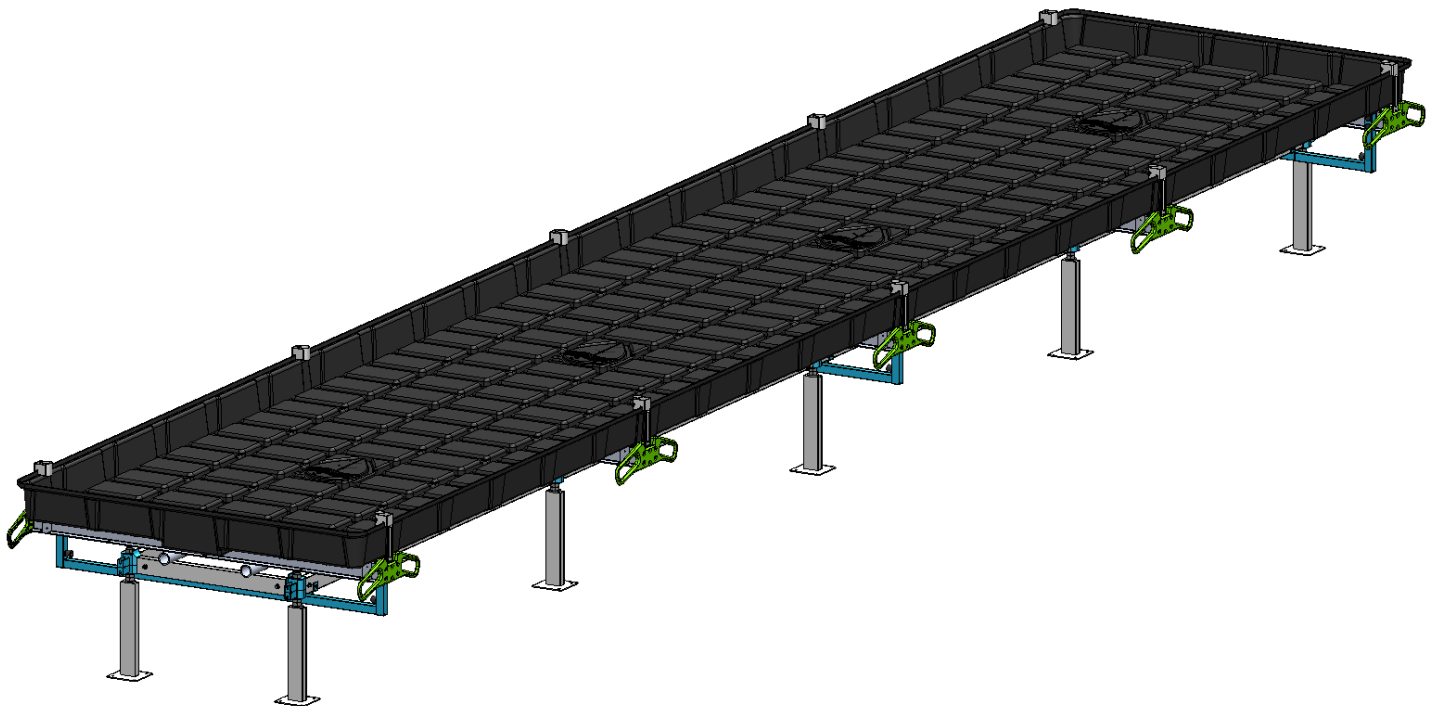


**BACK  
PAGE**



# BOTANICARE®

## SLIDE BENCH ASSEMBLY INSTRUCTIONS



Revision 5.7  
PN: 50519

# Important Safety Precautions

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

- The Slide 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 tipping over unexpectedly.
- Use approved anchors as defined on the next page.
- Do not load the Slide Bench with more than 25 pounds per square foot.
- Do not climb on or in the Slide Bench or Trays.
- All steps in this assembly procedure must be completed prior to using the bench.
- Keep fingers and hands away from the rollers. The table rollers can cause injury.
- Keep fingers and hands away from the anti-tip brackets. Do not use the brackets to move the bench. Fingers or hands can be caught between the bracket and the frame causing injury.
- Do not extend threaded shafts more than the maximum spacing defined.
- Do not drill anchors into post tension slabs.
- Never move the bench with People or Equipment in between the benches as this could cause injury to personnel or damage to Equipment.

**Before using BOND THREE Lap Tray Sealant Adhesive, carefully read and follow all warnings and directions for use, on package and in instructions.**

## Before You Get Started

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Please take the time to read all the assembly instructions before attempting to assemble your Botanicare® Slide Bench.

These instructions show assembly of a 20' bench as an example. All steps apply for benches of different lengths.

## Tools Needed

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The following tools & supplies are required to complete this assembly of the slide bench.

- Cordless Drill with clutch
- Hammer Drill
- Tape Measure
- String Line or Layout Laser
- Chalk Line
- Level
- Hammer or Mallet
- Combination Wrench or 15/16" Box Wrench
- 3/8" Magnetic Nut Driver Drill Bit
- 5/16" Magnetic Nut Driver Drill Bit
- 1/4" Masonry Drill Bit
- Rubbing Alcohol
- Clean Cloth Rags
- Caulk Gun
- 1 3/8" Step Drill Bit

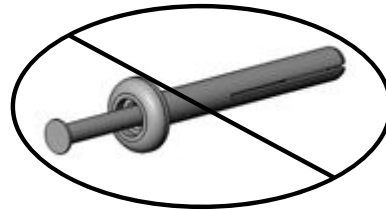
## Anchors Not Included

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Installation of the bench systems will require 1/4" x 2 1/4" wedge style concrete anchors. Installation of the anchors should follow the anchor manufacturer's recommendations.



Acceptable wedge style anchor



## Setting the Drill Clutch

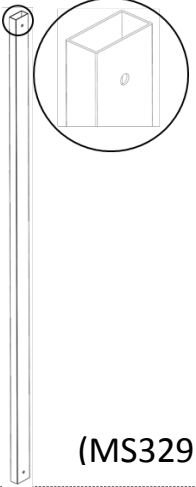
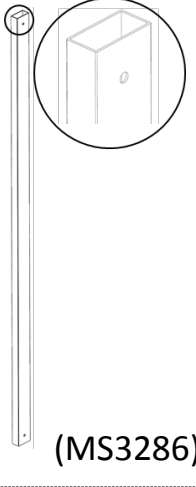
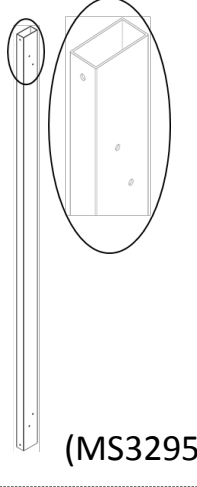
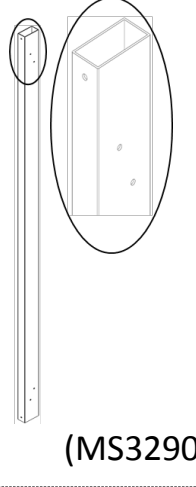




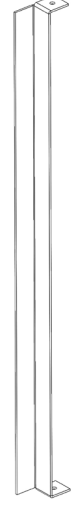
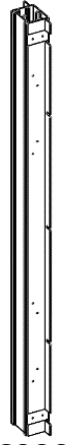
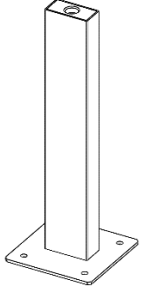

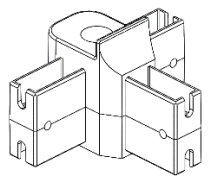
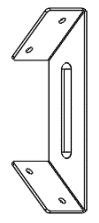
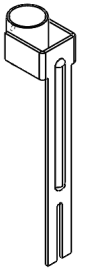
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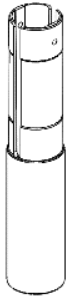

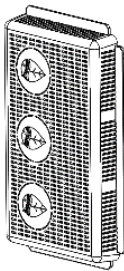
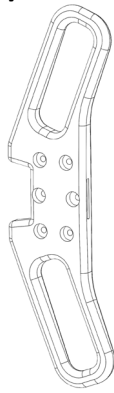

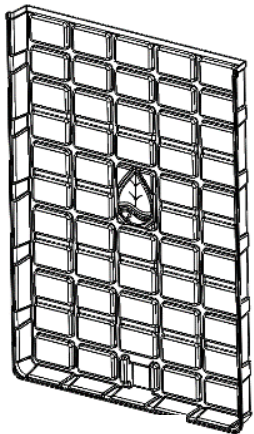
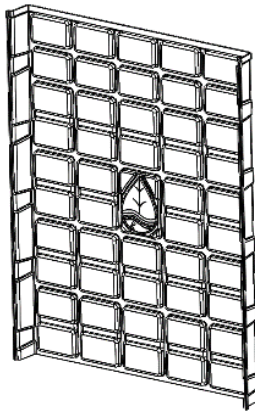
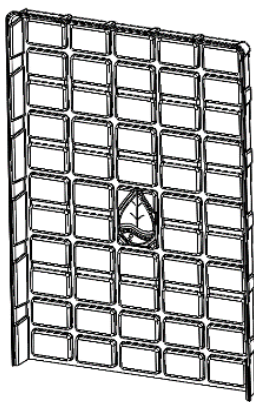
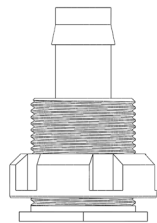
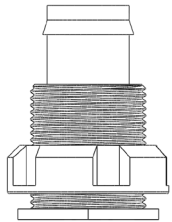

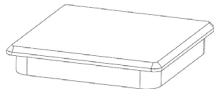

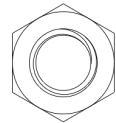
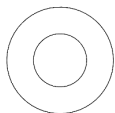
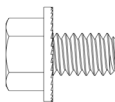
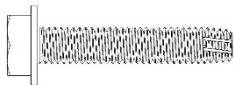
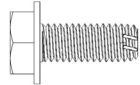
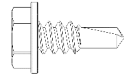
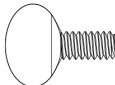
**CAUTION: Overtightening screws using a drill can result in stripping the threads in aluminum parts.**

- Every drill is different, use caution until familiarity with the drills 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.

**NOTE: There is a repair kit available should a screw strip out a hole.**

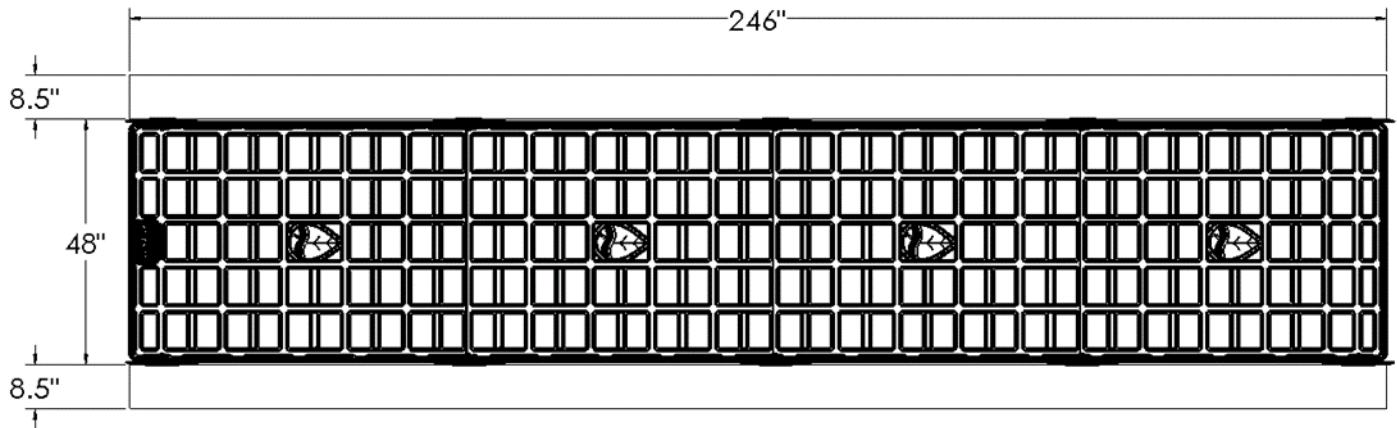
## Hardware

<b>(A) Frame Tube Long</b>  <b>(MS3292)</b>	<b>(B) Frame Tube Short</b>  <b>(MS3286)</b>	<b>(C) - Table Tube Long</b>  <b>(MS3295)</b>	<b>(D) - Table Tube Short</b>  <b>(MS3290)</b>	<b>(E) - Arch Tube</b>  <b>(MS3257)</b>
<b>(F) Roller Tube Long</b>  <b>(MS3294)</b>	<b>(G) Roller Tube Short</b>  <b>(MS3288)</b>	<b>(H) Anti-Tip Frame</b>  <b>(MS3300)</b>	<b>(I) Guide Bracket</b>  <b>(MS3301)</b>	<b>(J) Table Extrusion</b>  4' <b>(MS3296)</b> 5' <b>(MS3431)</b>
<b>(K) Frame Leg</b>  12" <b>(MS3258)</b> 20" <b>(MS3283)</b> 30" <b>(MS3285)</b>	<b>(L) Threaded Rod</b>  12" <b>(MS3282)</b> 20", 30" <b>(MS3284)</b>	<b>(M) Frame Connector</b>  <b>(MS3281)</b>	<b>(N) Corner Bracket</b>  <b>(MS3289)</b>	<b>(O) Trellis Bracket</b>  <b>(MS3297)</b>

<b>(P) Roller Ends</b>  (MS3287)	<b>(Q) Roller Connector</b>  (MS3293)	<b>(R) Drain Screen</b>  (50001)	<b>(S) Handle</b>  (MC2081)	<b>(T) Roller Spacer</b>  (MC2082)
<b>(U) Drain Tray</b>  4' (50520) 5' (50029)	<b>(V) Middle Tray</b>  4' (50521) 5' (50042)	<b>(W) End Tray</b>  4' (50522) 5' (50043)	$\frac{3}{4}$ " Bulkhead Drain Fitting  (50005)	1" Bulkhead Drain Fitting  (50003)
<b>(X) Bump Stop</b>  (MC2085)	<b>(Y) 1" Square Tube Cap</b>  (MC2083)	<b>(Z) <math>\frac{5}{8}</math>" Hole Plug</b>  (MC2084)	$\frac{5}{8}$ "-11 Hex Nut  (MS3255)	$\frac{5}{8}$ " Flat Washer  (MS3256)
$\frac{1}{4}$ "-20 x $\frac{3}{8}$ " Flanged Hex Head Screw  (MS3271)	10-32 x 1" Thread Cutting Hex Head Screw  (MS3299)	10-32 x $\frac{1}{2}$ " Thread Cutting Hex Head Screw  (MS3291)	10-16 x $\frac{1}{2}$ " Self-Drilling Screw  (MS3260)	10-24 x $\frac{1}{2}$ " Thumb Screw  (MS3298)
BOND THREE (Adhesive) (50515)				

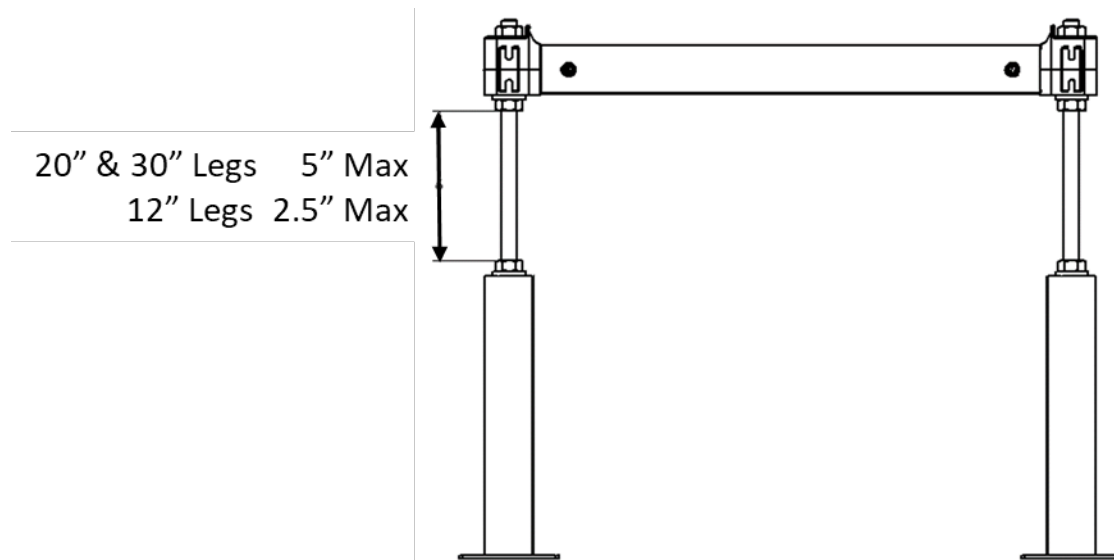
## Basic Bench Dimensions

As an example, a 20 foot bench is 48 inches wide by 246 inches long. The bench table top allows for plus or minus 8.5 inches of travel (or movement) side to side, measured from the center position, or 17 inches total travel from the left stop to the right stop.



## Maximum Threaded Rod Extension

**Warning:** Do not extend the threaded rods too far from the legs. Doing so may result in the failure of the bench resulting in equipment damage and injury.



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## Bench Assembly and Installation

### Step 1. Multi-Bench Room Layout

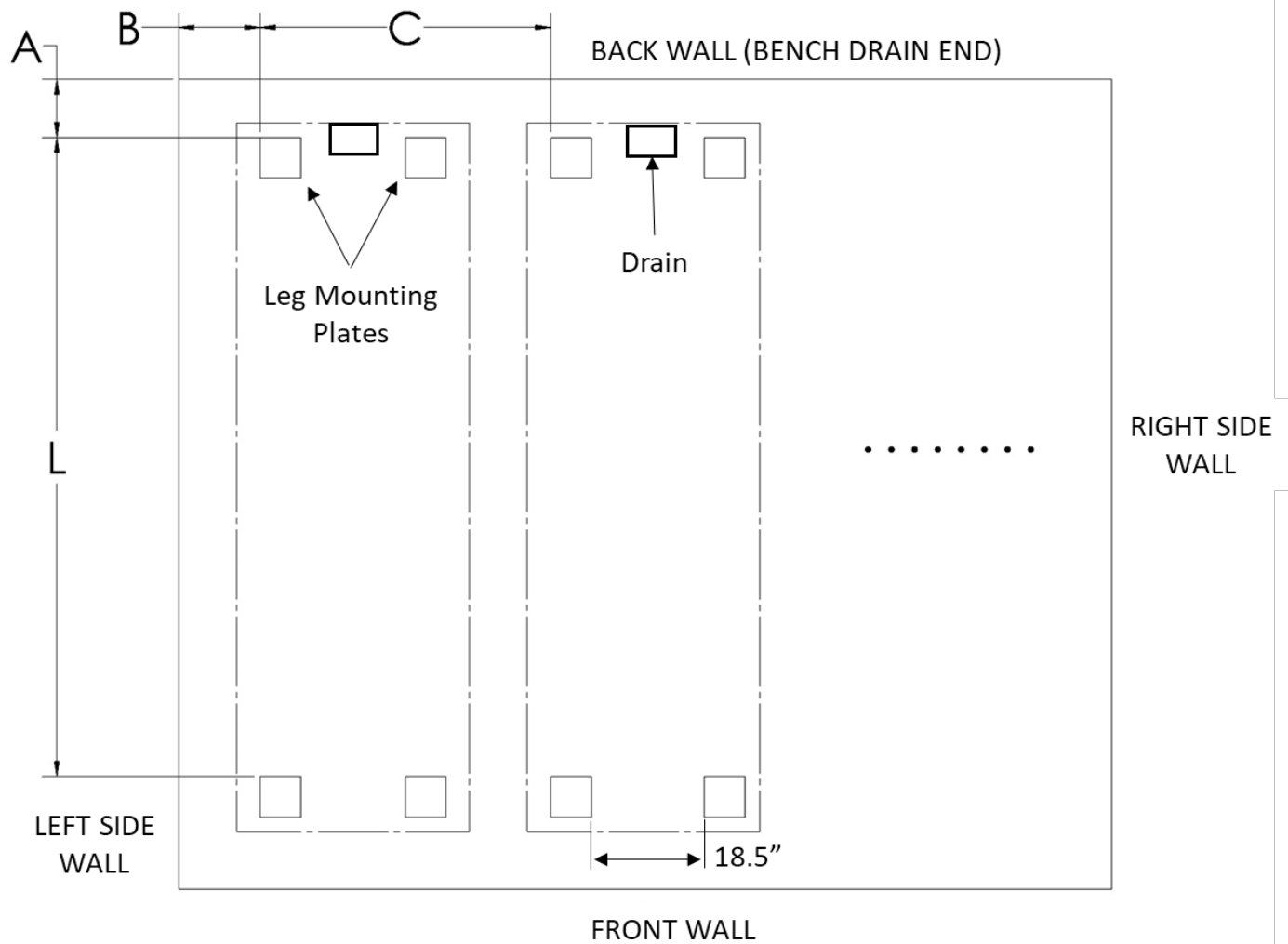
Use the room layout calculator tool to determine the quantity, position, spacing and desired room aisle widths between and around the benches.

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

**NOTE:** 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. Do not rely on the walls being straight or square.

#### Room Orientation

For the purpose of these instructions the following room orientation will be used.



## Determine layout distances

### A. Drain Tray to Wall Spacing

Enter desired spacing here  + 5 1/8" = **Distance A**

### B. Left Side Tray to Wall Minimum Spacing (When bench is slid towards the wall)

Enter desired minimal spacing here  + \_\_\_\_\_ = **Distance B**

4' bench add 19 1/4"  
5' bench add 25 1/4"

### C. Bench to Bench Spacing (17" aisle minimum)

Enter desired aisle width here  + \_\_\_\_\_ = **Distance C**

4' bench to 4' bench spacing add 31"  
4' bench to 5' bench spacing add 37"  
5' bench to 5' bench spacing add 43"

### D. Distance "L" from Arch 1 leg mounting plate to the last arch mounting plate. Select from the table based on the nominal bench length.

Bench Length	Distance L	Bench Length	Distance L	Bench Length	Distance L
15'	174"	45'	534"	75'	894"
20'	234"	50'	594"	80'	954"
25'	294"	55'	654"	85'	1014"
30'	354"	60'	714"	90'	1074"
35'	414"	65'	774"	95'	1134"
40'	474"	70'	834"	100'	1194"

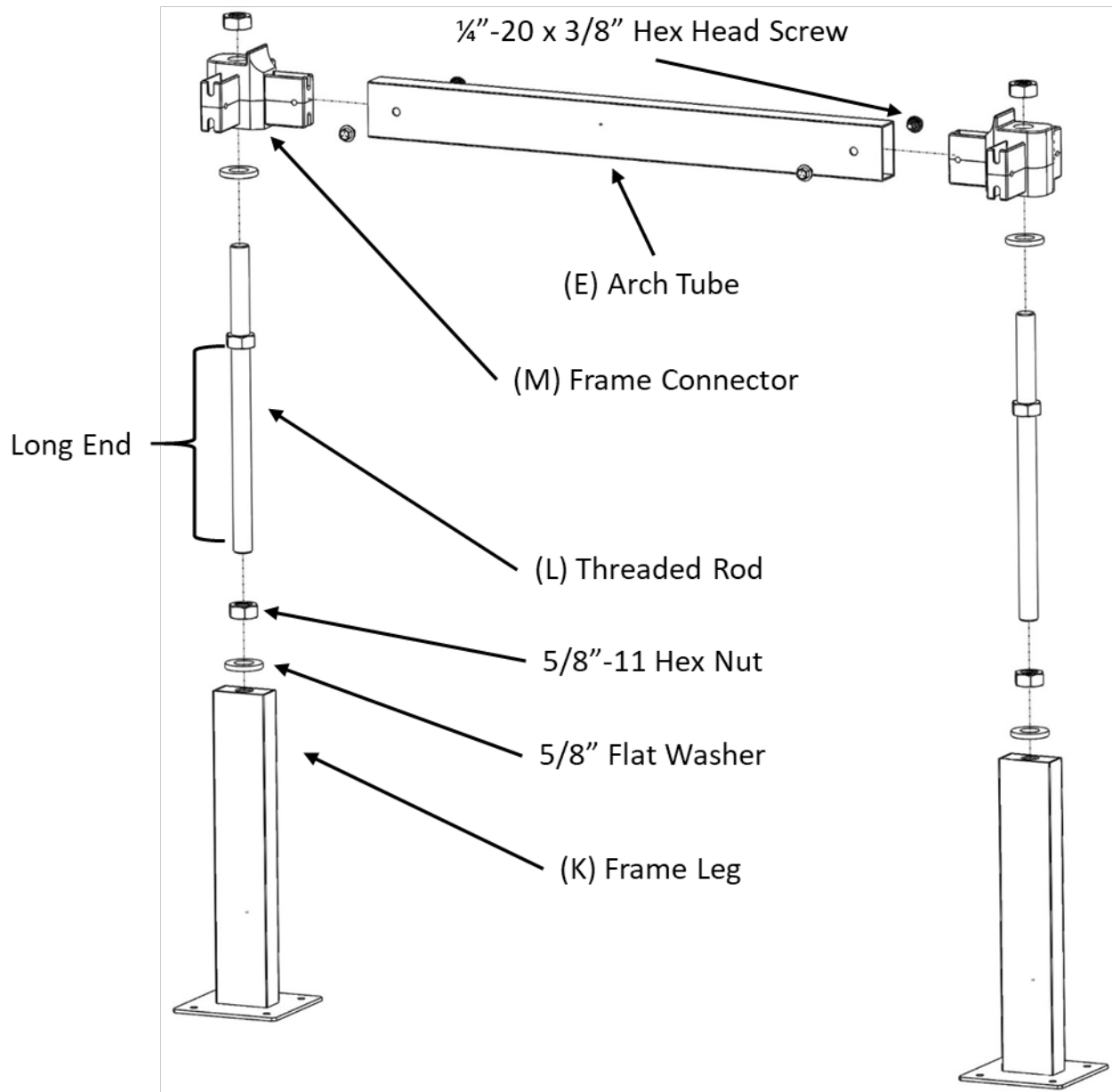
E. Distance A from the back wall, snap a chalk line along the back wall from left to right.

F. Distance B from the left wall, snap a chalk line along the left wall from back to front.

G. Distance C from the line created in step F, snap a parallel chalk line from back to front.  
Repeat as necessary based on the number of benches to be installed in the room.

**NOTE: Arches are nominally 60" from arch to arch. The last arch opposite the drain end, is a short section and is only 54" apart.**

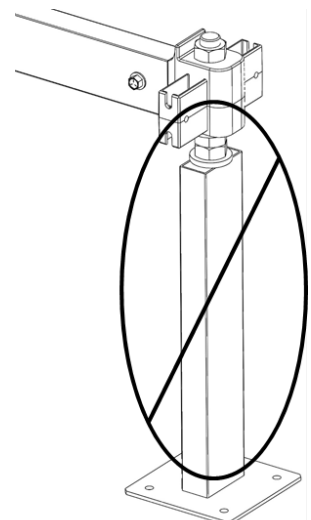
## **Step 2. Arch Assembly**

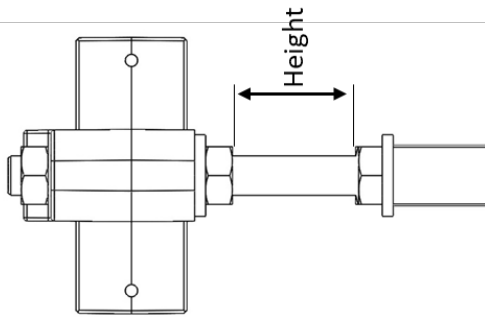


**NOTE:** If the assembled bench is to include slope for faster drainage use the table provided to assemble each arch with appropriate height.

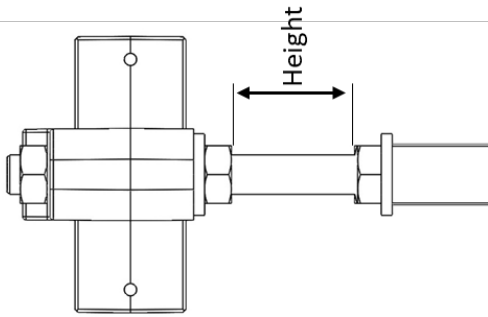
**TIP:** Label each arch with the arch number.

**TIP:** Snug threaded rod nuts to prevent movement of hardware.





20" & 30" Arch Height Adjustment Distance for Slope (Fractional Inches)																				
Arch Number	Nominal Bench Length (ft)																			
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
1 (Drain)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
2	5/8	5/8	5/8	5/8	5/8	5/8	5/8	9/16	1/2	7/16	7/16	3/8	3/8	5/16	5/16	5/16	1/4	1/4	1/4	
3	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/8	1	15/16	13/16	3/4	3/4	11/16	5/8	9/16	9/16	1/2	1/2	
4		1 7/8	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8	1 11/16	1 1/2	1 3/8	1 1/8	1 1/8	1 1/16	1	15/16	7/8	13/16	13/16	3/4	
5			2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/4	2	1 13/16	1 11/16	1 9/16	1 7/16	1 5/16	1 1/4	1 3/16	1 1/8	1 1/16	1	
6				3 1/8	3 1/8	3 1/8	3 1/8	2 3/4	2 1/2	2 1/4	2 1/16	1 15/16	1 13/16	1 11/16	1 5/8	1 1/2	1 3/8	1 5/16	1 1/4	
7					3 3/4	3 3/4	3 3/4	3 5/16	3	2 3/4	2 1/2	2 5/16	2 1/8	2	1 7/8	1 3/4	1 11/16	1 9/16	1 1/2	
8						4 3/8	4 3/8	3 7/8	3 1/2	3 3/16	2 15/16	2 11/16	2 1/2	2 5/16	2 3/16	2 1/16	1 15/16	1 13/16	1 3/4	
9							5	4 7/16	4	3 5/8	3 5/16	3 1/16	2 7/8	2 11/16	2 1/2	2 3/8	2 1/4	2 1/8	2	
10								5	4 1/2	4 1/8	3 3/4	3 7/16	3 3/16	3	2 13/16	2 5/8	2 1/2	2 3/8	2 1/4	
11									5	4 9/16	4 3/16	3 7/8	3 9/16	3 5/16	3 1/8	2 15/16	2 3/4	2 5/8	2 1/2	
12									5	4 9/16	4 1/4	3 15/16	3 11/16	3 11/16	3 7/16	3 1/4	3 1/16	2 7/8	2 3/4	
13										5	4 5/8	4 5/16	4	3 3/4	3 3/4	3 1/2	3 5/16	3 3/16	3	
14												5	4 5/8	4 5/16	4 1/16	3 13/16	3 5/8	3 7/16	3 1/4	
15													5	4 11/16	4 3/8	4 1/8	3 7/8	3 11/16	3 1/2	
16														5	4 11/16	4 7/16	4 3/16	3 15/16	3 3/4	
17															5	4 11/16	4 7/16	4 3/16	4	
18																5	4 3/4	4 1/2	4 1/4	
19																	5	4 3/4	4 1/2	
20																		5	4 3/4	
21																			5	
																			5	

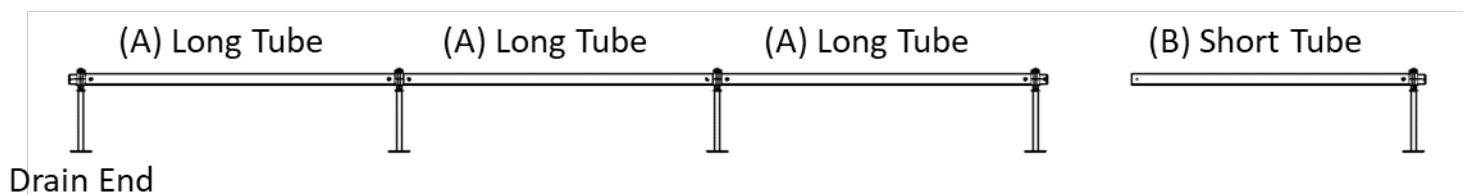
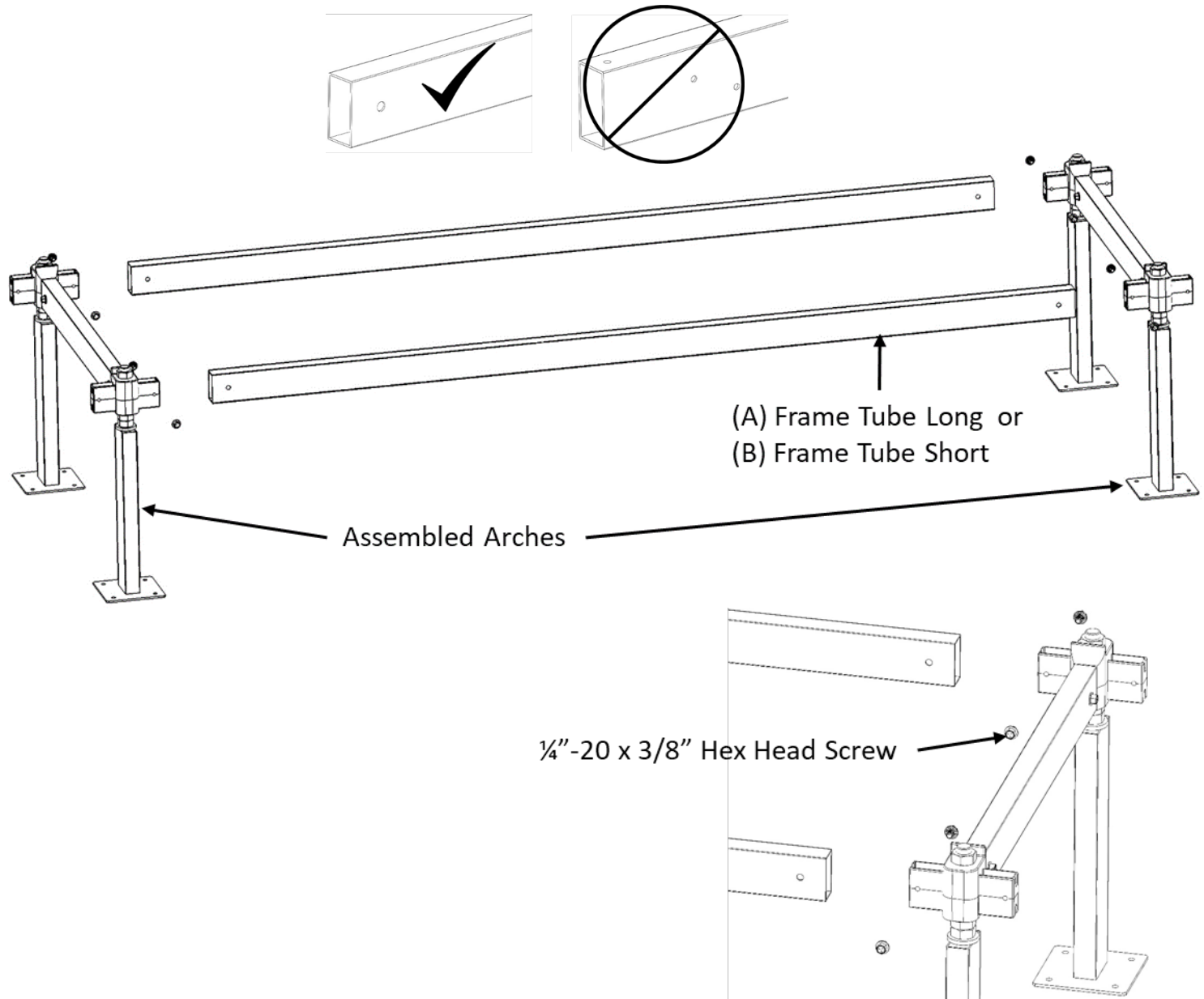


12" Arch Height Adjustment Distance for Slope (Fractional Inches)																				
Arch Number	Nominal Bench Length (ft)																			
	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
1 (Drain)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	5/16	5/16	5/16	5/16	5/16	5/16	5/16	1/4	1/4	1/4	3/16	3/16	3/16	3/16	1/8	1/8	1/8	1/8	1/8	1/8
3	5/8	5/8	5/8	5/8	5/8	5/8	5/8	9/16	1/2	7/16	7/16	3/8	3/8	5/16	5/16	5/16	1/4	1/4	1/4	1/4
4		15/16	15/16	15/16	15/16	15/16	15/16	13/16	3/4	11/16	5/8	9/16	9/16	1/2	1/2	7/16	7/16	3/8	3/8	3/8
5			1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/8	1	15/16	13/16	3/4	11/16	11/16	5/8	9/16	9/16	1/2	1/2	1/2
6				1 9/16	1 9/16	1 9/16	1 9/16	1 3/8	1 1/4	1 1/8	1 1/16	15/16	7/8	13/16	3/4	3/4	11/16	11/16	11/16	5/8
7					1 7/8	1 7/8	1 7/8	1 11/16	1 1/2	1 3/8	1 1/4	1 1/8	1 1/16	1	15/16	7/8	13/16	13/16	13/16	3/4
8						2 3/16	2 3/16	1 15/16	1 3/4	1 9/16	1 7/16	1 3/8	1 1/4	1 3/16	1 1/8	1	1	15/16	15/16	7/8
9							2 1/2	2 1/4	2	1 13/16	1 11/16	1 9/16	1 7/16	1 5/16	1 1/4	1 3/16	1 1/8	1 1/16	1 1/16	1
10								2 1/2	2 1/4	2 1/16	1 7/8	1 3/4	1 5/8	1 1/2	1 3/8	1 5/16	1 1/4	1 3/16	1 3/16	1 1/8
11									2 1/2	2 1/4	2 1/16	1 15/16	1 13/16	1 11/16	1 9/16	1 1/2	1 3/8	1 5/16	1 5/16	1 1/4
12									2 1/2	2 1/4	2 5/16	2 1/8	1 15/16	1 13/16	1 3/4	1 5/8	1 1/2	1 7/16	1 7/16	1 3/8
13										2 1/2	2 1/2	2 5/16	2 1/8	2	1 7/8	1 3/4	1 11/16	1 9/16	1 1/2	1 1/2
14												2 1/2	2 5/16	2 3/16	2	1 15/16	1 13/16	1 11/16	1 11/16	1 5/8
15													2 1/2	2 5/16	2 3/16	2 1/8	1 15/16	1 13/16	1 13/16	1 3/4
16														2 1/2	2 3/8	2 3/16	2 1/16	2	2	1 7/8
17															2 1/2	2 3/8	2 1/4	2 1/8	2	2
18																2 1/2	2 3/8	2 1/4	2 1/8	2 1/8
19																	2 3/8	2 1/4	2 1/4	2 1/8
20																		2 3/8	2 1/2	2 1/4
21																			2 1/2	2 1/2

### Step 3. Frame Assembly

**NOTE:** Assemble the frame in roughly the final position that it will be installed in the room.

**NOTE:** Start with the end of the bench where the drain will be located. This will be Arch 1 from step 2.

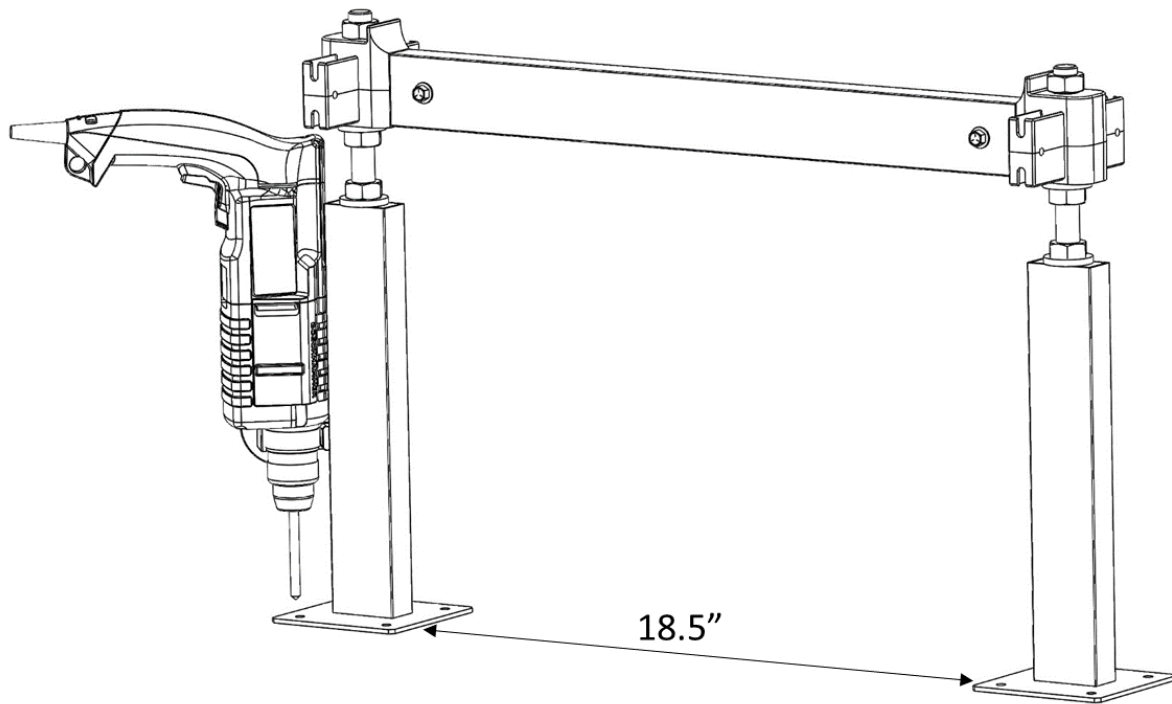


## Step 4. Anchor Frame

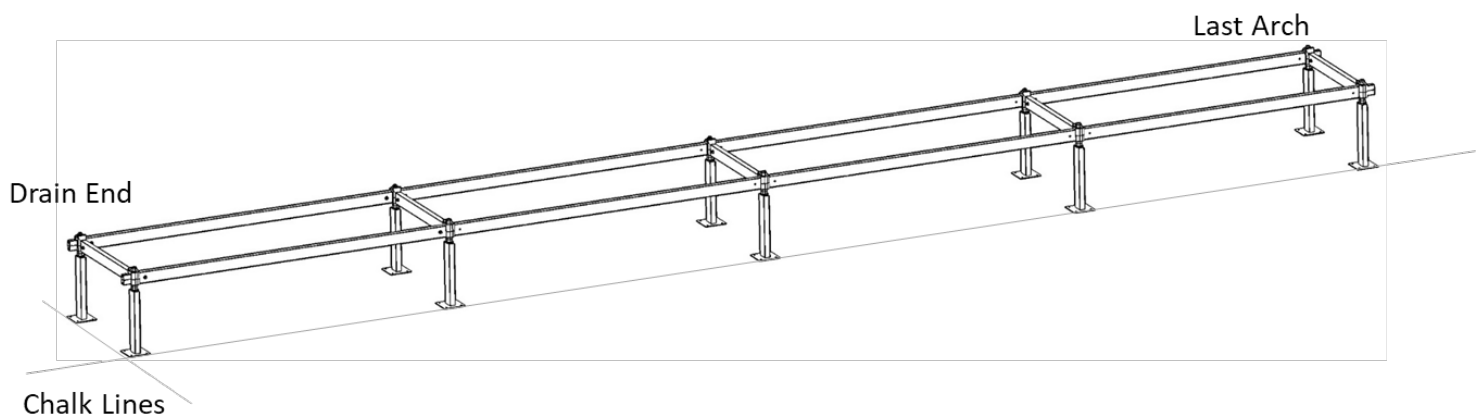
**NOTE:** Follow anchor manufacturer's instruction to properly drill and install anchors.

**CAUTION:** All leg mounting locations must have the anchors installed and properly tightened to prevent damage to the bench or a failure of a component that could lead to injury to personnel.

**CAUTION:** Do not drill into post tension slabs.

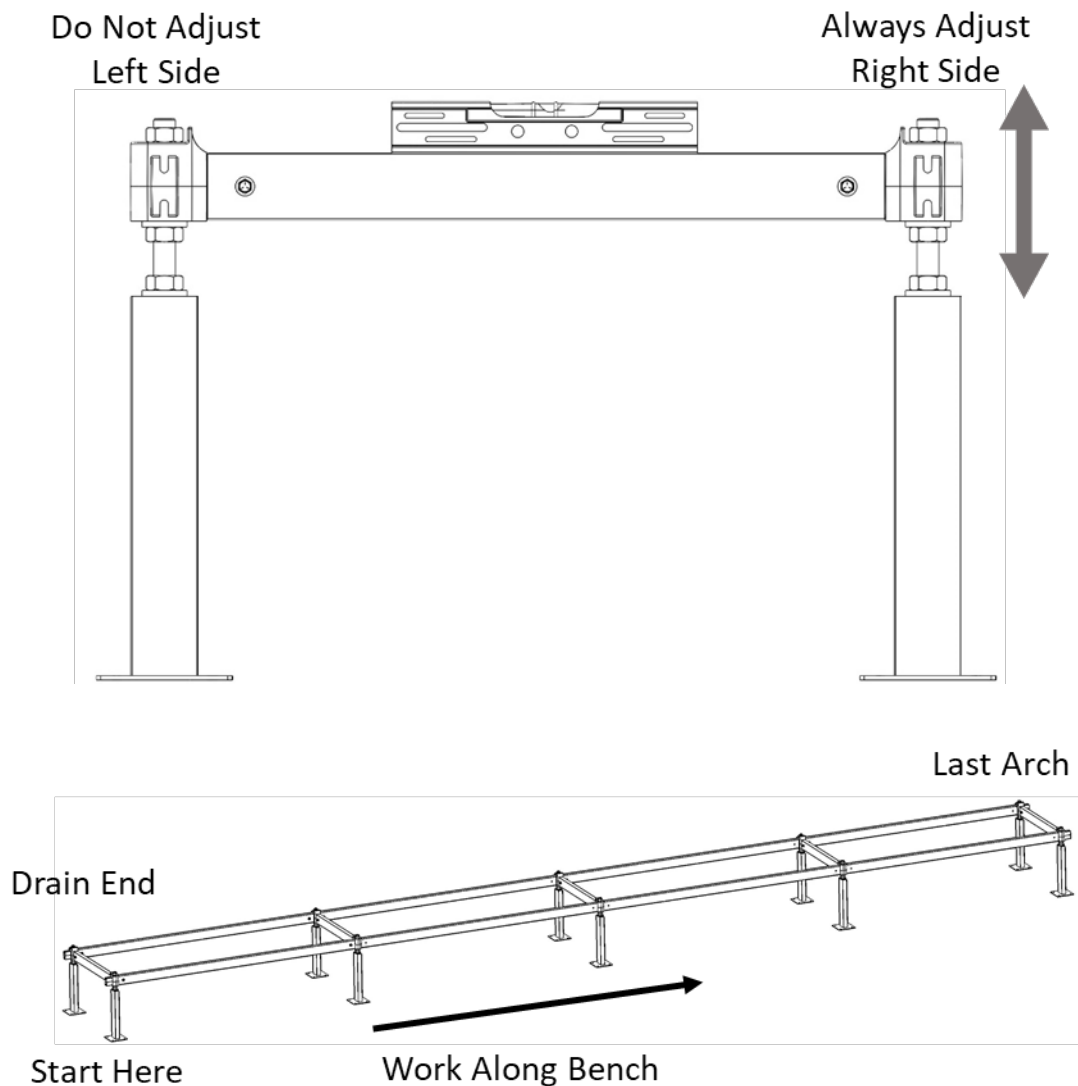


Align edge of foot plates to chalk lines from Step 1, drill and install anchors



## **Step 5. Level Frame**

Level each arch from side to side so the table doesn't roll to the low side.

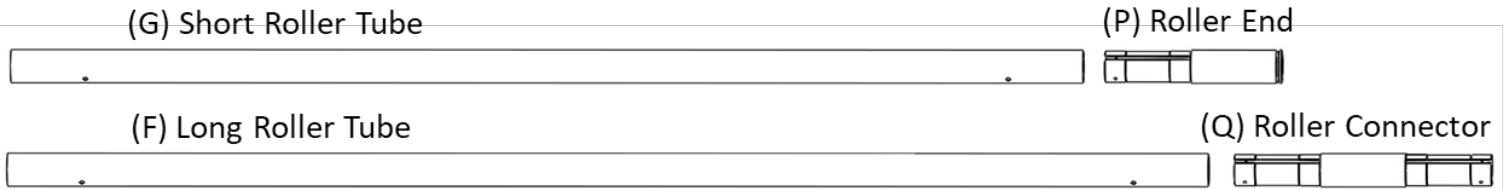


Tighten top and bottom Hex Nuts as each arch is leveled.

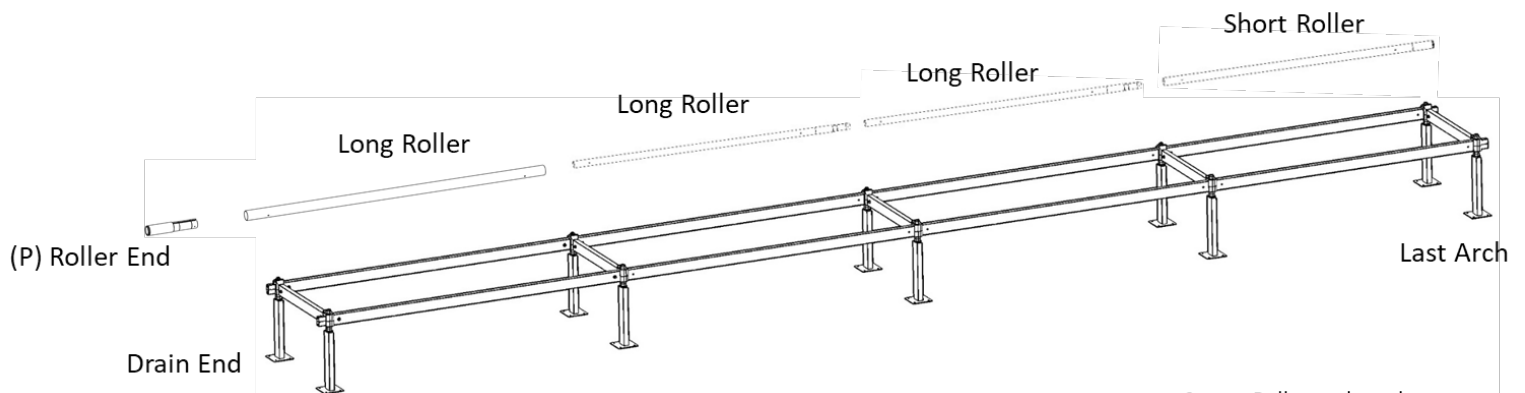
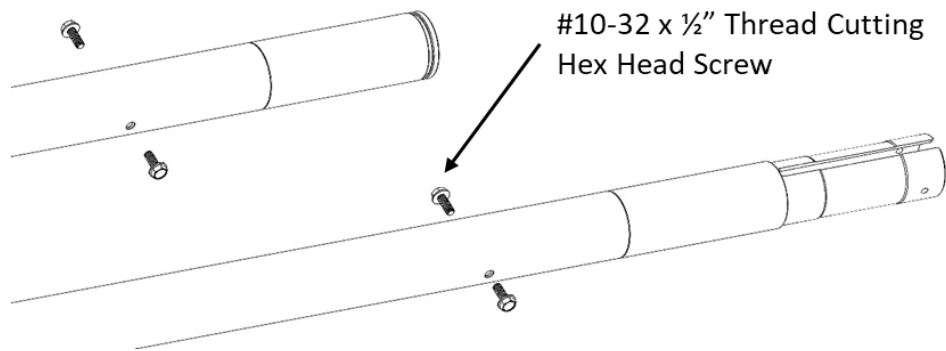


## **Step 6. Roller Tube Assembly**

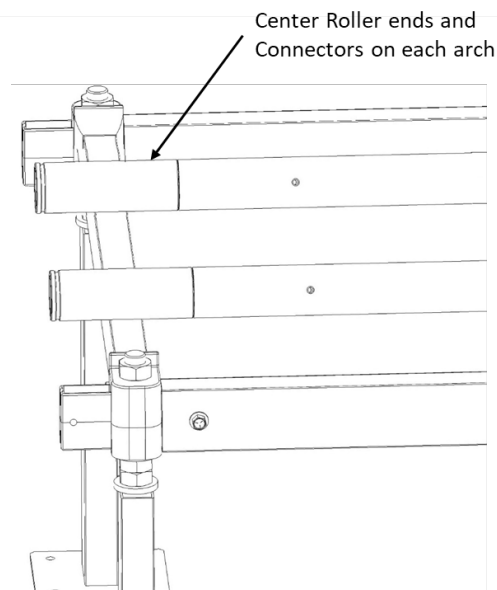
NOTE: All short roller tubes get one (1) roller end, all long roller tubes get one (1) roller connector on one end.



**CAUTION: Do not overtighten screws as this will cause the threads to strip out of the rollers**



Two roller assemblies per Bench.

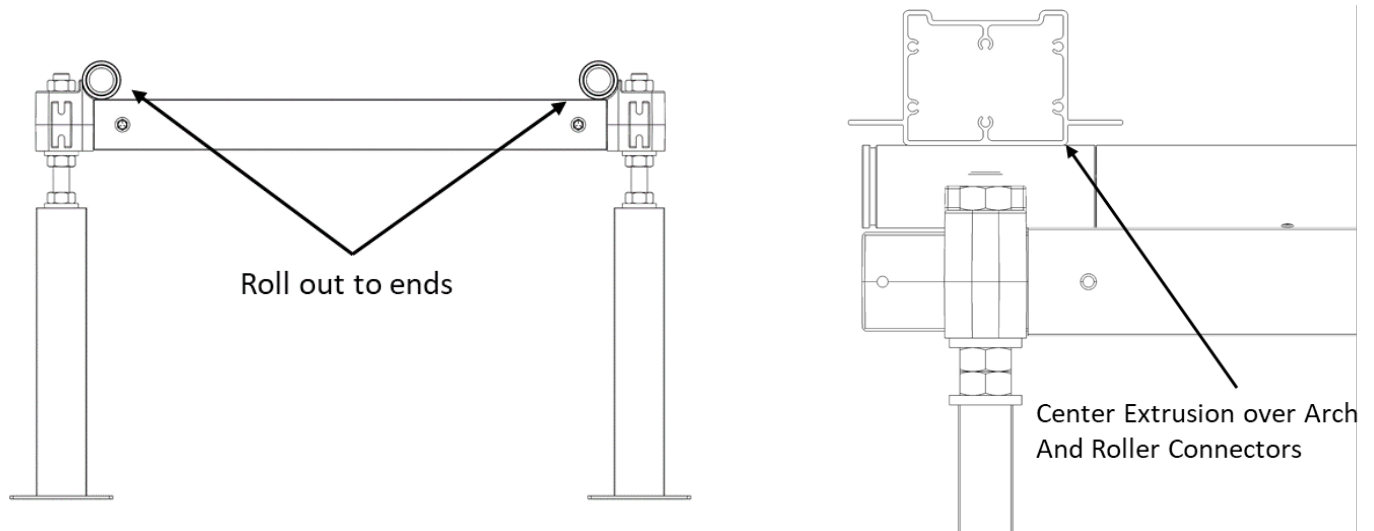


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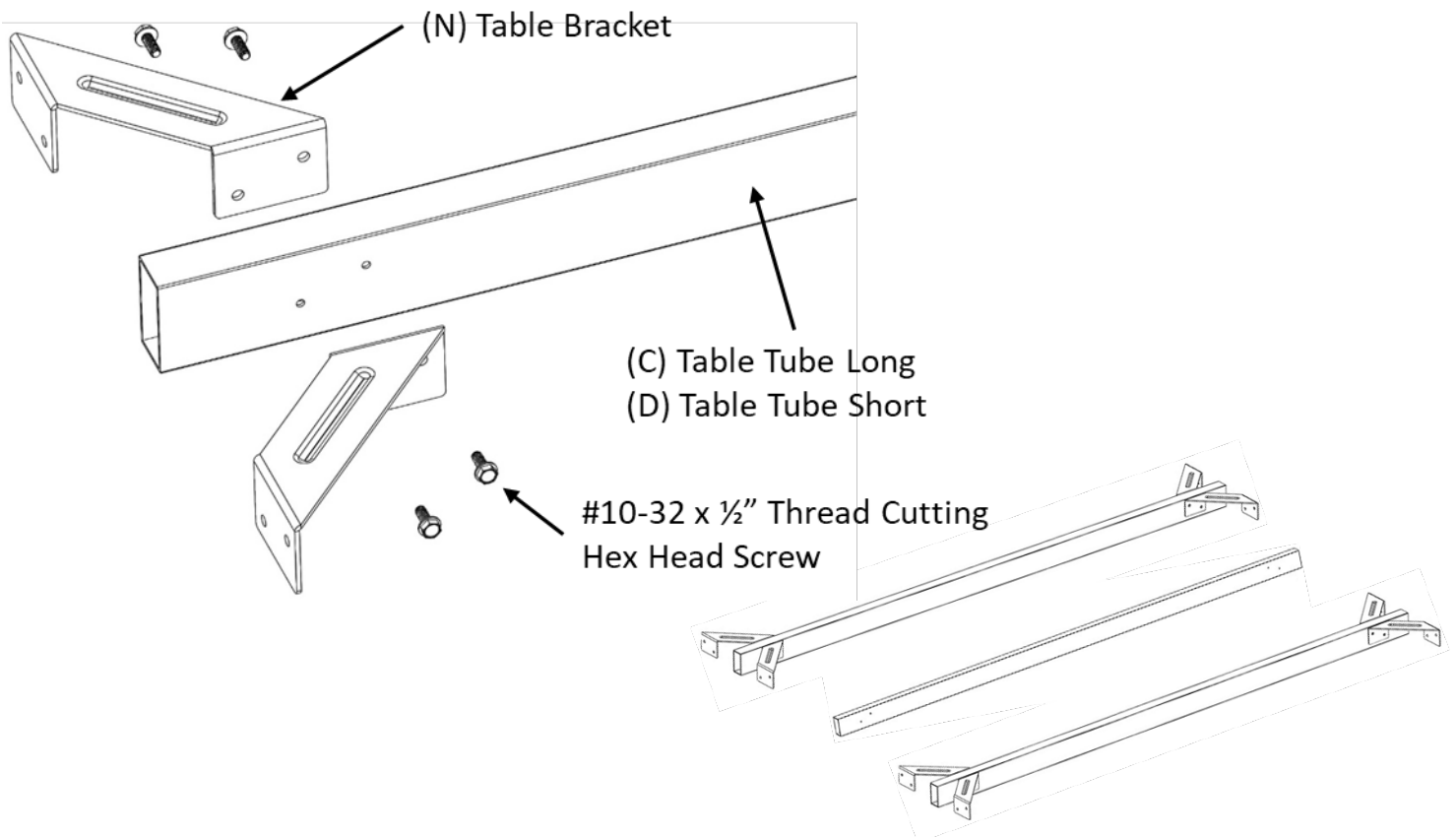
## **Step 7. Table Assembly (4' Wide Bench)**

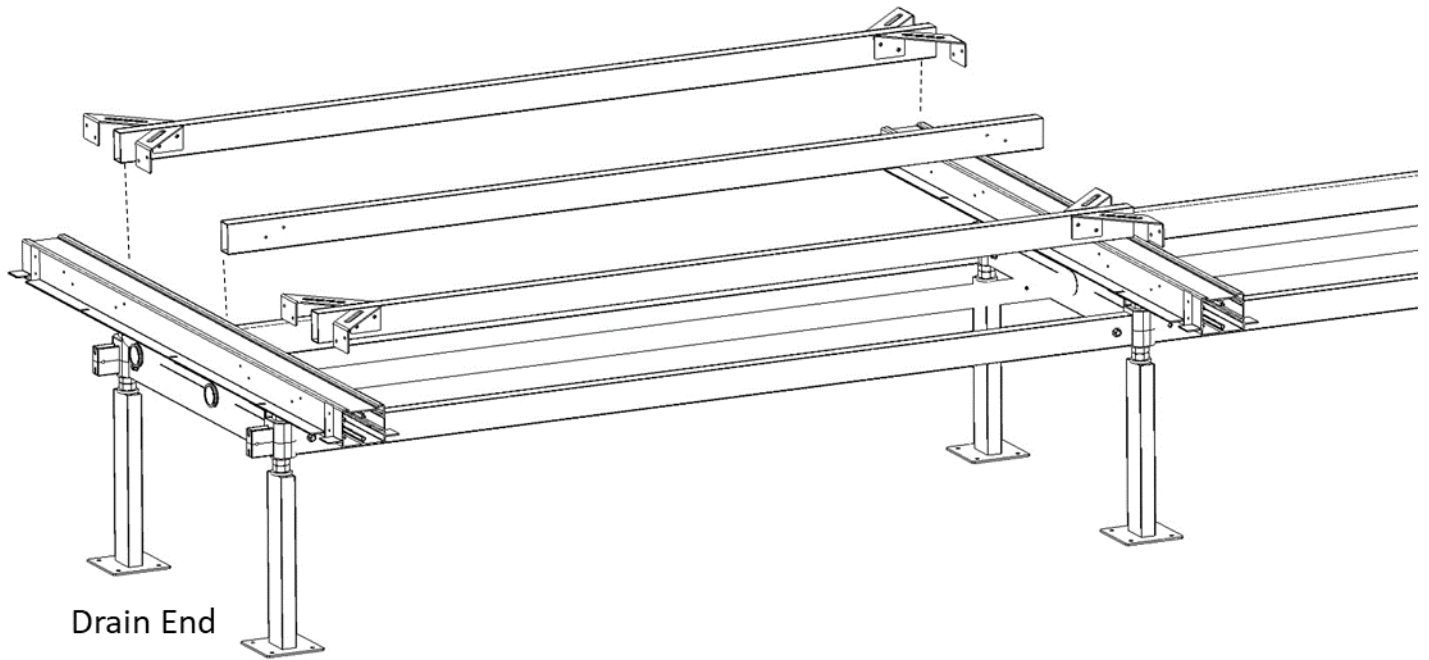
Assemble the table top in 5 foot sections as you continue to work down the length of the bench.

**CAUTION:** Roll each roller assembly to the appropriate outside stop to provide a stable platform for assembly of the table.



**NOTE:** Only 2 of every 3 long and short table tubes get brackets attached.



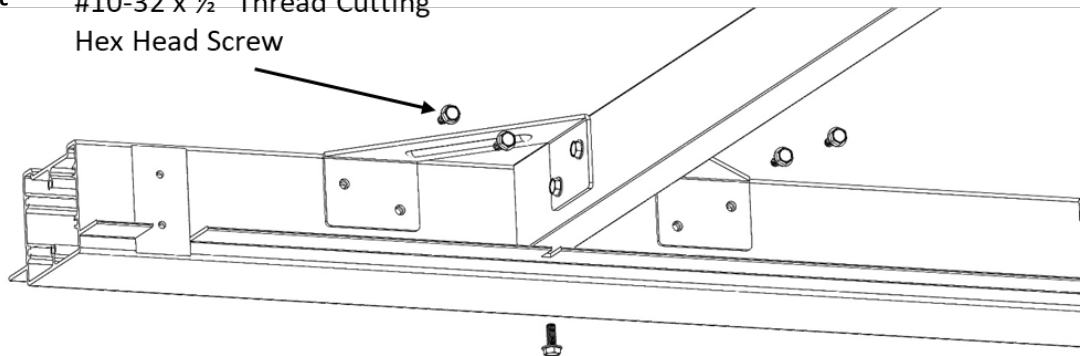


**CAUTION:** Do not overtighten screws as this will cause the threads to strip out.

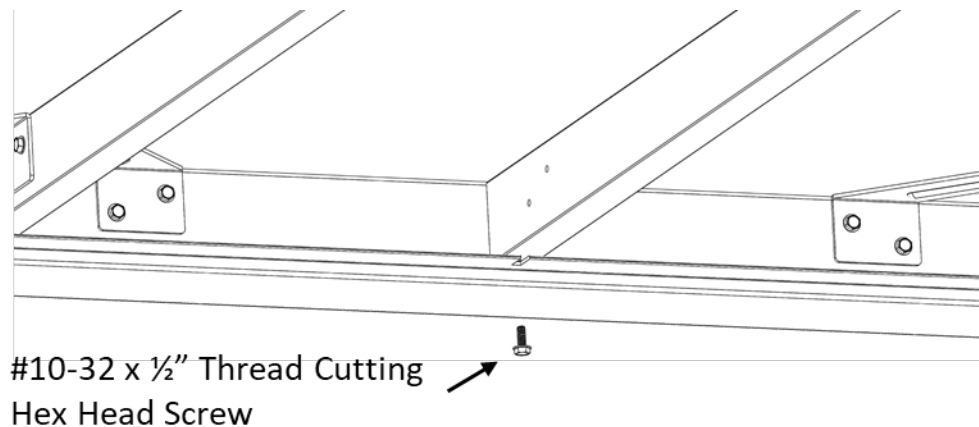
**NOTE:** Install bottom screws last for a better fit between tubes and extrusion.

Install outer tubes first

#10-32 x ½" Thread Cutting  
Hex Head Screw



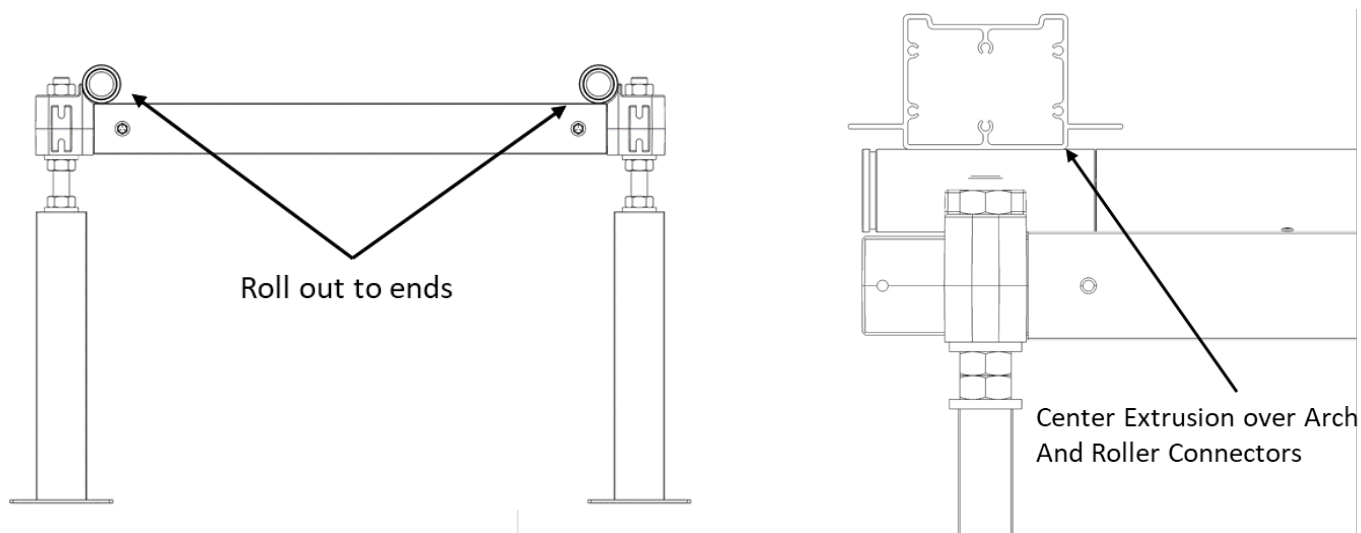
Install Middle Tube after outer tubes



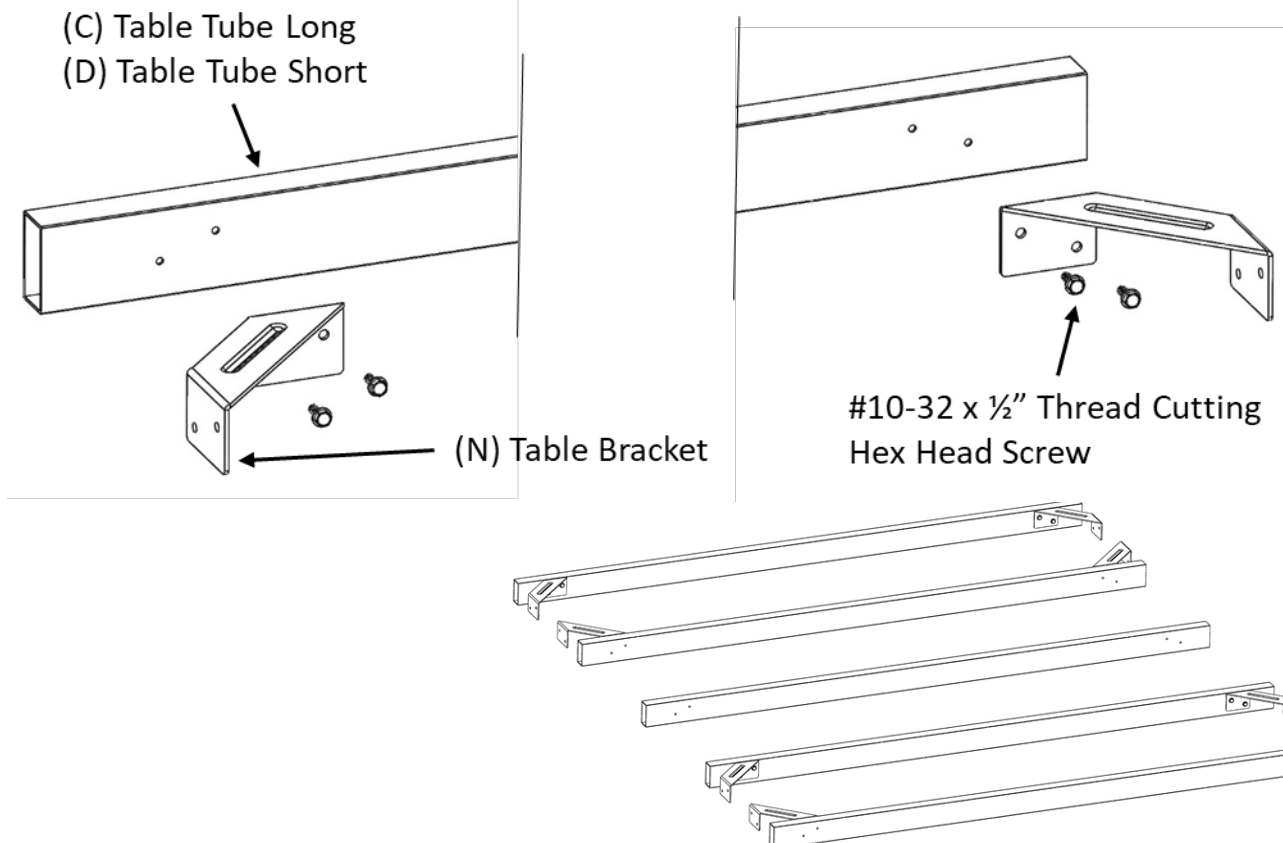
## **Step 7. Table Assembly (5' Wide Bench)**

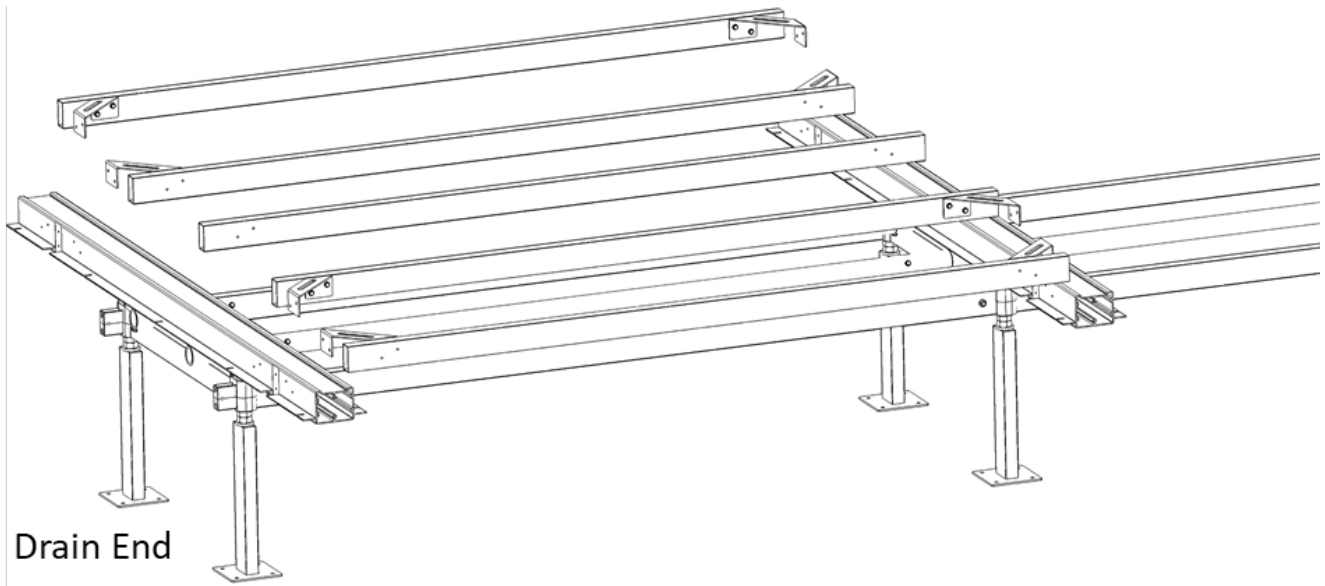
Assemble the table top in 5 foot sections as you continue to work down the length of the bench.

**CAUTION:** Roll each roller assembly to the appropriate outside stop to provide a stable platform for assembly of the table.



**NOTE:** Only 4 of every 5 long and short table tubes get brackets attached.

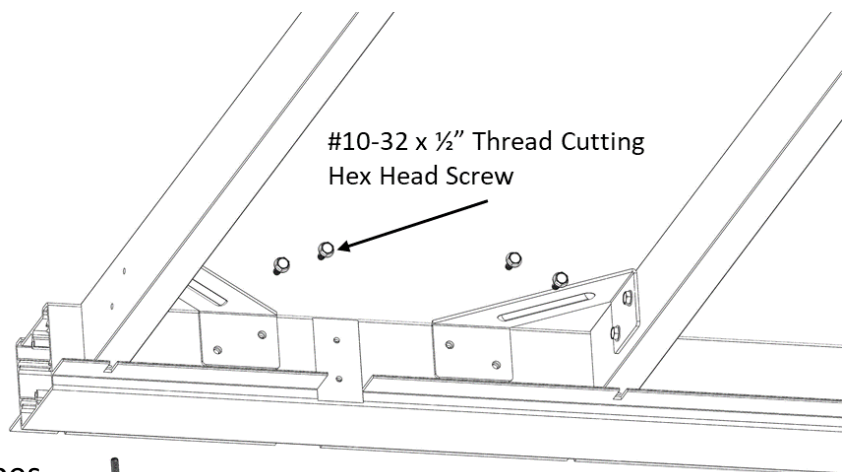




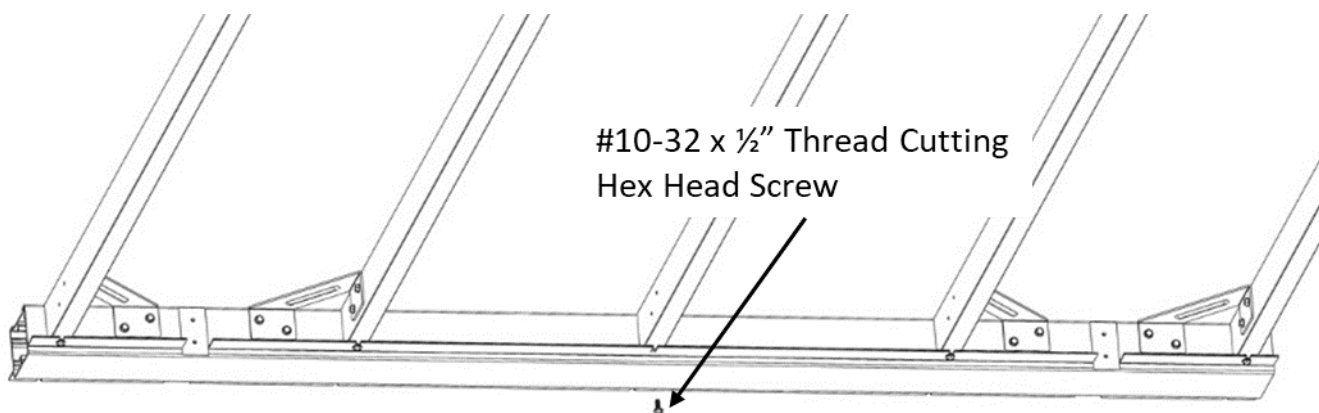
**CAUTION:** Do not overtighten screws as this will cause the threads to strip out.

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

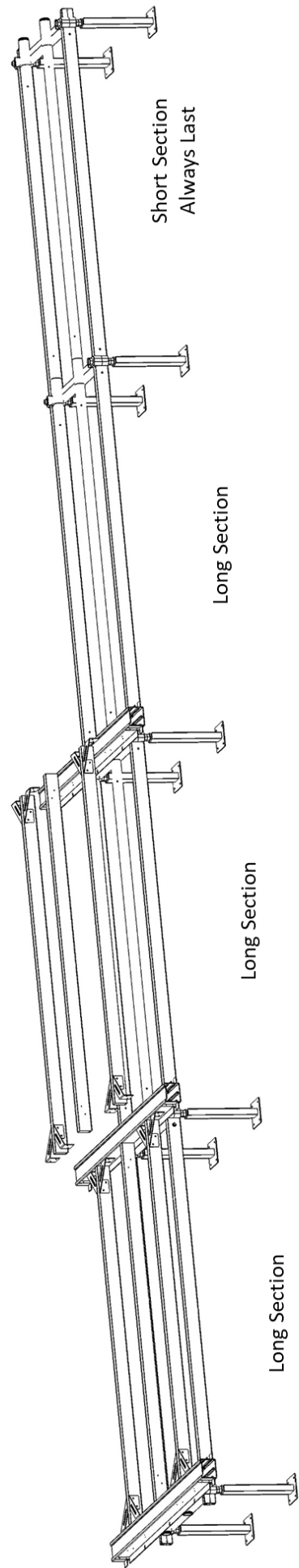
Install outer tubes first



Install Middle Tube after outer tubes



Assemble next 5' section

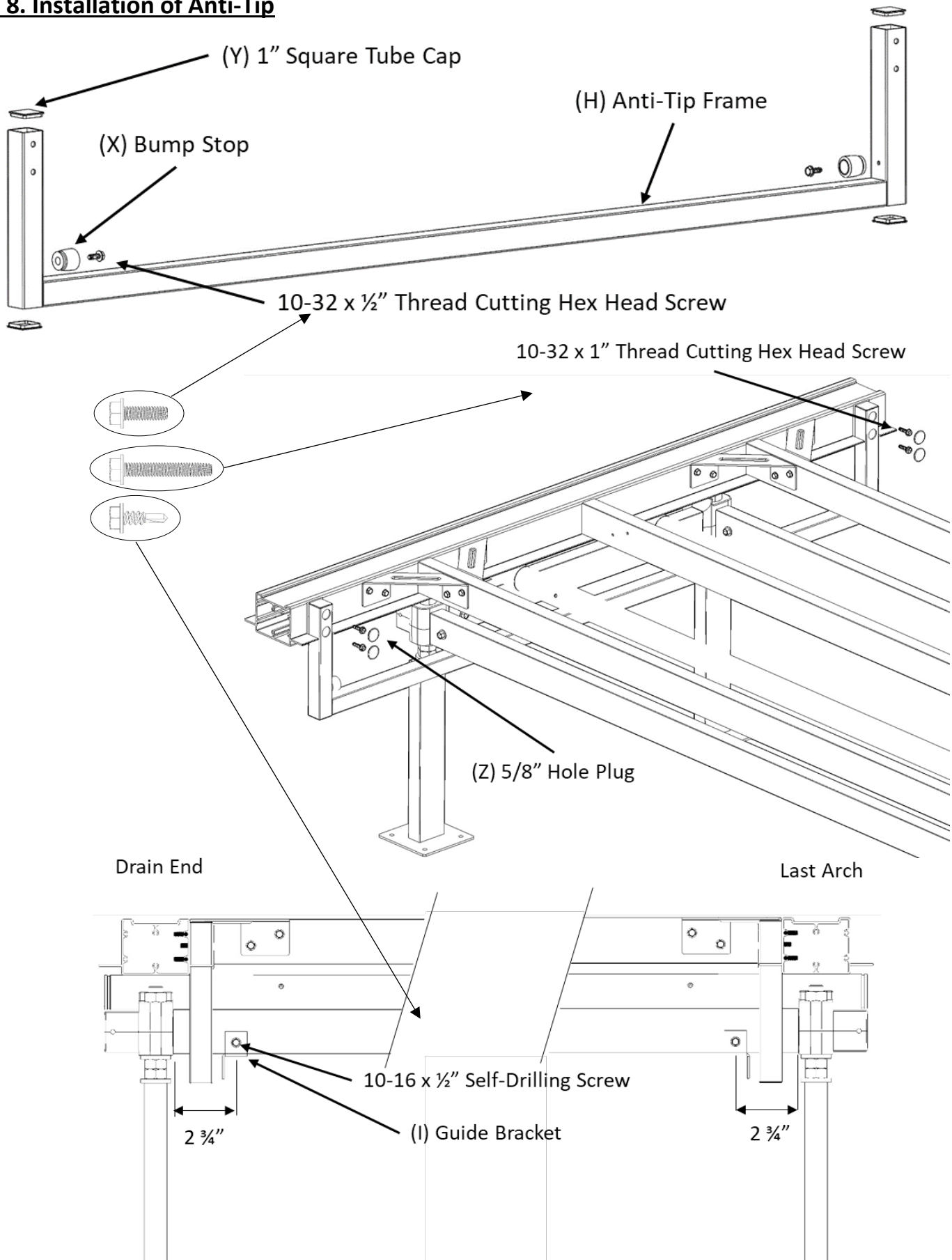


**CAUTION:** The table is only resting on the rollers and if moved off center or if weight is placed on one side the table could tip off the rollers and frame causing damage or injury.

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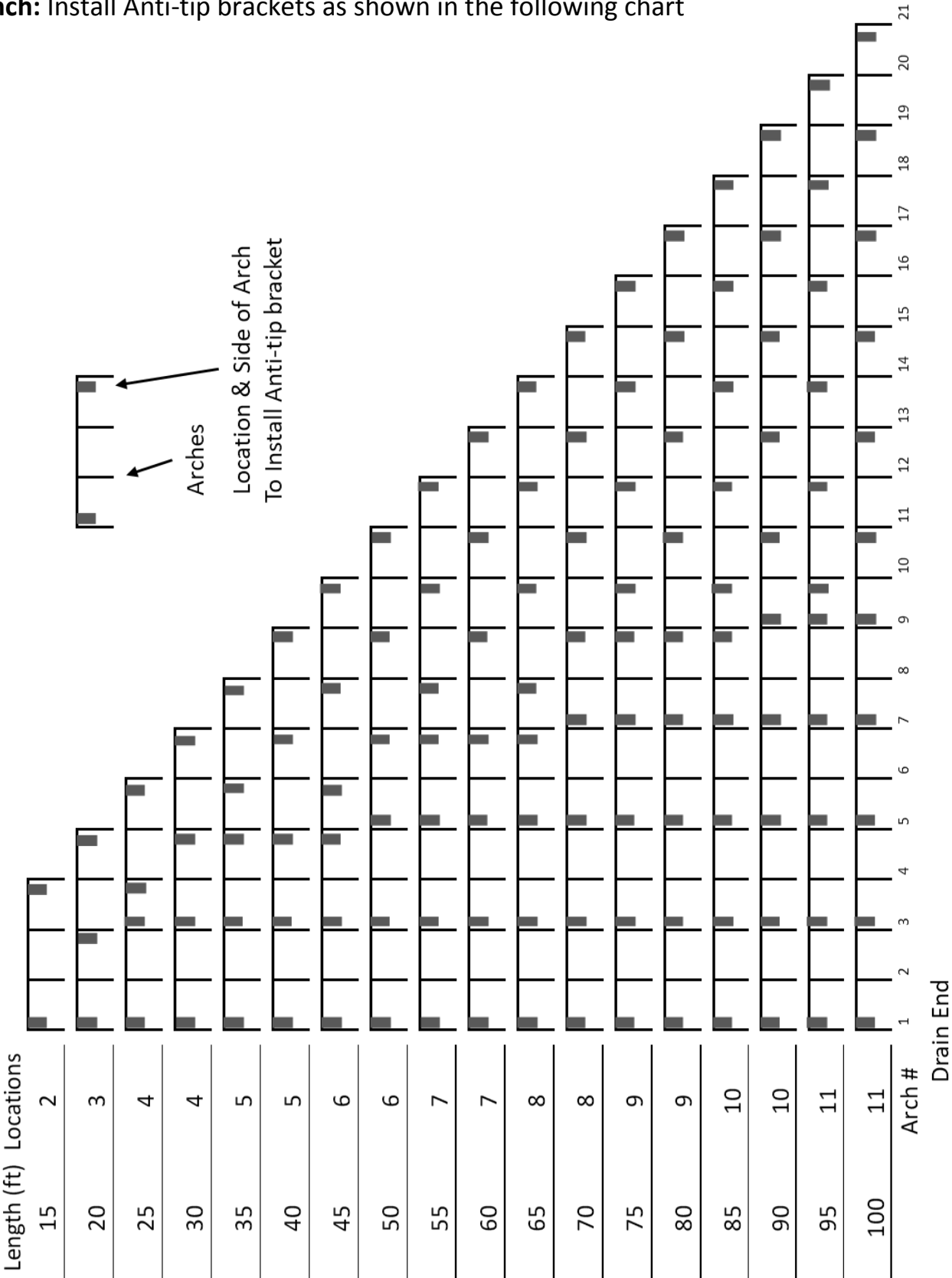


## Step 8. Installation of Anti-Tip

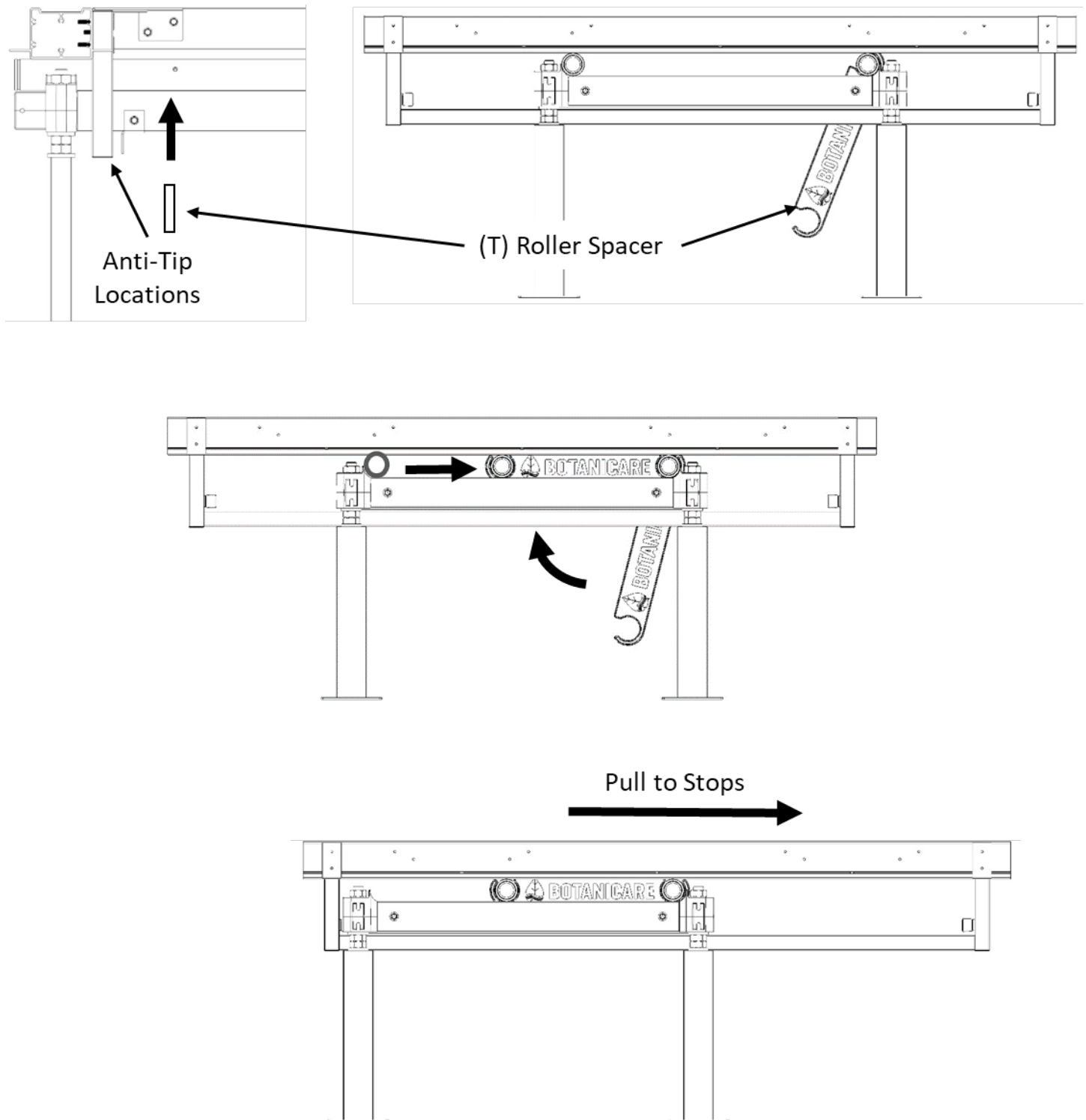


**5' Bench:** Install Anti-tip bracket at every arch location.

**4' Bench:** Install Anti-tip brackets as shown in the following chart

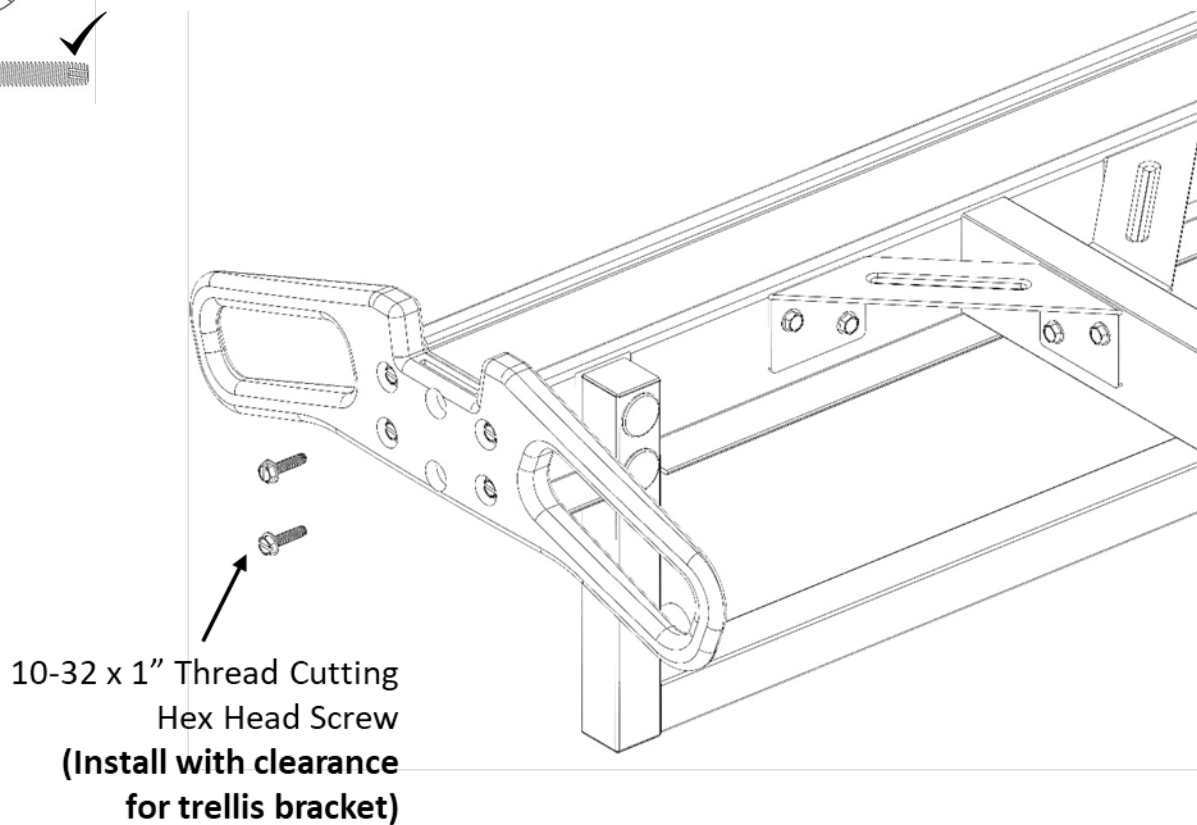
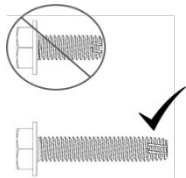
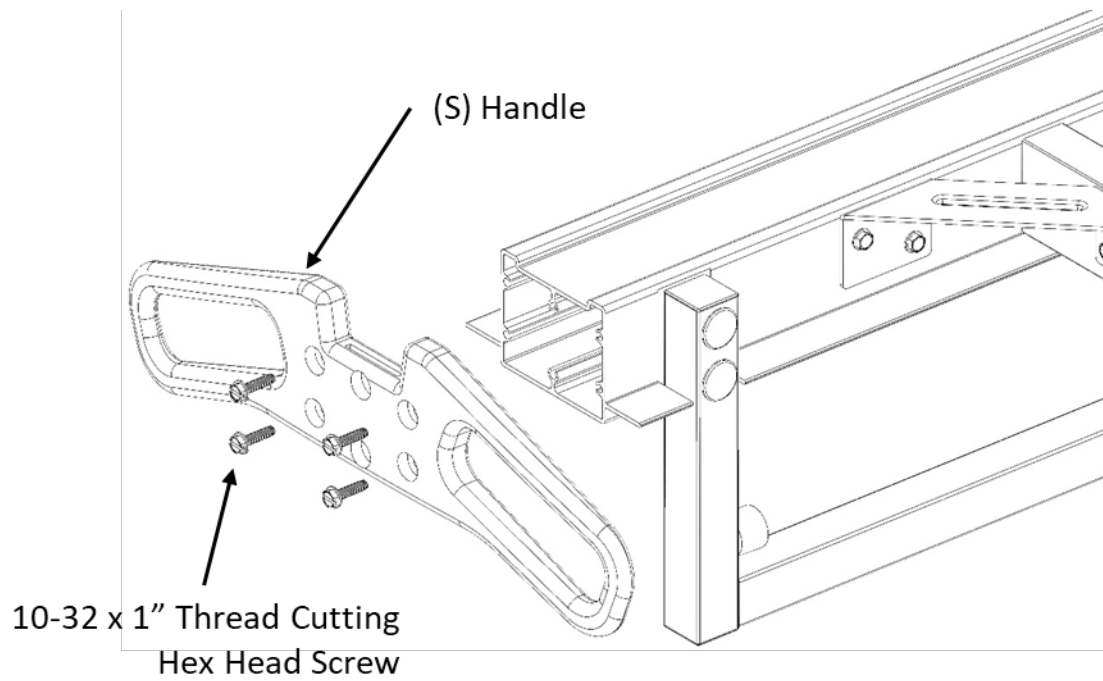


## Step 9. Installation of Roller Spacers



Test movement, adjust as necessary.

## Step 10. Installation of Pull Handles



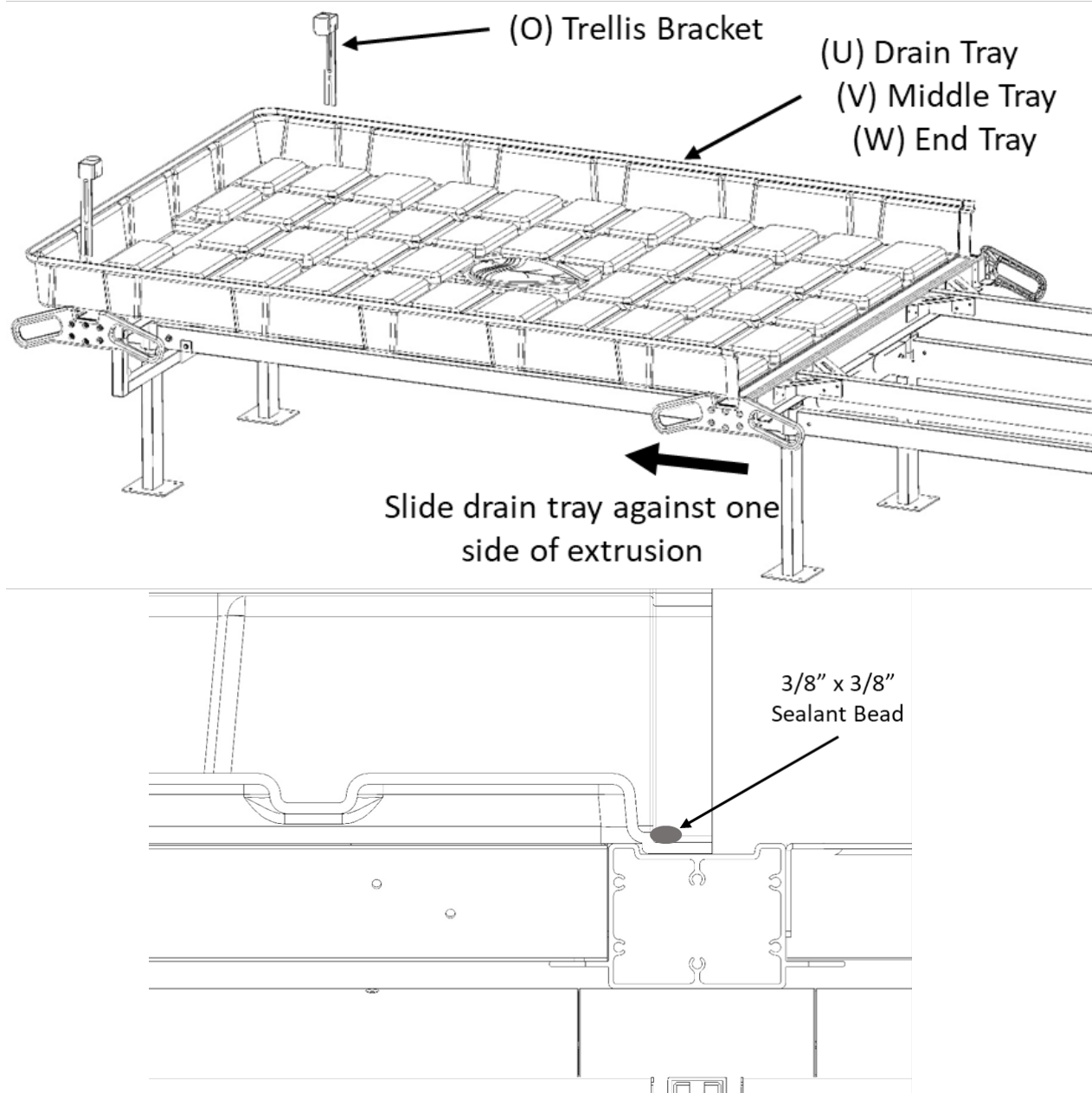
## **Step 11. Tray Assembly**

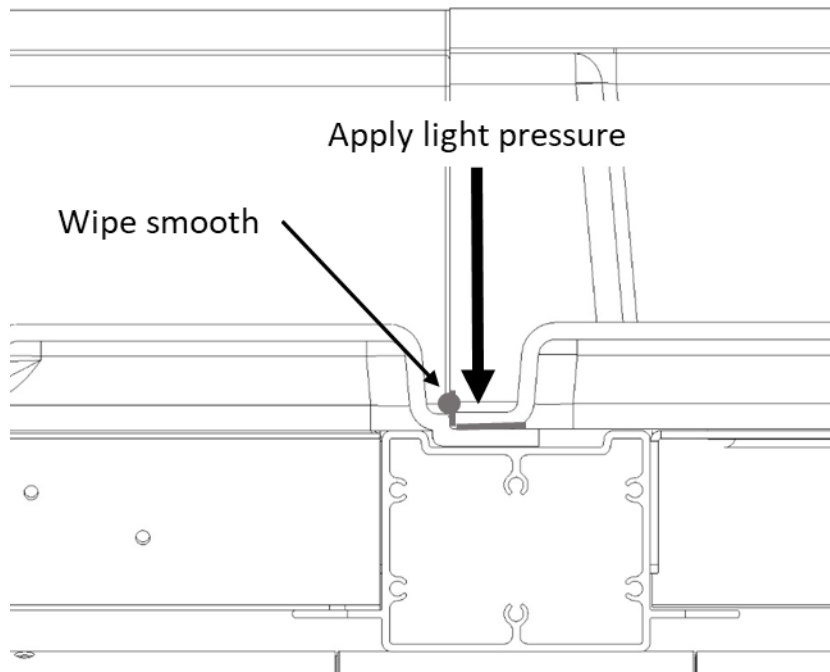
**TIP:** Dry fit all trays on the table to make sure all seams fall into the recess in the table extrusions.

Clean all surfaces that will be bonded using Isopropyl Alcohol and clean clothes.

Before using **BOND THREE** Lap Tray Sealant Adhesive, carefully read and follow all warnings and directions for use, on package and in instructions.

**TIP:** Beginning with Arch 1, install trellis brackets. Bond tray seam and install trellis bracket to help keep trays aligned and the tray joints held tightly.





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

