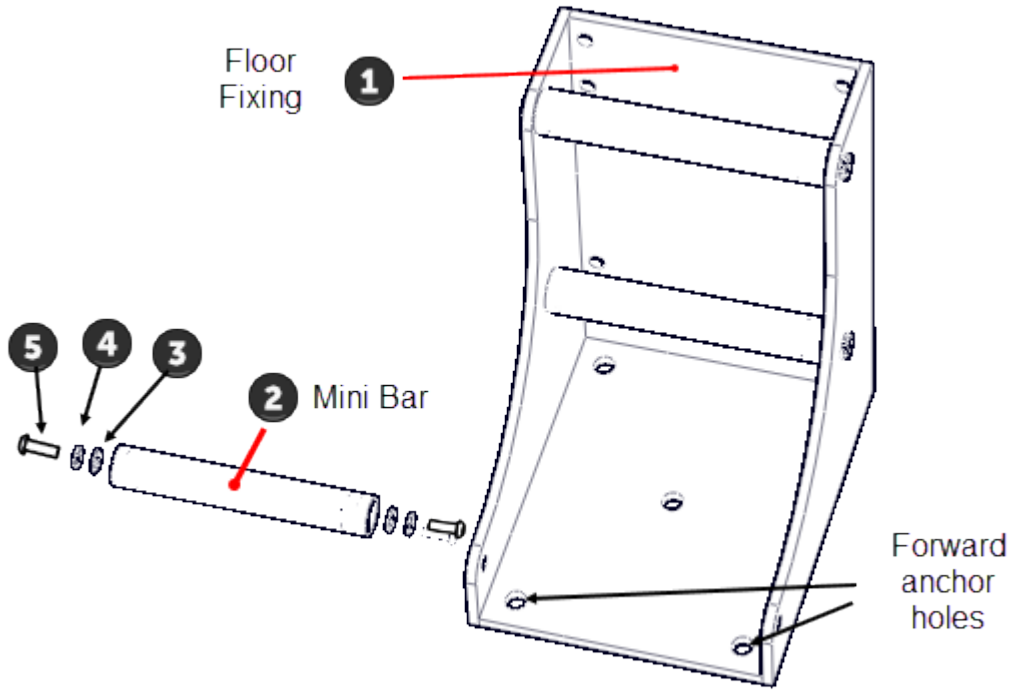
16. Install the five easy shelf 35s between the center and right towers as shown in the rendering. Secure using the M10 bolt, M10 lock washer, M10 flat washer, and M10 nut. Fully tighten and torque to specification 34 ft-lbs (46 Nm).



ID	Qty	PN	Description
1	1	Q40704-101	WLDMT,EASY SHELF 35
2	1	Q2275PFY-101	TOWER - CENTER
3	1	Q2275PFY-101	TOWER - RIGHT
4	48	CWTECN010-030	SCREW,BHC,M10X1.5X30,CZ
5	48	CWWKCN010-019	WASHER, FLAT, STEEL, METRIC, M10 X 1.9MM THICK, CZ
6	48	CWWNCN010-025	WASHER,FLAT,STEEL,METRIC,M10 X 40 OD X 2.5T, CZ
7	48	CWKFCN010-008	NUT,LOCK,FULL,M10,NYLON INSERT,STL,CZ
Note: Part qty on a per unit basis.			

Anchor the Floor Fixings to the floor

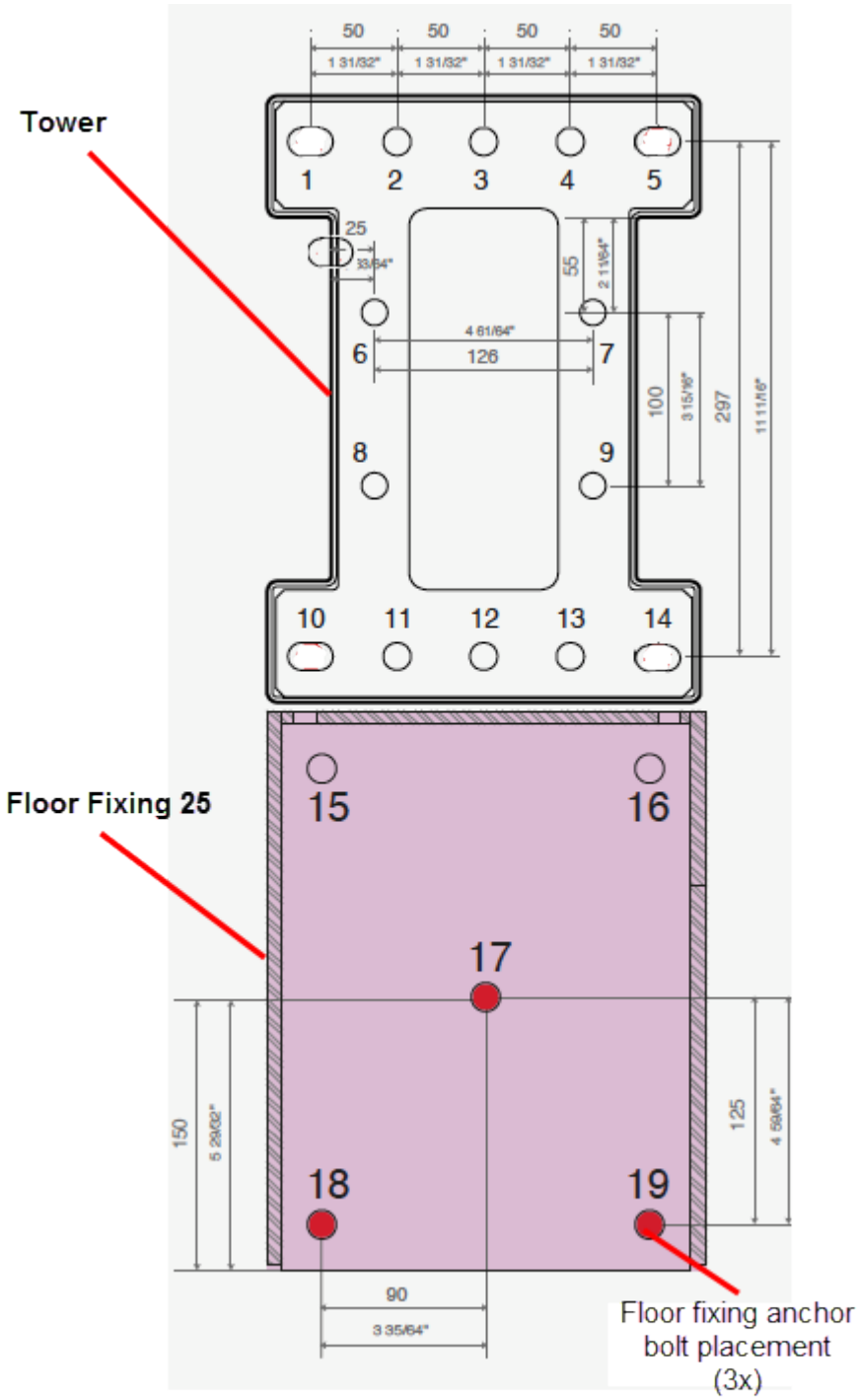
17. Install the floor fixing anchor bolts:
    a. Remove the floor fixing front mini bar 25 to gain access to the front anchor bolt holes. Retain part(s) and/or fastener(s) for installation.



ID	Qty	PN	Description
1	1	Q40411-101	WLDMT,FLOOR FIXING 25,SILVER

ID	Qty	PN	Description
2	1	Q40052-101	MINI WALL BAR
3	2	CWWKCN010-019	WASHER, FLAT, STEEL, METRIC, M10 X 1.9MM THICK, CZ
4	2	CWWBWCN010-020	WASHER, SPLIT LOCK, M10 X 2.0MM THICK, CZ
5	2	CWTECN010-035	SCREW,BHC,M10X1.5X35,CZ
Note: Part qty on a per unit basis.			

b. Drill the three floor fixing anchor bolt holes per the floor fixing 25 bolt pattern diagram shown below. The anchor bolt holes must be drilled perpendicular to the concrete surface. Drill the anchor bolt holes per the manufacturers instructions, review "Floor Anchoring Requirements" on page 28.



Floor Fixing 25 Anchor Bolt Pattern

c. Install the three anchor bolts and secure using the washer and nut. Fully tighten each floor fixing anchor bolt and torque to specification 37 ft-lbs, (50 Nm).

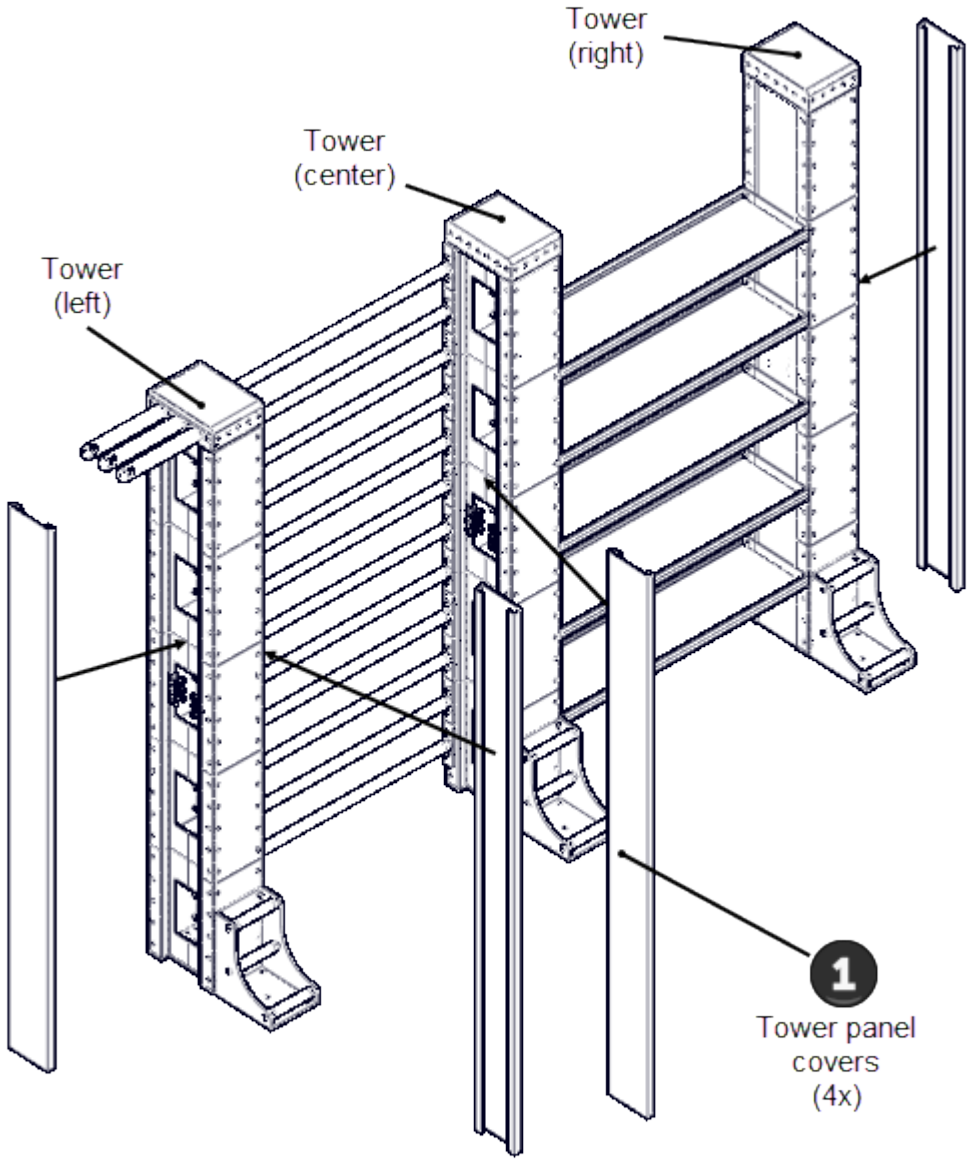
d. Fully tighten the four tower anchor bolt and torque to specification 37 ft-lbs, (50 Nm).

e. Reinstall the front floor fixing front mini bar 25s and fully tighten fasteners.

f. Repeat the anchor bolt installation process for each tower.

Install remaining panels

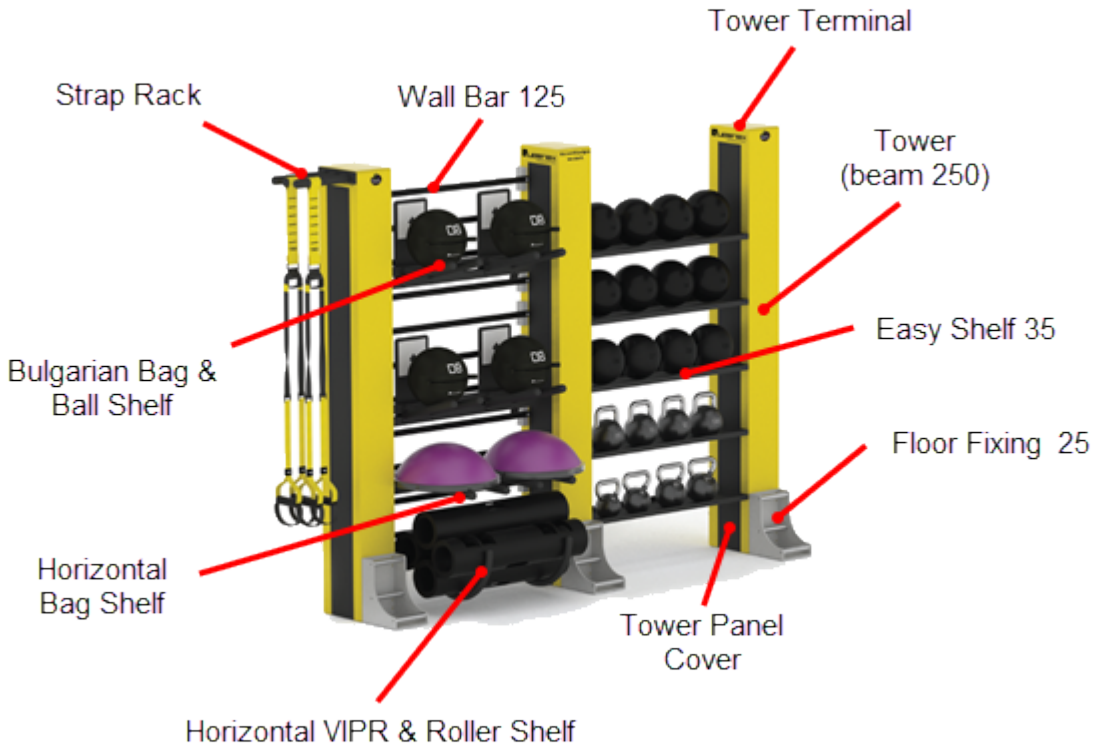
18. Install the four remaining tower panel covers on the left, center, and right towers. Secure using either the panel clips or the fixing carter bars with elastic band.



ID	Qty	PN	Description
1	4	Q40035-125	BEAM PANEL COVER125CM
Note: Part qty on a per unit basis.			

Install the Unit Optionals

19. Install the unit Optionals. Use the rendering to determine the installation locations for the unit optionals.



a. Assemble and Install the Horizontal VIPR & Roller Shelf optional. see "Horizontal VIPR & Roller Shelf Optional Assembly " on the next page.
b. Assemble and install the Bulgarian Bag and Ball optional, see "Bulgarian Bag and Ball Optional Assembly" on page 25.
c. Assemble and Install the Horizontal Bag Shelf optional, see "Horizontal Bag Shelf Optional Assembly" on page 26.

Install Placards, Labels, and Decals

4. Apply any remaining placards, labels, and decals shipped with the unit. Refer to the placards, labels, and decals installation document included with the literature kit materials shipped with the unit for placement information.

See Also

"Introduction" on page 1

"Getting Started" on page 7

"Floor Anchoring Requirements" on page 28

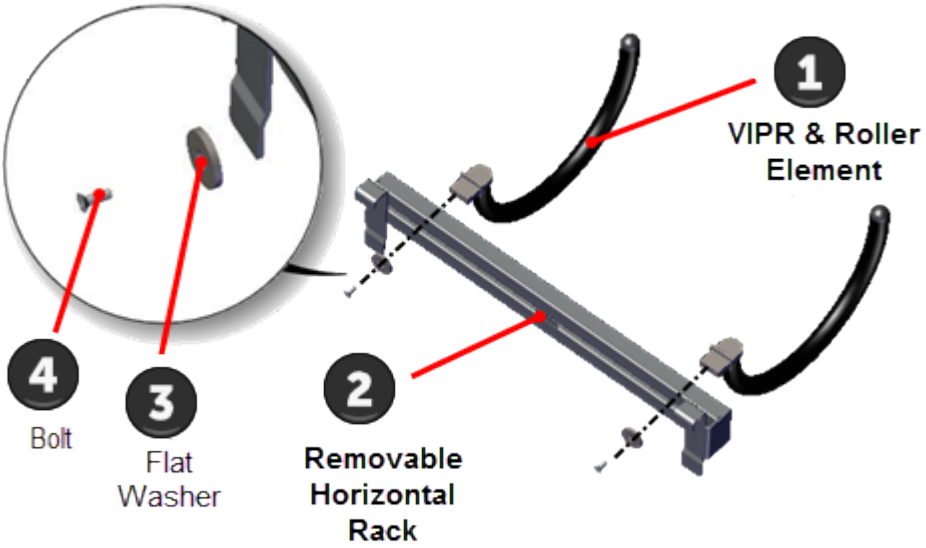
Horizontal VIPR & Roller Shelf Optional Assembly

Use the unit rendering to determine the number and installation location for the Horizontal VIPR & Roller Shelf optional installation.



Horizontal VIPR & Roller Shelf (Q2114-101)

1. Assemble the VIPR & roller elements onto the horizontal rack using the M10 hex key bolt, and flat washer fasteners.



ID	Qty	PN	Description
1	1	Q40691-101	ASSY,RACK,VIPR & ROLLER ELEMENT
2	1	Q2082	Horizontal Removable Rack
3	2	Q40701-101	WASHER,STEEL,VIPR & ROLLER ELEMENT

ID	Qty	PN	Description
4	2	CWCNCN010-030	SCREW,FHC,M10X1.5X30,STL,CZ
Note: Part qty on a per unit basis.			

2. Install the assembled VIPR & roller shelf onto the unit. Use the rendering to determine installation location.

See Also

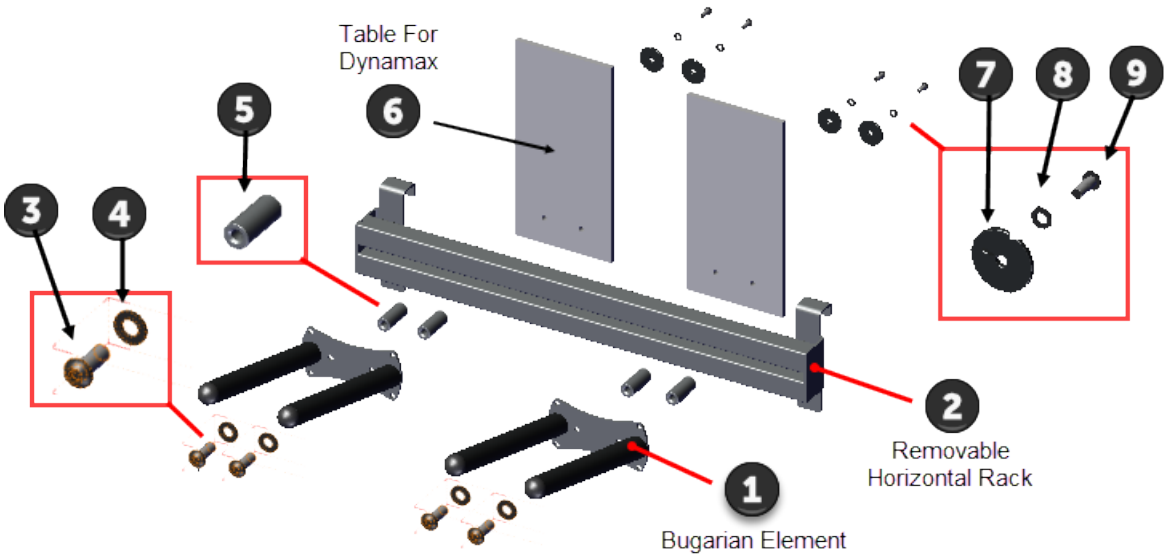
"Install the Unit Optionals" on page 22

"Horizontal VIPR & Roller Shelf Optional Assembly " on the previous page

"Bulgarian Bag and Ball Optional Assembly" below

Bulgarian Bag and Ball Optional Assembly

Use the unit rendering to determine the number and installation location for the Bulgarian Bag and Ball optional installation.



Bulgarian Bag and Ball Assemby (Q2113-101

ID	Qty	PN	Description
1	2	Q40530-101	ASSY,BULGARIAN ELEMENT
2	1	Q2082	HORIZONTAL REMOVABLE RACK
3	4	CWTEKN010-025	SCREW,BHC,M10X1.5X25,STL,BZ
4	4	CWWKKN010-020	WASHER, FLAT, STEEL, METRIC, M10 X 2 MM THICK,

ID	Qty	PN	Description
			BZ
5	4	Q40042-101	SPACER,TAPPED,M10-1.5
6	1	Q2299-101	TABLE FOR DYNAMAX (2 PCS)
7	4	Q40041-101	WASHER,STEEL,CUSTOM METRIC,59 OD X 11 ID X 5 THK
8	4	CWWKKN010-020	WASHER, FLAT, STEEL, METRIC, M10 X 2 MM THICK, BZ
9	4	CWTEKN010-025	SCREW,BHC,M10X1.5X25,STL,BZ
Note: Part qty on a per unit basis.			

1. Install the spacers onto the onto the bulgarian weldment using the M10 hex bolt and flat washer.
2. Install the bulgarian element onto the removable horizontal rack then install the table for dynamax and flange, and secure using the M10 hex key bolt and washer fasteners. Fully tighten fasteners.
3. Install the assembled bulgarian bag and ball shelf onto the unit. Use the rendering to determine installation location.

See Also

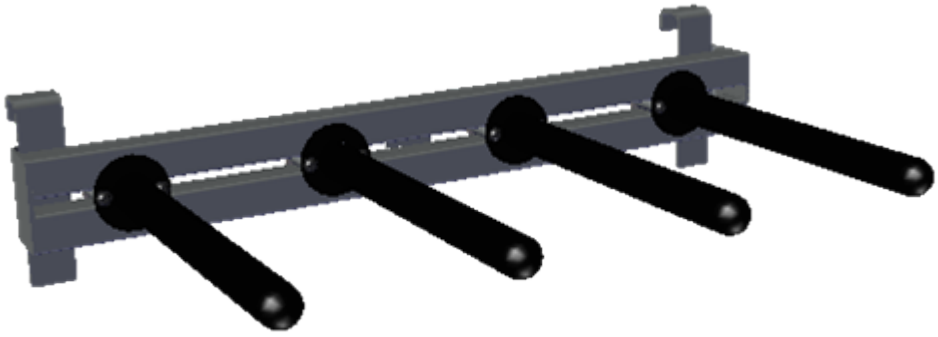
"Install the Unit Optionals" on page 22

"Horizontal Bag Shelf Optional Assembly" below

"Horizontal VIPR & Roller Shelf Optional Assembly " on page 24

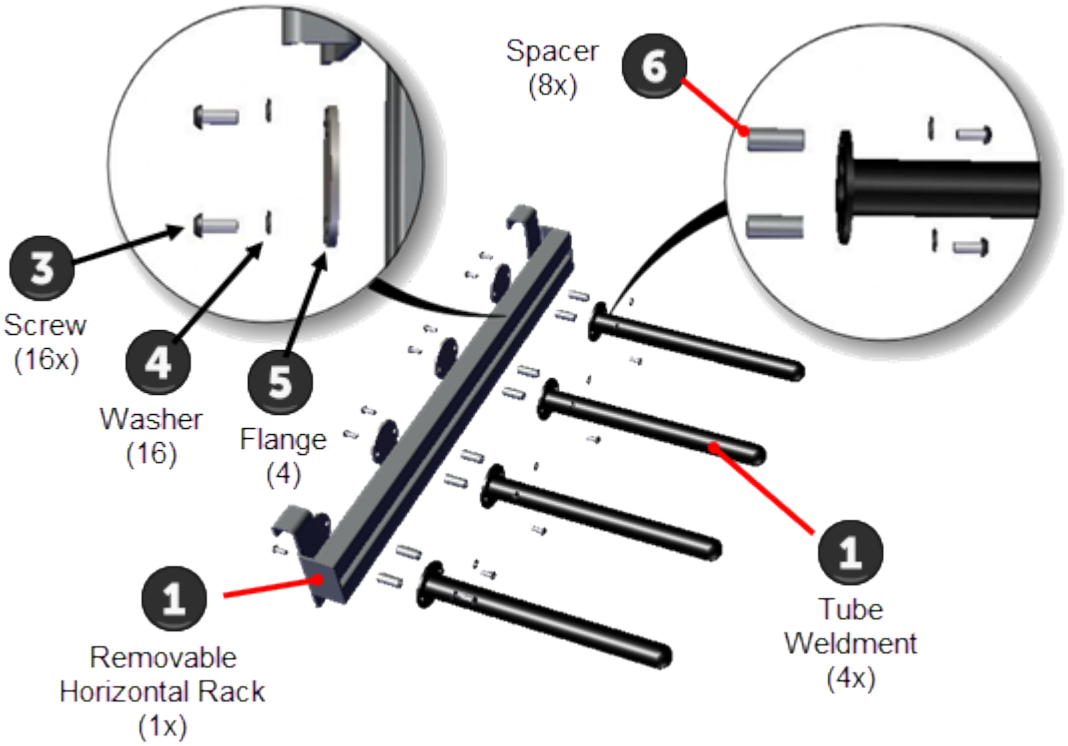
Horizontal Bag Shelf Optional Assembly

Use the unit rendering to determine the number and installation location for the Horizontal Bag Shelf optional installation.



Horizontal Bag Rack (Q2114-101)

1. Install the spacers onto the tube weldments using the M10 hex bolt and flat washer.
2. Install the tube weldment onto the removable horizontal rack. Slide the tube weldment with spacers through the slot in the removable horizontal rack and secure using the flange, and M10 hex key bolt. fasteners.



ID	Qty	PN	Description
1	4	Q40534-101	ASSY, RACK, BAG RACK
2	16	Q2082	Horizontal Removable Rack
3	16	CWTEKN010-025	SCREW,BHC,M10X1.5X25,STL,BZ
4	16	CWWKKN010-020	WASHER, FLAT, STEEL, METRIC, M10 X 2 MM THICK, BZ
5	4	Q40385-101	FLANGE,2 HOLED,BAG RACK
6	8	Q40042-101	SPACER,TAPPED,M10-1.5

3. Install the assembled horizontal bag shelf onto the unit. Use the rendering to determine installation location.

See Also

"Install the Unit Optionals" on page 22

"Bulgarian Bag and Ball Optional Assembly" on page 25

"Horizontal VIPR & Roller Shelf Optional Assembly " on page 24

Floor Anchoring Requirements

Use this information to learn how to anchor (attach) the unit to the facility flooring. The installation requirements described in this section must be adhered to confirm a Precor approved installation.

Floor material requirements

Concrete is the only permitted and approved floor material type.

Minimum concrete depth by anchor type:

- Expansion anchors: 4” (10mm) concrete minimum is required for expansion anchor use
  - Expansion anchors must have 3-1/4” (8mm) minimum embedment
- Chemical anchors: 4.5” (12mm) concrete minimum is required for chemical anchor use
  - Chemical anchors must have 4” (10mm) minimum embedment

WARNING: The unit towers and floor fixings must be mounted directly on the concert surface. Any floor coverings must be removed from underneath the towers and floor fixings. Pads and subflooring can cause premature loosening of fasteners causing possible hardware failure and harm to exercisers.

Anchor bolt requirements

Torque specification

Floor anchor bolt torque specification: 37 ft-lbs, (50 Nm)

Approved anchor bolt types

Only the following two types of concrete anchor bolts are approved for use.

- Expansion anchor
  - Hilti Kwik bolt TZ carbon steel 1/2 in x 4-1/2 in (1.3 x 11.4 cm) expansion anchor bolt (or equivalent).



- Chemical anchor
  - Hilti Anchor rod HAS-E 5.8 in x 6 in (1.6 cm x 15.2cm) threaded rod and Hilti HIT-HY 200-A Injectable mortar (or equivalent).



Anchor bolt installation Summary

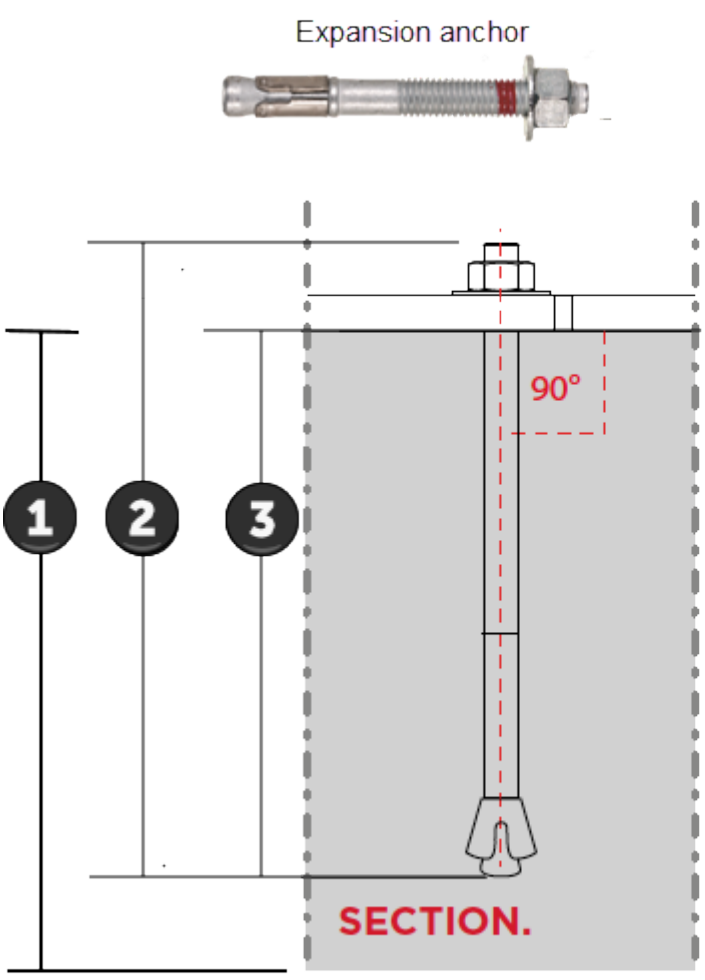
The minimum anchor penetration depth requirement is determined by the expansion bolt type. Make sure that the concrete floor depth can support the required anchor bolt depth:

- Expansion anchors must have minimum 3-1/4” (8mm) embedment
- Chemical anchors must have minimum 4” (10mm) embedment

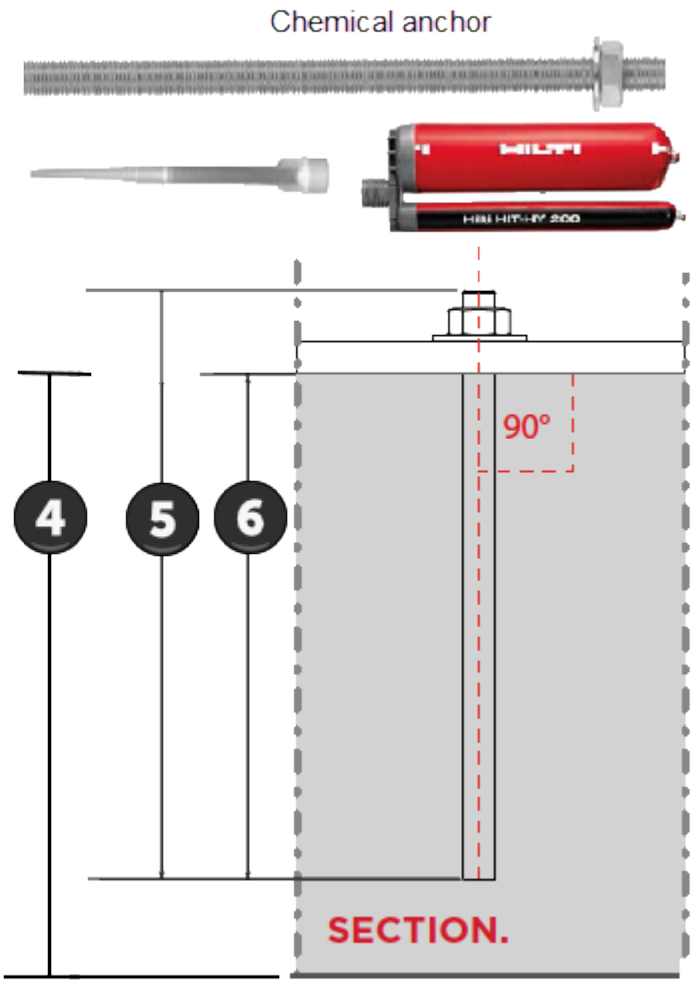
The anchor must be installed perpendicular (90°) to the floor surface.

WARNING: The anchor bolt must be installed perpendicular to the floor surface or the anchor bolt can loosen with use compromising the connection. This will allow the unit to lift during use causing possible harm to the exerciser or damage to the unit structure.

WARNING: Review the site survey prior to ANY drilling and make sure that there are no conditions or obstacles (such as electrical conduit, post-tension rebar, etc.) that could cause personal or facility damage while drilling.



Expansion Anchor Tower Installation



Chemical Anchor Tower Installation

	Anchor Type	Parameter	Specification
1	Expansion Anchor	Concrete Depth[1]	4” (10 cm)
2	Expansion Anchor	Anchor Size	1/2 in x 4-1/2 in (1.3 x 11.4 cm)
3	Expansion Anchor	Minimum embedment	3-1/4” (8mm) minimum embedment

	Anchor Type	Parameter	Specification
		Depth[1]	
4	Chemical Anchor	Concrete Depth[2]	4.5” (12 cm)
5	Chemical Anchor	Anchor Size	5.8 in x 6 in (1.6 cm x 15.2cm)
6	Chemical Anchor	Minimum embedment Depth[2]	4” (10mm) minimum embedment
	All	Torque[1]	37 ft-lbs, (50 Nm)
Notes: 1) Expansion anchors must have minimum 3-1/4” (8mm) embedment. 2) Chemical anchors must have minimum 4” (10mm) embedment.			

See Also

"Getting Started" on page 7

"Assembly and Installation" on page 9

[1]Torque is a measure of the force that can cause an object to rotate about an axis. Bolt/nut example: 5 nM torque is equivalent to 5 newtons of force applied one meter from the center of the bolt, 6 ft-lb is equivalent to 6 lb of force applied 1 foot away from the center of the bolt.

Appendix A : Edition Information

Edition

Title: Queenax PF325 2D Wall Solution assembly installation guide

P/N: 20039-401, Mar 2017

Additional Documentation

You can also view the install assembly guide online at Installation Assembly Guidel

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Safety Instruction

Read all safety instructions in the documentation provided with your exercise equipment, including all assembly guides, user guides, owner's manuals including the follow safety guideline before servicing this unit. Always follow Warning and Caution notices to prevent personal injury and/or damage the equipment.

Safety Notices

Warning and Caution notices indicate an activity that could be dangerous and cause personal injury and/or equipment damage if not adhered to. Always follow Warning and Caution instructions.

Warning

A **WARNING** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood.

Caution

A **CAUTION** notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in damage to the product or loss of important data. Do not proceed beyond a CAUTION notice until the indicated con-

ditions are fully understood.