

Jack Docks

Assembly Instructions

Stationary Jack Docks
Rolling Jack Docks
DIY Jack Sections

RECOMMENDED TOOLS



Wrenches or sockets:
M14 (or 9/16")
M15 (or 5/8")
M19 (or 3/4")



Cordless Drill



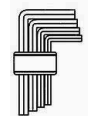
Rubber Mallet



Screwdriver
(Phillips)



Work Gloves



Allen Wrench
8mm (or 5/16")



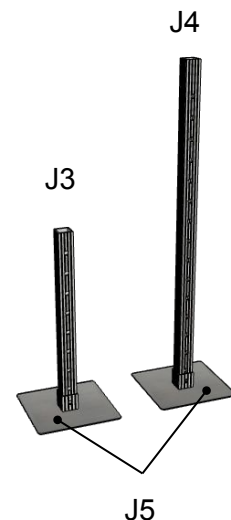
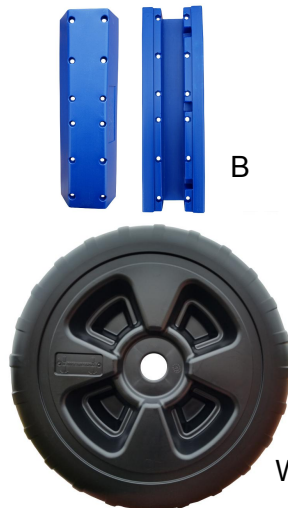
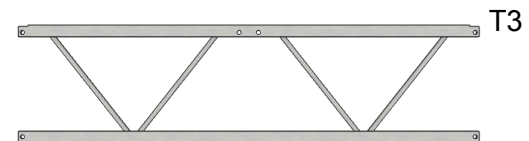
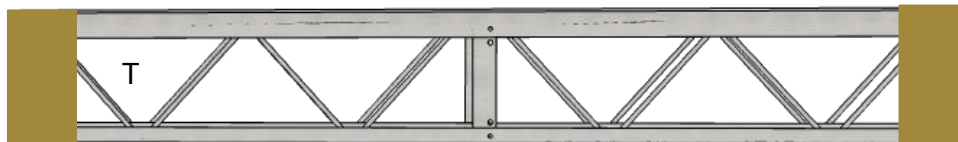
Jack Docks

Components

POTENTIAL DOCK COMPONENTS

Each dock order includes different components and quantities. Refer to your packing slip for all components and quantities. This chart represents common parts in Stationary and Rolling Jack Docks.

	Part Number	Description
T	10800	TRUSS FRAME KIT
A	10870/10851/10861/10957/10977	DECKING PANEL (CEDAR / GRAY POLY / TAN POLY / GRAY ALUM / BROWN ALUM)
T3	10803	EXTRA EXTERNAL END RAIL
B	10886	DOCK BUMPER
J1	10840	STANDARD DOCK JACK
J2	10819	TALL DOCK JACK
J3	10855-1	STANDARD DROP LEG TUBE
J4	10857-1	TALL DROP LEG TUBE
J5	10855-2	DROP LEG BASE
J6	10423	JACK AXLE
W	10821	DOCK WHEEL (for rolling docks only)
I	10854	CORK ROLL (for aluminum decking only)
AA	10867/10868	DECK LOCKERS FOR POLY / ALUMINUM DECKING

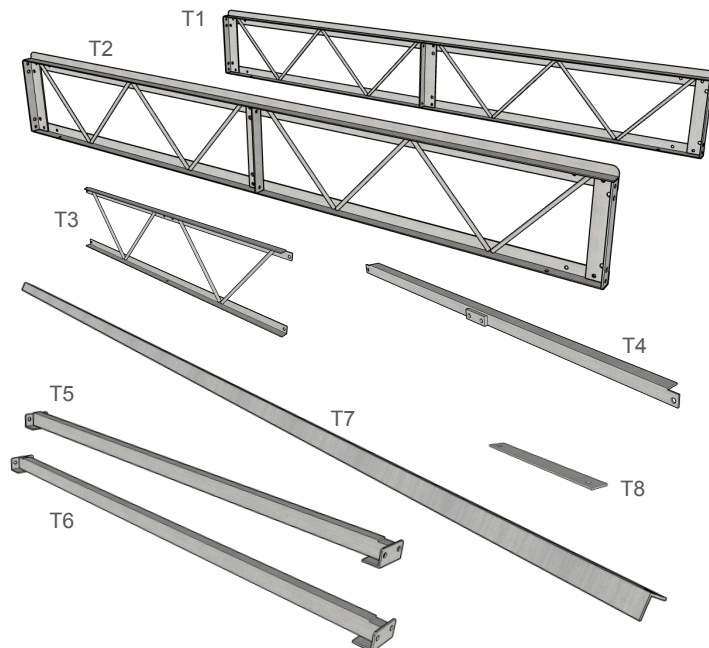


Jack Docks

Components

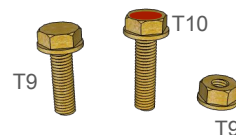
T. EACH FRAME PACKAGE COMPONENTS

	Part Number	Description	Qty
T1	10800-1	LEFT SIDE RAIL	1
T2	10800-2	RIGHT SIDE RAIL	1
T3	10803	END RAIL	2
T4	10800-4	CONNECTING RAIL	1
T5	10800-5	SHORT CENTER SUPPORT TUBE	1
T6	10800-6	LONG CENTER SUPPORT TUBE	1
T7	10800-7	DIAGONAL BRACE	1
T8	10802	TRUSS FRAME TRANSITION PLATE	1



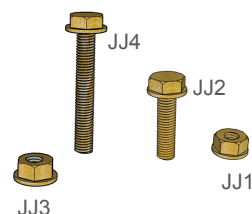
T9 & T10 Truss Frame Hardware

T9 & T10 Truss Frame Hardware		Qty
T9	M10x30mm Flange Bolt	22
T9	M10 Flange Serrated Nut	24
T10	M10x38mm Flange Bolt	2



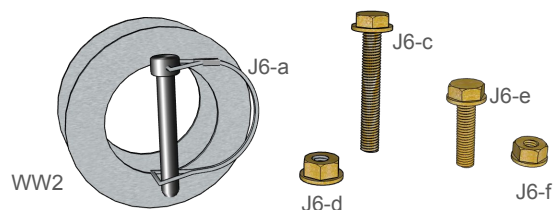
JJ Jack Hardware Kit

JJ1	M10 Flange Serrated Nut	4
JJ2	M10x35mm Flange Bolt	4
JJ3	M12 Flange Serrated Nut	2
JJ4	M12x60mm Flange Bolt	2



J6HW Jack Axle Hardware Kit

J6-a	Hitch Pin	1
WW2	Wheel Washer	2
J6-c	M12x70mm Flange Bolt	1
J6-d	M12 Flange Serrated Nut	1
J6-e	M10x25mm Flange Bolt	4
J6-f	M10 Flange Serrated Nut	4



BB. Bumper Hardware Kit

BB1	Vinyl Bolts	4
BB2	Vinyl Nuts	4

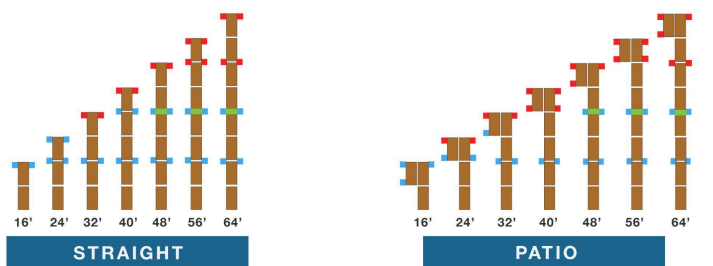


Jack Docks

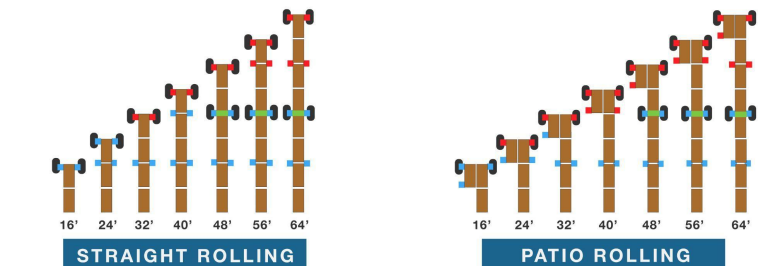
General

16ft Rule: Jack Docks frames are engineered to be supported every 16 feet of linear dock. The shore end of the dock is to rest on the shoreline directly without feet (this is not always possible for every application), and two supports are required at least every 16 feet afterward in addition to unsupported corners on patio sections. Long sequences joining 8ft side to 8ft side will require a pair of supports every 8 feet. Some large platforms will require extra support under connections joining 4 or more frames (not included). Though designs are customizable, here are the support locations for Standard Jack Docks Packages:

STATIONARY JACK DOCKS



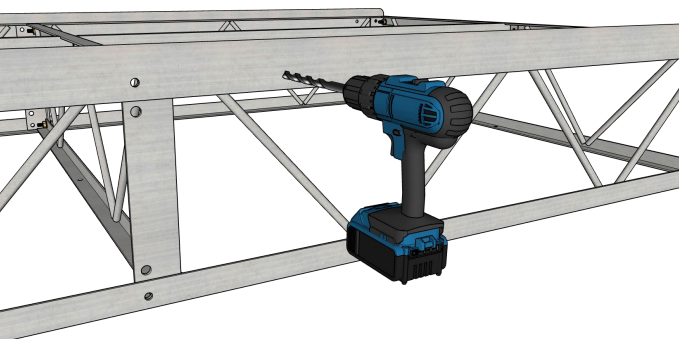
ROLLING JACK DOCKS



■ Dock Frame ■ Tall Jack ■ Standard Jack ■ End Rail

■ Dock Frame ■ Wheel ■ Tall Jack ■ Standard Jack ■ End Rail

Modular design: Jack Docks frames have the ability to attach frames together in any orientation, given proper support. Some orientations may require drilling extra holes. Configurations can change as often as you like, but each frame kit is assumed to join to the next consecutive frame, so they share a 4ft End Rail. When you add another patio section to the side of the main dock, another 4ft End Rail is required in addition to the frame packages provided.



Installing accessories: Jack Docks accessories and aftermarket accessories all bolt to the frame of the dock, not the decking panels. Decking is drop-in style. This means that any accessory bolted to the decking is liable to be dislodged if the panel is not firmly bolted to the frame. New holes are required in the frame for nearly all Jack Docks and aftermarket accessories.

Mooring your boat: Boats can be tied to any part of the truss frame since all of the strength is in the frame, particularly the vertical angles. Patriot Dock Cleats can also be purchased and mounted to any frame location as well. Aftermarket cleats are not readily compatible with drop-in decking, but any cleat or top surface accessory can be mounted to drop-in decking as long as that deck panel is firmly bolted to the frame.



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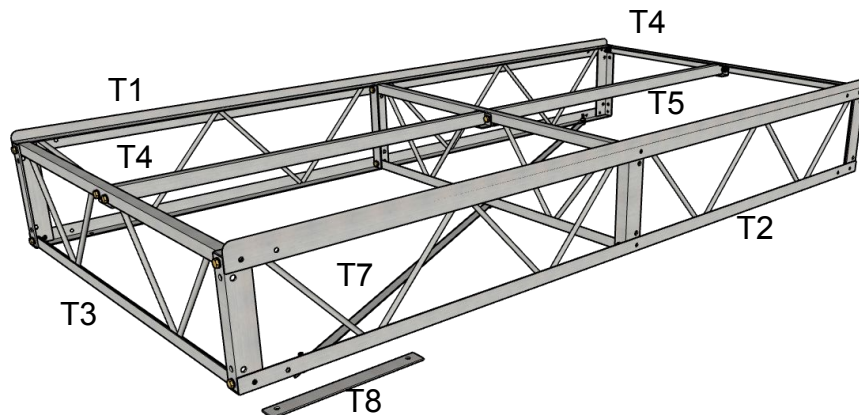


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Jack Docks

Frame Assembly Steps

TRUSS FRAME KIT COMPONENTS				QTY
T1	10800-1	LEFT SIDE RAIL		1
T2	10800-2	RIGHT SIDE RAIL		1
T3	10803	END RAIL		2
T4	10800-4	CONNECTING RAIL		1
T5	10800-5	SHORT CENTER SUPPORT TUBE		1
T6	10800-6	LONG CENTER SUPPORT TUBE		1
T7	10800-7	DIAGONAL BRACE		1
T8	10802	TRUSS FRAME TRANSITION PLATE		1



Remember when assembling frames:

Shore to Lake Assembly: Start from the shore and built out towards the lake - Don't assemble individual frames first

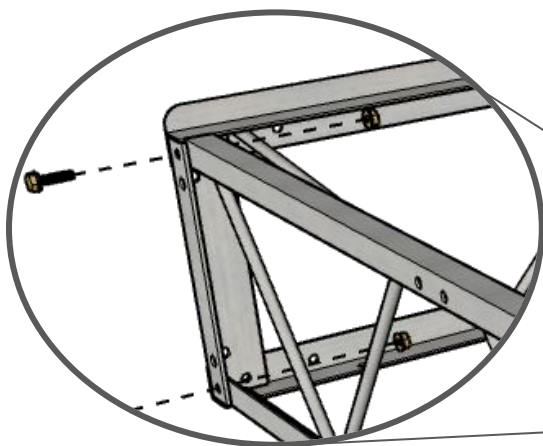
Start by hand tightening: Hand tighten all bolts and tighten with wrench or drill only after fitting the frame together

Drop-in Decking Panels: Decking panels drop in after frame is assembled and installed

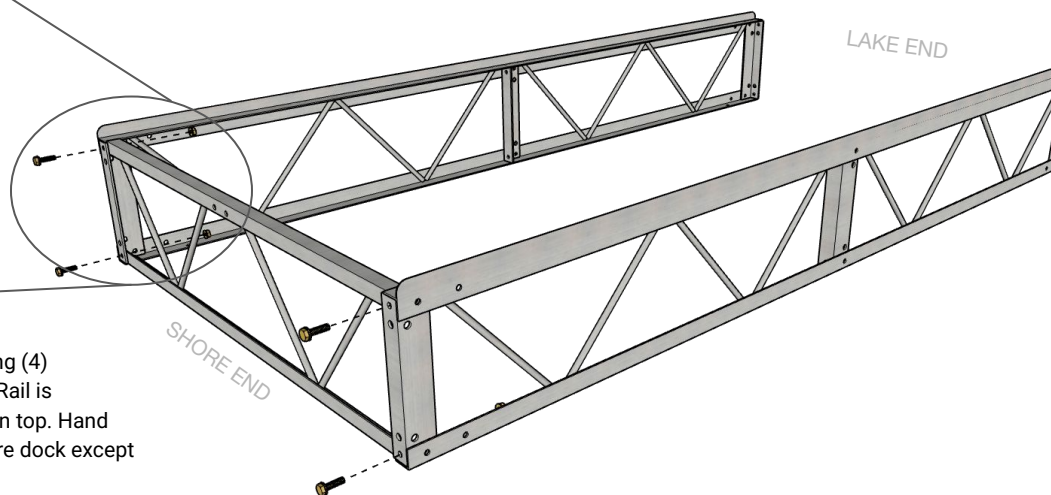
Long Bolts: The longer M10x38mm bolts are used to assemble the Connection Rail, leaving the rest of the bolts for all other connections.

On Land Assembly: Assemble frames on land in the most level space available

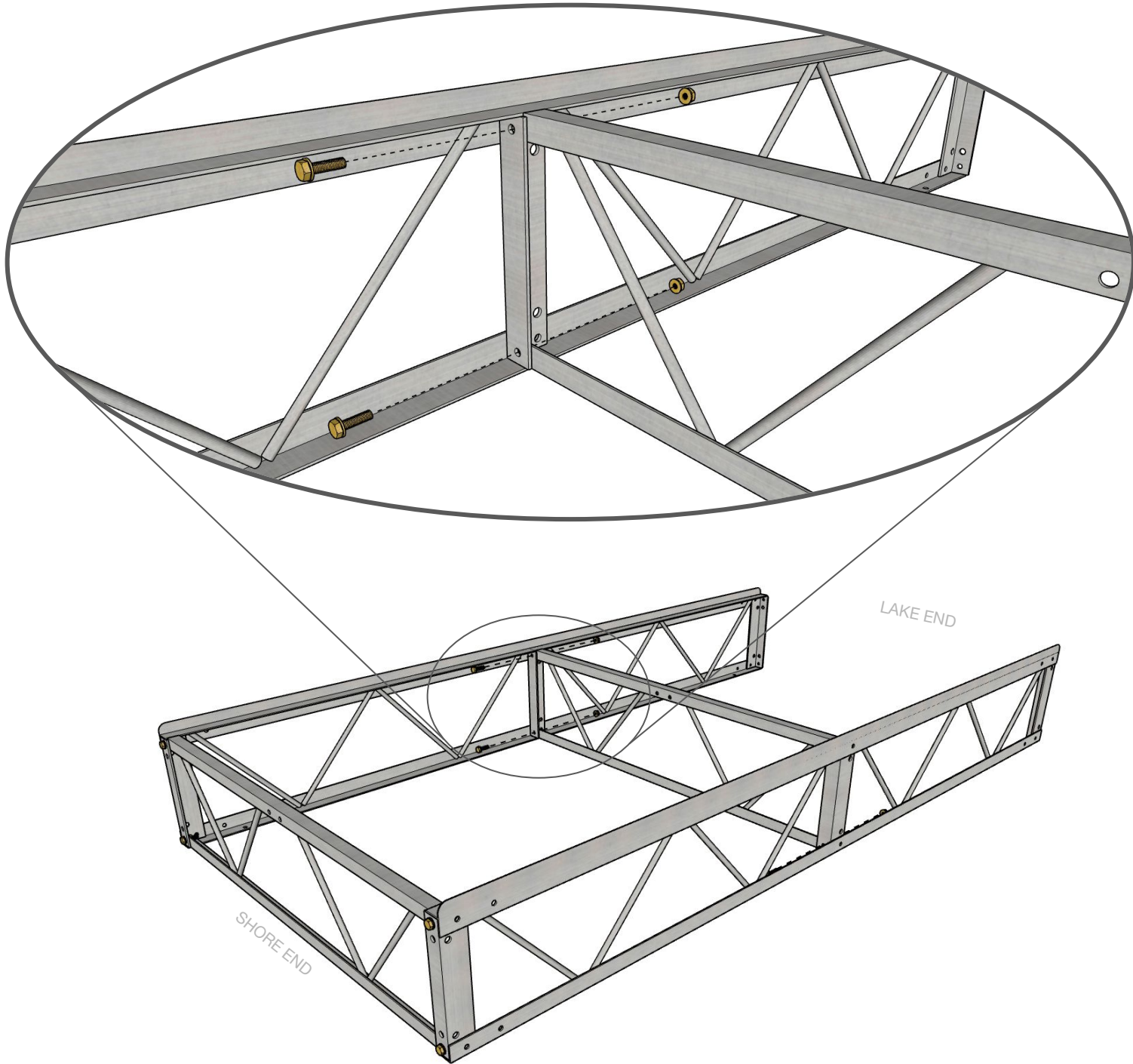
- 1 Lay out all frame packages (T) in the position where they will be located for your particular dock design. Open packages. Position Left Side Rail (T1) on the left side with the lip pointing up, and the Right Side Rail (T2) on the right side for each frame section. The example below is a layout for a 24ft Patio Dock.



- 2 Bolt Side Rails (T1 & T2) to Shore End Rail (T3) using (4) M10x30mm bolts and serrated nuts (T9). The End Rail is positioned inside the Side Rails with center holes on top. Hand tighten. The M10x30mm bolts are used on the entire dock except Step 5 to add the Connecting Rail.



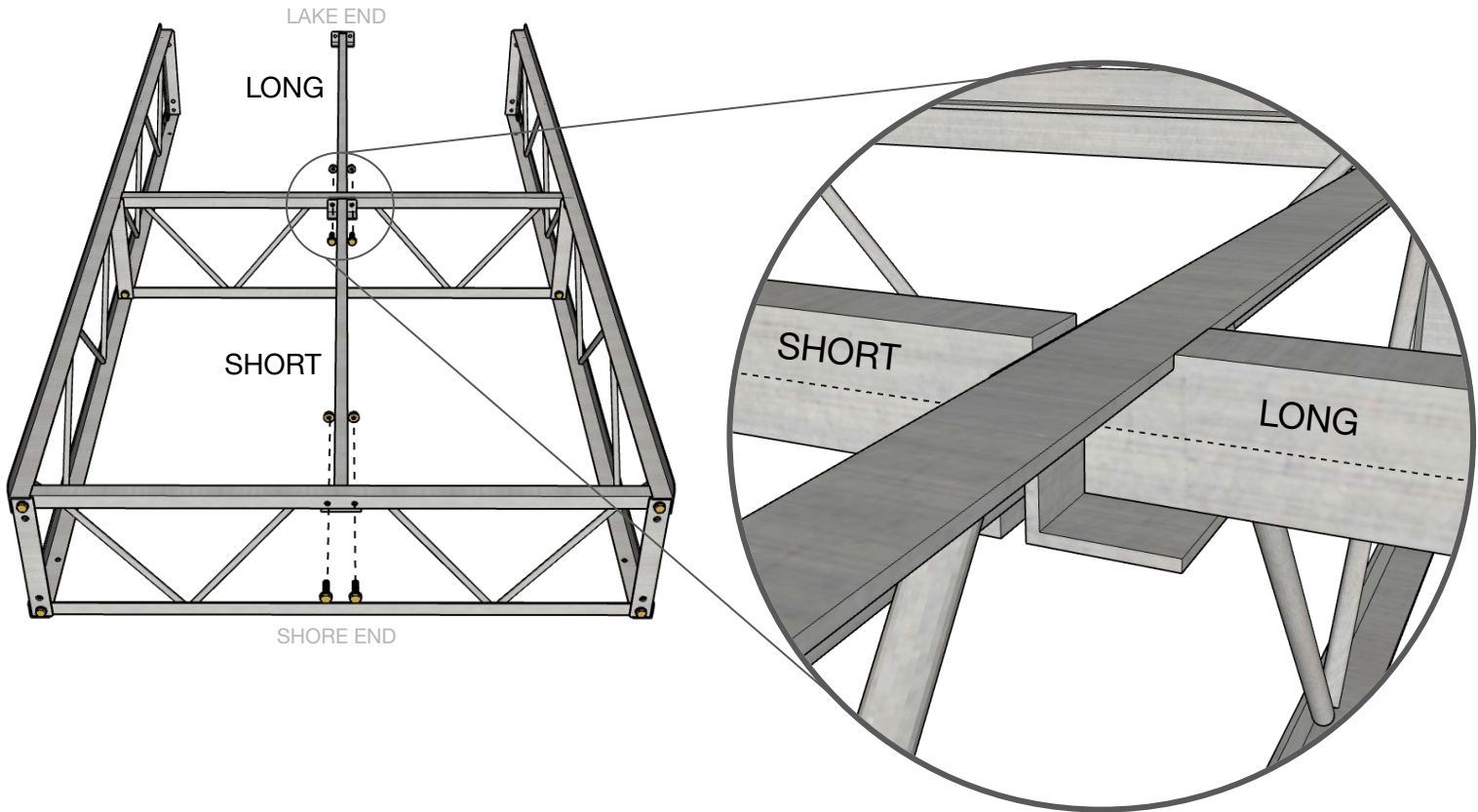
- 3 Bolt Middle End Rail (T3) to Side Rails with (4) M10x30mm bolts (T9). End rail fits inside Side Rail Angles. Hand tighten.



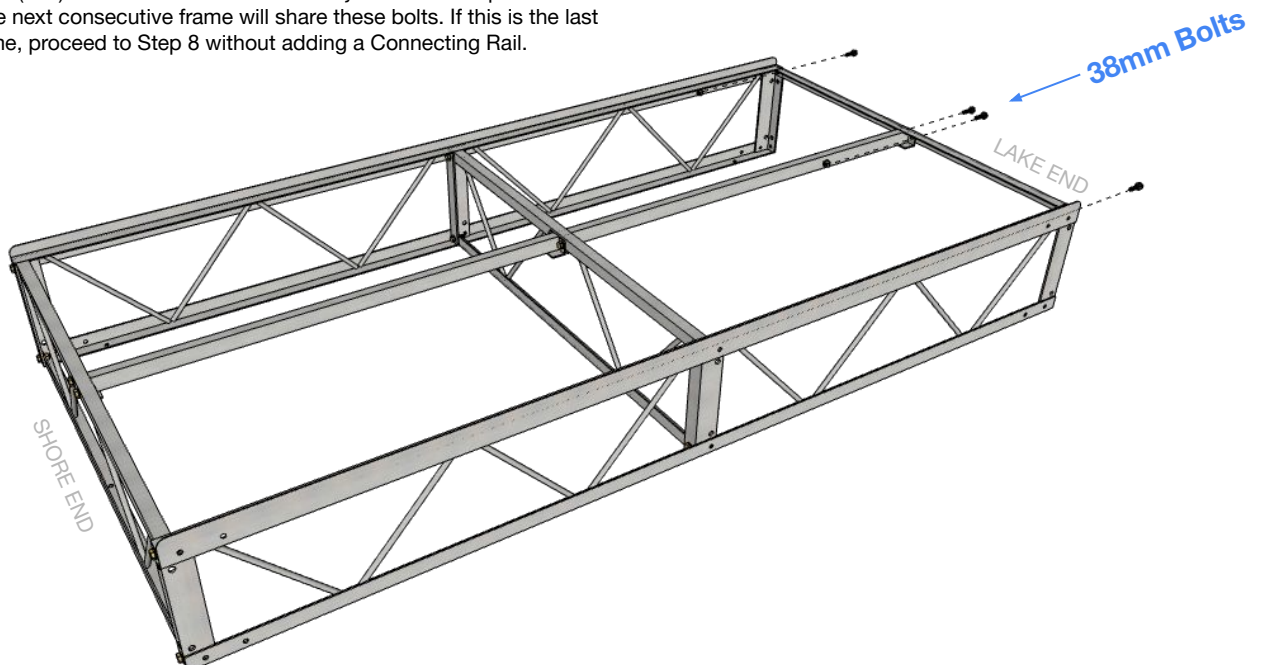
Jack Docks

Assembly Steps

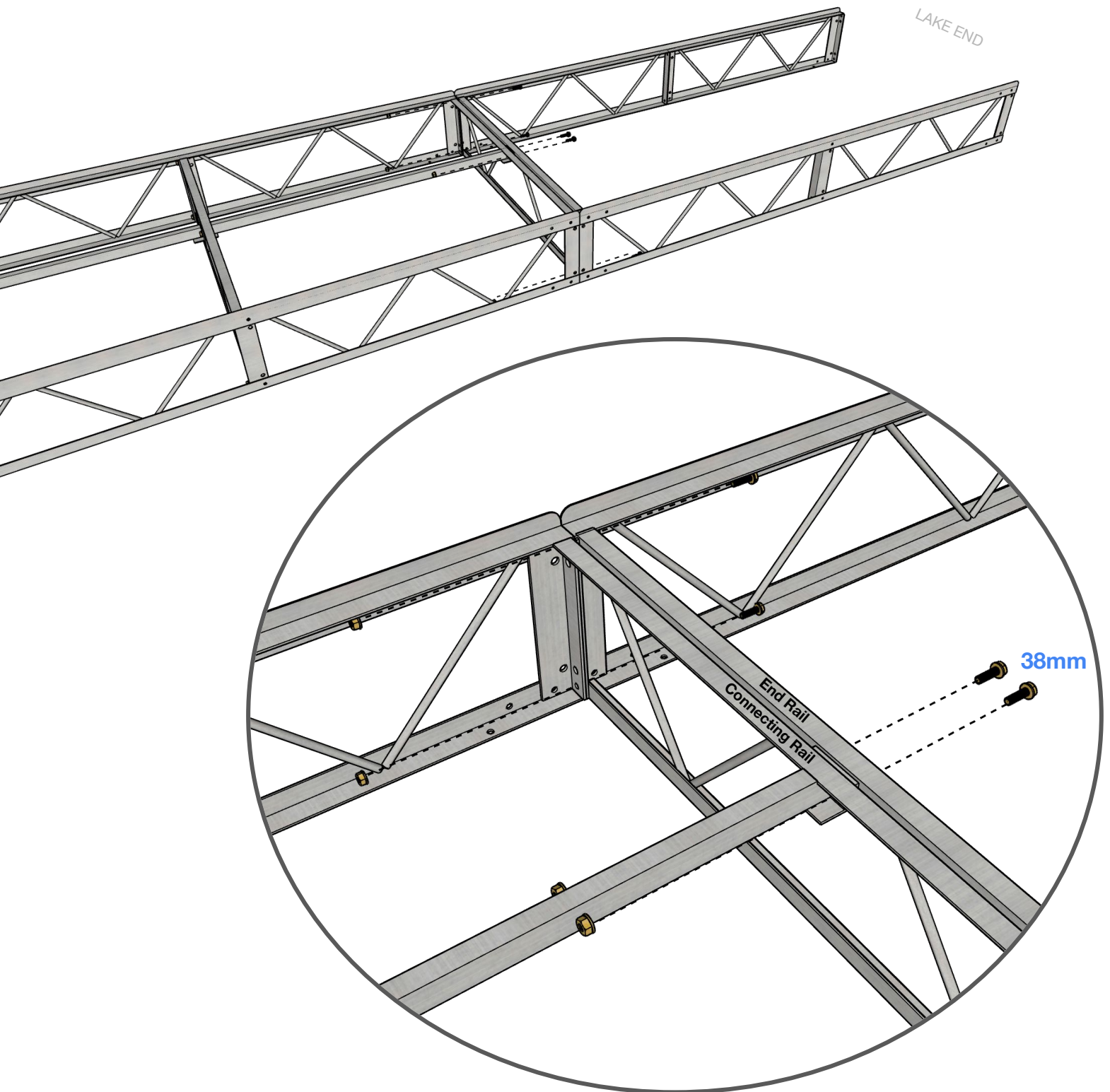
- 4 Bolt Short and Long Center Support Tubes (T5&T6) to End Rails (T3) with M10x30mm bolts (T9). The Short Center Support Tube (T5) has one notch facing up, and the Long Center Support Tube (T6) has two. Hand tighten bolts.



- 5 If you are continuing to build another consecutive frame to the dock length, add Connecting Rail (T4) to Side Rails (T1 & T2) and Long Center Support Tube (T6). Use **M10x38mm** bolts (T10) for the bolts in the center only. Wait until step 6 to secure the nuts because the next consecutive frame will share these bolts. If this is the last consecutive frame, proceed to Step 8 without adding a Connecting Rail.



- 6 Bolt the next frame's Side Rails (T1&T2) AND bolt previous Connecting Rail (T4) to the next frame's Shore End Rail (T3) using the bolts from step 5 and additional hardware. Do not assemble frames individually; rather join all frames together from the shore end to the lake end, then add patio side sections.



Jack Docks

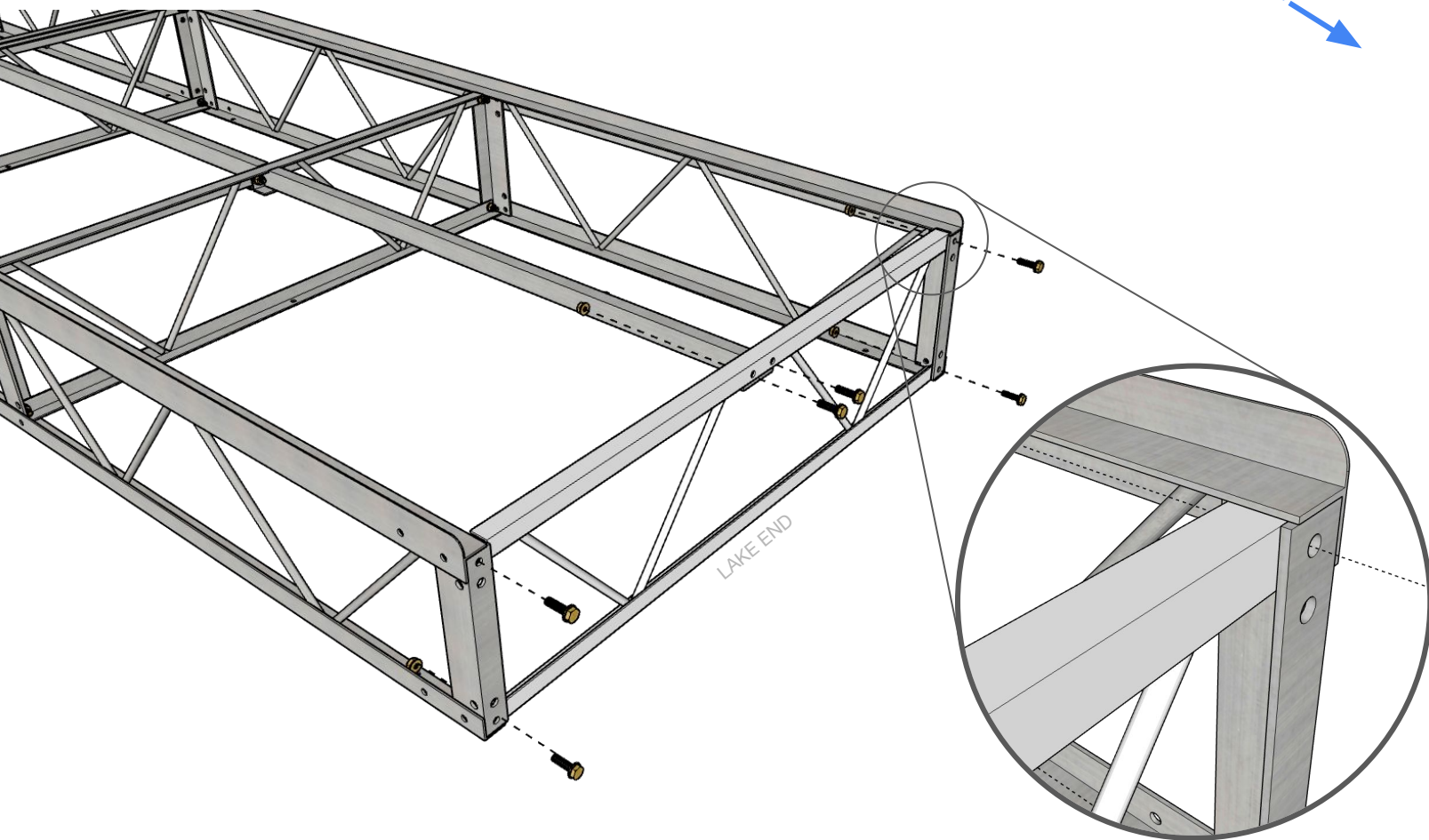
Assembly Steps

SHORE END

- 7 Continue to assemble the main length of dock until the desired length has been reached. On the last frame, the connecting rail is not added.

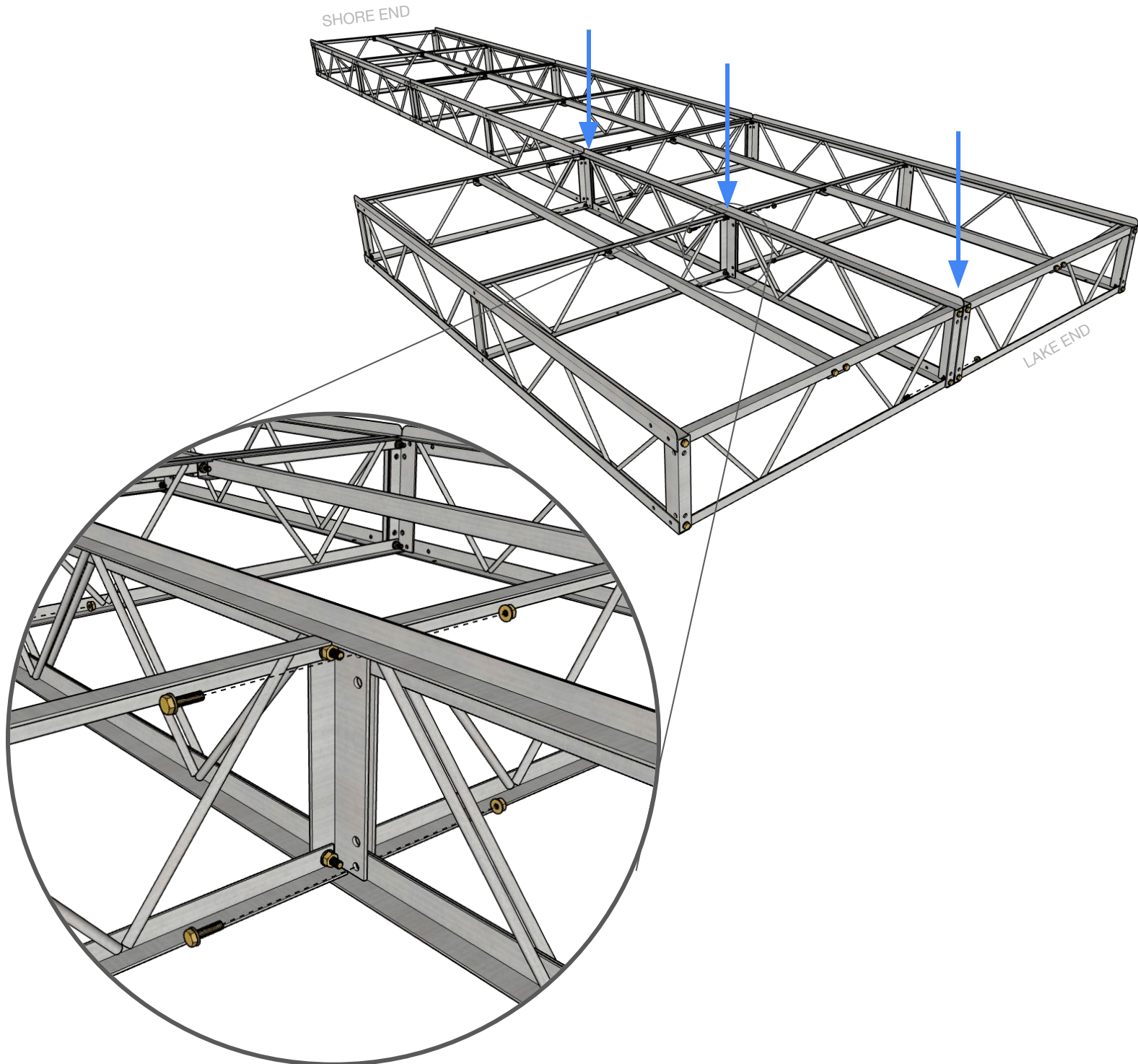
- 8 Bolt Lake End Rail (T3) (outside of all frame packaging) to the terminal end of your dock instead of a Connecting Rail (T4). There will be left over Connecting Rail(s), hardware, and other parts depending on your dock layout.

LAKE END

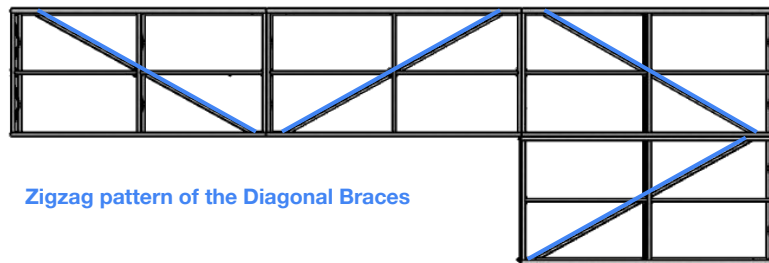


9 For Patio (side frame) sections, assemble one complete frame (Steps 1-5 and Step 8). Then bolt the completed Patio frame to the Side Rail of the terminal dock frame with (6) M10x30mm bolts (T9). Patio sections can be mounted to either side of the dock. Patio sections can join to the straight dock with the 4ft side if you drill (6) holes and support all corners properly.

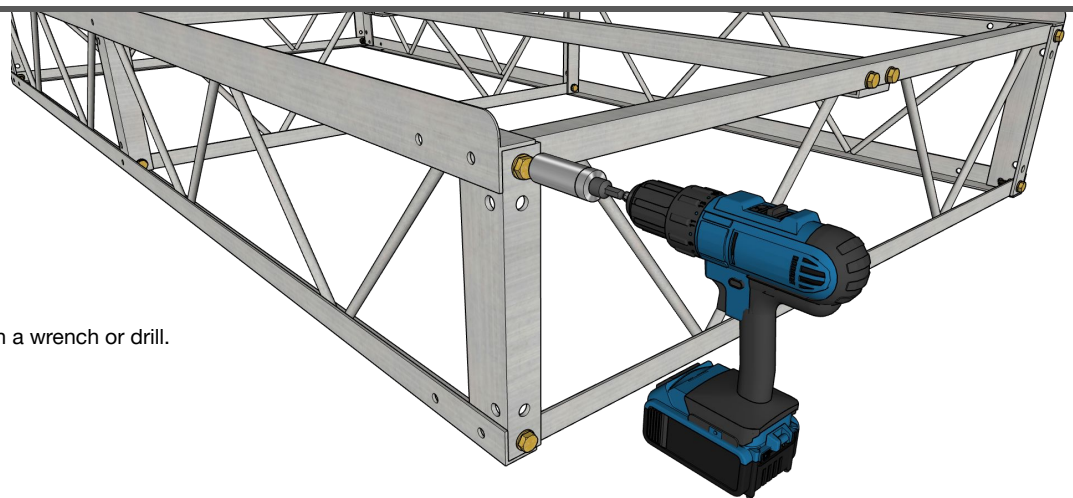
10 For T-shaped and custom dock designs, proceed to add frames as in Step 9, to the other side of the dock.



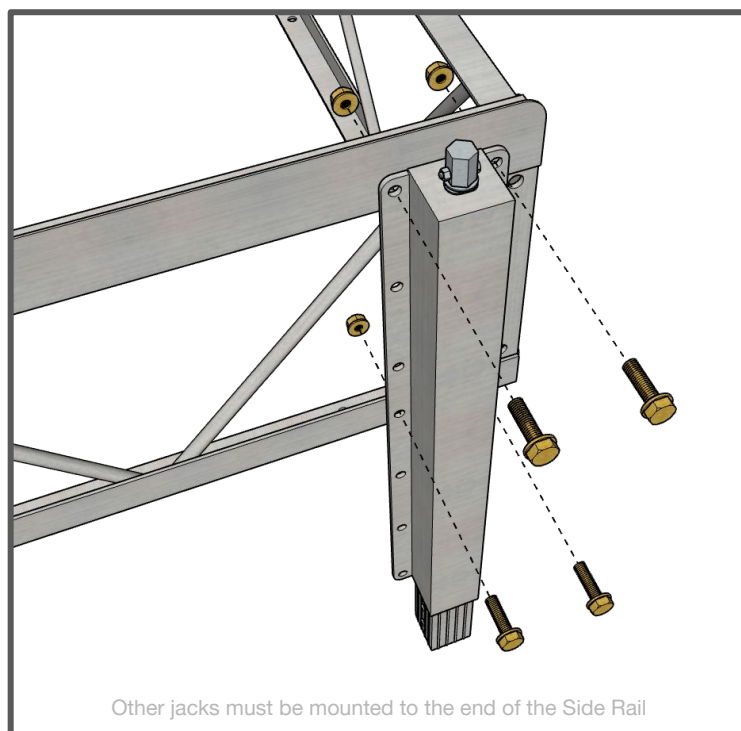
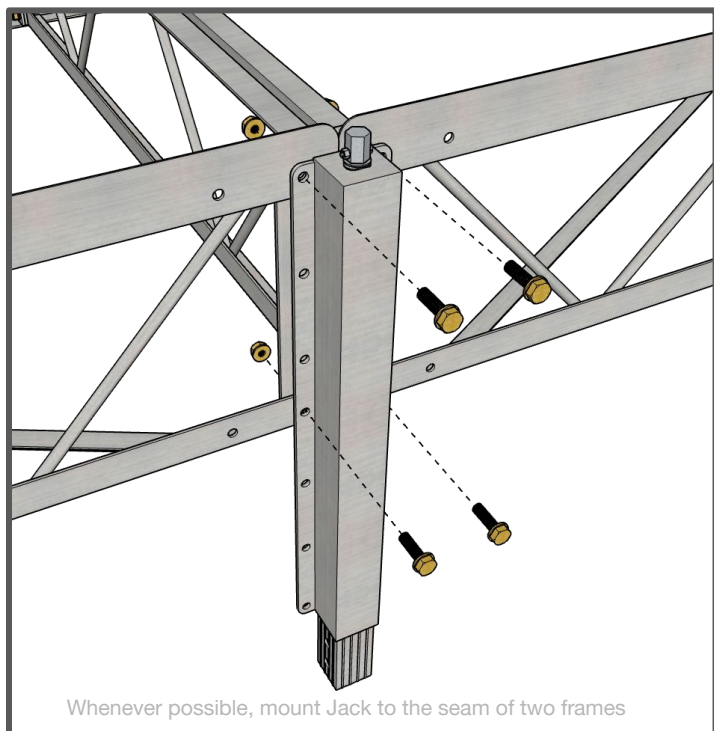
- 11** Add Transition Plates (T8) to all frame joints which will not have jack supports or patio sections and Diagonal Braces (T7) in a zigzag pattern under the entire dock design. Hand tighten.



- 12** Tighten all bolts with a wrench or drill.

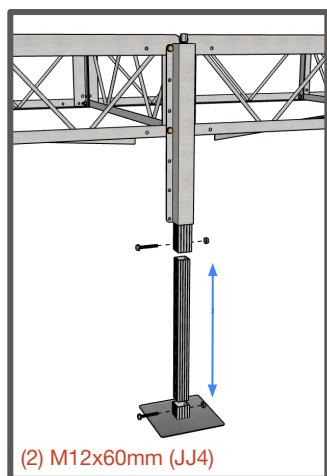


- 13** Add supports to the frame by bolting the Jack (J1/J2) to the outside of the Side Rail according to the dock layout using provided hardware. Supports are required every 16ft of linear dock. The shore end is assumed to rest directly on the shore without supports. All outside corners of Patio frames must be supported (see 16ft Rule). Jack supports are mounted to the frame with M10x35mm bolts (JJ2) and serrated nuts (JJ1).

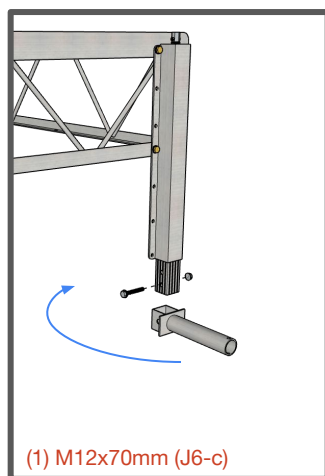


- 14** Bolt either a Drop Leg Kit (J3/J4) or a Jack Axle (J6) and Wheel (W) assembly to the bottom of your Jacks (J1/J2) with M12 Bolt(s). Note:
- Drop Legs require (2) M12x60mm bolts (JJ4), and the Axles require (1) M12x70mm bolt (J6-c).
 - The Drop Leg Tube may NOT be used with a Jack Axle without the Jack Axle Adapter (see next page)
 - Wheels can be oriented inside (typically for Patio configurations) or outside (typically with Straight configurations).
 - All drop legs can be manually adjusted for fine tuning the height of your jack support with many height settings.
 - Rolling Dock packages include a set of wheels at the end of each small dock (equal to and under 40ft). Larger Rolling Dock packages have a second set of wheels in order to roll out two sections easily. Docks can be further customized for unique requirements.

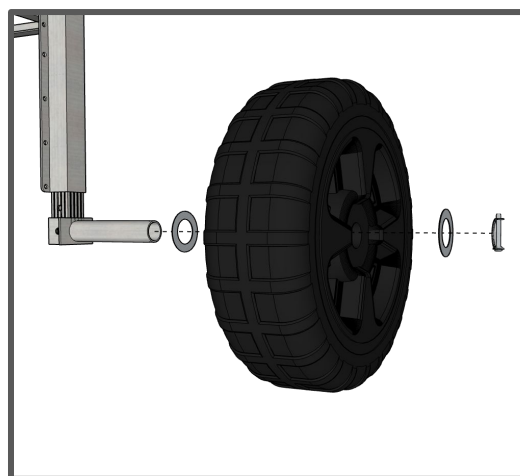
Drop Leg with height settings



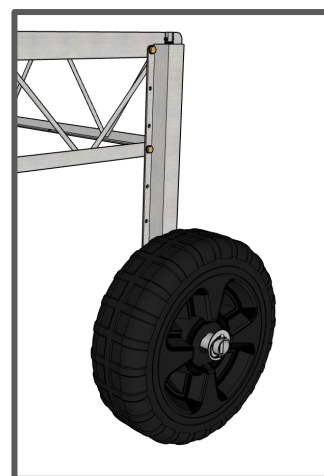
Axle orientation options



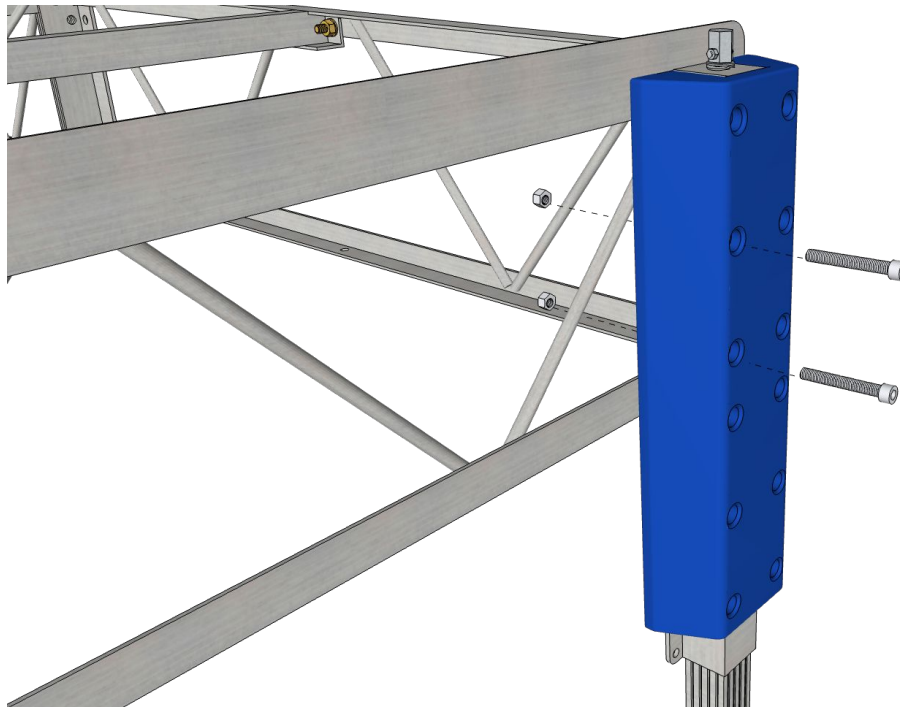
Wheel Washers, Wheel, and Pin



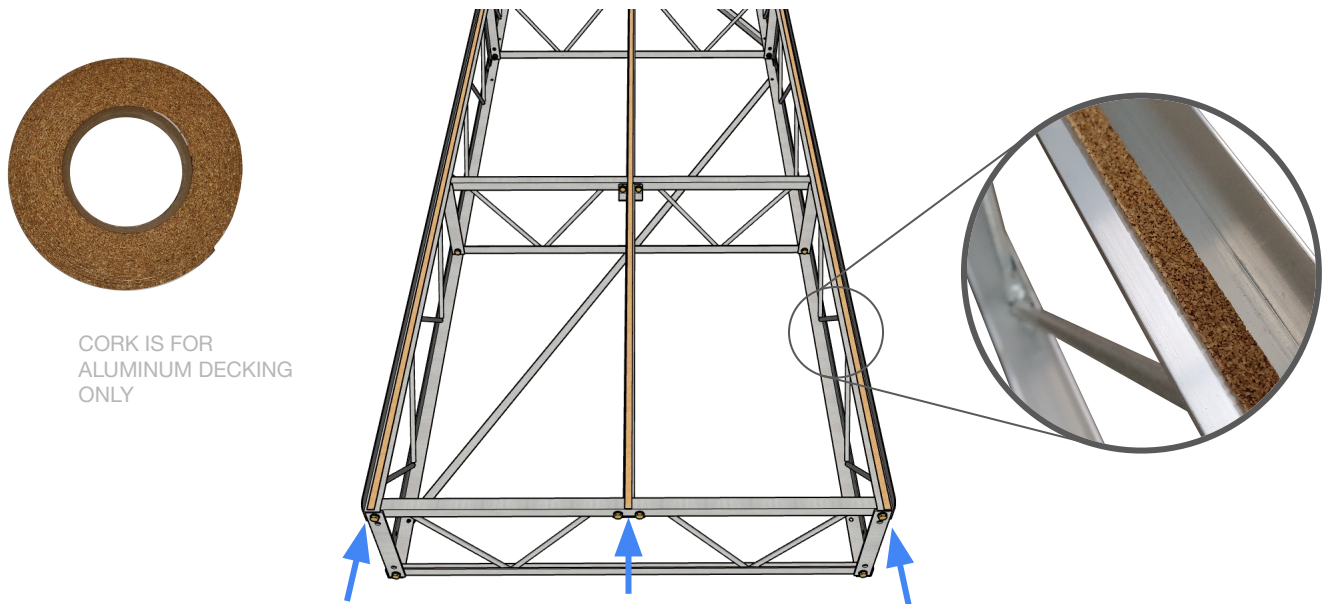
Wheel Assembly



- 15** Bolt the Bumpers (B) to your jack supports with the provided Vinyl Bolt (BB1) and Nut (BB2). Not every hole is available for mounting. Hand tighten only.



- 16** Your dock frame is now assembled. For docks with aluminum decking, adhere the Cork (I) to the top outside face and top middle tube of the frame. Remove the sticker back, and stick the cork to the surface, removing more sticker back as you unroll the material. Cut to length with scissors or a utility knife. Docks with cedar and poly decking do not require cork.



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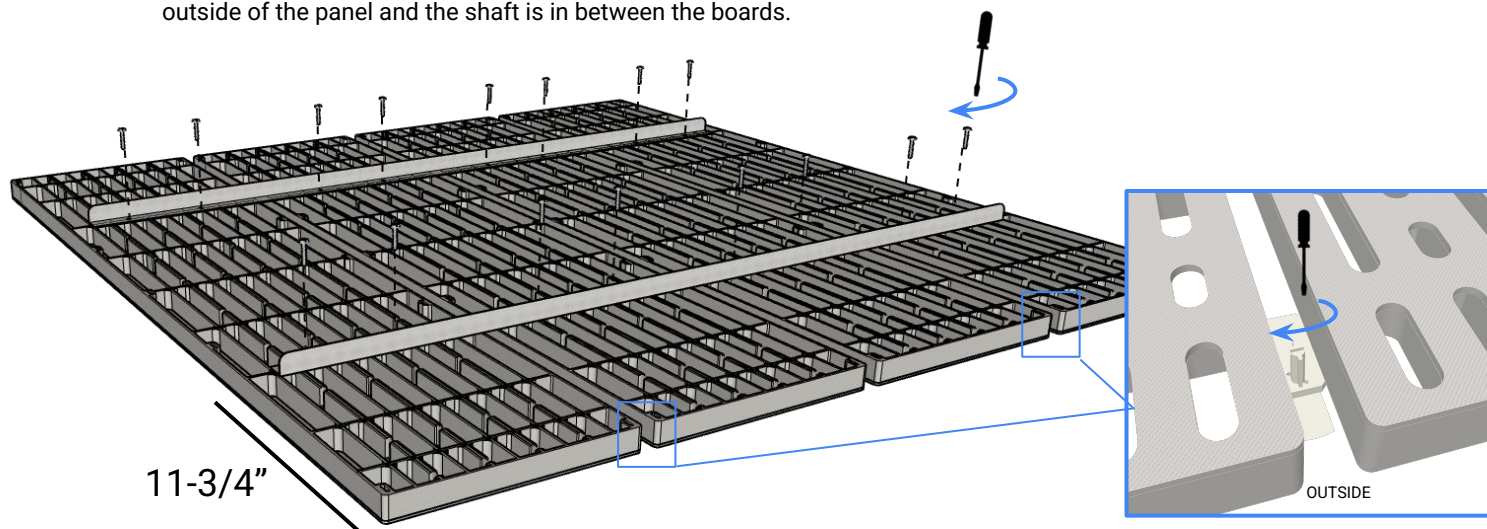
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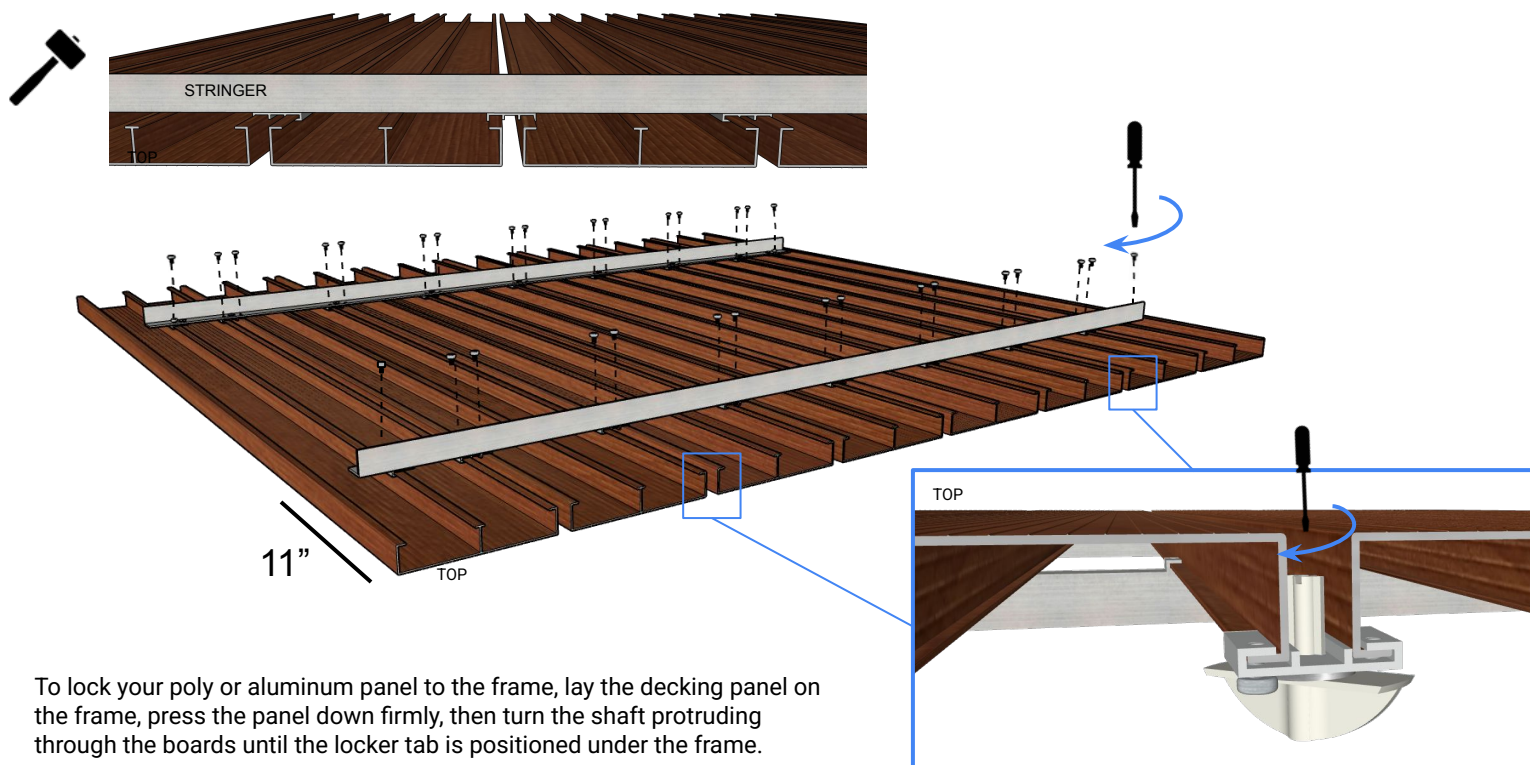
Assembly Steps

17 Assemble each 4x4 Decking Panel (A).

- **Cedar Panels** are pre-assembled. At this point, panels can be sealed with deck sealer for longest life.
- **Poly Panels** are assembled by screwing the stringer to the back of (4) boards. The stringer is screwed to the panels 11- $\frac{3}{4}$ " from the outside edge of the panels using (8) screws. Poly Deck Lockers (AA) can then be mounted to the board gaps near each of the 4 corners of the 4x4 panel. Use (2) screws provided in the deck locker package to screw the locker so the tab is facing the outside of the panel and the shaft is in between the boards.



- **Aluminum Panels** are assembled by screwing the stringer to the back of (8) boards. The stringer slides on the boards so that the stringer clips accept the bottom tongue of each board tightly. A rubber mallet may help to tap the stringer into place so that it is positioned about 11" from the outside edge of the panel. Once in position, the (16) set bolts in the stringer tighten down onto the panel. Do not overtighten or strip the bolt heads by tightening quickly. This is best done with a screwdriver by hand. Aluminum Deck Lockers (AA) can then be mounted to the board gaps near each of the 4 corners of the 4x4 panel. Tap the locker onto the panel and slide it 1-1/2" from the edge of the board. Use (1) screw provided in the deck locker package to screw the locker so the tab is facing the outside of the panel and the shaft is in between the boards.



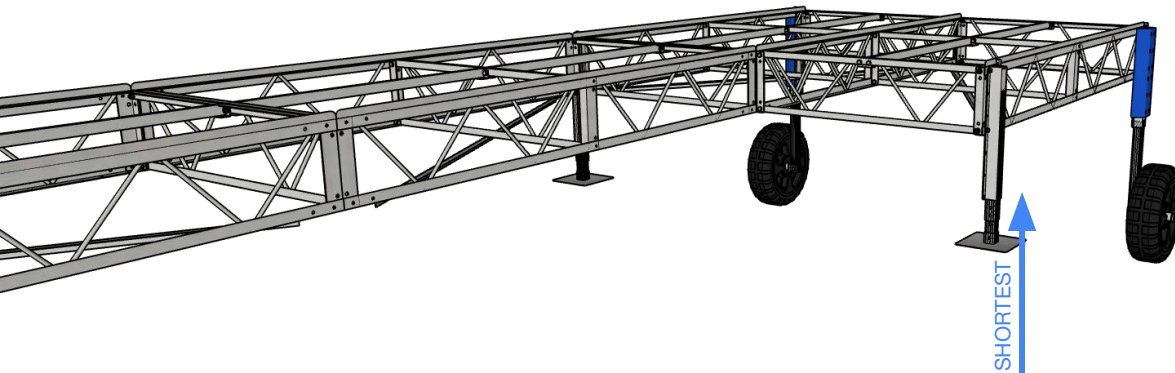
To lock your poly or aluminum panel to the frame, lay the decking panel on the frame, press the panel down firmly, then turn the shaft protruding through the boards until the locker tab is positioned under the frame.



Jack Docks

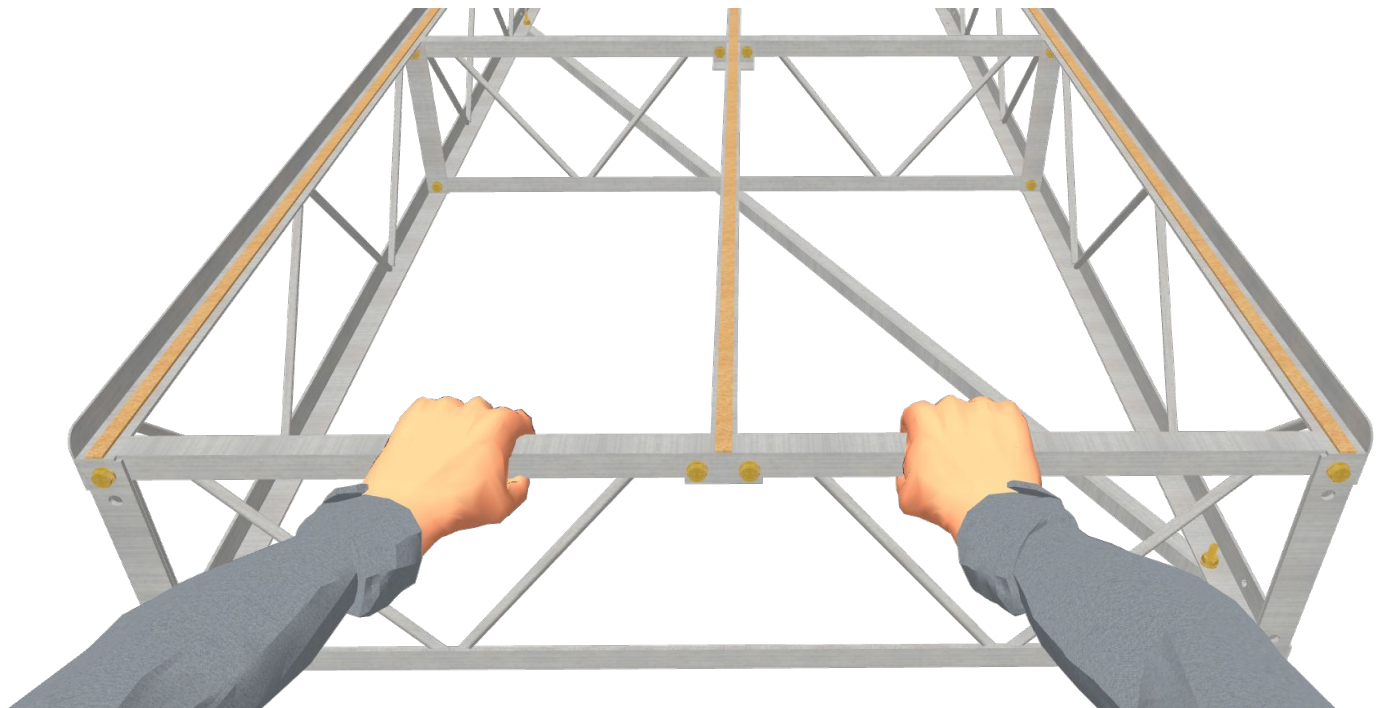
Dock Installation

- 1 Prior to adding decking, position your completed dock frame with supports right side up. Shorten the stationary jacks.



- 2 Rolling Docks can be installed in the water by lifting the shore end of the dock, and rolling the dock frame into place like a wheelbarrow. Stationary Docks can be installed in the water with two people but lifting the frame into position. Note:

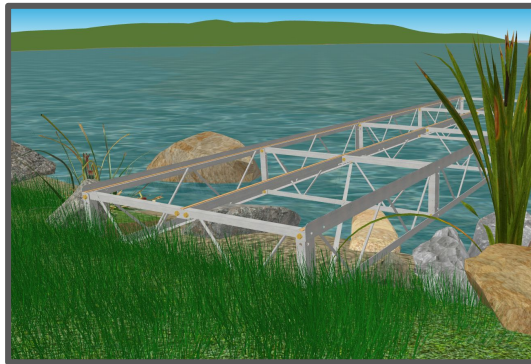
- Dock packages always limit the longest dock section length to 40 feet so that each section can be easily rolled or lifted in place. For docks that are longer than 40 feet, the shallowest section of dock is installed first, then the deepest section of dock is installed second.
- Multiple completed dock sections are joined together by bolting the deeper section to the shallower section, or using Quick Connects, if applicable.
- Warning: Do not use machinery or winches to install your dock as damages are not covered under warranty!



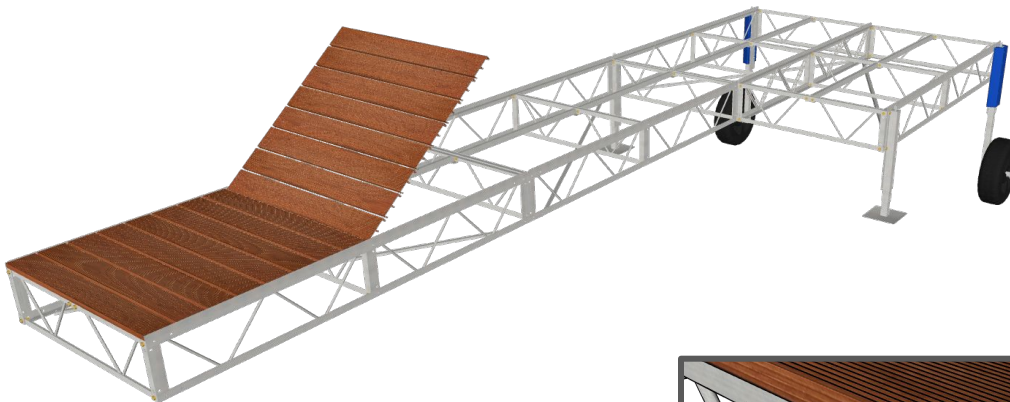
Jack Docks

Dock Installation

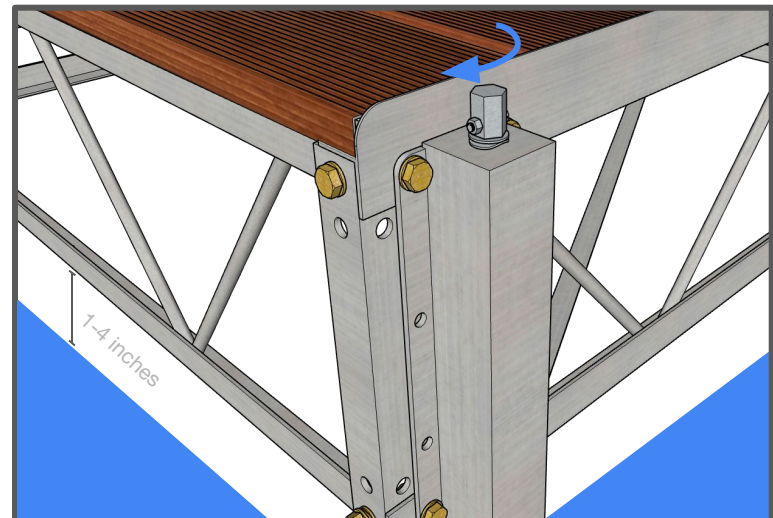
- 3 Situate the dock frame on the shore as desired for the easiest entry.



- 4 Add decking panels to your assembled and installed dock frame. Start with the shore end, lay a decking panel down into the nest in the frame, between the outer lips of the frame. Continue to lay down panels from the shore to the lake end until all panels cover the dock. If you have lockers can be turned to the lock position so the turn handle is positioned under the frame.



- 5 Level your Jack Dock so the frame is lowered to the optimal distance from the water. Generally, this is at the height where the frame is a couple of inches out of the water at the peak of a wave. It is not a problem if the water touches the frame or sits in the water.



- 6 Your dock is now assembled, installed, and ready for use! Adjust the height of the legs as needed by turning the hex head on the jacks with a socket wrench or cordless driver. The dock does not need to be removed to make adjustments. Add decals to the frame and Jack.



Maintenance:

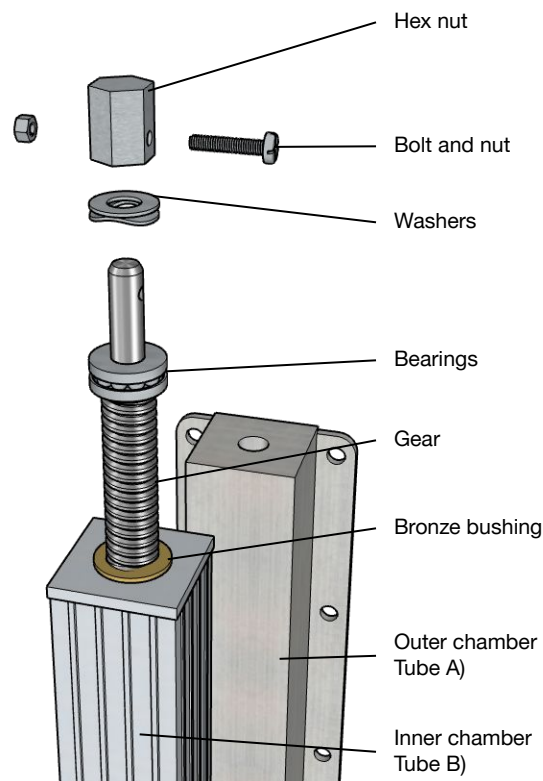
For best results, jacks should be regreased annually. Original jacks are pre-greased. To grease the gear, follow the instructions below.

1. Remove the bolt, top hex nut, and washers from the jack assembly.
2. Remove the Outer Chamber (Tube A).
3. Replace hex nut and bolt in order to unscrew the entire worm gear.
4. Clean and regrease with 5% molybdenum general purpose grease. Apply evenly on the gear and thrust bearing on top of the gear.
5. Return worm gear, Tube A, hex nut and washer to original position.


Troubleshooting:


For troubleshooting jacks that bind, add additional washers under the hex nut if the connection is not tight between the hex and the jack. This can solve the many issues with binding jacks, but if the issue persists, check the bronze bushing connection and threading by completing the above steps 1-2, then:


1. Remove the Bearings, and screw the Gear down into the Inner Chamber until it comes out of the bottom.
2. Remove bronze bushing with channel locks, and inspect for debris, shards of metal, or stripped thread. Contact customer service if the bronze bushing is damaged.
3. Clean with a wire brush.
4. Add Red Loctite on the outside thread of the bushing and screw it back in the jack.
5. Return Gear, Bearings, Tube A, hex nut and washer to original position and confirm functionality.





 **Winterization:** Jack Docks are designed to be removed in all bodies of water that freeze. Freezing water can heave and ruin the whole dock.


 **Frame height over water:** The general recommendation is to keep the bottom of the frame a couple of inches above the highest expected water mark. It is recommended to remove the dock when flooding is expected.

 **By-hand installation:** Jack Docks are designed to be installed in the water by hand. Decking panels are removable to drop the weight in half for this reason. Use of machinery and winches can damage your dock, and all damages associated with installations that are not done by hand voids the warranty.

 **Currents and tides:** Jack Docks dock packages can handle some moving water and fluctuating water with proper anchoring (not provided with any dock package). Augered dock posts should be twisted into the ground at least 12 inches. Salt water will increase the rate of corrosion. Not all applications for rivers and tidal waters are appropriate for Jack Docks standard models.

 **Max weight capacity:** The maximum weight capacity for your dock can be calculated by multiplying the number of 4x8 frames by 1000 lbs.

 **Extra parts:** It is expected that you have some extra hardware and parts, particularly the connecting rails. This is intentional.

 **Severe Storms:** In the event of an expected severe storm, it is recommended that the dock be removed from the water or at least the decking removed and stored safely inside and away from extreme winds.



Jack Docks

Suggested Products



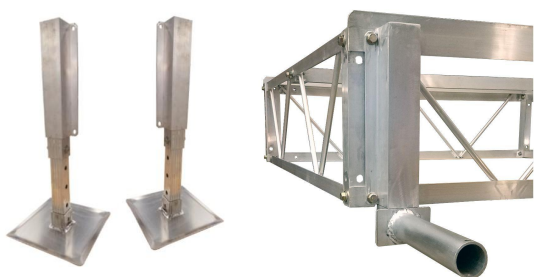
Quick Connect Kit (10808)

Hook your frame sections together instead of bolting them. These Quick Connects make joining longer pieces of dock together faster and easier. One kit requires End Rails on both sides of the connection.



Dock Ramp Kit (10340-10353)

Add a shore ramp to your dock to make the entry point an easier step or slope. The Ramp Kit comes in 4ft or 8ft lengths with all the decking options. Ramps slope up or down.



Shoreline Supports (10873k) and Rolling Shoreline Supports (10874k)

Add supports to your shoreline to prop up your dock in the event that you cannot rest the frame on the shore. Stationary Supports feature a simple adjustable leg system. Rolling Shoreline Supports offer a rolling support for very shallow water. No vertical adjustment is required for this kit.



Kayak Rack (10931)



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Jack Docks

Suggested Products

**Dock Jack Kits
(10840k,10819k)**

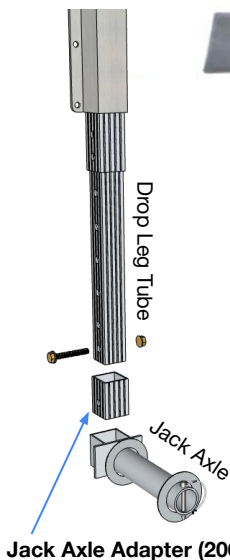
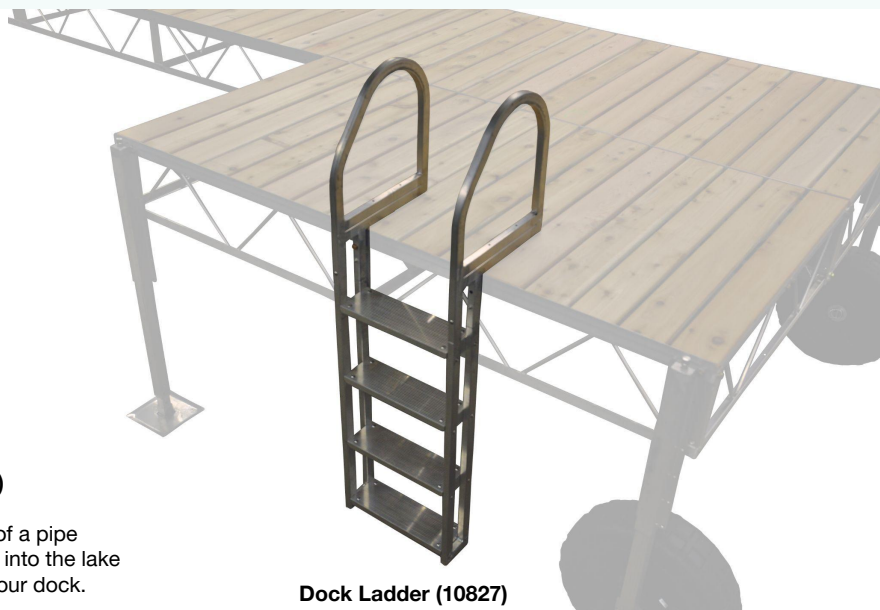


Pipe Auger (10806)

Mount to the base of a pipe support and twist it into the lake bottom to anchor your dock.



Dock Ladder (10827)



Jack Axle Adapter (20603)

To lengthen a rolling jack, a Jack Axle Adapter can be used between the Drop Leg Tube, and the Jack Axle.

Dock Bench (10619)



Dock Stairs (10922-10926)

Stair Kits allow you to safely enter the water with no-slip treads and safety handrails. Comes in 2, 3, 4, 5, and 6 Steps.



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