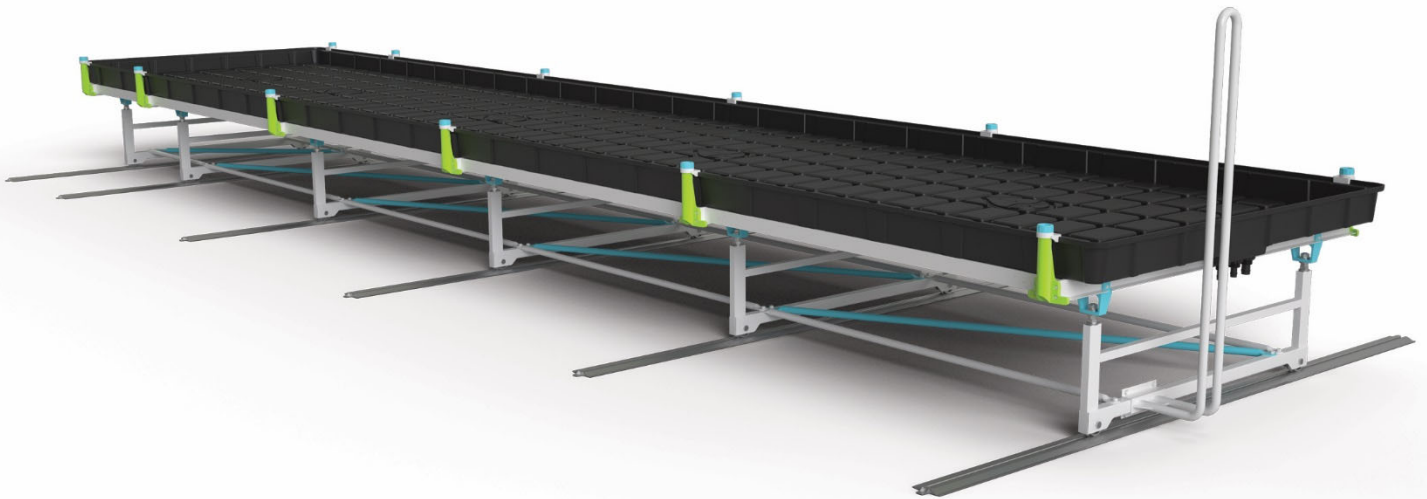




**BOTANICARE®**

# TRACK BENCH

## ASSEMBLY INSTRUCTIONS



### *- BEFORE YOU GET STARTED -*

Please take the time to read all the assembly instructions before attempting to assemble your Botanicare® Track Bench. These instructions show assembly of a 4ft wide, 20in tall, 18.5ft long bench on 25 linear feet of track as an example. All steps apply for benches of different lengths and heights; however, some parts may differ from bench to bench. Failure to read and follow these instructions will void any warranty on this product and purchaser shall be fully liable for any costs or damages caused by such failure.

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THESE INSTRUCTIONS CAN BE FOUND AT: [botanicare.com/products/track-bench/](https://botanicare.com/products/track-bench/)

## Table of Contents

Safety .....	3
Check the Packing List.....	4
Tools Needed .....	5
Tips & Clarifications.....	6
Basic Track Dimensions .....	6
Basic Bench Dimensions.....	7
Hardware and Parts Included.....	10
Maximum Threaded Rod Extension .....	13
Setting the Drill Clutch .....	13
Bench Assembly and Installation .....	14
Step 1. Multi-Bench Room Layout.....	14
Room Orientation .....	14
Worksheet: Room Layout Calculator .....	15
Lasering / Chalking the Room.....	16
Step 2. Track Installation .....	18
Step 3. Bump Stop Installation.....	20
Step 4. Handle Assembly.....	20
Step 5. Skate Assembly .....	21
Step 6. Stability Brace Assembly .....	21
Step 7. Table Assembly .....	22
Step 7a. Table Assembly (4' Wide Bench Only).....	23
Step 7b. Table Assembly (5' Wide Bench Only).....	25
Step 8. TriLock Trellising Support Assembly.....	28
Step 9. Tray Assembly .....	29
Step 10. Trellis Pole Assembly.....	32
Appendix A: Track Length Combinations .....	33
Appendix B: Bench Lengths vs. Dimension L.....	38
Appendix C: Leveling Track with Shims .....	39
Appendix D: Slope for Drainage .....	41

# Safety

## Safety Definitions

### Warnings



This symbol indicates a warning, indicating the type and seriousness of the ensuing risk if measures to prevent the risk are not taken.

### Important Information / Notes



This symbol indicates important information where there is no risk to people or property.

## Safety Precautions

Read and follow all warnings and instructions before using Botanicare® Track Bench. Failure to heed direction could lead to serious personal injury, damage to the Track Bench, or property damage.

### **WARNING Installation Requirements:**



- The tracks of the Track Bench must always be placed on and anchored to a concrete surface that is level and void of any large cracks. Failure to do so could result in the bench rolling away due to gravity. If the surface is not level, leveling the surface or shimming the track may be required.
- Use the provided anchors as defined in this document.
- All steps in this assembly procedure must be completed prior to using the bench.
- Do not extend threaded shafts more than the maximum spacing defined.
- Do not drill anchors into post tension slabs.
- **Before using BOND THREE Lap Tray Sealant Adhesive, carefully read and follow all warnings and directions for use, on package and in instructions.**

### **WARNING Use:**



- Do not load the Track Bench with more than 20 pounds per square foot.
- Do not climb on or in the Track Bench or trays.
- Keep hands and feet away from the wheels and bump stops of the Track Bench. These pinch points can cause injury.
- Never move benches with people or equipment in between the benches as this could cause injury to personnel or damage to equipment.

## Check the Packing List

---

Upon receipt of your shipment, it is important to double-check the packing list to make sure all ordered components were received. This also helps familiarize yourself with the product.

We recommend organizing parts together based on the assembly steps to reduce potential confusion – below is the suggested organization method:

Track Parts

Skate Assembly Parts

Stability Brace Parts

Table Parts

Trays and Accessories

Fasteners

If this is your first Track Bench build, after installing the track we recommend constructing one bench fully to familiarize yourself with the parts and assembly process. Once one bench is built, you can begin batch-building subassemblies which can reduce total install time.



## Tools Needed

The following tools & supplies are required assemble the Track Bench.

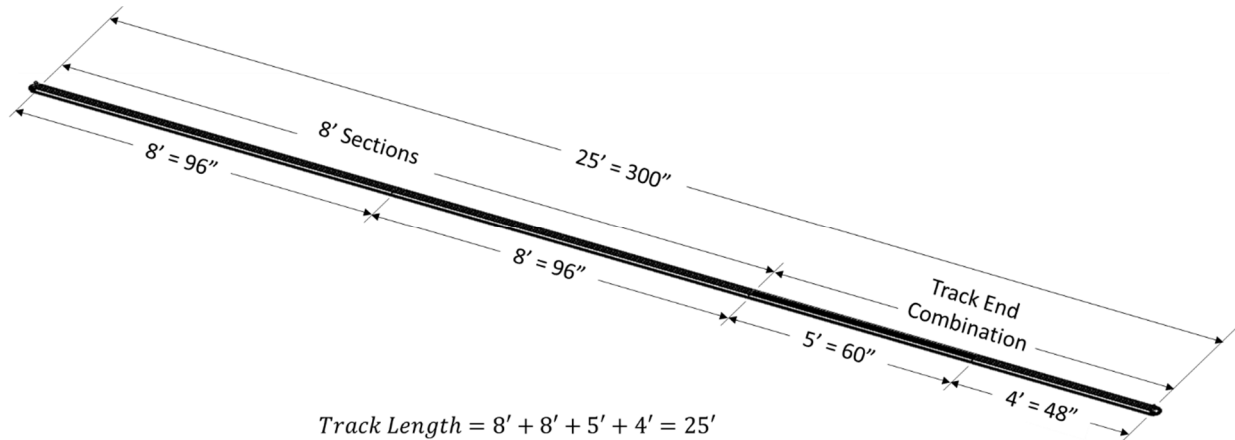
<p style="text-align: center;">Tape Measure</p> 	<p style="text-align: center;">Chalk Line or Layout Laser</p> 	<p style="text-align: center;">Level</p> 
<p style="text-align: center;">String Line</p> 	<p style="text-align: center;">Hammer Drill</p> 	<p style="text-align: center;">5/32" Masonry Drill Bit</p> 
<p style="text-align: center;">Wet/Dry Vac</p> 	<p style="text-align: center;">Compressed Air</p> 	<p style="text-align: center;">Cordless Drill <i>with clutch</i></p> 
<p style="text-align: center;">T-25 Torx Bit</p> 	<p style="text-align: center;">1/2" Magnetic Nut Driver Bit</p> 	<p style="text-align: center;">1/2" Combination / Box Wrench</p> 
<p style="text-align: center;">15/16" Combination / Box Wrench</p> 	<p style="text-align: center;">5/16" Magnetic Nut Driver Bit</p> 	<p style="text-align: center;">1 3/8" Step Drill Bit</p> 
<p style="text-align: center;">Clean Cloth Rags</p> 	<p style="text-align: center;">Rubbing Alcohol (Isopropyl)</p> 	<p style="text-align: center;">Caulk Gun (use with BOND THREE)</p> 

## Tips & Clarifications

Please take the time to read this section; it may help prevent a lot of unnecessary work.

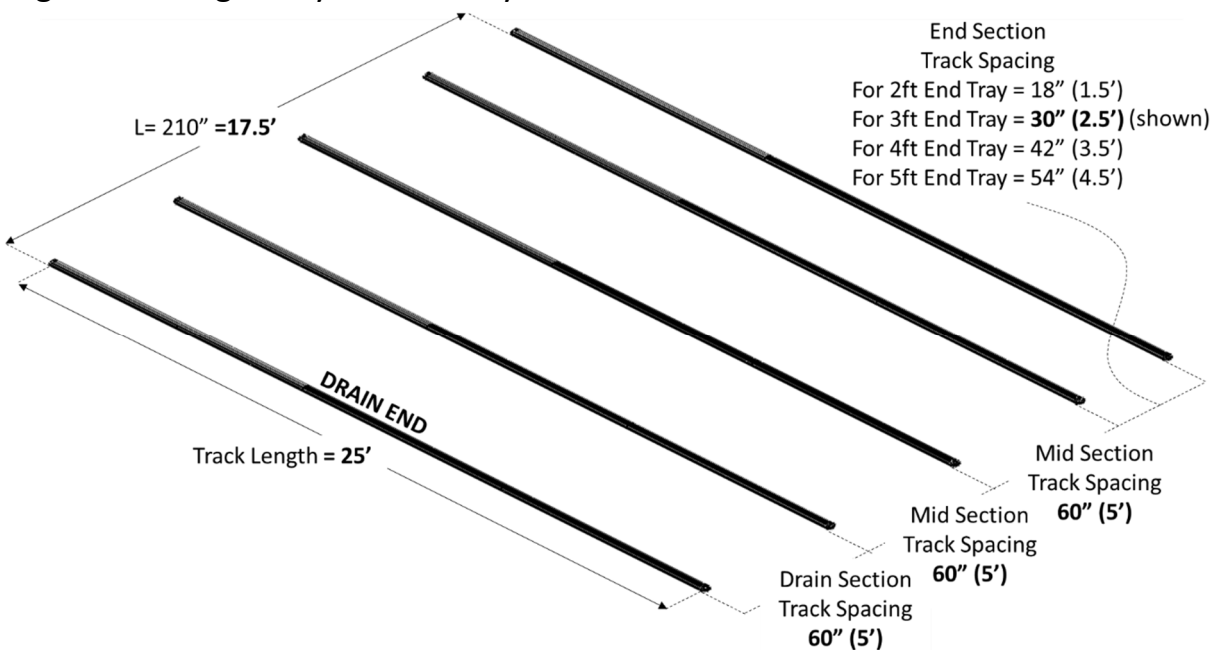
### Basic Track Dimensions

**Track Length:** Track is sold by total assembled length in half foot increments, starting at 8ft and going up to 120ft (e.g. 8ft, 8.5ft, 9ft, ..., 119ft, 119.5ft, 120ft). The total length of the track is a combination of track sections of various lengths (8ft, 5ft, 4ft, 3ft, and 1.5ft) that, when installed together, results in the total track length. See below example of a 25ft length of track.

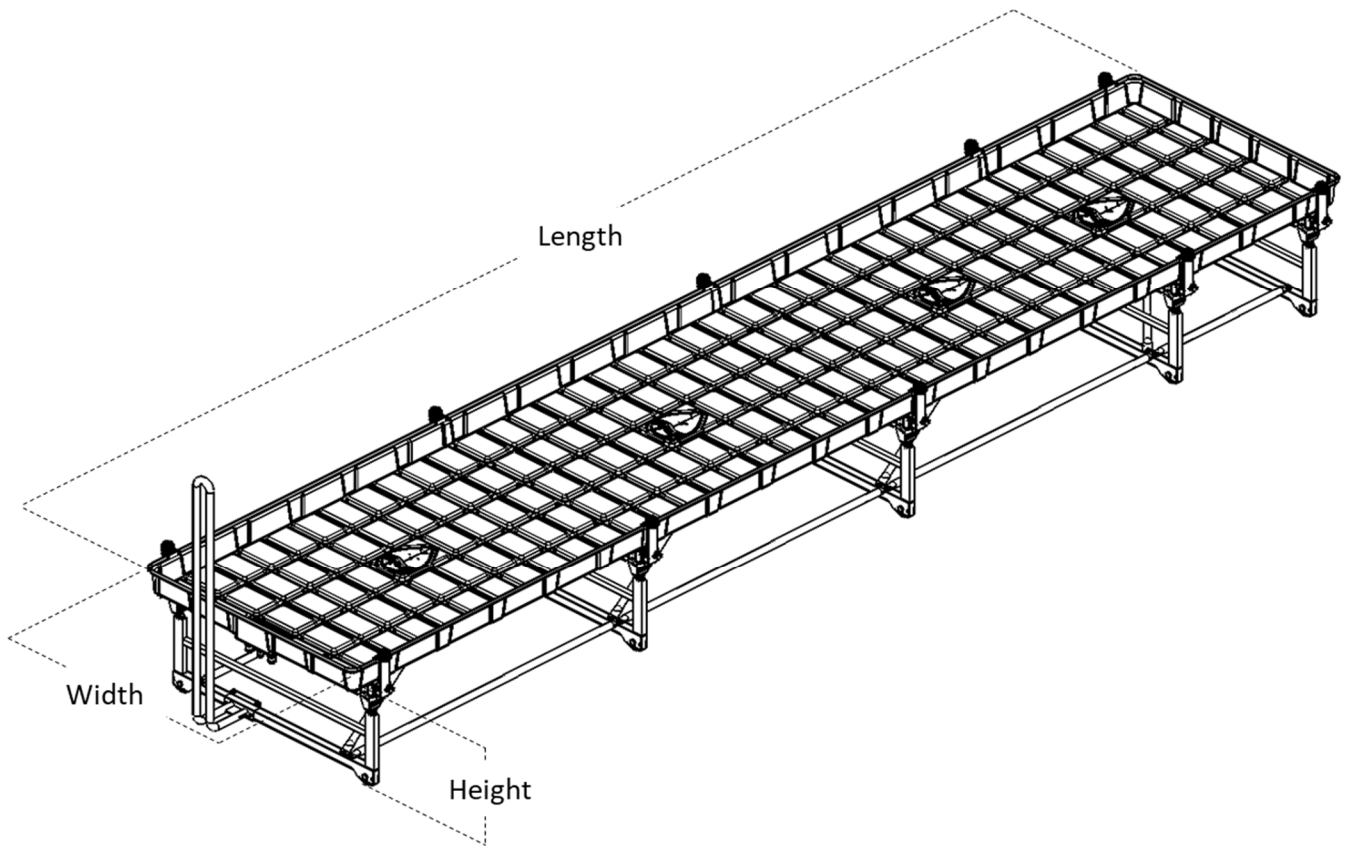


To determine the quantities and combinations of track sections needed to create an assembled length of track, refer to [Appendix A](#).

**Track Spacing:** This is the layout of the assembled lengths of track relative to one another for an 18.5ft long bench. Note that the track spacing of the drain and mid sections along the length of the bench is the same 60in (5ft) distance. The spacing for the end section varies, depending on the length of your end tray.



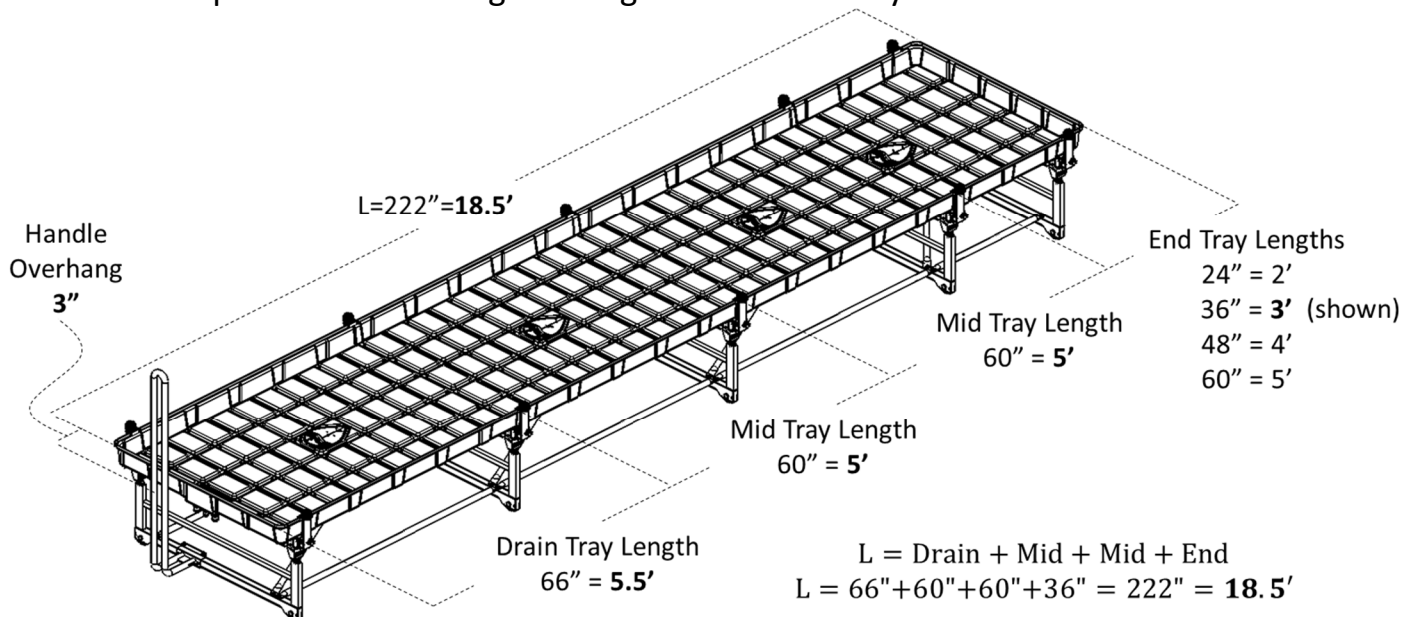
## Basic Bench Dimensions



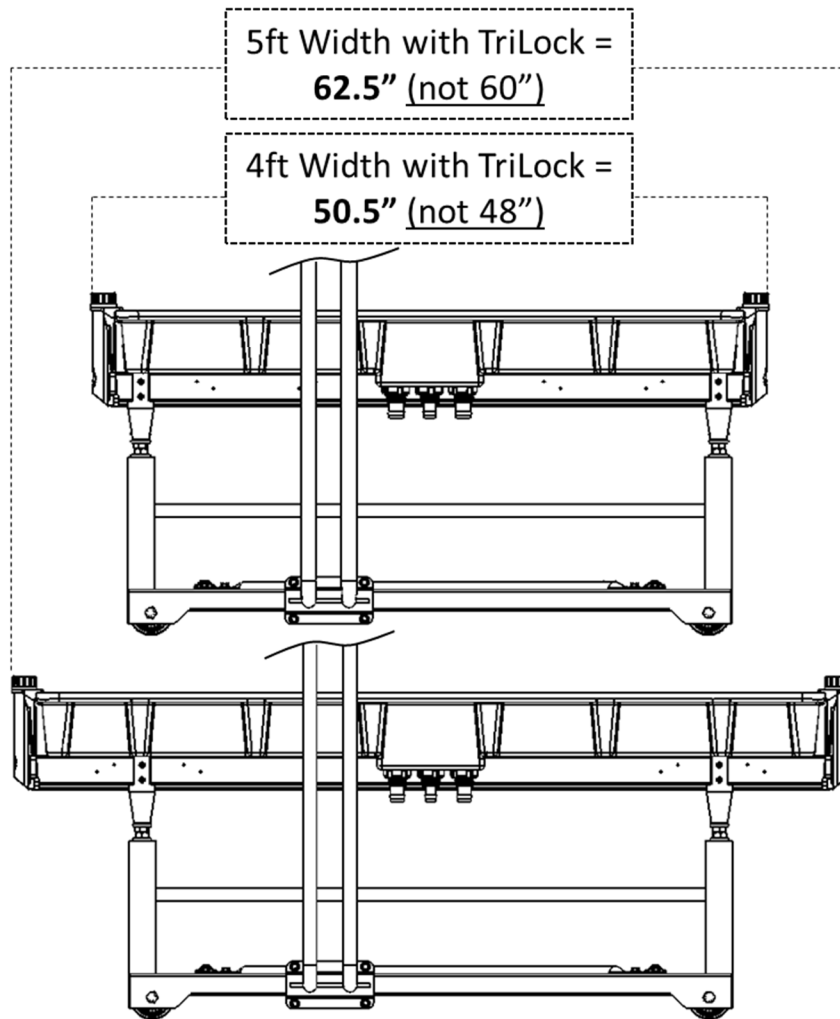
A single Track Bench can be described using three values: Length, Width, and Height

**Length:** This is the total outside dimension of the trays in feet from the outermost edge of the drain tray to the outermost edge of the end tray. This value will always end in a half-foot increment, e.g. 7.5ft, 18.5ft, etc. Note the additional 3in length required for the handle.

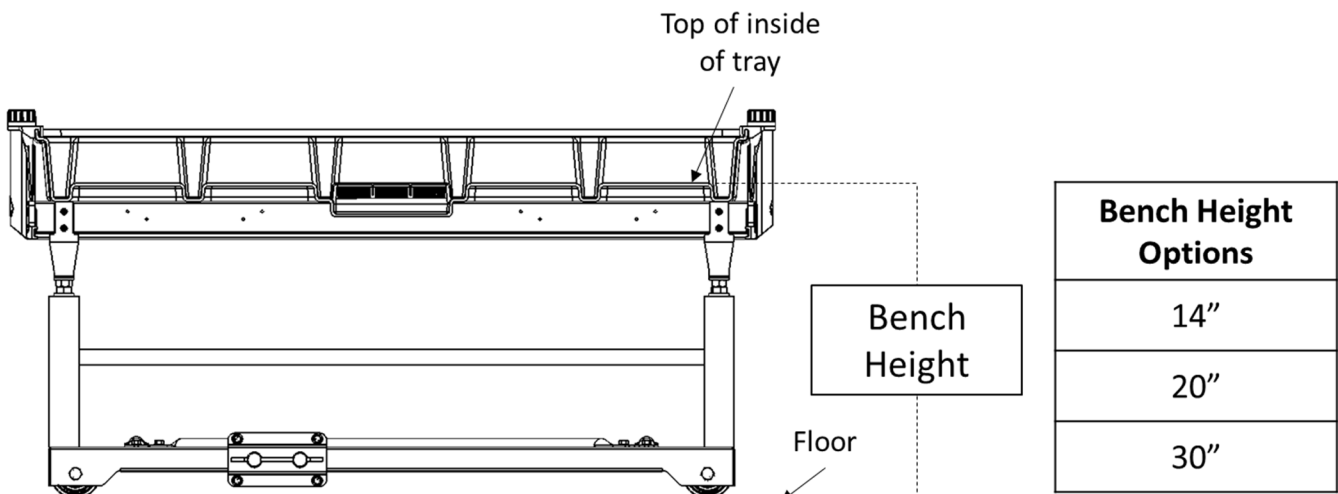
- The bench length is determined by the trays being used in the system. See below example for determining the length of a finished system.




**Width:** This is the total outside dimension of the system from the selected trellis option. In general terms, a system is referred to as either “4ft” or “5ft” width even though the outside dimension is different due to the trellising option.

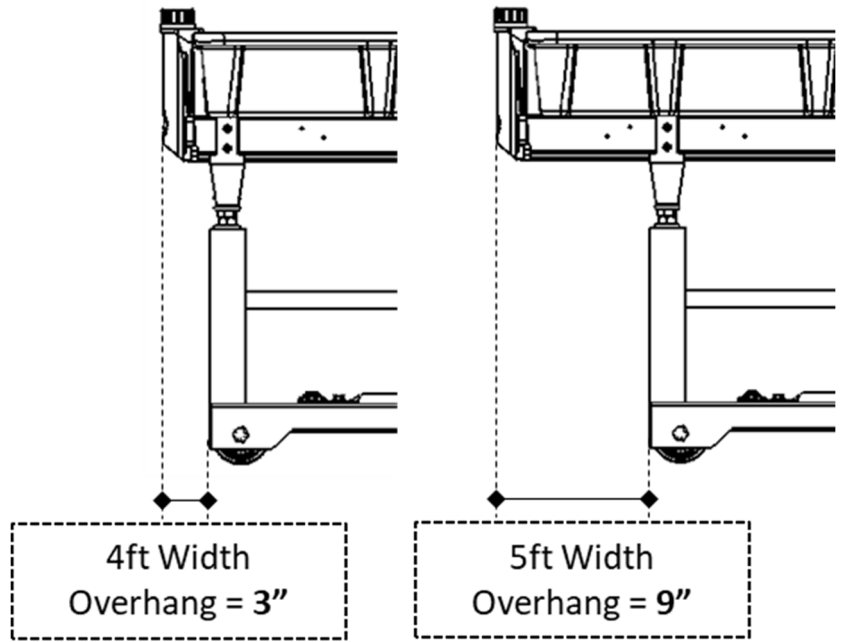


**Height:** This is the approximate distance in inches from the floor to the bottom of the tray where plants would sit and *not* the total height of the bench. See image below.



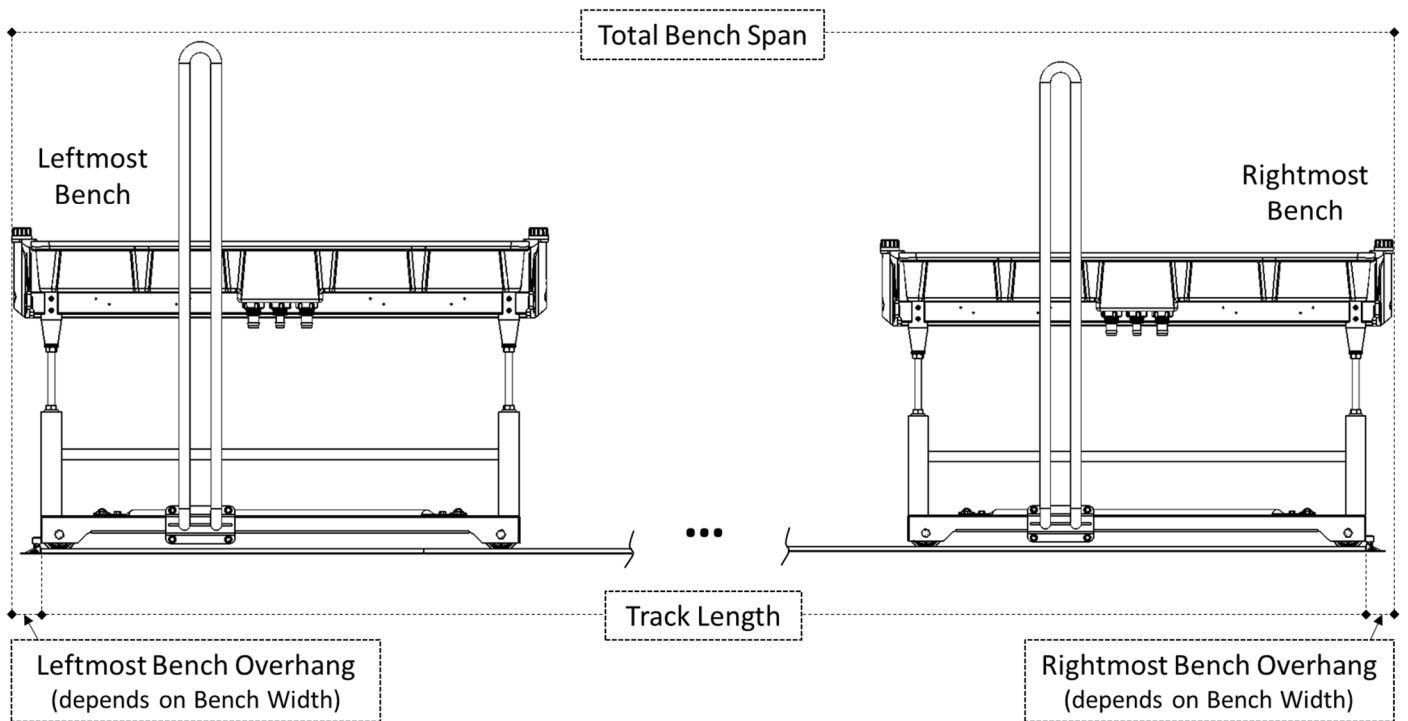
**Bench Overhang:** This is the amount that the outermost point of the bench is offset from the base of the bench. This dimension is important when laying out rooms, as the tracks are designed with bump stops to prevent benches from coming off the track.

 **If the overhang is not accounted for while designing benches for the room, benching may contact walls or other obstructions causing damage.**

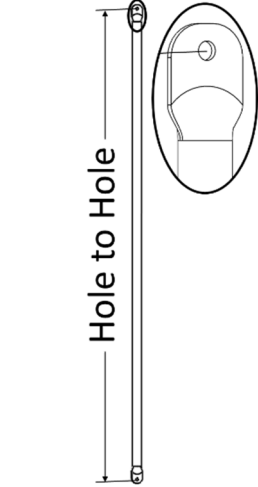
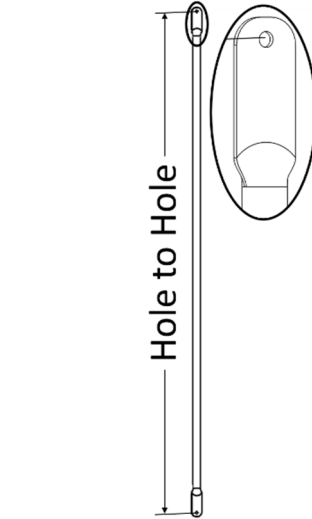
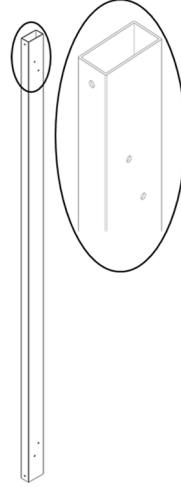


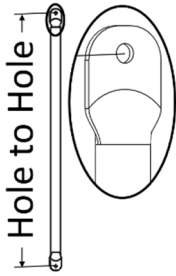
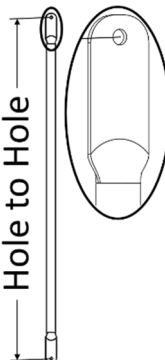
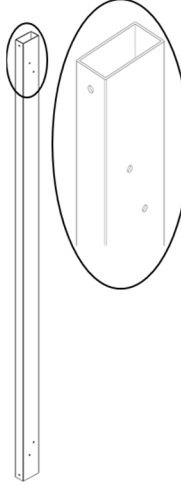
**Total Bench Span:** This is the distance between the outermost points of the two exterior benches on the left and right sides of a room when moved to their extremes (touching the bump stops). The total bench span is dependent on the length of track, the leftmost bench overhang, and the rightmost bench overhang.

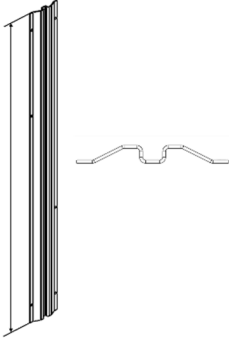
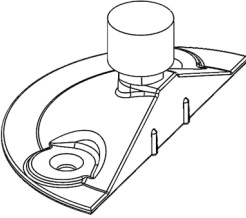
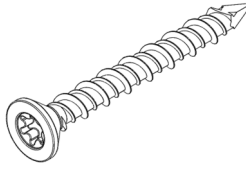
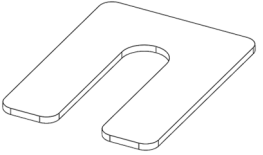
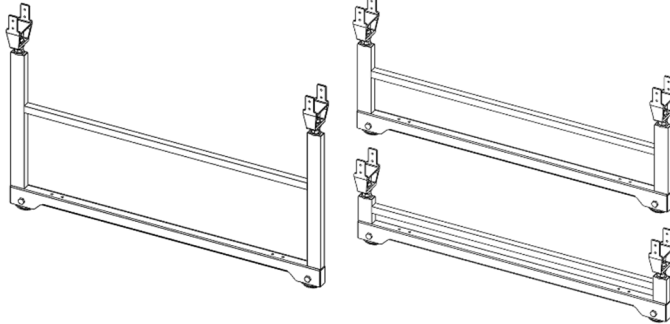
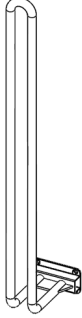
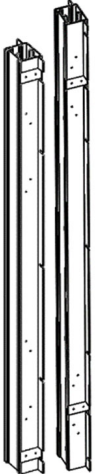

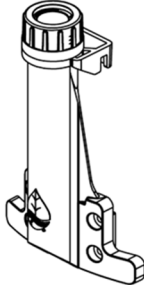
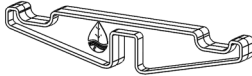

$$\text{Total Bench Span} = \text{Track Length} + \text{Rightmost Bench Overhang} + \text{Leftmost Bench Overhang}$$

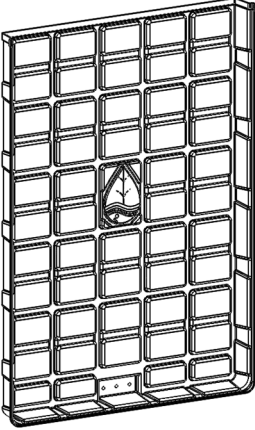
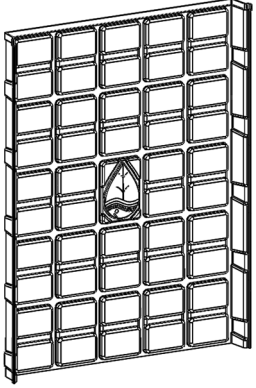
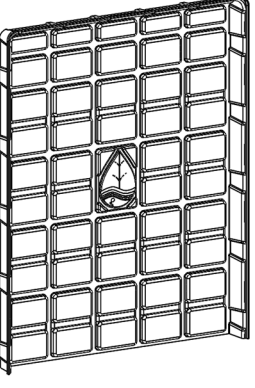
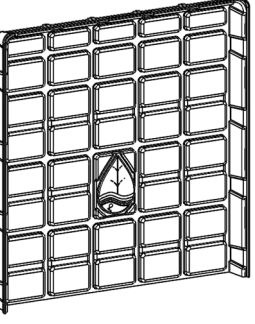
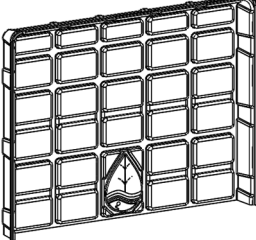
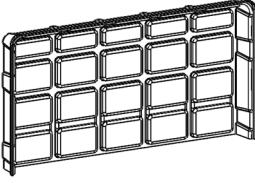
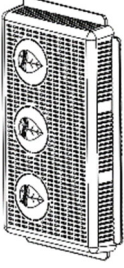
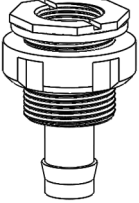
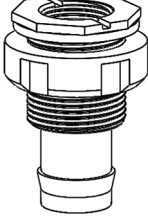

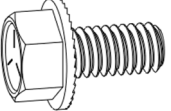

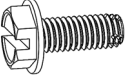




## Hardware and Parts Included

Drain & Middle Section Tube Identification		
<p style="text-align: center;">White Stability Brace</p>  <p style="text-align: center;"><b>(MS5531) 60"</b></p>	<p style="text-align: center;">Blue Diagonal Stability Brace</p>  <p style="text-align: center;"><b>(MS5543) 67.3"</b></p>	<p style="text-align: center;">Long Table Tube</p>  <p style="text-align: center;"><b>(MS3295) 57"</b></p>

End Section Tube Identification		
<p style="text-align: center;">White Stability Brace</p>  <p style="text-align: center;">For 5' End Tray <b>(MS5532) 54"</b>                      For 4' End Tray <b>(MS5533) 42"</b>                      For 3' End Tray <b>(MS5534) 30"</b>                      For 2' End Tray <b>(MS5535) 18"</b></p>	<p style="text-align: center;">Blue Diagonal Stability Brace</p>  <p style="text-align: center;">For 5' End Tray <b>(MS5544) 62.0"</b>                      For 4' End Tray <b>(MS5545) 51.9"</b>                      For 3' End Tray <b>(MS5546) 42.8"</b>                      For 2' End Tray <b>(MS5547) 35.4"</b></p>	<p style="text-align: center;">Short Table Tube</p>  <p style="text-align: center;">For 5' End Tray <b>(MS3290) 51"</b>                      For 4' End Tray <b>(MS3809) 39"</b>                      For 3' End Tray <b>(MS3810) 27"</b>                      For 2' End Tray <b>(MS3821) 15"</b></p>

<p><b>Track</b></p>  <p><b>(MS5539)</b> 8' (96")  <b>(MS5540)</b> 5' (60")  <b>(MS5541)</b> 4' (48")  <b>(MS5542)</b> 3' (36")  <b>(MS5631)</b> 1.5' (18")</p>	<p><b>Bump Stop</b></p>  <p><b>(FC1171)</b></p>	<p><b>3/16" x 1 3/4" Concrete Tapping Screw</b></p>  <p><b>(FA1165)</b></p>	<p><b>3 x 4 x 1/8" Horseshoe Shim (if necessary)</b></p>  <p><b>(HGC732426)</b></p>	
<p><b>Skate Assembly</b></p>  <p>14" <b>(FC1164)</b>  20" <b>(FC1165)</b>  30" <b>(FC1166)</b></p>		<p><b>Handle Assembly</b></p>  <p><b>(FC1168)</b></p>		
<p><b>Table Extrusion</b></p>  <p>4' <b>(MS3296)</b>  5' <b>(MS3431)</b></p>	<p><b>Corner Bracket</b></p>  <p><b>(MS3289)</b></p>	<p><b>TriLock Trellising Support</b></p>  <p><b>(HGC706110)</b></p>	<p><b>Tray Support</b></p>  <p><b>(MC2651)</b></p>	<p><b>Bond Three Adhesive</b></p>  <p><b>(HGC706016)</b></p>

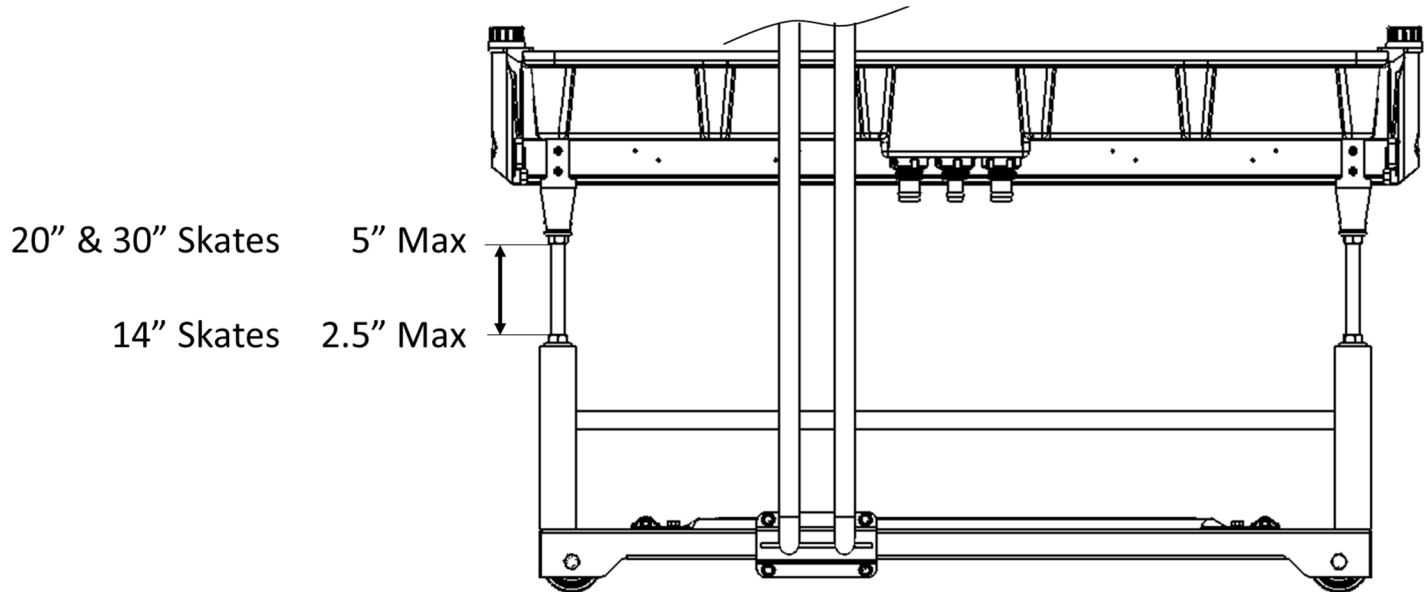
<p>OG Drain Tray</p>  <p>4' (HGC706009) 5' (HGC706663)</p>	<p>OG Middle Tray</p>  <p>4' (HGC706012) 5' (HGC706667)</p>	<p>OG 5' L End Tray</p>  <p>4'x5'L (HGC706010) 5'x5'L (HGC706668)</p>	<p>OG 4' L End Tray</p>  <p>4'x4'L (HGC706162) 5'x4'L (HGC706165)</p>	<p>OG 3' L End Tray</p>  <p>4'x3'L (HGC706163) 5'x3'L (HGC706166)</p>
<p>OG 2' L End Tray</p>  <p>4'x2'L (HGC706164) 5'x2'L (HGC706167)</p>	<p>Drain Screen</p>  <p>(HGC708573)</p>	<p>3/4" Bulkhead Drain Fitting</p>  <p>(HGC708552)</p>	<p>1" Bulkhead Drain Fitting</p>  <p>(HGC708558)</p>	<p>Threaded Rod (Preassembled to Skate)</p>  <p>14" (MS5536) 20", 30" (MS5537)</p>
<p>5/16"-18 x 5/8" Hex Head Screw</p>  <p>(FA1164)</p>	<p>10-32 x 1" Thread Cutting Hex Head Screw</p>  <p>(MS3299)</p>	<p>10-32 x 1/2" Thread Cutting Hex Head Screw</p>  <p>(MS3291)</p>	<p>5/8"-11 Hex Nut (Preassembled to Skate)</p>  <p>(MS3255)</p>	<p>5/8" Flat Washer (Preassembled to Skate)</p>  <p>(MS3256)</p>



## Maximum Threaded Rod Extension



Do not extend the threaded rods too far from the skates. Doing so may result in the failure of the bench which can result in equipment damage and/or injury. See image below for height details.



## Setting the Drill Clutch



Use a drill with clutch! Do not overtighten screws as this will strip the threads.

- Every drill is different, use caution until familiar with the drill's capabilities.
- Use the lowest setting on the drill clutch that will install the screws.
- A higher torque may be required to initially cut the threads, reduce torque for final tightening.
- After installing, hand tightening will help prevent stripping threads.
- For concrete anchors, not overtightening the anchor is important to prevent breakage.

# Bench Assembly and Installation

## Step 1. Multi-Bench Room Layout

Use the room layout calculator tool to determine the quantity and types of benches, position of track, and desired room aisle widths between and around the benches.

Need help? We're here for you. Scan the QR code on the right to visit the benching page on botanicare.com and request a personalized layout.



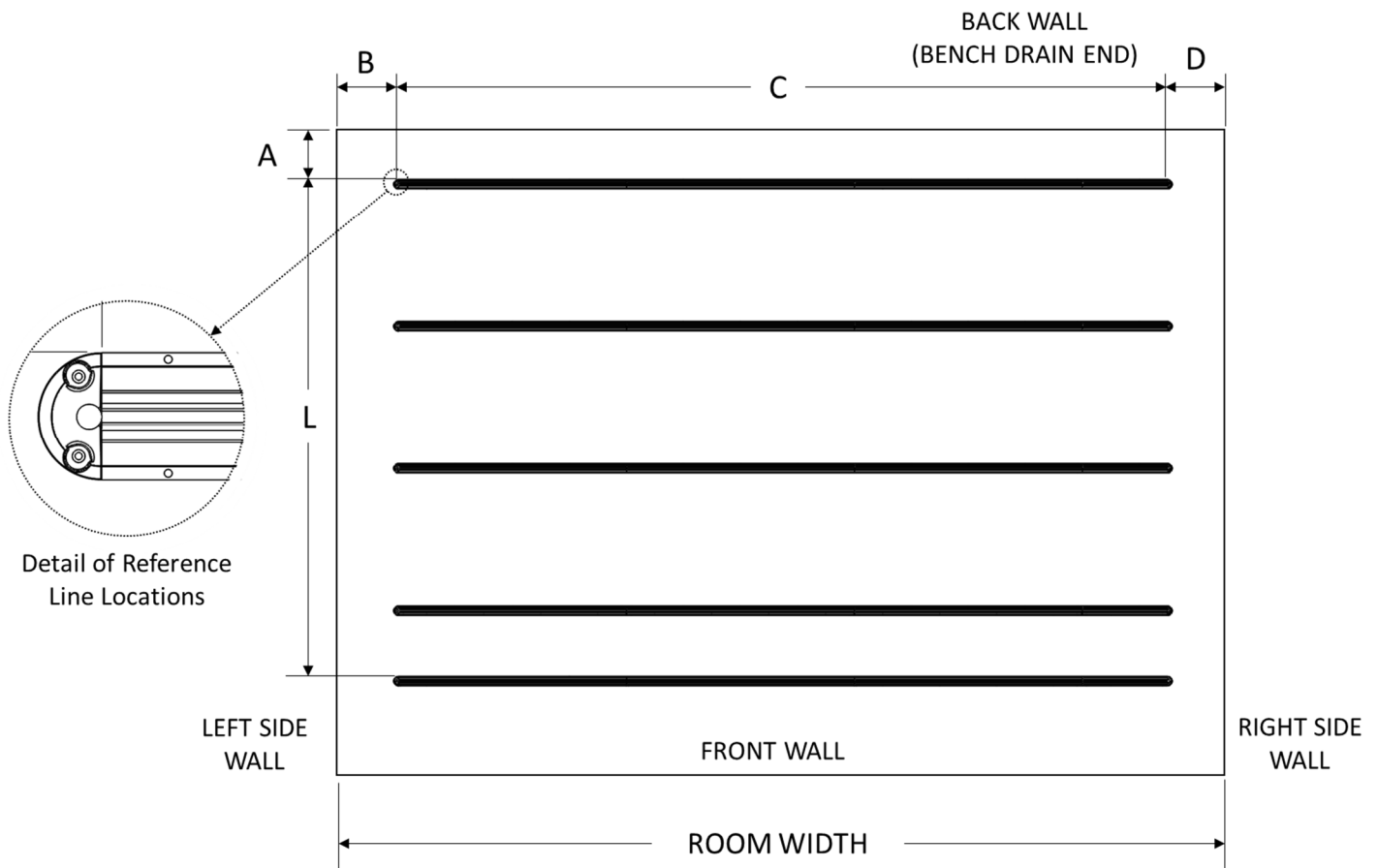
**ALWAYS layout the entire room prior to assembly of hardware.**



**Precise layout of the room prior to the assembly of any benches will help in achieving the desired spacing around and between the benches. Always verify layouts are square by checking the diagonal distance between opposing corners are equal. Do not rely on the walls being straight or square.**

### Room Orientation

These instructions will use the following room orientation.



Worksheet: Room Layout Calculator

Bench Length:  ft

Track Length:  ft

**A. Track Distance from Back Wall**

Enter desired spacing from back wall (in inches) here:  +  =  in

Back Aisle Width (in)  
 Handle located on drain end **7 1/2"**  
 Handle located opposite drain end **4 1/2"**

**B. Track Distance from Left Side Wall**

Enter desired minimum left aisle width (in inches) here:  +  =  in

Minimum Left Aisle Width (in)  
 4' bench on left side add **3"**  
 5' bench of left side add **9"**

**C. Track Length**

Enter track length (in feet) here:  x **12"** =  in

Distance C

**D. Track Distance from Right Side Wall**

Enter room width (in inches) here:  -  -  =  in

Distance D

**E. Distance "L"**

Distance from the first track to the last track.

Enter bench length (in feet) here:  x **12"** - **12"** =  in

Distance B      Distance C      Distance L

(Note, bench length value must end in .5 foot. Distance L can also be found in Appendix B of Assembly Instructions)

**F. Minimum Right Aisle Width**

Enter Distance D (in inches) here:  -  =  in

Minimum Right Aisle Width  
 4' bench on right side subtract **3"**  
 5' bench of right side subtract **9"**

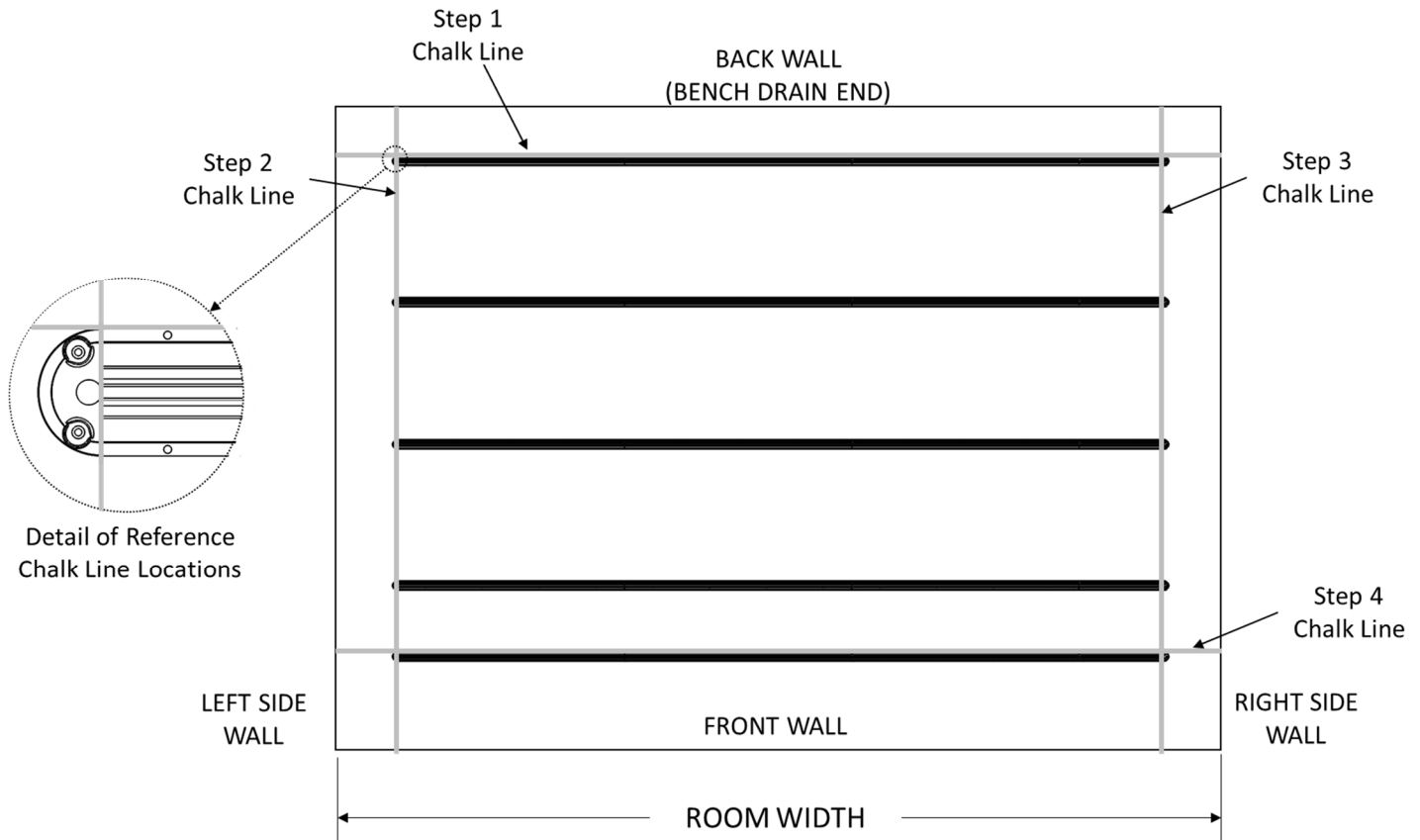
**G. Front Aisle Width**

Enter room length (in inches) here:  -  -  -  =  in

Front Aisle Width  
 Handle located on drain end **8 1/2"**      Distance A      Distance L  
 Handle located opposite drain end **11 1/2"**

## Lasering / Chalking the Room

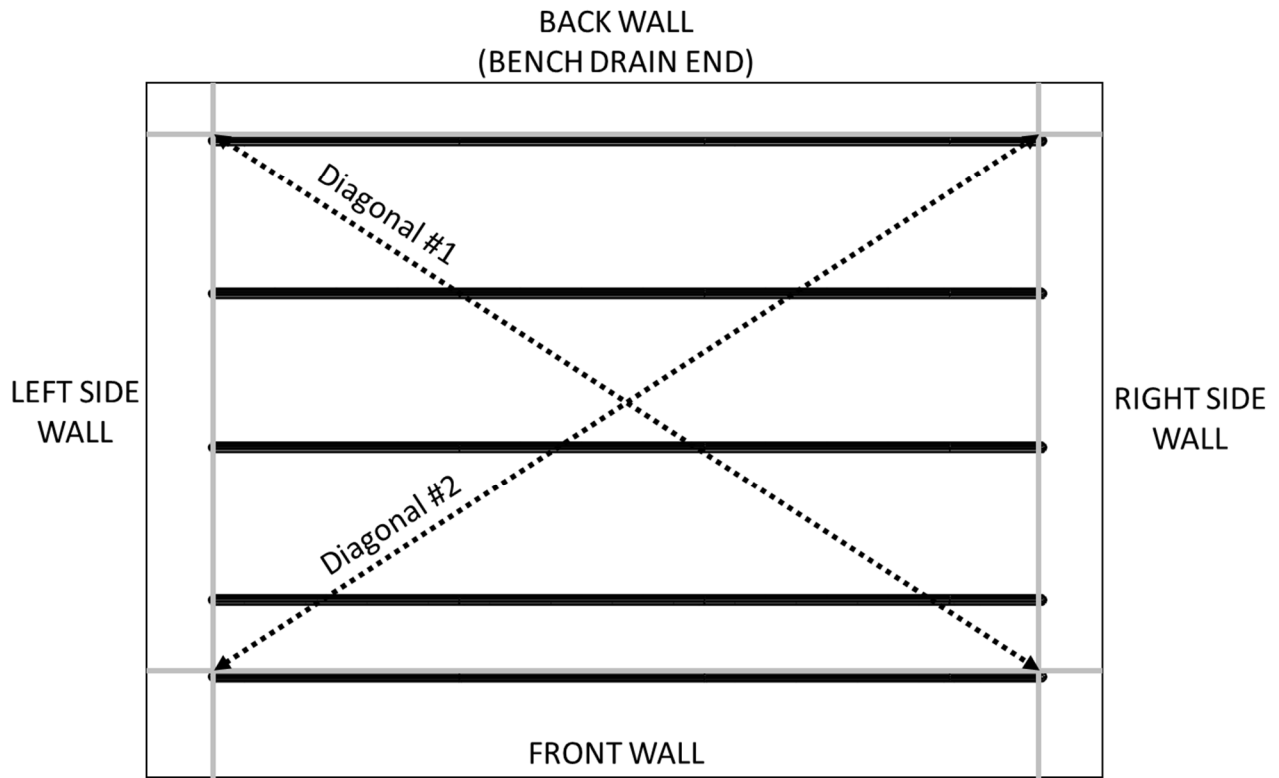
1. Measure "Distance A" from the back wall (bench drain end); snap a chalk line or use a layout laser along the back wall from left to right. This will determine the location of the front of the first track.
2. Measure "Distance B" from the left wall; snap a chalk line or use a layout laser along the left wall from back to front. This will determine the end of the left side of the track.
3. Measure "Distance C" from the line created in step 2, snap a parallel chalk line from back to front. This will determine the end of the right side of the track.
4. Measure "Distance L" from the front of the first track; snap a parallel chalk line from the line made in step 1. This will determine the location of the front of the last track.



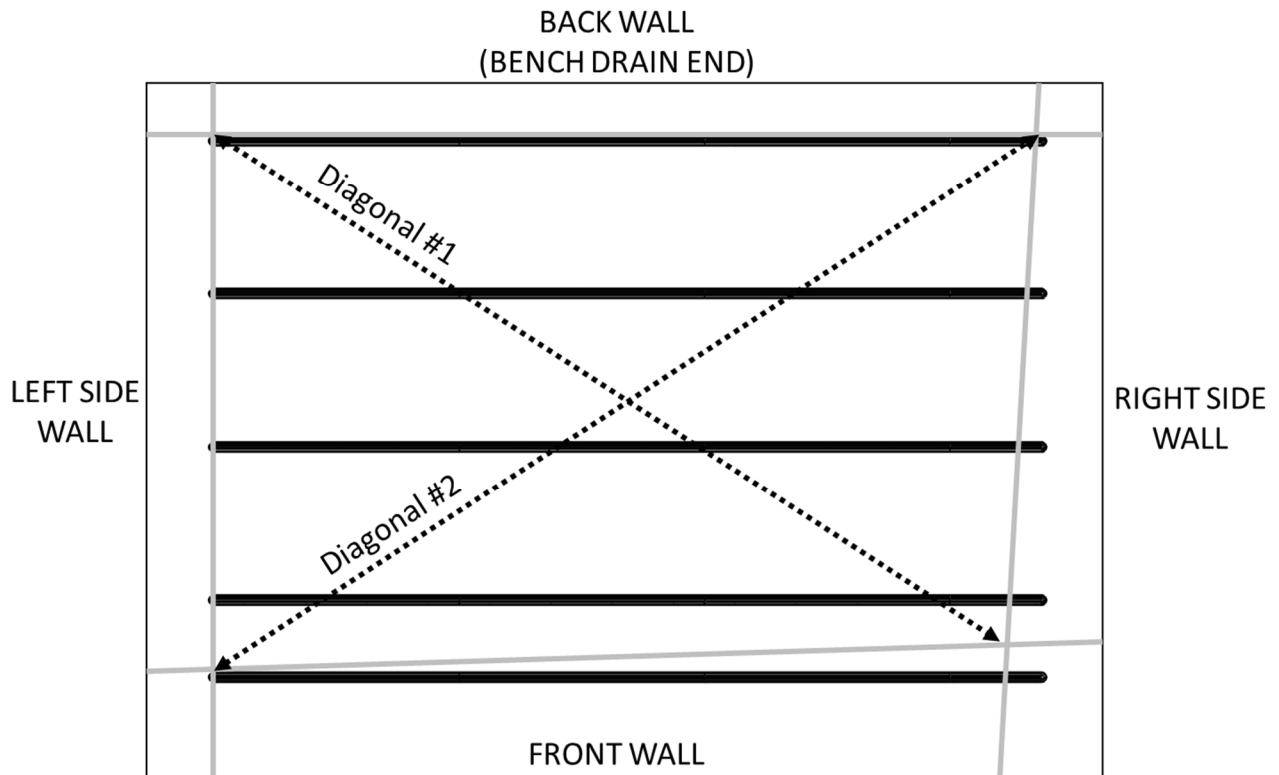
5. Measure the distance from one chalk/laser line corner to the opposite chalk/laser line corner. Repeat on the other diagonal. These two values should be equal – if not, the chalk/laser lines are not square and this will cause issues with install and bench function. Even if the walls of the room are not square, the layout lines must be square. If necessary, start over from step 1 until the lines are square.



Layout lines are square to one another and the diagonal measurements are equal!



Layout lines are not square to one another and the diagonal measurements are not equal!



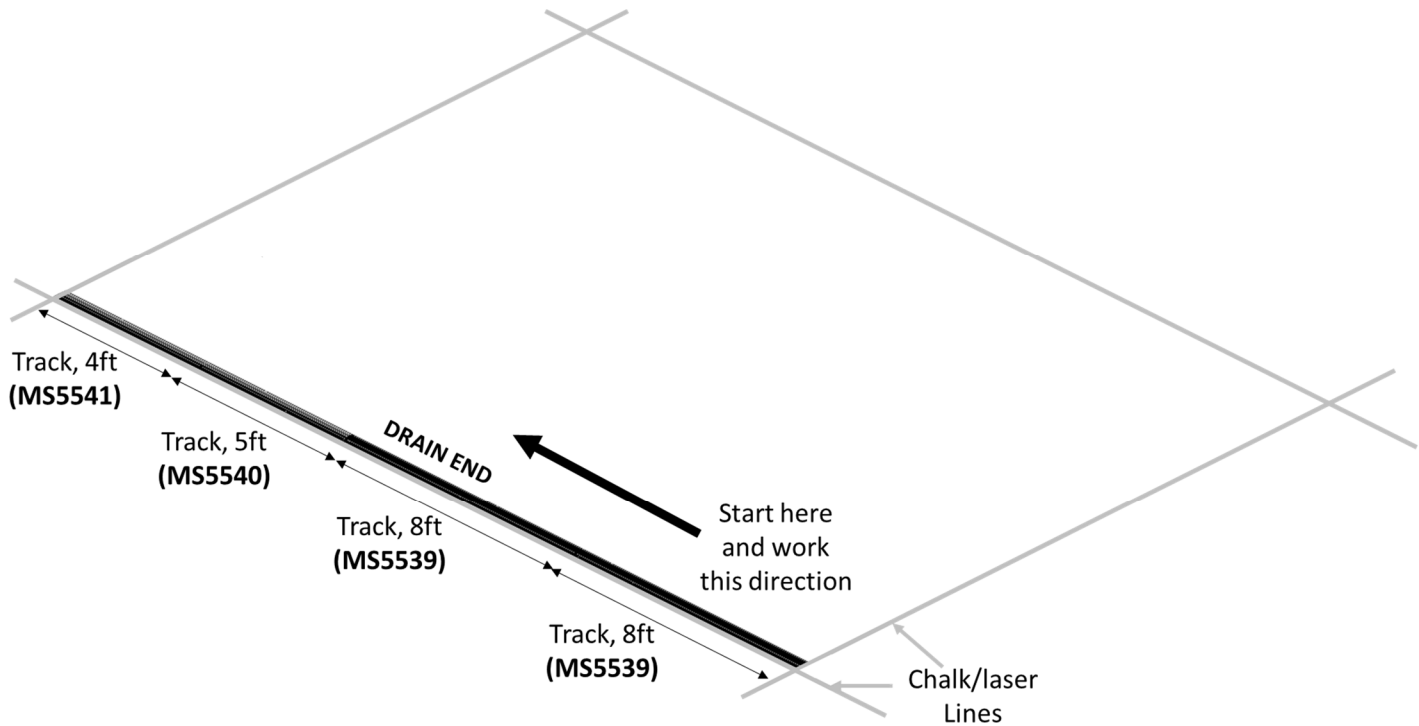
## Step 2. Track Installation

Starting from the chalk/laser



If your floor is not level, refer to [Appendix C](#) for best practices and options for leveling track.

line intersection by the back/drain wall and the left side wall, layout the combination of track sections (see [Appendix A](#)) needed to reach the chalk/laser line intersection by the back/drain wall and the right side wall. It is recommended to start with 8ft sections of track and use shorter sections of track as you go. Confirm that the track assembly in the first row is the correct length when laid out on the floor.



Follow anchor manufacturer's instruction to drill to the proper depth and diameter. Failure to do so can result in broken anchors.



Clean out holes before installing anchors. Failure to do so can result in broken anchors.



Before starting, it is recommended to test the drilling and anchoring process in an inconspicuous area of your floor to make sure the settings on your tools are correct and anchors can be driven without breakage or failure.

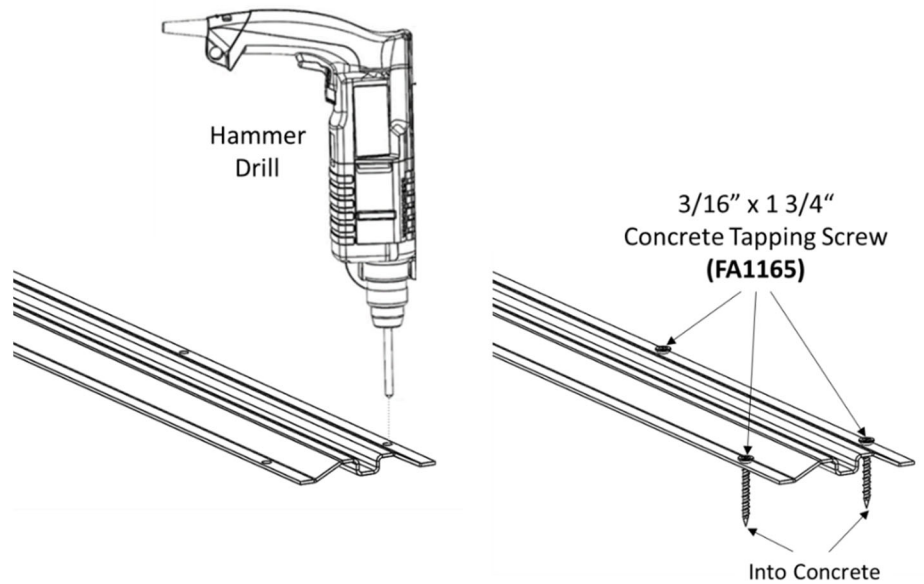


All track mounting locations must have the anchors installed and properly tightened to prevent damage to the bench or a component failure that could result in injury.



Do not drill into post tension slabs.

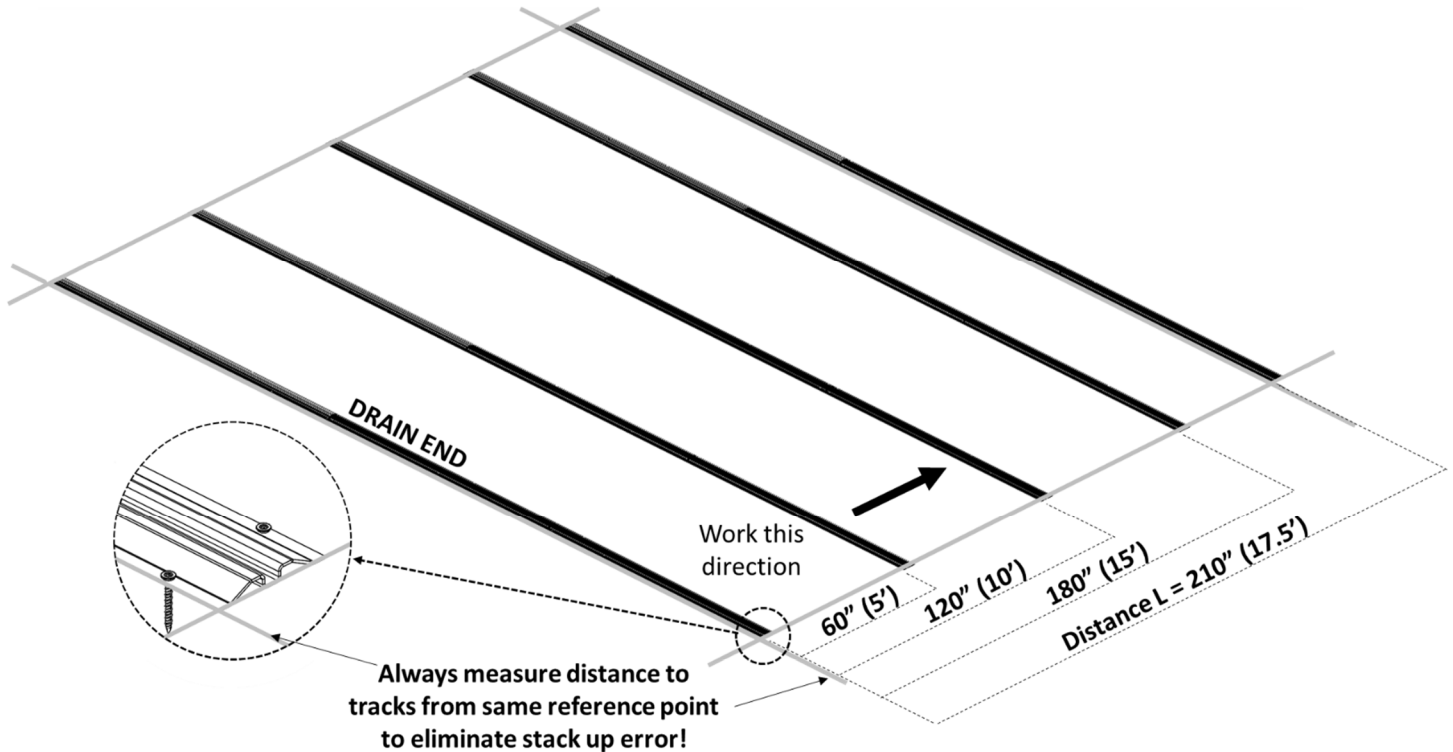
Use a hammer drill and 5/32" masonry drill bit to drill through the holes in the track to a depth of at least 2". Use compressed air or a wet/dry vacuum to completely remove floor debris from the holes. Holes must be cleaned prior to anchoring or breakage can occur. Make sure the track stays lined up with the chalk/laser lines as the 3/16" x 1 3/4" concrete tapping screws are installed into the drilled hole with the cordless drill with



T-25 Torx driver. Do not overtighten the anchors, as this can also cause screw heads to break. Continue down the length of the track until all holes in the track have anchors.

Once the first row of track is completed, repeat these steps until the area between the chalk/laser lines are filled with tracks, working from the drain end towards the short end.

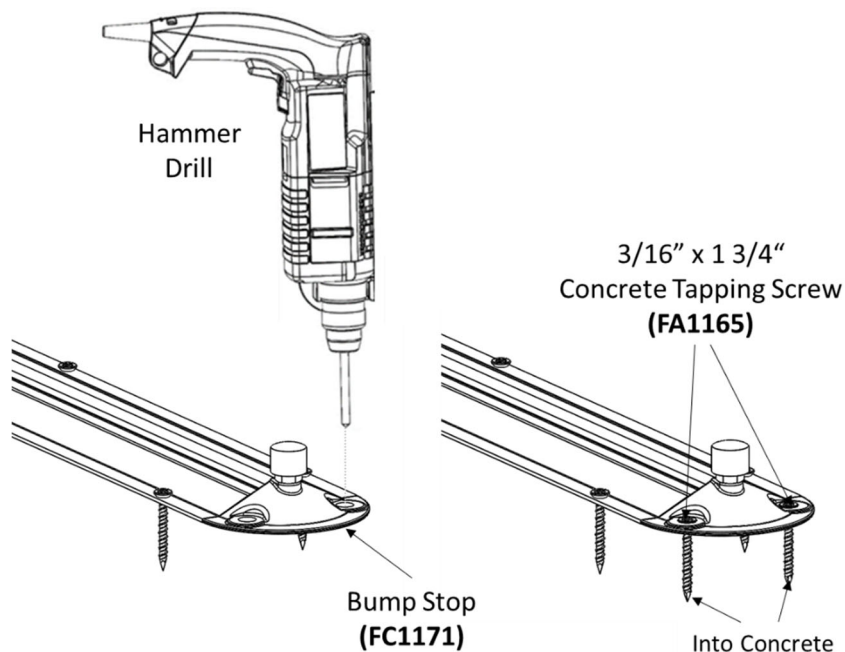
**i When measuring the distance to tracks, always use the same reference point to eliminate stack up error!**



After the track is installed, remove the protective plastic coating from the track. The bench does not function smoothly if the protective plastic coating is still attached.

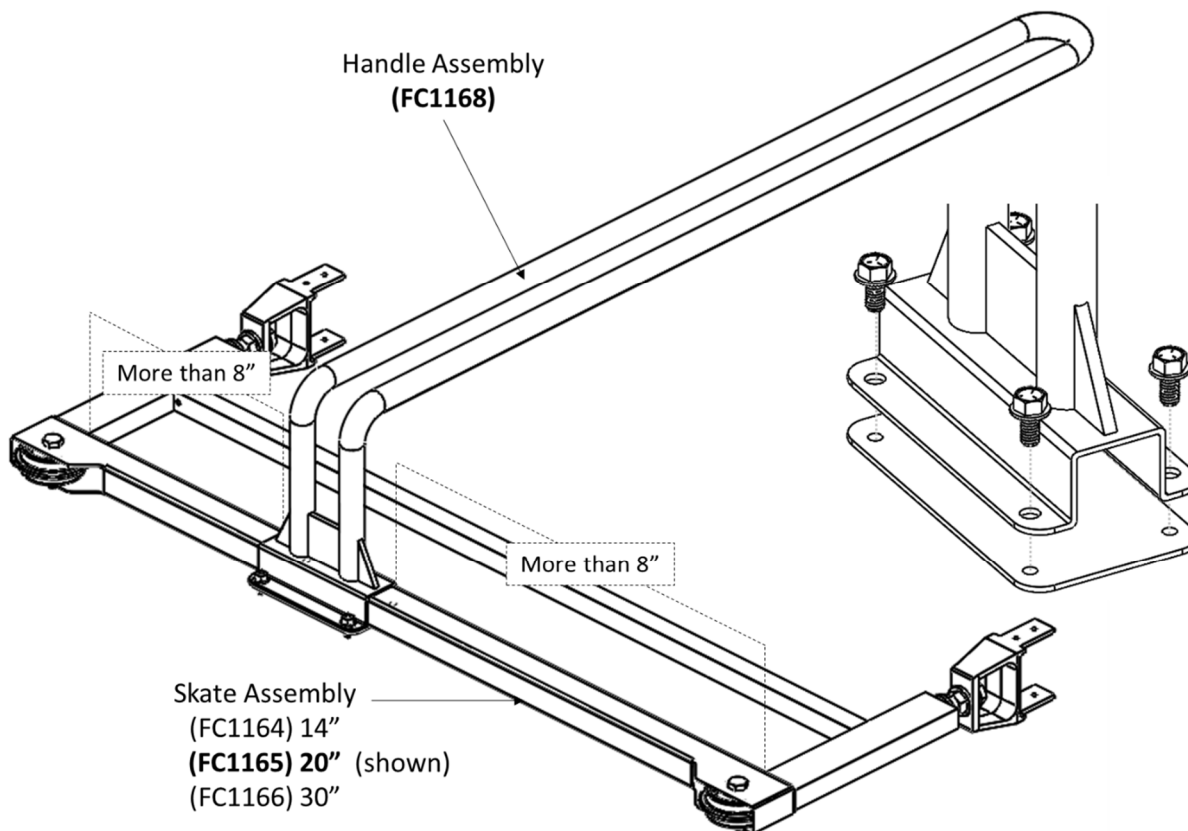
### **Step 3. Bump Stop Installation**


Bump stops are to be installed on the ends of the tracks. Use a hammer drill and 5/32" masonry drill bit to drill through the holes in the bump stop to a depth of at least 2". Install 3/16" x 1 3/4" concrete tapping screws through each bump stop with T-25 Torx driver. Repeat at each track end.



### **Step 4. Handle Assembly**

Using 1/2" combination wrench or 1/2" magnetic nut driver bit, attach the handle assembly to only one skate assembly per bench. Be sure to have the handle assembly at least 8 inches away from the inside of the skate assembly to prevent interference in future steps. We recommend exactly 8 inches from either side to prevent interference with drain components and stability braces.

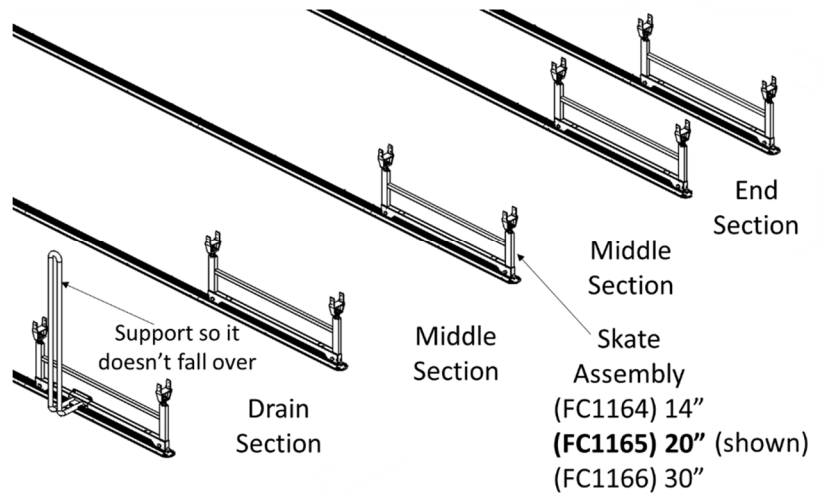


** Do not adjust the handle assembly by sliding it back and forth on the skate assembly. This can wear the powder coating. When adjusting, fully remove and reattach the handle assembly to keep this coating intact.**



## Step 5. Skate Assembly

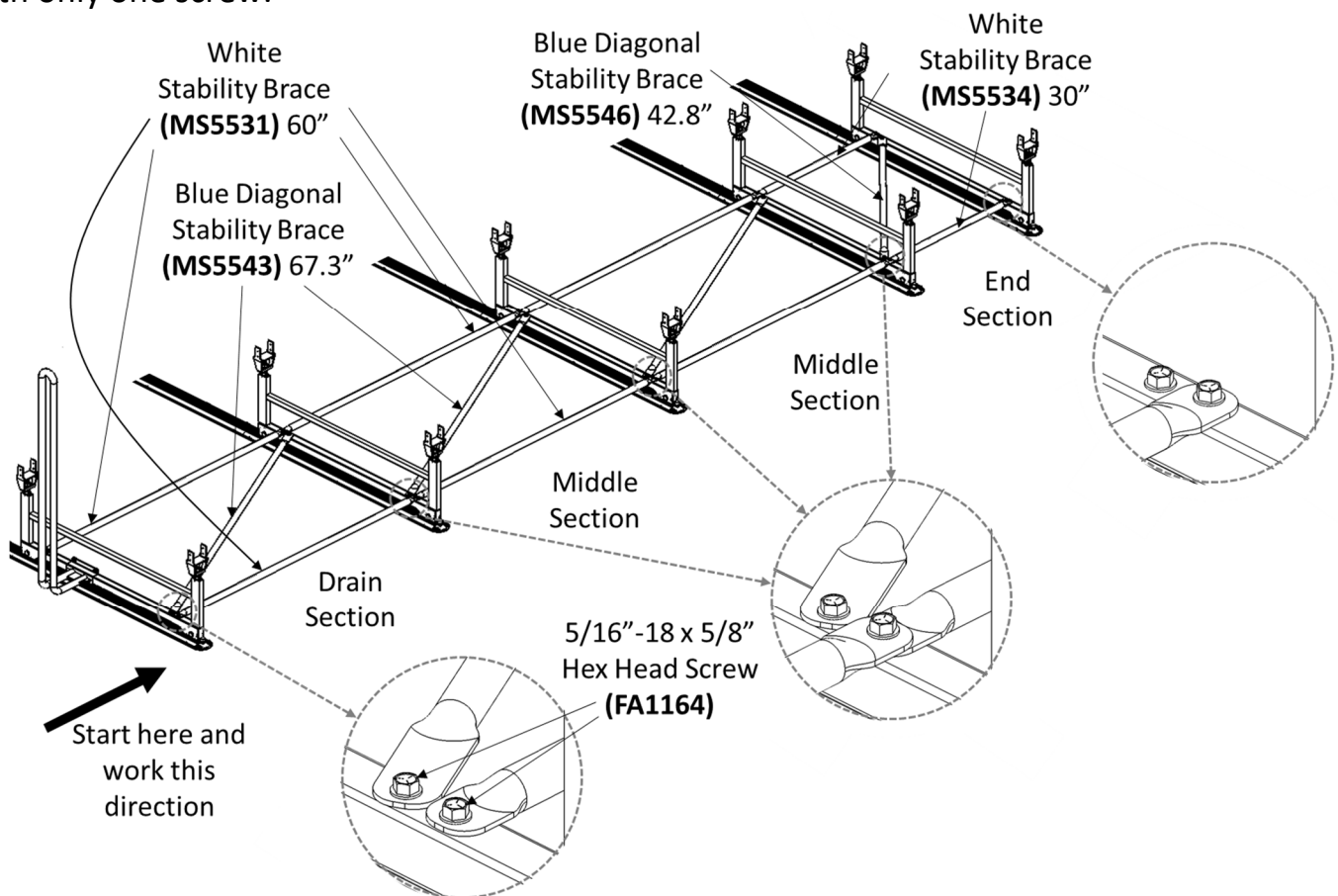
Place one skate assembly on each track location. The skate assemblies can stand up on their own (except for the skate with handle assembly). At this stage, the skate with handle assembly must be placed on either the drain or end of the bench. In this example, it will be assembled on the drain side of the bench.



If the bench is to be sloped, use the tables provided in [Appendix D](#) to roughly adjust the nuts of each skate assembly with the approximate height needed to achieve the slope.

## Step 6. Stability Brace Assembly

Starting at the drain section, attach the white stability braces and blue diagonal stability braces using 5/16"-18 x 5/8" hex head screws. Note, two white stability braces stack on top of each other on skate assemblies where two sections are joined and are held to the skate assemblies with only one screw.





**Do not tighten screws all the way down. Small adjustments are needed later to make the bench assembly square.**

Once all stability braces are in place, pull the bench all the way to touch the bump stops and tighten all screws holding down stability braces. Move the bench along the whole length of the track to confirm there is no binding. If there is any binding, verify the spacing and squareness of the track is correct (Steps 1 and 2).

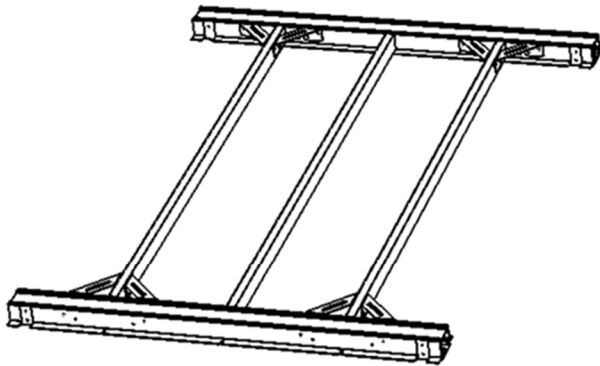


**Use drill with clutch or tighten down with wrench by hand! Do not overtighten screws as this can strip the threads.**

### **Step 7. Table Assembly**

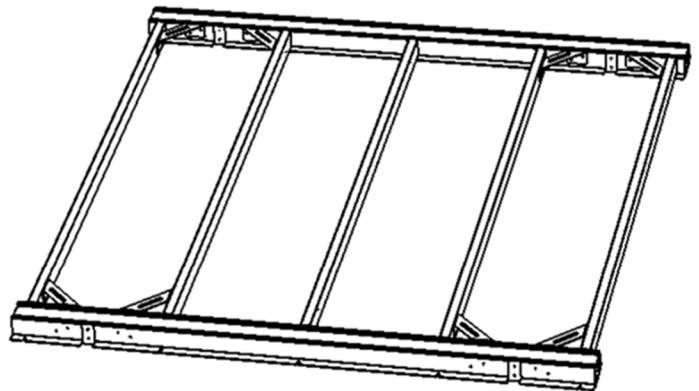


**The 4' wide table section requires 3 table tubes.  
The 5' wide table section requires 5 table tubes.  
See image below for reference.**



4' Wide Table Section

**Skip to Step 7a (page 23)**



5' Wide Table Section

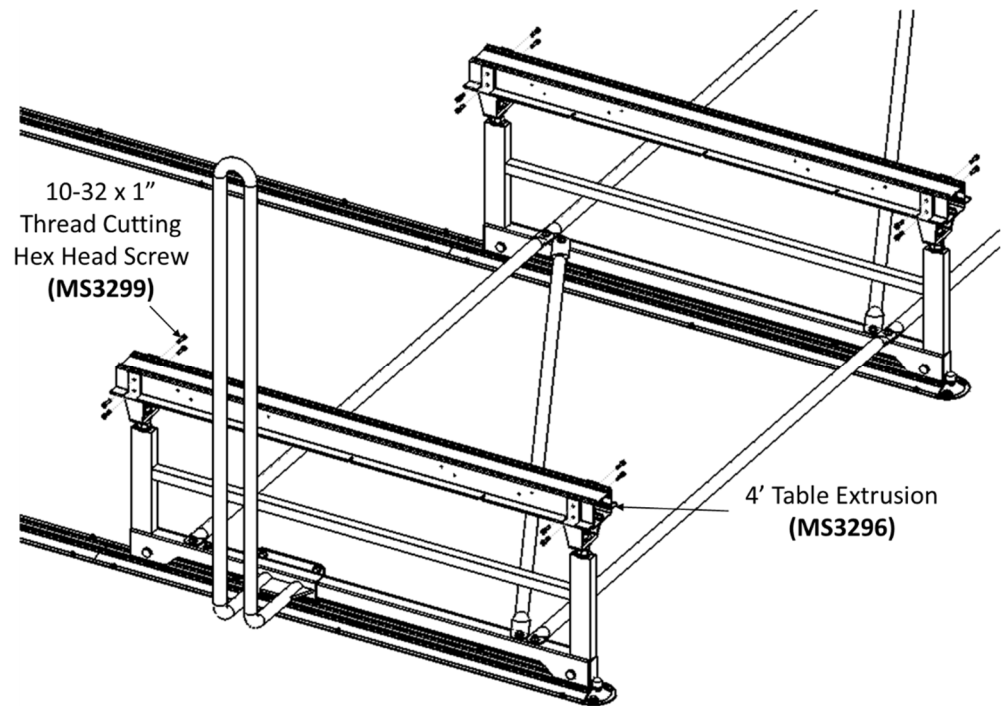
**Skip to Step 7b (page 25)**

## Step 7a. Table Assembly (4' Wide Bench Only)



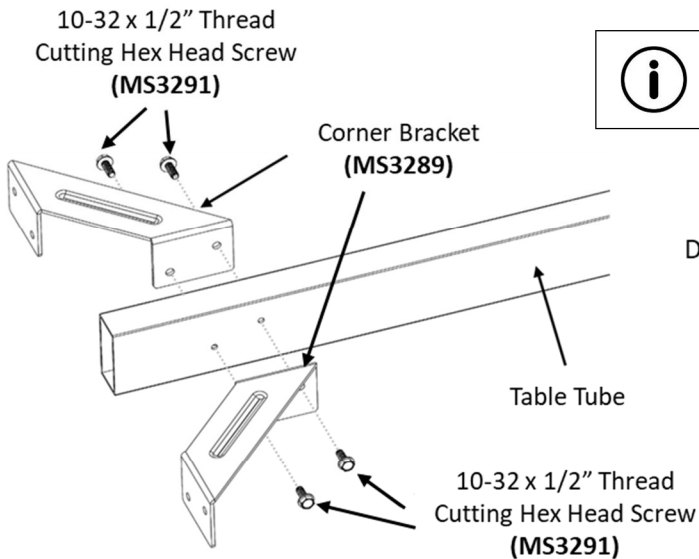
For 5' wide benches skip to [Step 7b](#).

Assemble one 4' table extrusion to every skate assembly using 10-32 x 1" thread cutting hex head screws.



**Use drill with clutch! Do not overtighten screws as this will strip the threads.**

Attach corner brackets to the table tubes.



**Only 2 of every 3 table tubes get corner brackets attached.**

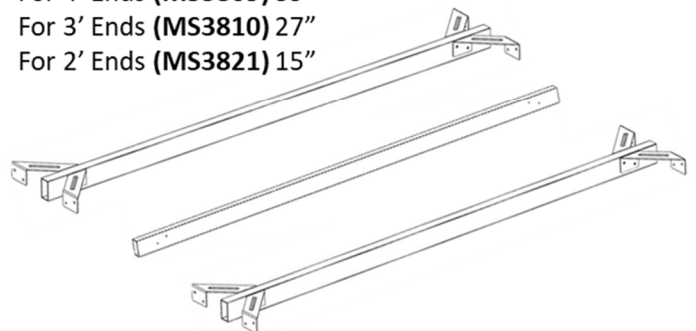
Table Tubes  
Drain/Middle Sections (MS3295) 57"

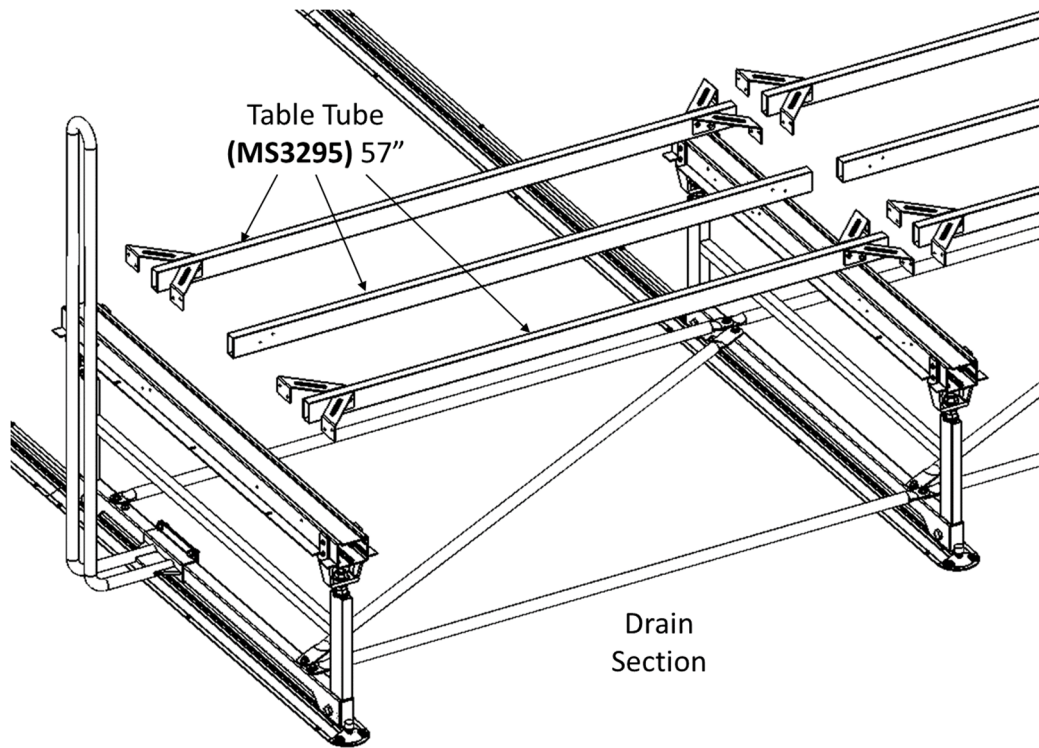
For 5' Ends (MS3290) 51"

For 4' Ends (MS3809) 39"

For 3' Ends (MS3810) 27"

For 2' Ends (MS3821) 15"

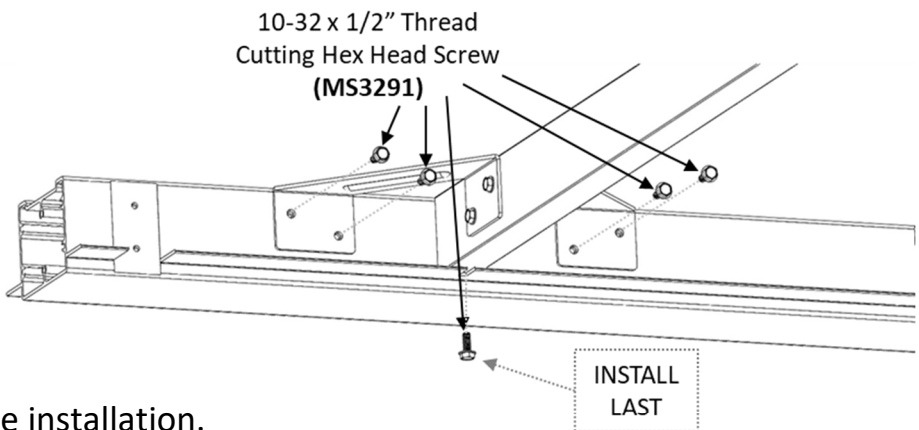




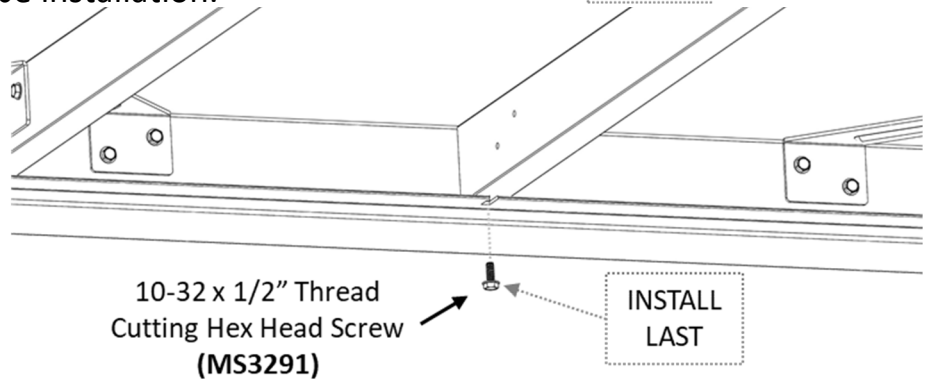
 **Use drill with clutch! Do not overtighten screws as this will strip the threads.**

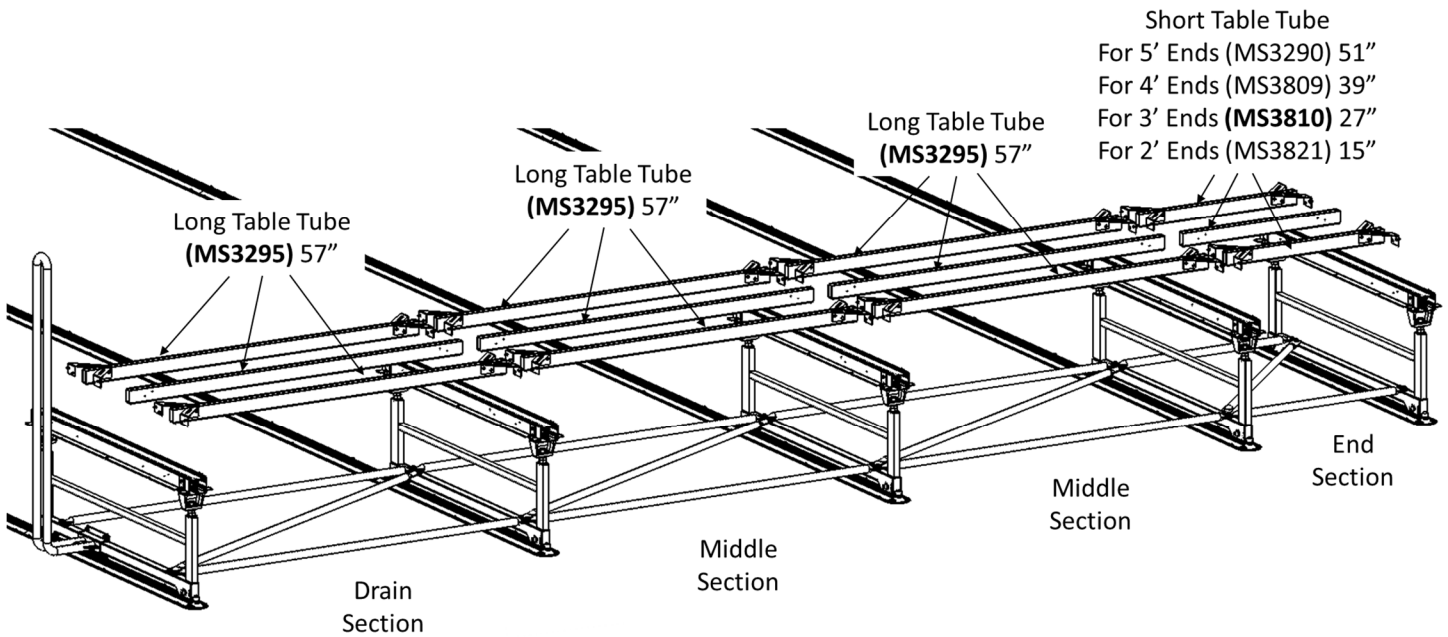
 **Install bottom screws last for a better fit between tubes and extrusion.**

Install outer tubes first.



Install middle tube after outer tube installation.





Repeat the assembly steps as described in this step for subsequent sections until you reach the end of the bench. The end section will use table tubes that are shorter than the drain section and middle section(s).

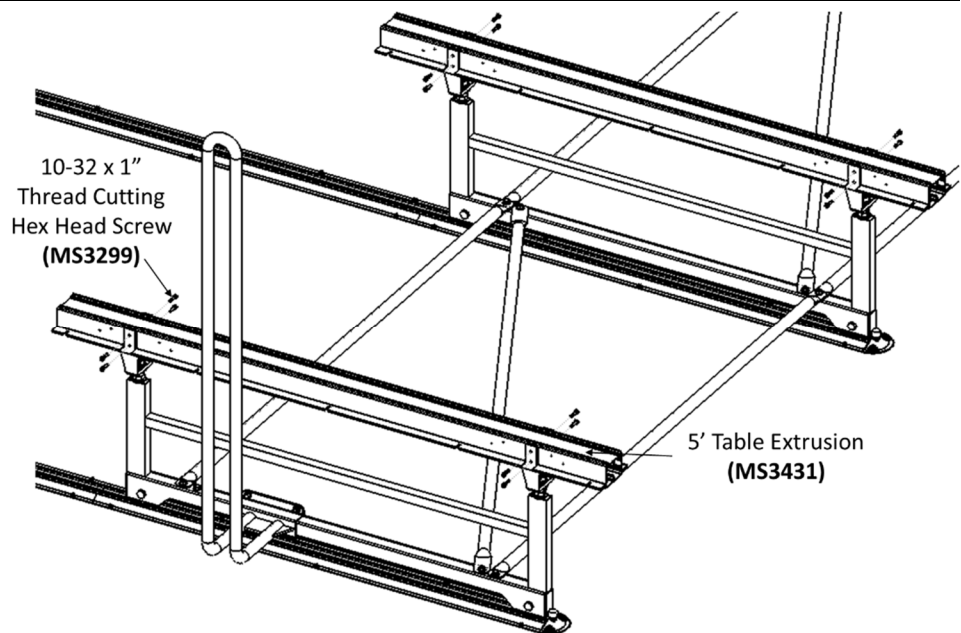
If you are not required to build any 5' wide table(s), move on to [Step 8](#).

**Step 7b. Table Assembly (5' Wide Bench Only)**



**For 4' wide benches go back to [Step 7a](#).**

Assemble one 5' table extrusion to every skate assembly using 10-32 x 1" thread cutting hex head screws.

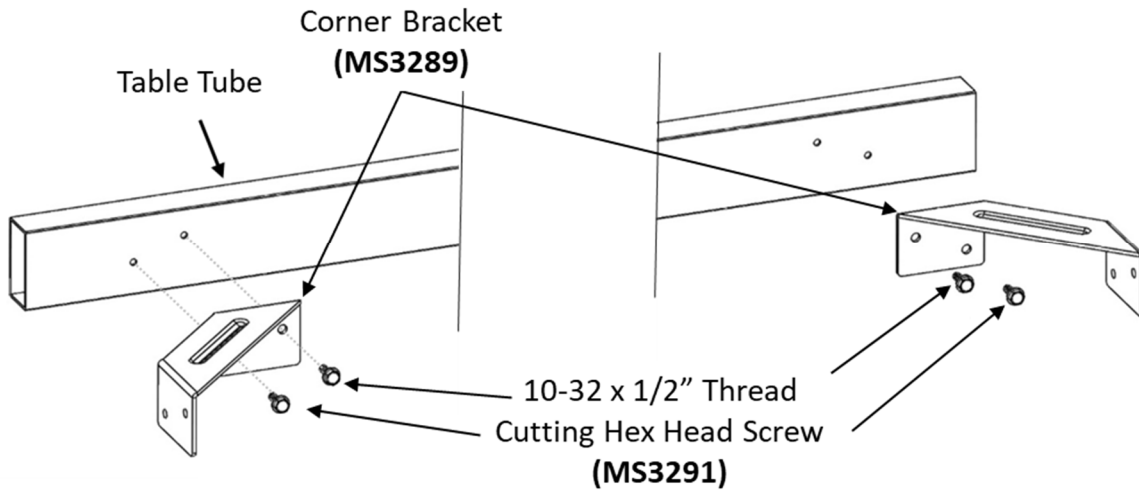




**Use drill with clutch! Do not overtighten screws as this will strip the threads.**



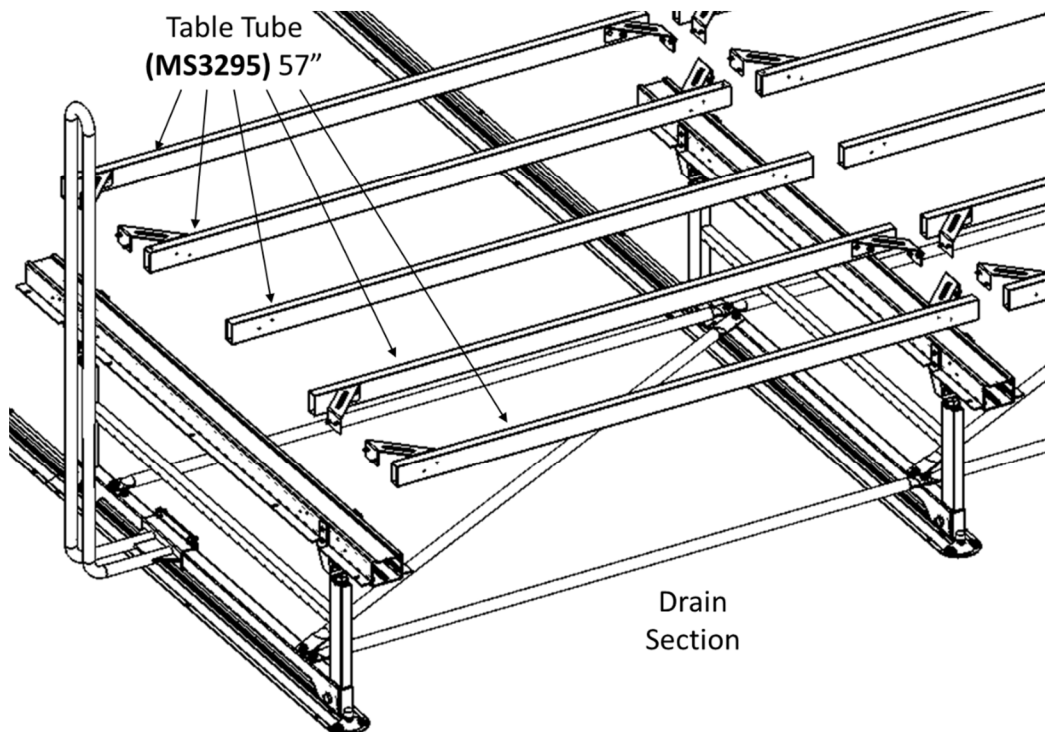
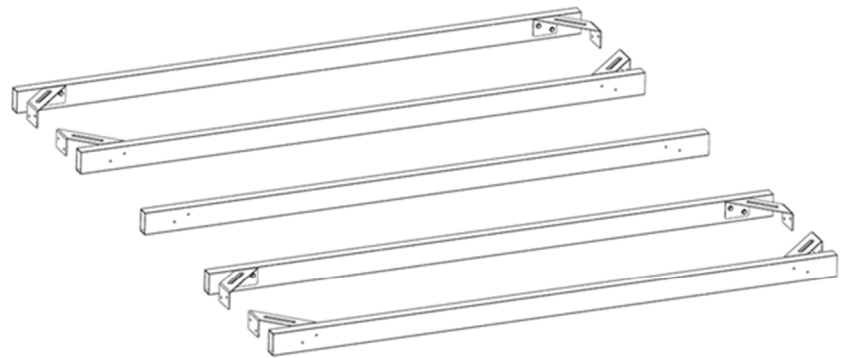
Attach corner brackets to the table tubes.



**i** Only 4 of every 5 table tubes get corner brackets attached.

Table Tubes  
Drain/Middle Sections (MS3295) 57"

- For 5' Ends (MS3290) 51"
- For 4' Ends (MS3809) 39"
- For 3' Ends (MS3810) 27"
- For 2' Ends (MS3821) 15"



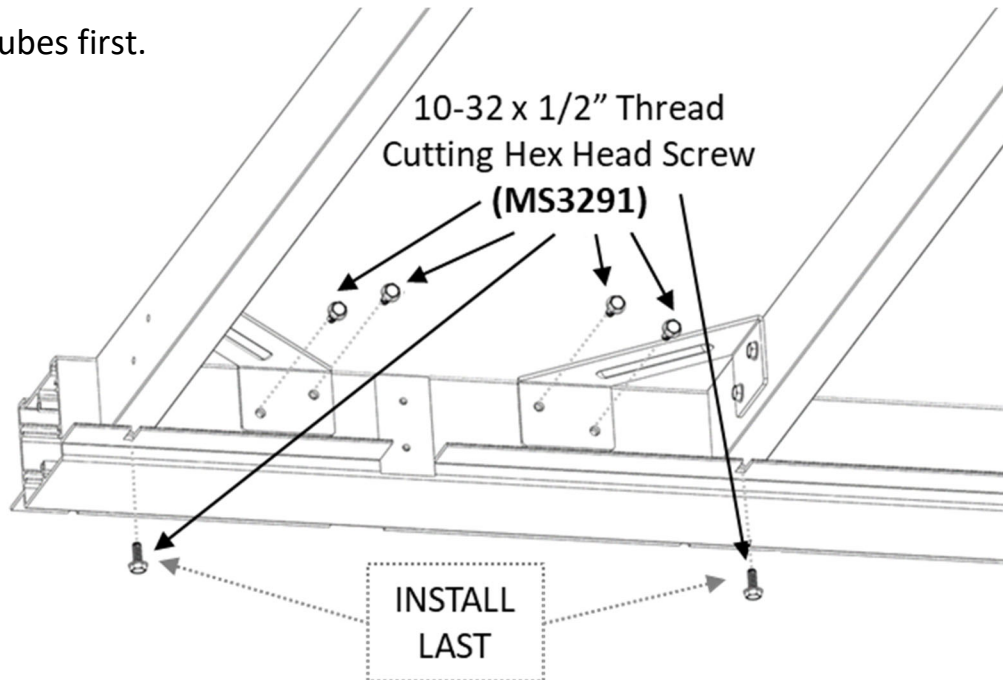


**Use drill with clutch! Do not overtighten screws as this will strip the threads.**

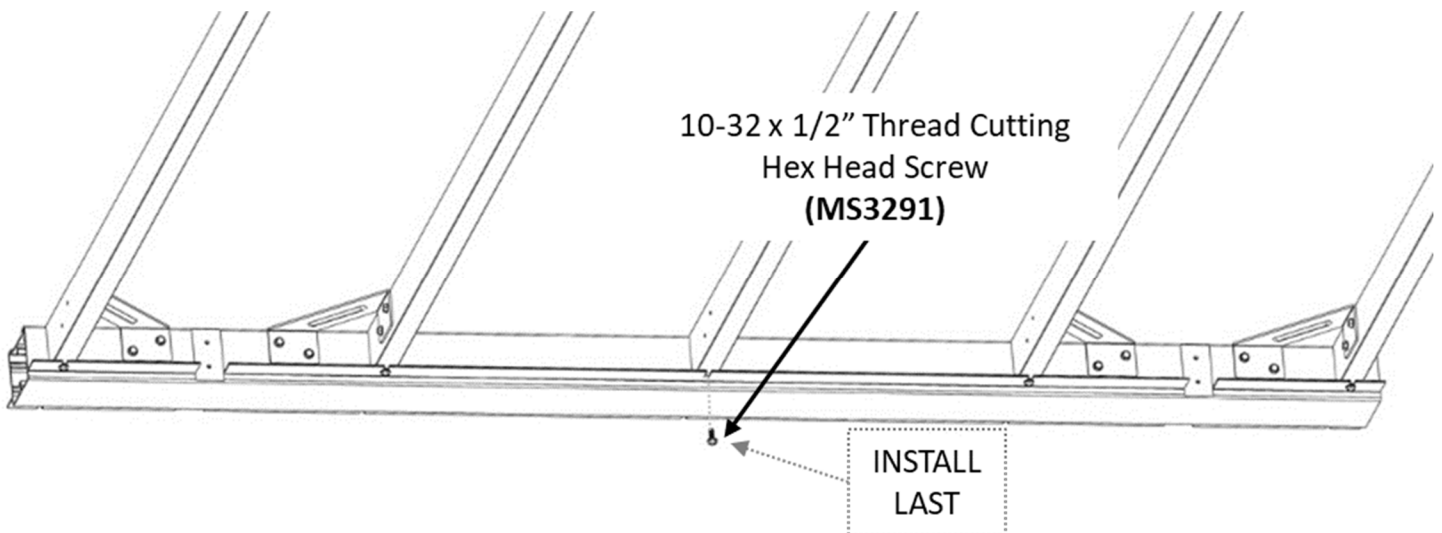


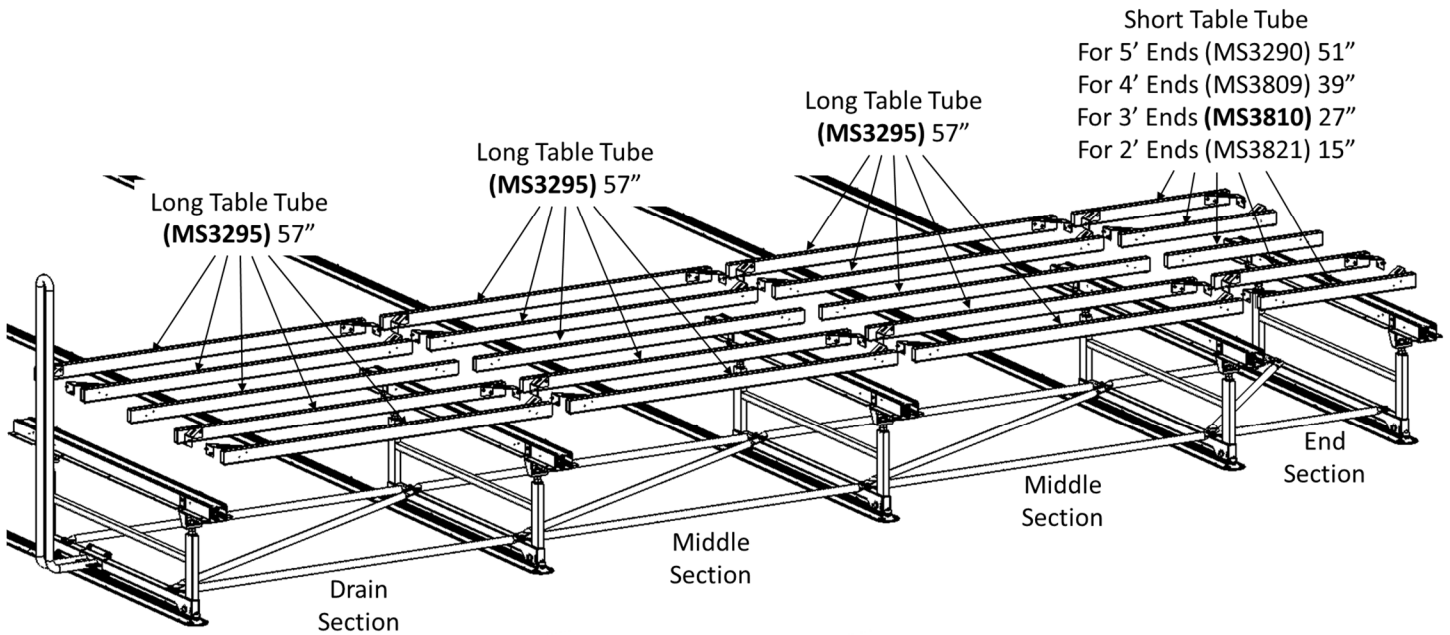
**Install bottom screws last for a better fit between tubes and extrusion.**

Install outer tubes first.



Install middle tube after outer tubes.



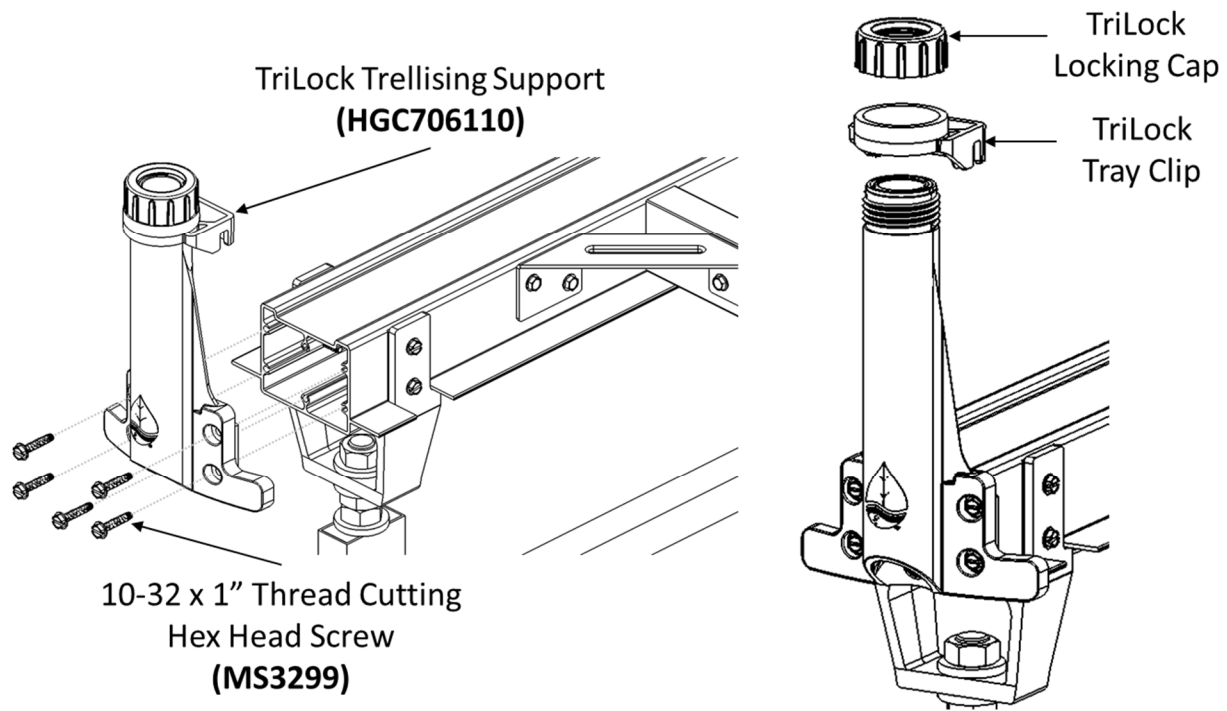


Repeat the assembly steps as described in this step for subsequent sections until you reach the end of the bench. The end section will use table tubes that are shorter than the drain section and middle section(s).

### **Step 8. TriLock Trellising Support Assembly**

**i The screws used for installing TriLock trellising support to the table extrusions are 1" in length, not 1/2" in length.**

Install TriLock trellising support with 10-32 x 1" thread cutting hex head screws.



Remove the locking cap and tray clip from all TriLock trellising supports. Store these somewhere safe in preparation for the tray installation.



## Step 9. Tray Assembly

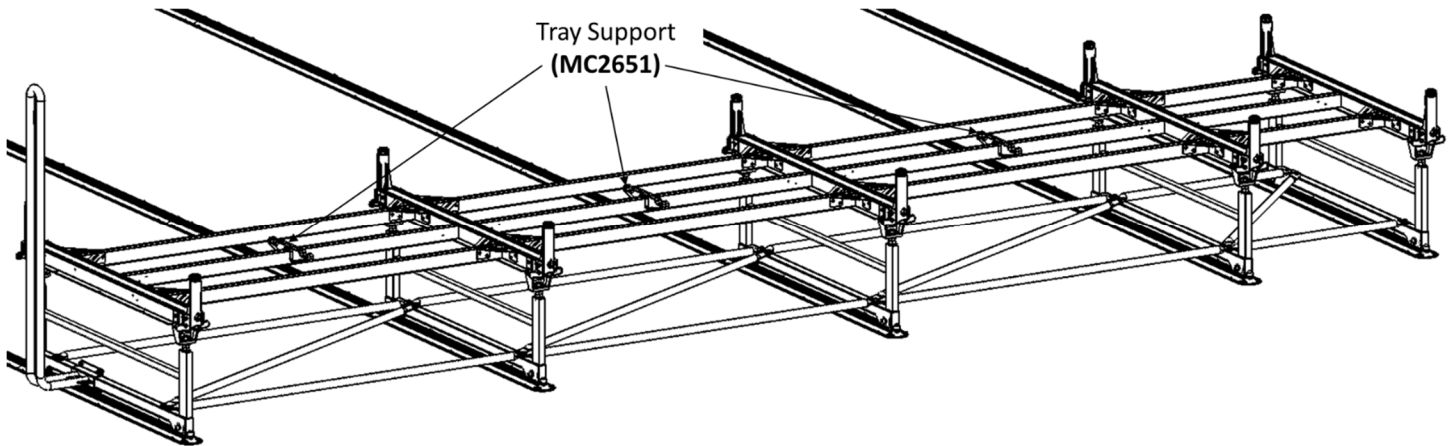


Before using BOND THREE lap tray sealant, dry fit all trays on the table to make sure all seams fall into the recess in the table extrusions.

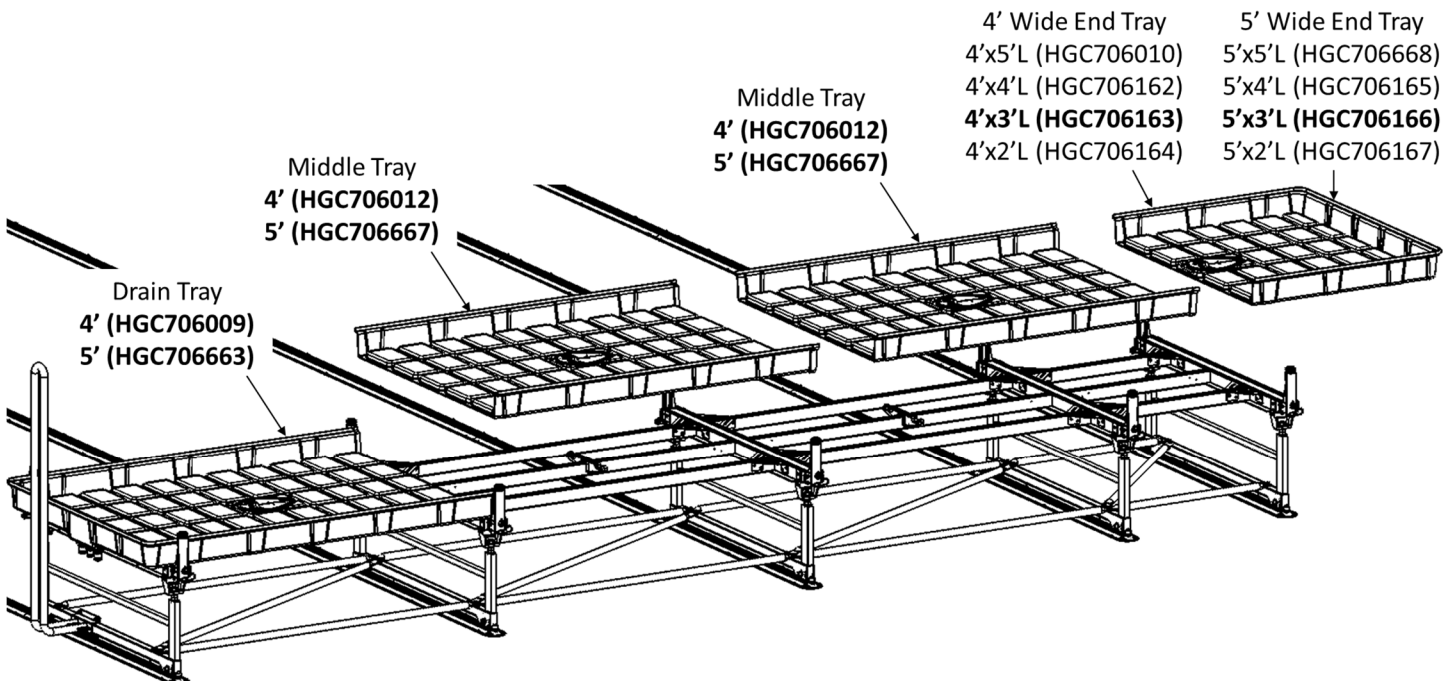


Before using BOND THREE lap tray sealant, carefully read and follow all warnings and directions for use, on package and in instructions.

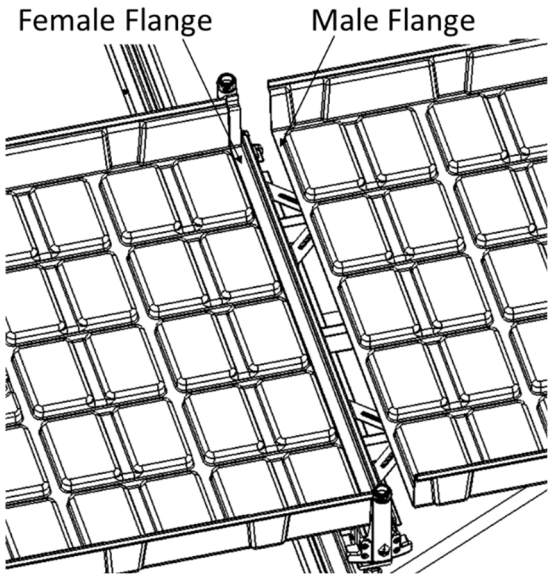
Install tray supports on every drain, middle, 5ft end, and 4ft end section. The tray support rests on the center table tube. The 3ft end and 2ft end sections do not require tray supports.





Dry fit trays to the table, making sure the logo on the tray is facing the same direction, with the bottom of the water drop pointing towards the drain section.




Clean all bonding surfaces (areas where the male and female flanges of the trays interact) of the trays using isopropyl alcohol and clean cloths. Beginning with the drain tray, bond the tray seam to the adjacent tray with BOND THREE lap tray sealant.



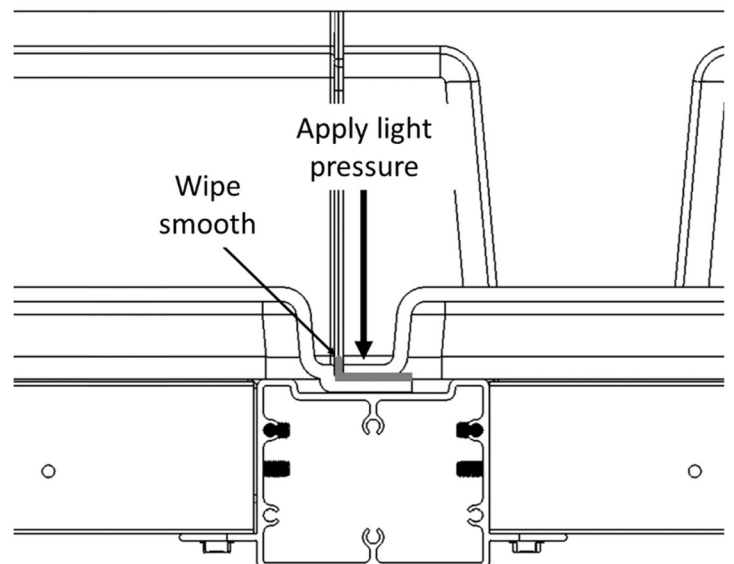
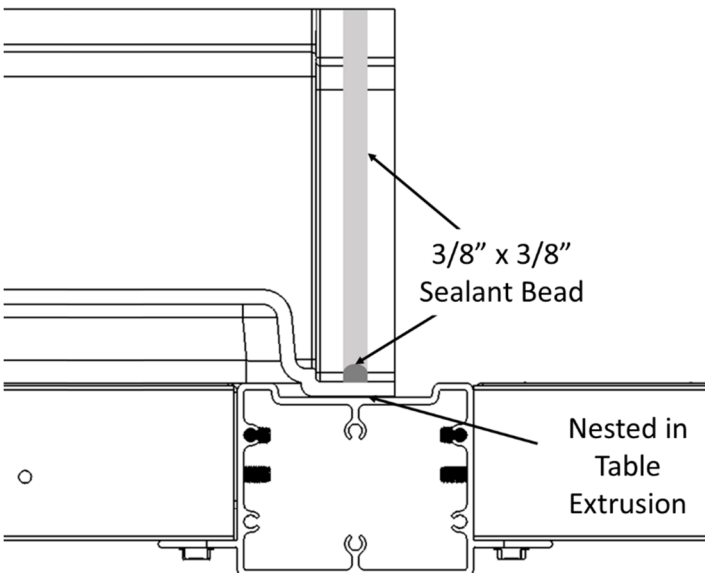
 **Complete all tray adjustments within 15 minutes of applying sealant. After 15 minutes, do not move or handle trays for 24 hours.**

 **Applying too much pressure on the seam will force BOND THREE out of the seam and can result in leaks. Only light pressure is required.**

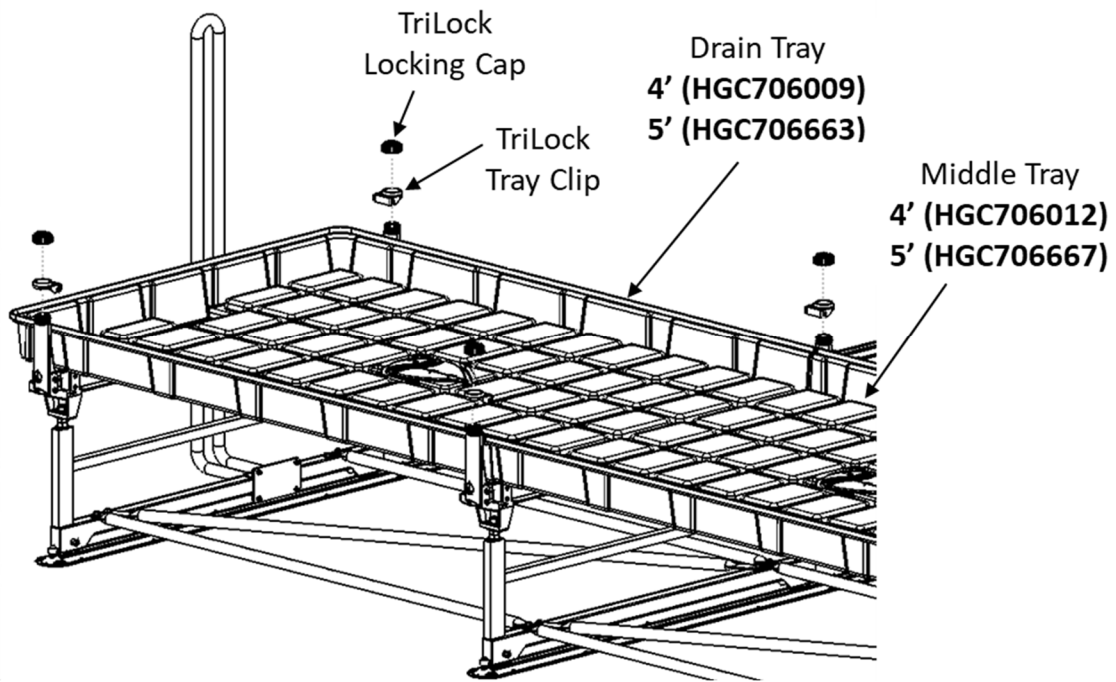
 **For Gutter Trays, refer to the Assembly Instructions that can be found by scanning the QR code on the right or by visiting the benching page on [botanicare.com](http://botanicare.com).**



Use a caulk gun according to the BOND THREE lap tray sealant instructions to apply the sealant adhesive to the female flange of the tray. Continue bonding trays until the end of the bench is reached.

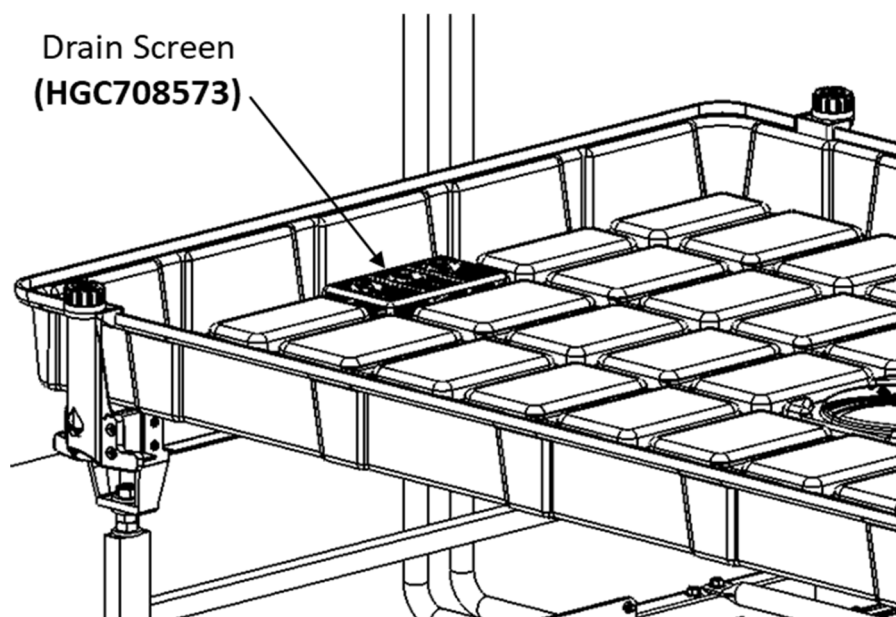


Install TriLock tray clips and TriLock locking caps to keep trays aligned and the tray joints held tightly.



Drill out holes in the drain tray to a diameter of 1 3/8" (35mm) using the 1 3/8" step drill bit. Do not drill out to a size larger than 1 1/2" (38mm). Clean the area of any plastic chips that may interfere with the seal of the bulkhead fitting. Assemble the provided bulkhead fitting(s) as required to the drain tray.

Install the drain screen on the drain tray. The Botanicare® logo on the drain screen matches the directions of the Botanicare® logos on the trays.

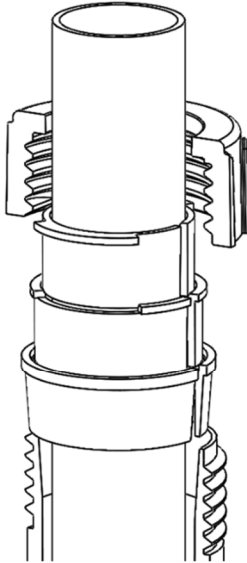


## Step 10. Trellis Pole Assembly

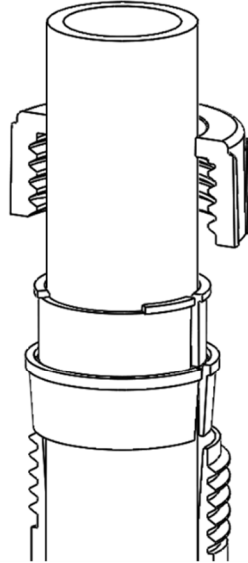


The TriLock trellising supports are strong enough with single poles to hold the weight of most plant canopies.

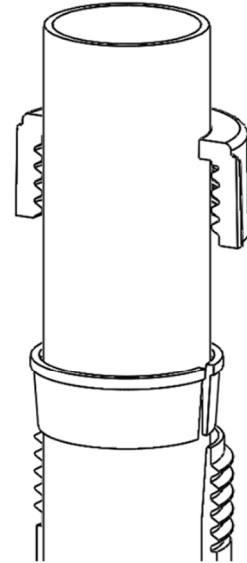
The TriLock trellising supports are designed to accommodate 3/4" EMT, 3/4" PVC, and 1" EMT tubing.



**3/4" EMT**  
(0.922" OD)  
Requires all  
three bushings

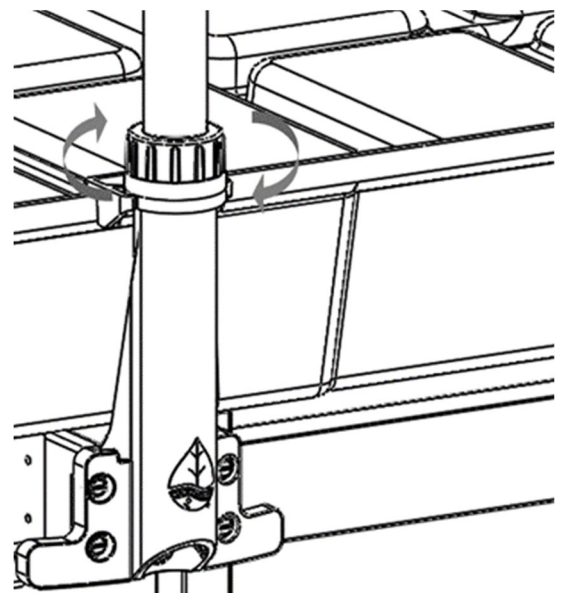
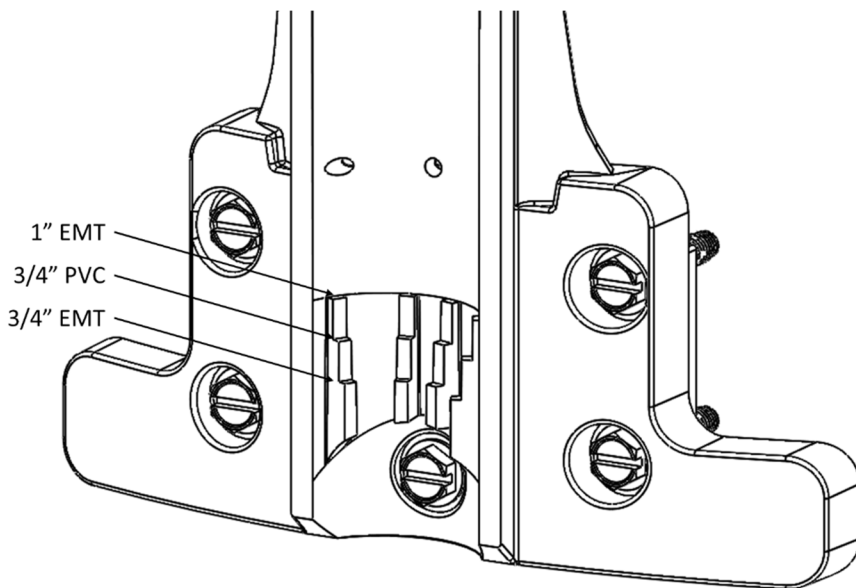


**3/4" PVC**  
(1.050" OD)  
Requires outer &  
middle bushings



**1" EMT**  
(1.163" OD)  
Requires only the  
outer bushing

Insert the upright. Ensure the upright sits on the correct shelf in the upright support. Once the upright is in place, tighten the locking cap by rotating clockwise.



## Appendix A: Track Length Combinations

Track Length (ft)	Track Length (in)	# of 8ft Track Sections Needed	# of 5ft Track Sections Needed	# of 4ft Track Sections Needed	# of 3ft Track Sections Needed	# of 1.5ft Track Sections Needed
8.0	96	1				
8.5	102			1	1	1
9.0	108		1	1		
9.5	114	1				1
10.0	120		2			
10.5	126		1	1		1
11.0	132	1			1	
11.5	138		2			1
12.0	144	1		1		
12.5	150	1			1	1
13.0	156	1	1			
13.5	162	1		1		1
14.0	168	1			2	
14.5	174	1	1			1
15.0	180	1		1	1	
15.5	186	1	2			1
16.0	192	2				
16.5	198	1		1	1	1
17.0	204	1	1	1		
17.5	210	2				1
18.0	216	1	2			
18.5	222	1	1	1		1
19.0	228	2			1	
19.5	234	1	2			1
20.0	240	2		1		
20.5	246	2			1	1
21.0	252	2	1			
21.5	258	2		1		1
22.0	264	2			2	
22.5	270	2	1			1
23.0	276	2		1	1	
23.5	282	2	2			1
24.0	288	3				
24.5	294	2		1	1	1
25.0	300	2	1	1		
25.5	306	3				1
26.0	312	2	2			
26.5	318	2	1	1		1
27.0	324	3			1	
27.5	330	2	2			1
28.0	336	3		1		
28.5	342	3			1	1
29.0	348	3	1			
29.5	354	3		1		1
30.0	360	3			2	

Track Length (ft)	Track Length (in)	# of 8ft Track Sections Needed	# of 5ft Track Sections Needed	# of 4ft Track Sections Needed	# of 3ft Track Sections Needed	# of 1.5ft Track Sections Needed
30.5	366	3	1			1
31.0	372	3		1	1	
31.5	378	3	2			1
32.0	384	4				
32.5	390	3		1	1	1
33.0	396	3	1	1		
33.5	402	4				1
34.0	408	3	2			
34.5	414	3	1	1		1
35.0	420	4			1	
35.5	426	3	2			1
36.0	432	4		1		
36.5	438	4			1	1
37.0	444	4	1			
37.5	450	4		1		1
38.0	456	4			2	
38.5	462	4	1			1
39.0	468	4		1	1	
39.5	474	4	2			1
40.0	480	5				
40.5	486	4		1	1	1
41.0	492	4	1	1		
41.5	498	5				1
42.0	504	4	2			
42.5	510	4	1	1		1
43.0	516	5			1	
43.5	522	4	2			1
44.0	528	5		1		
44.5	534	5			1	1
45.0	540	5	1			
45.5	546	5		1		1
46.0	552	5			2	
46.5	558	5	1			1
47.0	564	5		1	1	
47.5	570	5	2			1
48.0	576	6				
48.5	582	5		1	1	1
49.0	588	5	1	1		
49.5	594	6				1
50.0	600	5	2			
50.5	606	5	1	1		1
51.0	612	6			1	
51.5	618	5	2			1
52.0	624	6		1		
52.5	630	6			1	1

Track Length (ft)	Track Length (in)	# of 8ft Track Sections Needed	# of 5ft Track Sections Needed	# of 4ft Track Sections Needed	# of 3ft Track Sections Needed	# of 1.5ft Track Sections Needed
53.0	636	6	1			
53.5	642	6		1		1
54.0	648	6			2	
54.5	654	6	1			1
55.0	660	6		1	1	
55.5	666	6	2			1
56.0	672	7				
56.5	678	6		1	1	1
57.0	684	6	1	1		
57.5	690	7				1
58.0	696	6	2			
58.5	702	6	1	1		1
59.0	708	7			1	
59.5	714	6	2			1
60.0	720	7		1		
60.5	726	7			1	1
61.0	732	7	1			
61.5	738	7		1		1
62.0	744	7			2	
62.5	750	7	1			1
63.0	756	7		1	1	
63.5	762	7	2			1
64.0	768	8				
64.5	774	7		1	1	1
65.0	780	7	1	1		
65.5	786	8				1
66.0	792	7	2			
66.5	798	7	1	1		1
67.0	804	8			1	
67.5	810	7	2			1
68.0	816	8		1		
68.5	822	8			1	1
69.0	828	8	1			
69.5	834	8		1		1
70.0	840	8			2	
70.5	846	8	1			1
71.0	852	8		1	1	
71.5	858	8	2			1
72.0	864	9				
72.5	870	8		1	1	1
73.0	876	8	1	1		
73.5	882	9				1
74.0	888	8	2			
74.5	894	8	1	1		1
75.0	900	9			1	

Track Length (ft)	Track Length (in)	# of 8ft Track Sections Needed	# of 5ft Track Sections Needed	# of 4ft Track Sections Needed	# of 3ft Track Sections Needed	# of 1.5ft Track Sections Needed
75.5	906	8	2			1
76.0	912	9		1		
76.5	918	9			1	1
77.0	924	9	1			
77.5	930	9		1		1
78.0	936	9			2	
78.5	942	9	1			1
79.0	948	9		1	1	
79.5	954	9	2			1
80.0	960	10				
80.5	966	9		1	1	1
81.0	972	9	1	1		
81.5	978	10				1
82.0	984	9	2			
82.5	990	9	1	1		1
83.0	996	10			1	
83.5	1002	9	2			1
84.0	1008	10		1		
84.5	1014	10			1	1
85.0	1020	10	1			
85.5	1026	10		1		1
86.0	1032	10			2	
86.5	1038	10	1			1
87.0	1044	10		1	1	
87.5	1050	10	2			1
88.0	1056	11				
88.5	1062	10		1	1	1
89.0	1068	10	1	1		
89.5	1074	11				1
90.0	1080	10	2			
90.5	1086	10	1	1		1
91.0	1092	11			1	
91.5	1098	10	2			1
92.0	1104	11		1		
92.5	1110	11			1	1
93.0	1116	11	1			
93.5	1122	11		1		1
94.0	1128	11			2	
94.5	1134	11	1			1
95.0	1140	11		1	1	
95.5	1146	11	2			1
96.0	1152	12				
96.5	1158	11		1	1	1
97.0	1164	11	1	1		
97.5	1170	12				1



Track Length (ft)	Track Length (in)	# of 8ft Track Sections Needed	# of 5ft Track Sections Needed	# of 4ft Track Sections Needed	# of 3ft Track Sections Needed	# of 1.5ft Track Sections Needed
98.0	1176	11	2			
98.5	1182	11	1	1		1
99.0	1188	12			1	
99.5	1194	11	2			1
100.0	1200	12		1		
100.5	1206	12			1	1
101.0	1212	12	1			
101.5	1218	12		1		1
102.0	1224	12			2	
102.5	1230	12	1			1
103.0	1236	12		1	1	
103.5	1242	12	2			1
104.0	1248	13				
104.5	1254	12		1	1	1
105.0	1260	12	1	1		
105.5	1266	13				1
106.0	1272	12	2			
106.5	1278	12	1	1		1
107.0	1284	13			1	
107.5	1290	12	2			1
108.0	1296	13		1		
108.5	1302	13			1	1
109.0	1308	13	1			
109.5	1314	13		1		1
110.0	1320	13			2	
110.5	1326	13	1			1
111.0	1332	13		1	1	
111.5	1338	13	2			1
112.0	1344	14				
112.5	1350	13		1	1	1
113.0	1356	13	1	1		
113.5	1362	14				1
114.0	1368	13	2			
114.5	1374	13	1	1		1
115.0	1380	14			1	
115.5	1386	13	2			1
116.0	1392	14		1		
116.5	1398	14			1	1
117.0	1404	14	1			
117.5	1410	14		1		1
118.0	1416	14			2	
118.5	1422	14	1			1
119.0	1428	14		1	1	
119.5	1434	14	2			1
120.0	1440	15				

## Appendix B: Bench Lengths vs. Dimension L

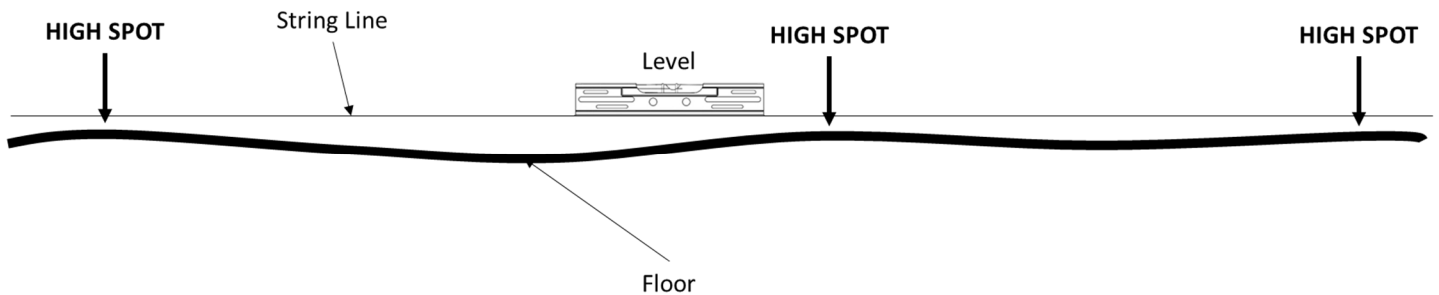
Bench Length (ft)	Dimension L (in)	Bench Length (ft)	Dimension L (in)	Bench Length (ft)	Dimension L (in)	Bench Length (ft)	Dimension L (in)
7.5	78	54.5	642	30.5	354	78.5	930
8.5	90	55.5	654	32.5	378	79.5	942
9.5	102	57.5	678	33.5	390	80.5	954
10.5	114	58.5	690	34.5	402	82.5	978
12.5	138	59.5	702	35.5	414	83.5	990
13.5	150	60.5	714	37.5	438	84.5	1002
14.5	162	62.5	738	38.5	450	85.5	1014
15.5	174	63.5	750	39.5	462	87.5	1038
17.5	198	64.5	762	40.5	474	88.5	1050
18.5	210	65.5	774	42.5	498	89.5	1062
19.5	222	67.5	798	43.5	510	90.5	1074
20.5	234	68.5	810	44.5	522	92.5	1098
22.5	258	69.5	822	45.5	534	93.5	1110
23.5	270	70.5	834	47.5	558	94.5	1122
24.5	282	72.5	858	48.5	570	95.5	1134
25.5	294	73.5	870	49.5	582	97.5	1158
27.5	318	74.5	882	50.5	594	98.5	1170
28.5	330	75.5	894	52.5	618	99.5	1182
29.5	342	77.5	918	53.5	630	100.5	1194

## Appendix C: Leveling Track with Shims

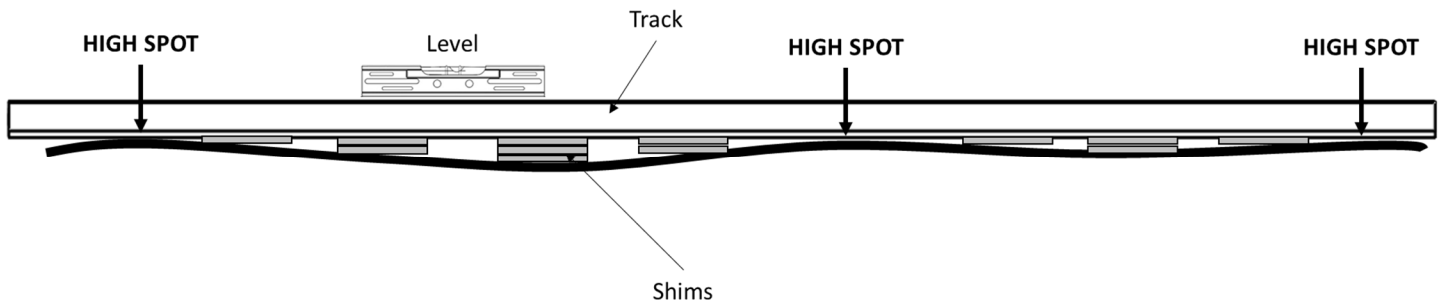
For a floor that is not level, it is best practice to repour cement to level the floor. High spots can be removed with a grinder or sander and self-leveling cement can be used to get rid of small imperfections.

If your budget or time does not allow for complete floor leveling, shims can be used to accommodate small inconsistencies in the floor.

It is important to find and mark the location of the highest spots where each track length will be anchored. This can be done running a level string line from left to right and finding where the gap to the floor is largest.



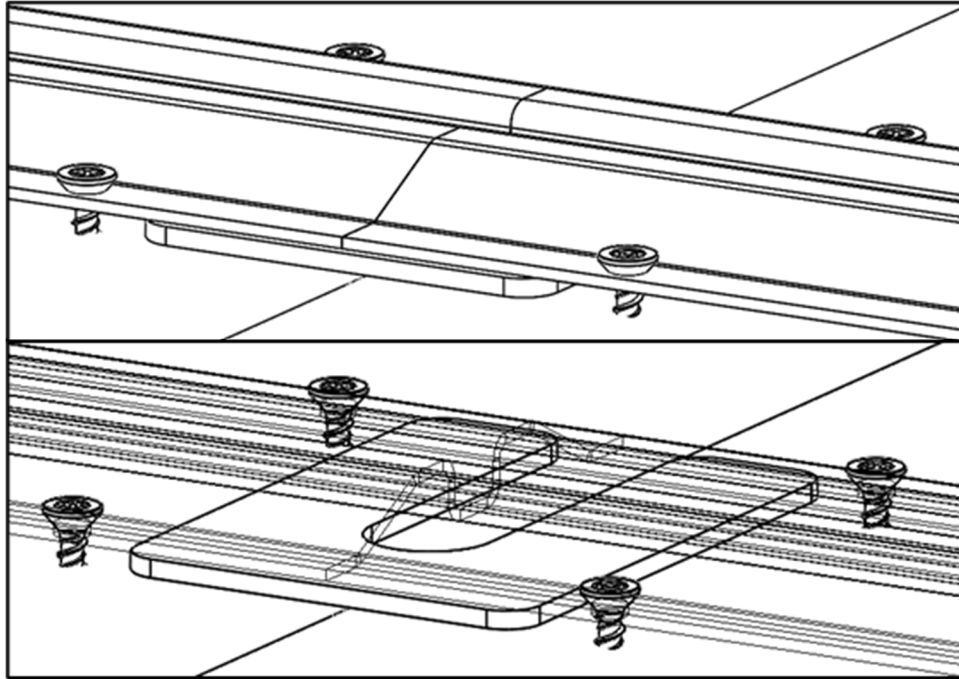
Position the track roughly on the floor to get to your final track length across the room's width. Begin placing shims between the track and the floor to level the track. The optional shims available for purchase are 1/8" in thickness.



If the track is shimmed in a location by greater than 1/2" (or requires more than four 1/8" thickness shims) it is recommended to use a 3/16" Concrete Tapping Screw with a greater length than the one provided with purchase, as recommended by the anchor manufacturer. Maintain at least 1" of thread engagement to the floor.

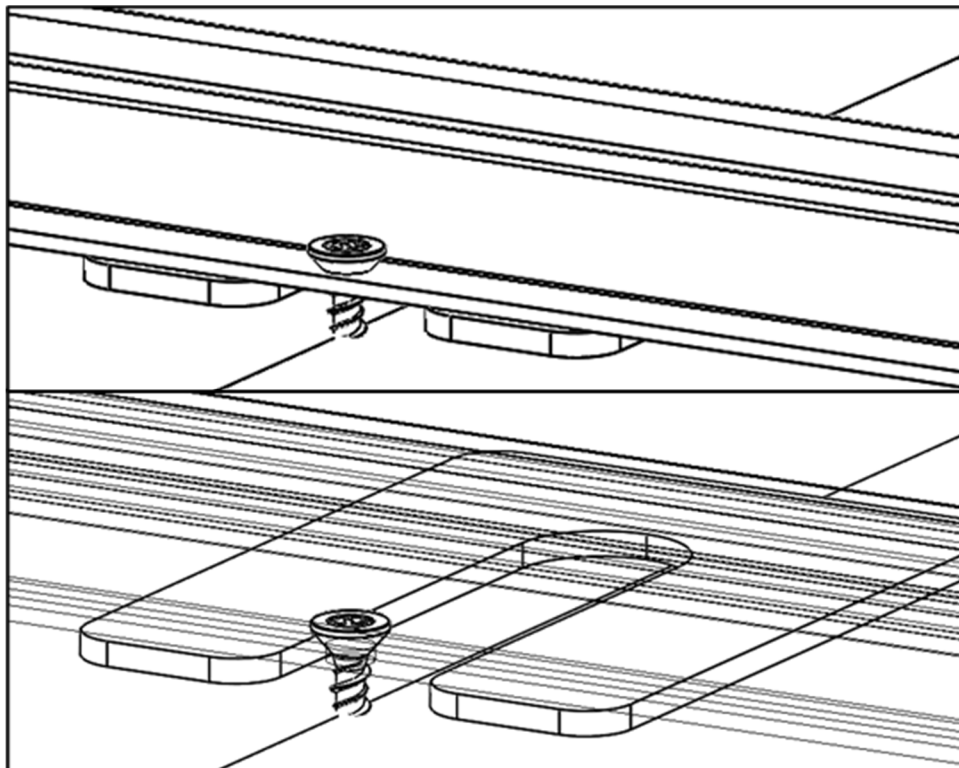
**Shimming at a track seam**

The top image shows what is meant by a track seam (where two sections of track meet). The bottom image makes the track see-through so the orientation of the shim can be determined.



**Shimming in the center of the track**

The top image shows what is meant by the center of the track. The bottom image makes the track see-through so the orientation of the shim can be determined. The shim should be added at a screw location so that it is well secured.

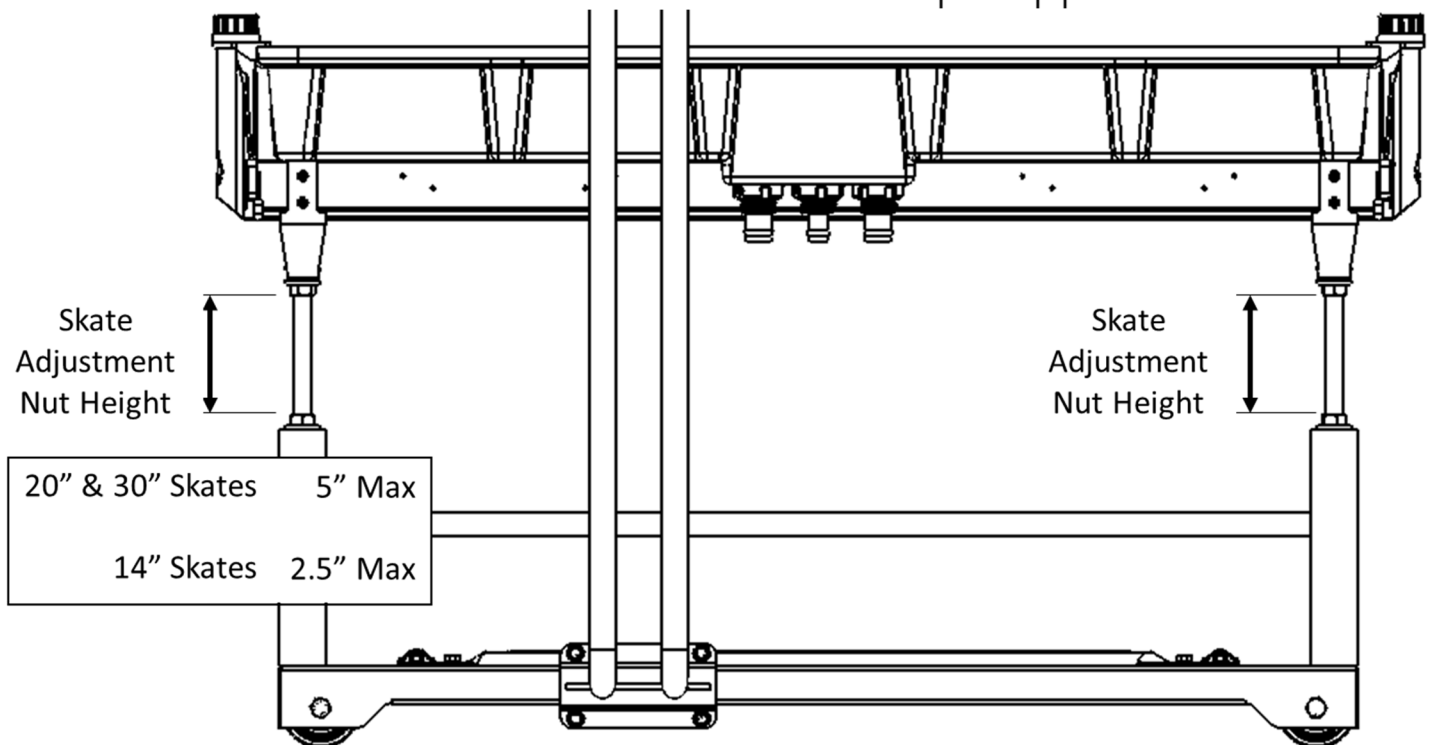
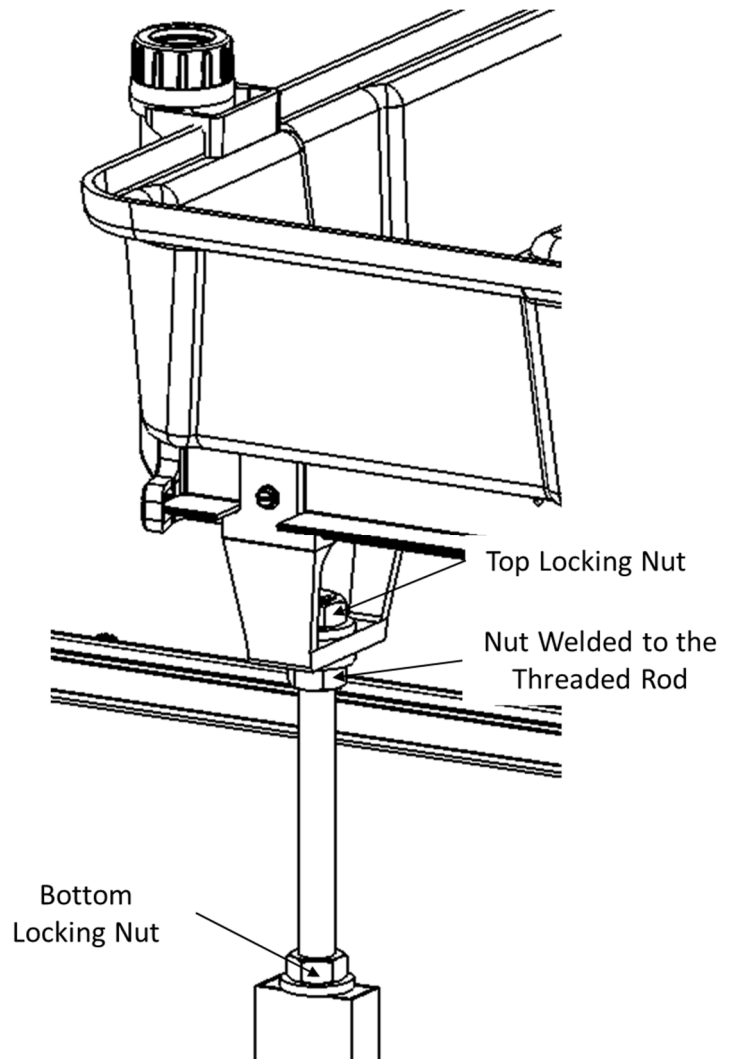


## Appendix D: Slope for Drainage

If the assembled bench is to include slope for drainage, use the table below to assemble each skate assembly with the appropriate height.

Both skate adjustment nut heights on both sides of a single Skate Assembly should be equal for the bench to be level (as long as the track is also level).

Set the height by loosening the bottom and top locking nuts and rotating the nut welded to the threaded rod to move the table up and down. Once the height is set according to the table below, hold the nut welded to the threaded rod fixed and tighten the top locking nut. Then hold the nut welded to the threaded rod fixed and tighten the bottom locking nut.



## 20" and 30" Benches – Arch Adjustment Nut Height in Inches

Bench Length (ft)	Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13
7.5	0	5/8	13/16										
8.5	0	5/8	15/16										
9.5	0	5/8	1 1/16										
10.5	0	5/8	1 1/4										
12.5	0	5/8	1 1/4	1 7/16									
13.5	0	5/8	1 1/4	1 9/16									
14.5	0	5/8	1 1/4	1 11/16									
15.5	0	5/8	1 1/4	1 7/8									
17.5	0	5/8	1 1/4	1 7/8	2 1/16								
18.5	0	5/8	1 1/4	1 7/8	2 3/16								
19.5	0	5/8	1 1/4	1 7/8	2 5/16								
20.5	0	5/8	1 1/4	1 7/8	2 1/2								
22.5	0	5/8	1 1/4	1 7/8	2 1/2	2 11/16							
23.5	0	5/8	1 1/4	1 7/8	2 1/2	2 13/16							
24.5	0	5/8	1 1/4	1 7/8	2 1/2	2 15/16							
25.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8							
27.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 5/16						
28.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 7/16						
29.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 9/16						
30.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4						
32.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	3 15/16					
33.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 1/16					
34.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/16					
35.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/8					
37.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/8	4 9/16				
38.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/8	4 11/16				
39.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/8	4 13/16				
40.5	0	5/8	1 1/4	1 7/8	2 1/2	3 1/8	3 3/4	4 3/8	5				
42.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/8			
43.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/4			
44.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 3/8			
45.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2			
47.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	4 5/8		
48.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	4 3/4		
49.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	4 7/8		
50.5	0	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5		
52.5	0	7/16	7/8	1 5/16	1 3/4	2 3/16	2 5/8	3 1/16	3 1/2	3 15/16	4 3/8	4 1/2	
53.5	0	7/16	7/8	1 5/16	1 3/4	2 3/16	2 5/8	3 1/16	3 1/2	3 15/16	4 3/8	4 5/8	
54.5	0	7/16	7/8	1 5/16	1 3/4	2 3/16	2 5/8	3 1/16	3 1/2	3 15/16	4 3/8	4 11/16	
55.5	0	7/16	7/8	1 5/16	1 3/4	2 3/16	2 5/8	3 1/16	3 1/2	3 15/16	4 3/8	4 13/16	
57.5	0	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/4
58.5	0	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 5/16
59.5	0	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 3/8
60.5	0	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/2
	Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13

## 20" and 30" Benches – Arch Adjustment Nut Height in Inches

Bench Length (Drain) (ft)	Arch 1	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13	Arch 14	Arch 15	Arch 16	Arch 17	Arch 18	Arch 19	Arch 20	Arch 21
62.5 0	3/8	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/2	4 5/8							
63.5 0	3/8	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/2	4 11/16							
64.5 0	3/8	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/2	4 3/4							
65.5 0	3/8	3/8	3/4	1 1/8	1 1/2	1 7/8	2 1/4	2 5/8	3	3 3/8	3 3/4	4 1/8	4 1/2	4 7/8							
67.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/16						
68.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 1/4						
69.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 5/16						
70.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8						
72.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 1/2					
73.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 9/16					
74.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 5/8					
75.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 11/16					
77.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 11/16	4 13/16				
78.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 11/16	4 7/8				
79.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 11/16	4 15/16				
80.5 0	5/16	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2	2 13/16	3 1/8	3 7/16	3 3/4	4 1/16	4 3/8	4 11/16	5				
82.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/16				
83.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/8				
84.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 3/16				
85.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4				
87.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 5/16			
88.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 3/8			
89.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 7/16			
90.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2			
92.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 9/16		
93.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 5/8		
94.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 11/16		
95.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4		
97.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	4 13/16	
98.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	4 7/8	
99.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	4 15/16	
100.5 0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2	4 3/4	5	
Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13	Arch 14	Arch 15	Arch 16	Arch 17	Arch 18	Arch 19	Arch 20	Arch 21	

### 14" Benches – Arch Adjustment Nut Height in Inches

Bench Length (ft)	Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13
7.5	0	5/16	7/16										
8.5	0	5/16	1/2										
9.5	0	5/16	9/16										
10.5	0	5/16	5/8										
12.5	0	5/16	5/8	3/4									
13.5	0	5/16	5/8	13/16									
14.5	0	5/16	5/8	7/8									
15.5	0	5/16	5/8	15/16									
17.5	0	5/16	5/8	15/16	1 1/16								
18.5	0	5/16	5/8	15/16	1 1/8								
19.5	0	5/16	5/8	15/16	1 3/16								
20.5	0	5/16	5/8	15/16	1 1/4								
22.5	0	5/16	5/8	15/16	1 1/4	1 3/8							
23.5	0	5/16	5/8	15/16	1 1/4	1 7/16							
24.5	0	5/16	5/8	15/16	1 1/4	1 1/2							
25.5	0	5/16	5/8	15/16	1 1/4	1 9/16							
27.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 11/16						
28.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 3/4						
29.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 13/16						
30.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8						
32.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2					
33.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 1/16					
34.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 1/8					
35.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16					
37.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 5/16				
38.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 3/8				
39.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 7/16				
40.5	0	5/16	5/8	15/16	1 1/4	1 9/16	1 7/8	2 3/16	2 1/2				
42.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/16			
43.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/8			
44.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 3/16			
45.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4			
47.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 5/16		
48.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 3/8		
49.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 7/16		
50.5	0	1/4	1/2	3/4	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2		
52.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	1 15/16	
53.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2	
54.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2	
55.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	
57.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/8
58.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 3/16
59.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 3/16
60.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/4
	Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13



## 14" Benches – Arch Adjustment Nut Height in Inches

Bench Length (ft)	Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13	Arch 14	Arch 15	Arch 16	Arch 17	Arch 18	Arch 19	Arch 20	Arch 21
62.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/4	2 5/16							
63.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/4	2 3/8							
64.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/4	2 3/8							
65.5	0	3/16	3/8	9/16	3/4	15/16	1 1/8	1 5/16	1 1/2	1 11/16	1 7/8	2 1/16	2 1/4	2 7/16							
67.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 11/16						
68.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 11/16						
69.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 11/16						
70.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4						
72.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 13/16					
73.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 13/16					
74.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 13/16					
75.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8					
77.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	1 15/16				
78.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	1 15/16				
79.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	1 15/16				
80.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2				
82.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/16			
83.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/16			
84.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/16			
85.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8			
87.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 3/16		
88.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 3/16		
89.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 3/16		
90.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4		
92.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 5/16	
93.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 5/16	
94.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 5/16	
95.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	
97.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 7/16
98.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 7/16
99.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 7/16
100.5	0	1/8	1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 5/8	1 3/4	1 7/8	2	2 1/8	2 1/4	2 3/8	2 1/2
Arch 1 (Drain)	Arch 2	Arch 3	Arch 4	Arch 5	Arch 6	Arch 7	Arch 8	Arch 9	Arch 10	Arch 11	Arch 12	Arch 13	Arch 14	Arch 15	Arch 16	Arch 17	Arch 18	Arch 19	Arch 20	Arch 21	



# PLANNING

A large grid for planning, consisting of 12 columns and 20 rows. The grid is divided into 12 vertical sections by thicker lines, with each section containing 10 smaller grid cells. The top row is a header row, and the remaining 19 rows are for data entry.



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