

# Owner's Manual Fendock Frame Docks

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(info PN02066)

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Questions or Comments?

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## GENERAL INFO

Being one of the first aluminum dock manufacturers, Fendock has been continually developing and manufacturing lightweight portable aluminum docks since 1955. Our fully engineered products now utilize a wide range of manufacturing technologies, including computer aided manufacturing and robotics providing the highest quality and component fit.

***With new technology, innovative ideas & customer feedback, Fendock continues to research, design and manufacture products to complement and/or make improvements to our product lineup. Fendock reserves the right to change products & specifications without notice.***

## IMPORTANT SAFETY INFORMATION

- Read all instructions
- If purchasing more than one dock, open only the components for one dock assembly at a time
- Wood decking must be made to specifications, using 2" x 6" nominal lumber
- Aluminum docks must be removed from the water for the winter
- Decking must be removed before moving the aluminum frame in or out of the water (and for winter storage).
- Aluminum docks are meant to be moved by hand, not with the aid of motorized vehicles.
- If the legs and base plates are stuck in mud, the suction must be released from each leg before pulling dock out of the water.
- Frame Docks can accommodate water depths up to 4' with standard 5' legs
- Additional "Deep Water Stabilizer" is recommended for water depths over 3'.
- Attaching a boat to an aluminum dock changes the dynamics of the dock. Aluminum docks are not meant for permanent mooring of boats. **Damage may occur if care is not exercised with heavy boats and/or rough water.** In such case, boats should be anchored away from the dock. Talk to your dock expert on how to protect your investments.
- Before installing your dock in the spring, a yearly inspection of your dock is recommended. Checking that all parts are without damage and fully tightened is good practice.

## FRAME DOCKS

Fendock "Frame Docks" can accommodate water depths of up to 4' (the standard recommended leg that comes with the "Frame Dock" is 5'). Water depths up to 6.5' can be accommodated with an optional 8' leg (PN29009); in this case Telescopic Deep Water Braces will be mandatory.

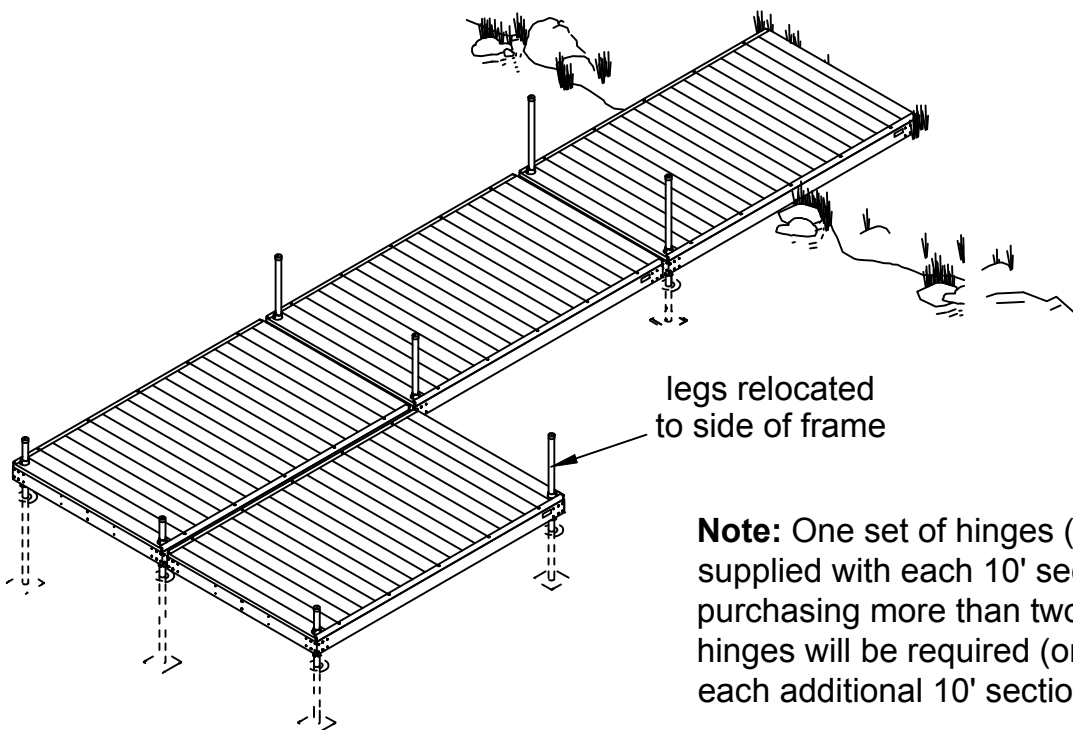
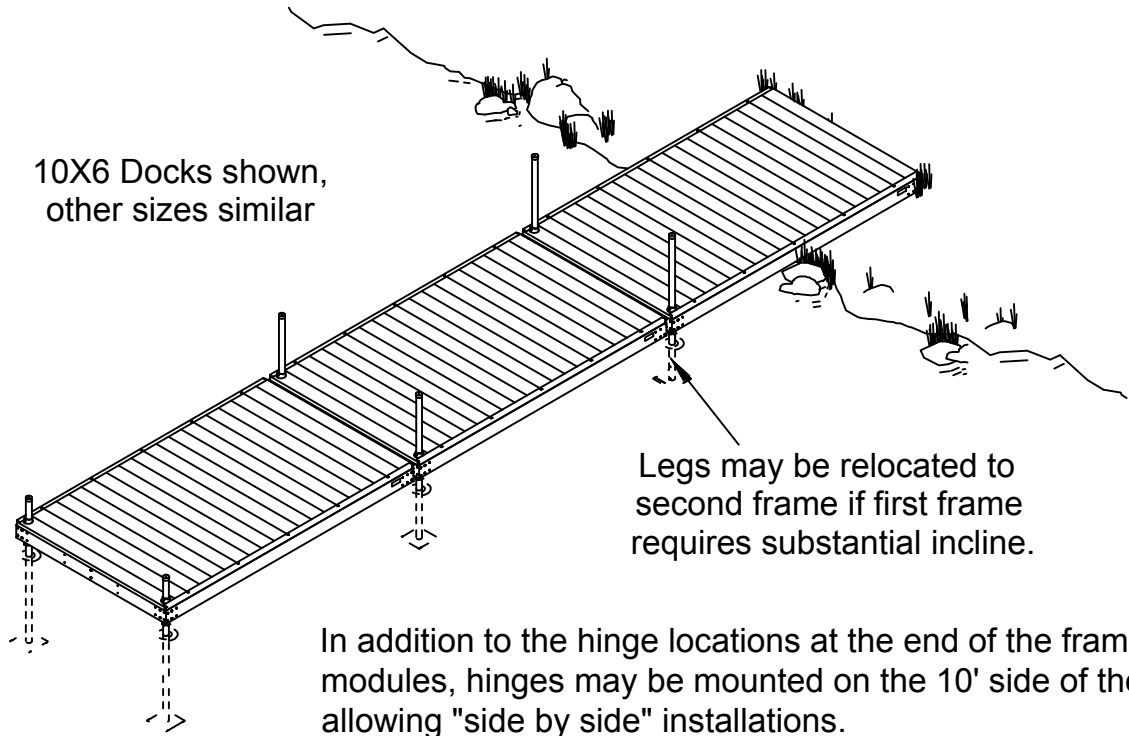
Every 10' length of Frame Dock, comes with 2-5' legs, as one section will support the next. If only purchasing one section, extra 5' single leg assemblies (PN98106) will be required.

Extra hinges will be required if more than 2-10' sections of dock are required, see note in Frame Dock Configurations.

## Frame Dock Configurations

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Available in 4', 6', 8' and 10' widths, the frame dock system is supplied in ten foot long frame modules. Once assembled, the 10' modules may be hinged together "end to end" to any length in multiples of ten feet.

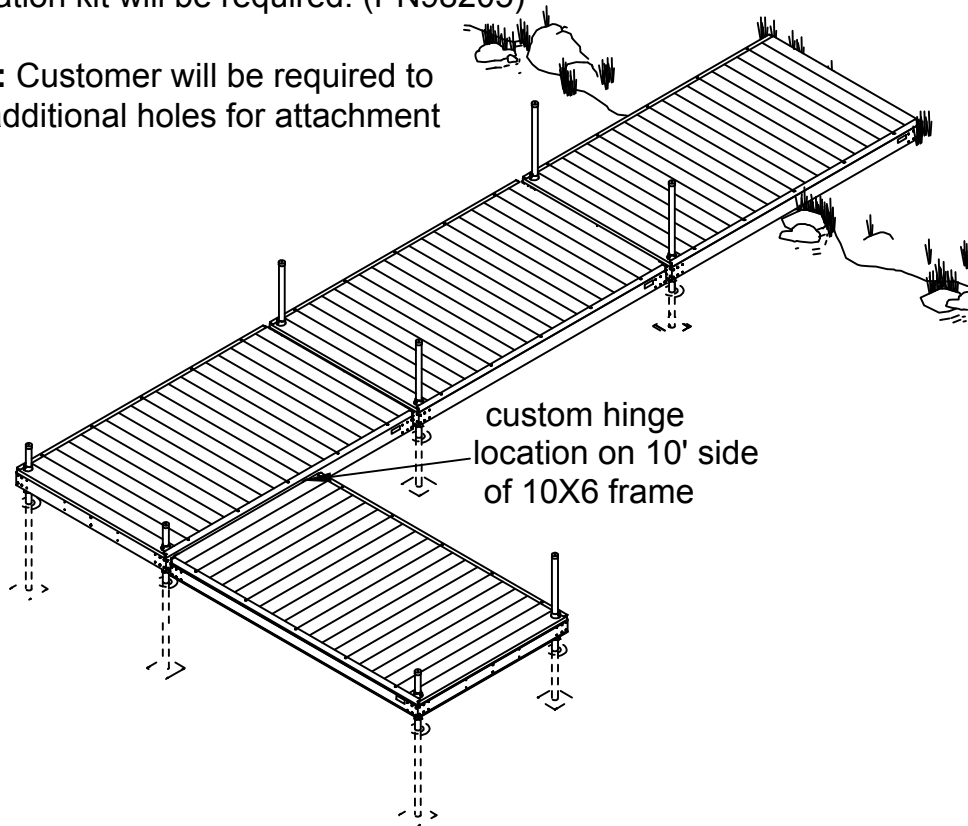


# 1.0 Frame Dock Component Chart

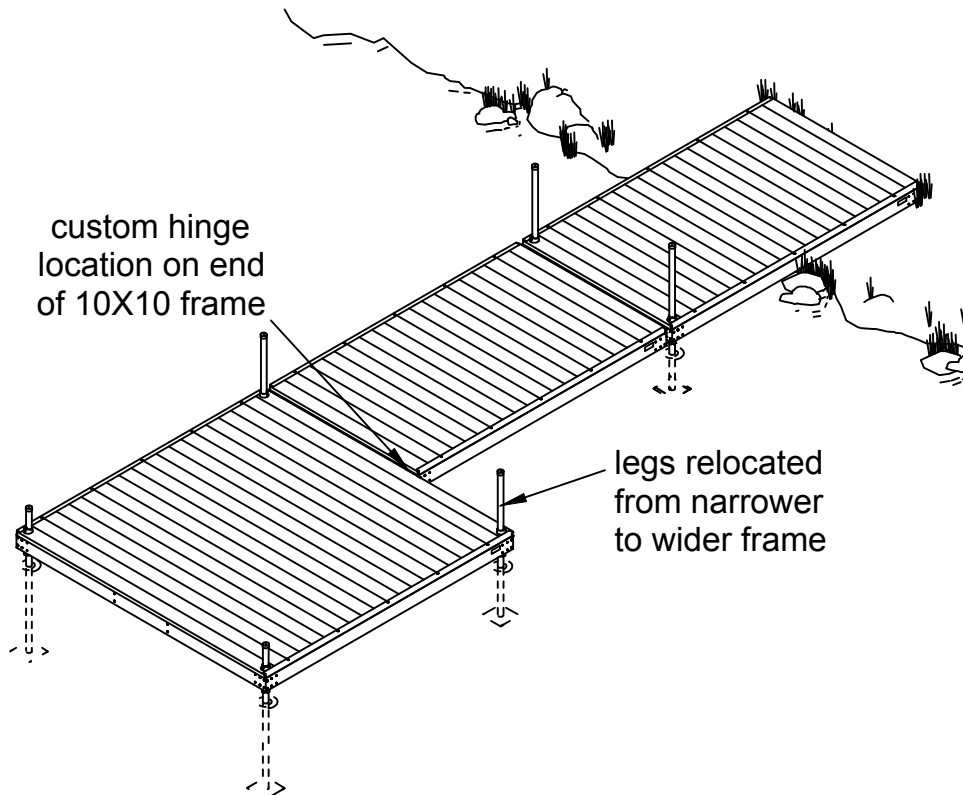
(LxW) Size	Requires	Description	Part No.
10X4 (PN99270)	=1X	KIT, OUTER STRINGER PAIR, 10'	PN97310
	+1X	KIT, END RAIL PAIR, FR DOCK, 4'	PN97354
	+1X	FRAME DOCK LEG KIT, 5', PAIR	PN97359
10X6 (PN99271)	=1X	KIT, OUTER STRINGER PAIR, 10'	PN97310
	+1X	STRINGER, INNER, 10'	PN38051
	+1X	KIT, END RAIL PAIR, FR DOCK, 6'	PN97356
	+1X	FRAME DOCK LEG KIT, 5', PAIR	PN97359
10X8 (PN99272)	=1X	KIT, OUTER STRINGER PAIR, 10'	PN97310
	+2X	STRINGER, INNER, 10'	PN38051
	+1X	KIT, END RAIL PAIR, FR DOCK, 8'	PN97358
	+1X	FRAME DOCK LEG KIT, 5', PAIR	PN97359
10X10 (PN99273)	=1X	KIT, OUTER STRINGER PAIR, 10'	PN97310
	+3X	INNER STRINGER, 10'	PN38051
	+1X	KIT, END RAIL PAIR, FR DOCK, 10'	PN97357
	+1X	FRAME DOCK LEG KIT, 5', PAIR	PN97359

Custom hinge locations allow the connection of the frames at right angles. Whenever there is a custom hinge location a hinge relocation kit will be required. (PN98205)

**Note:** Customer will be required to drill additional holes for attachment



A hinge relocation kit (PN98205) will also allow docks of different widths to be connected together.



## 2.0 Getting Started

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### About the instructions...

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Reading all of the instructions that pertain to a particular step, before proceeding, and following the order of the steps will assure easy assembly.

### Tools and Tricks

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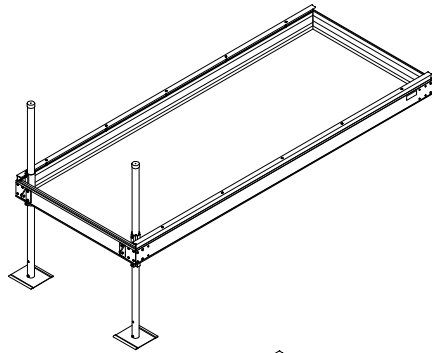
Keeping all of the nuts, bolts and other components that have been emptied from opened hardware kits in a suitable container may help to avoid losses during assembly. Some extra nuts and bolts may be found in the hardware kits, and are needed for other applications.

The only tools required for assembling the dock frames are  $\frac{1}{2}$ " &  $\frac{9}{16}$ " wrenches, a  $\frac{9}{16}$ " socket with ratchet handle, and a cordless electric drill or impact driver. A  $\frac{3}{16}$ " allen hex power bit is included with the supplied hardware.

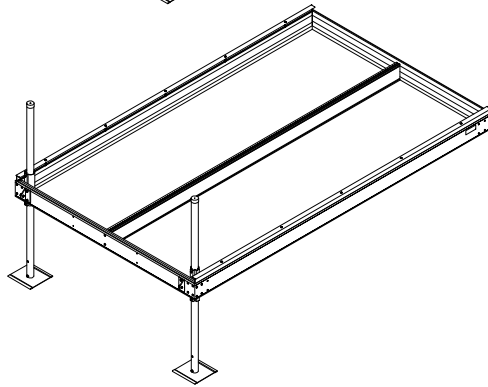
If purchasing more than one section, only unpackage one dock at a time, and assemble that dock before unpackaging and assembling the next dock.

## 2.1 General Arrangement

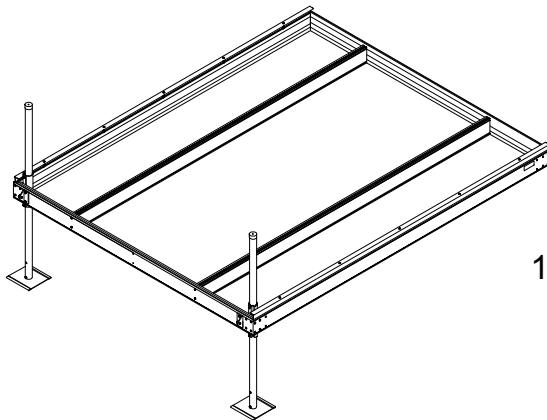
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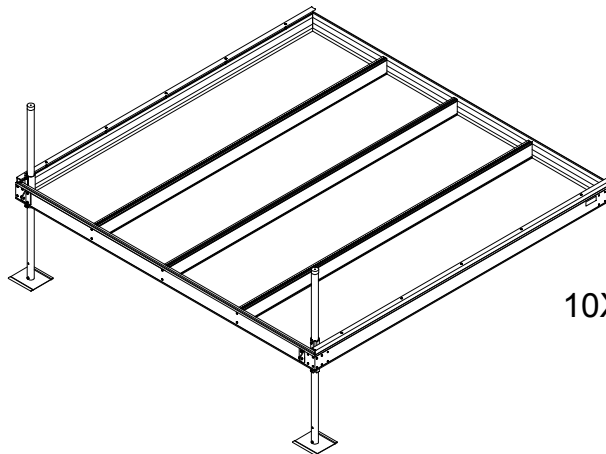
10X4 dock frame



10X6 dock frame



10X8 dock frame

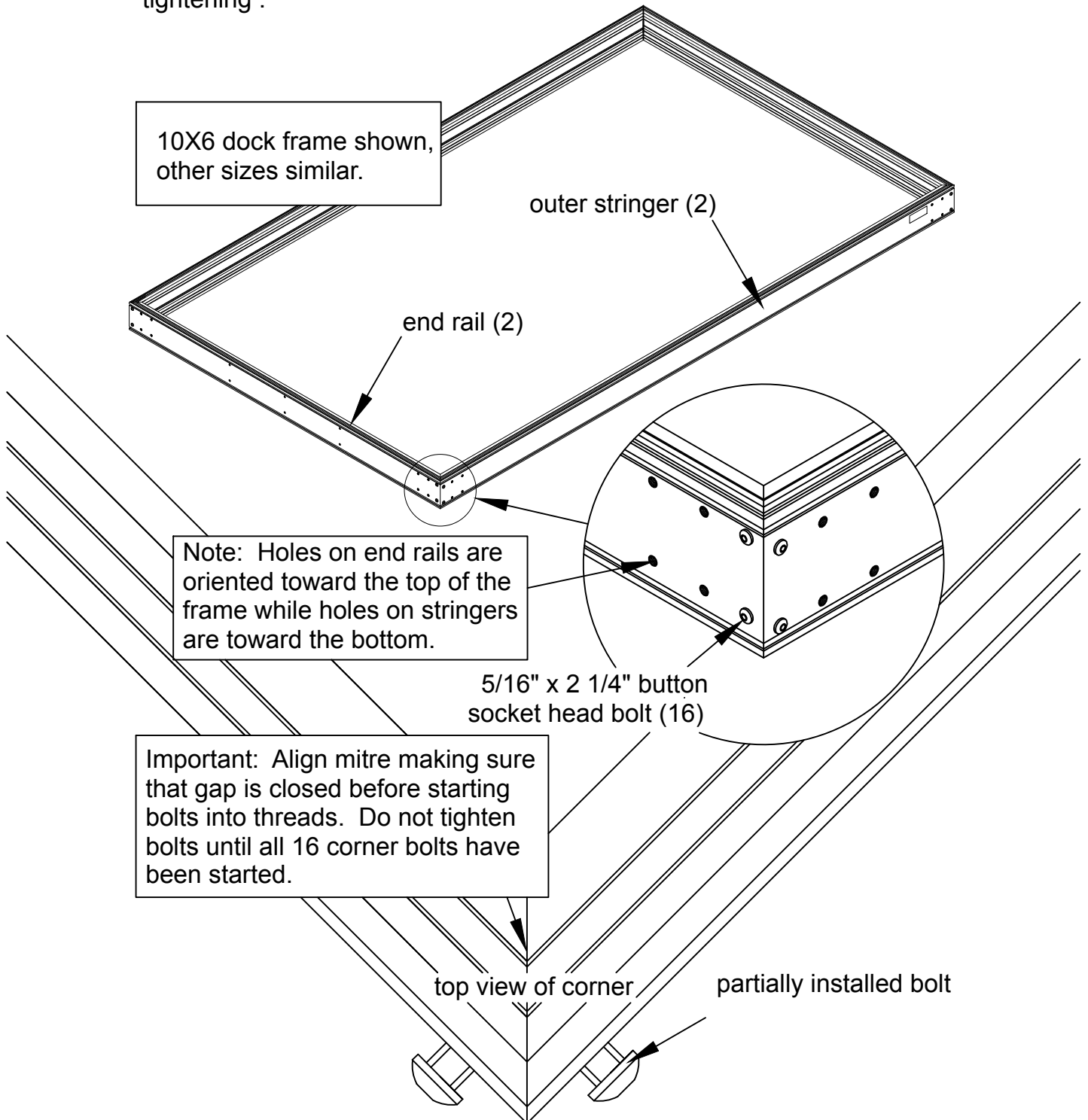


10X10 dock frame

# 3.0 Assemble Frame

## 3.1 Assemble Perimeter

Assemble perimeter of dock frame using sixteen  $\frac{5}{16}$ " x  $2 \frac{1}{4}$ " button head socket bolts (four bolts in each corner). Start all bolts into threads before tightening .



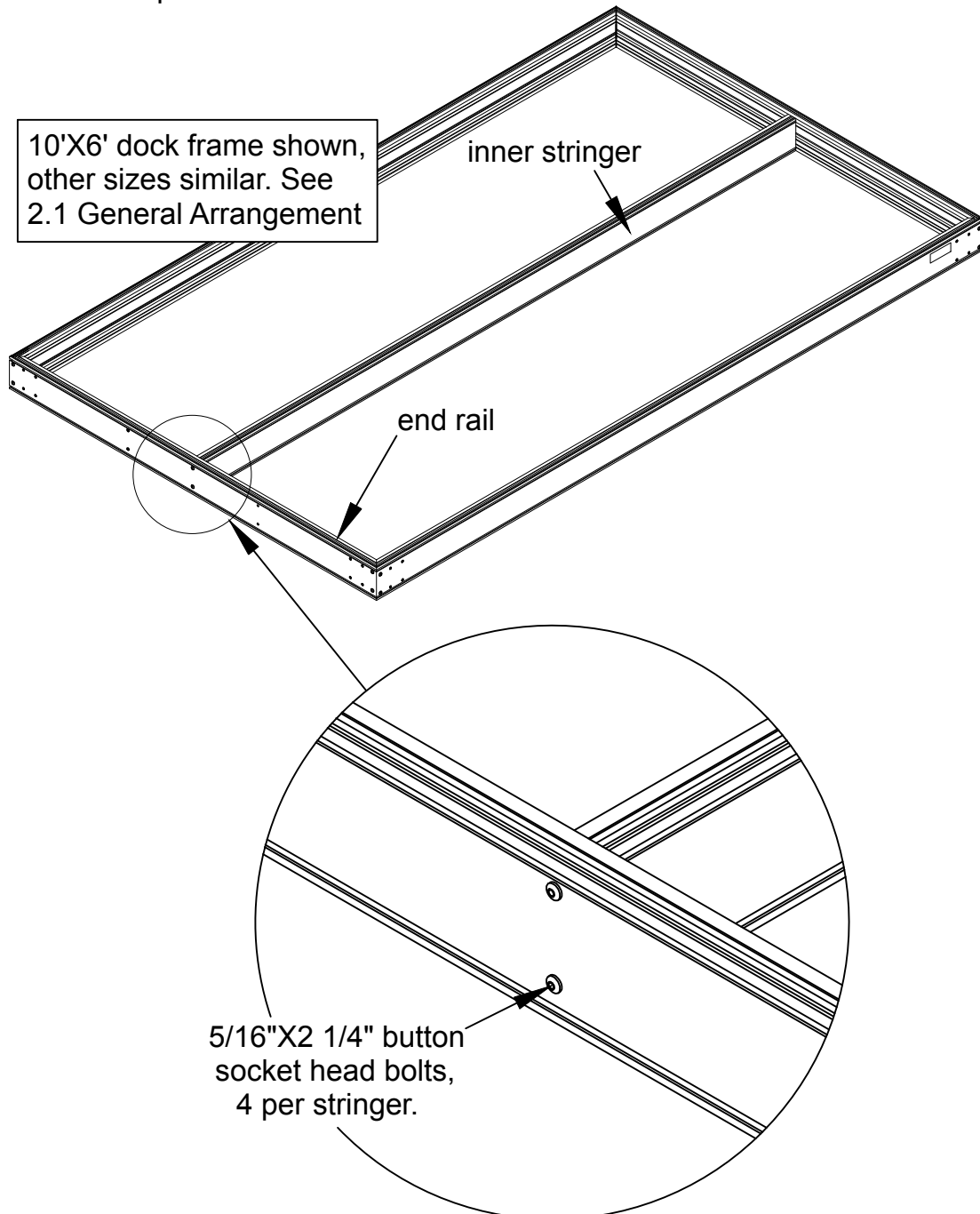


### 3.2 Install Inner Stringer(s)

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Note: 10' x 4' dock frames have no inner stringer, 10' x 6' frames have one inner stringer, 10' x 8' frames have two inner stringers, and 10' x 10' frames have three inner stringers. See 2.1 General Arrangement.

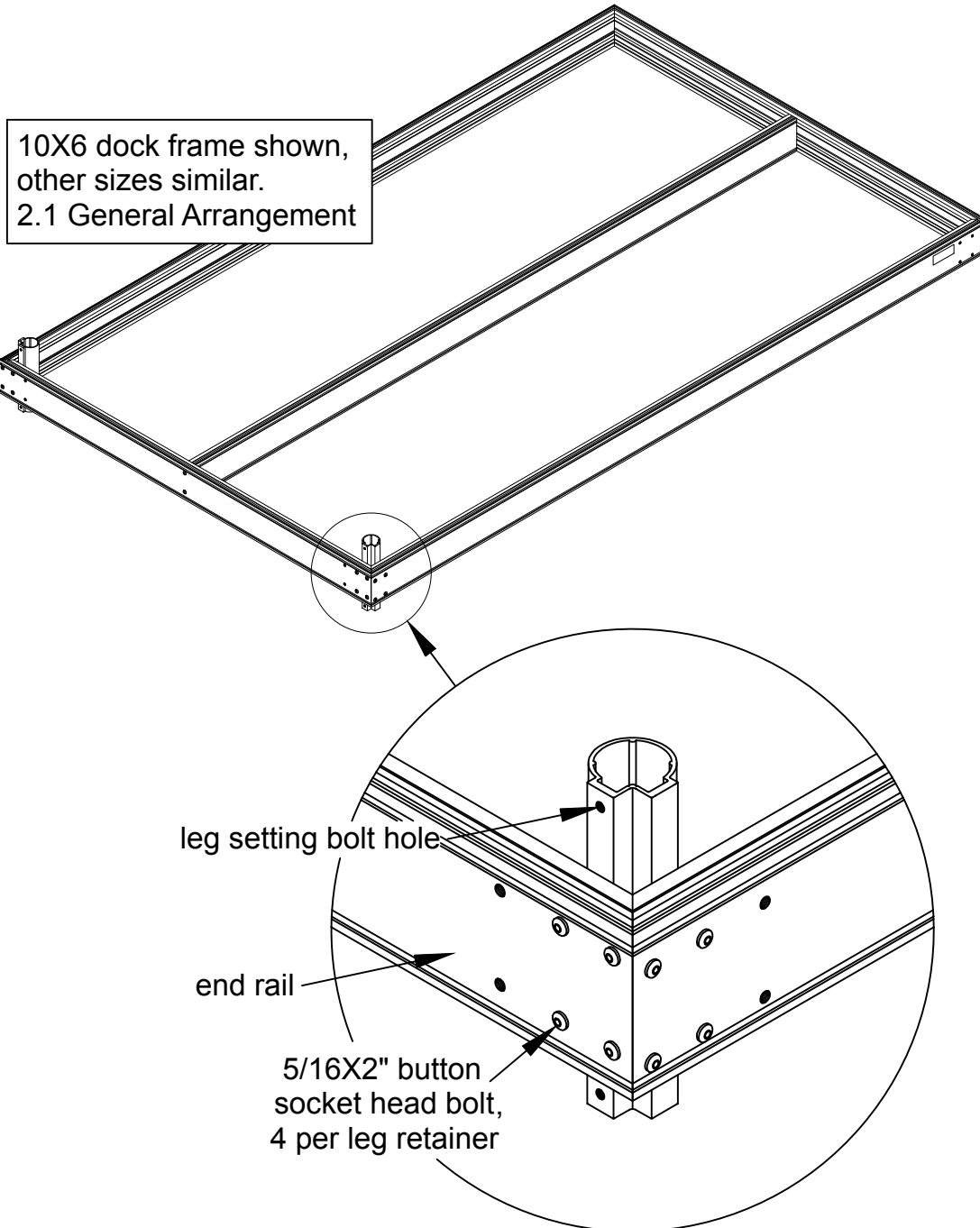
Install inner stringer(s) using four  $\frac{5}{16}$ " x  $2\frac{1}{4}$ " button socket head bolts, for each stringer. Orient the stringers so that the top of the stringers are flush with the top of the end rails when installed.



# 4.0 Mount Leg Retainers

Mount the leg retainers inside the corners of the lake end of the dock frame using four 5/16X2" button socket head bolts each. The top and bottom leg setting bolt holes must be oriented toward the end rail.

Install all four bolts (per leg retainer) before tightening.

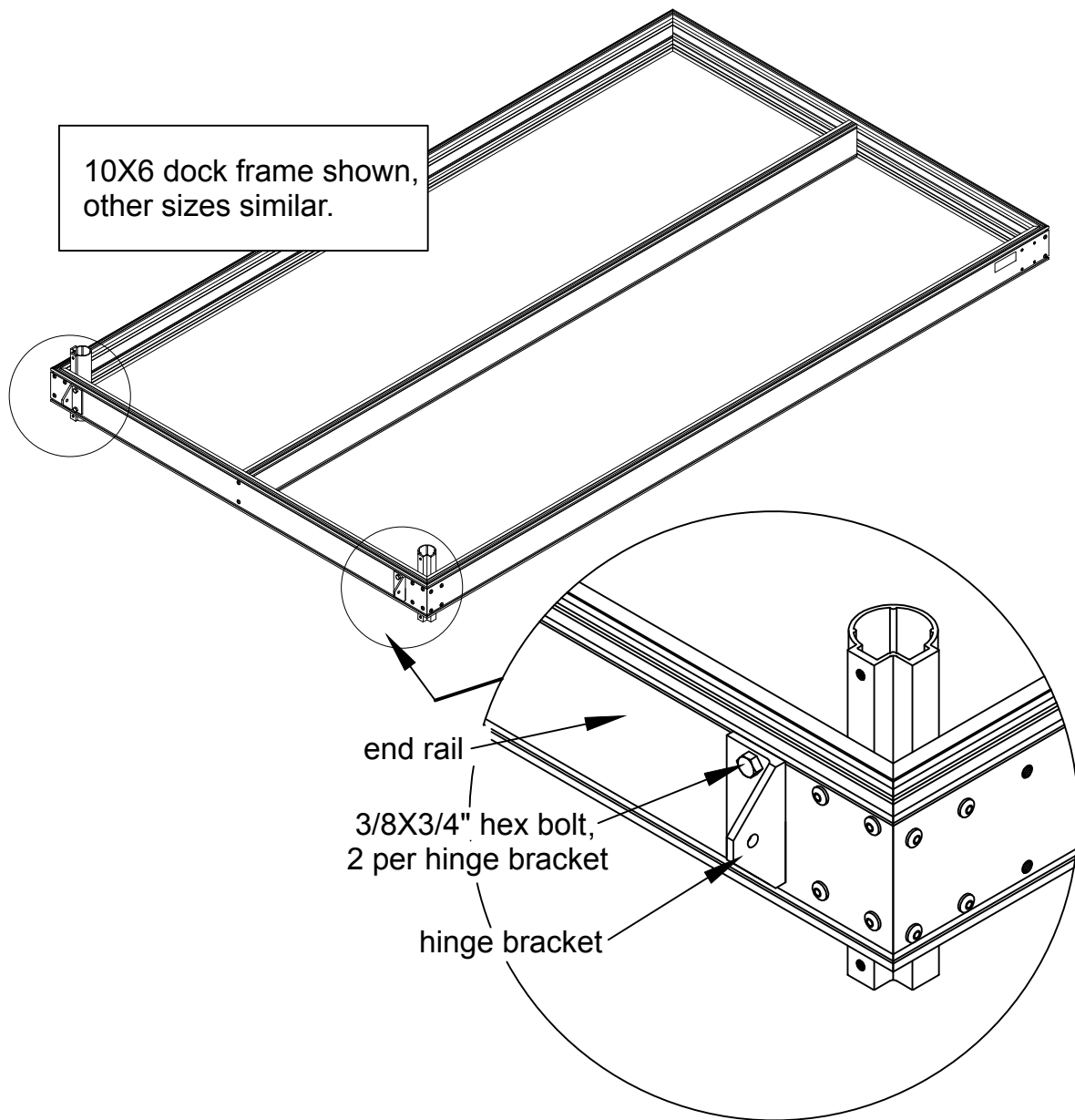


## 5.0 Install Hinges

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Install two hinge brackets to the end of the dock frame at locations where another dock will be attached using two 3/8X3/4" hex bolts each.

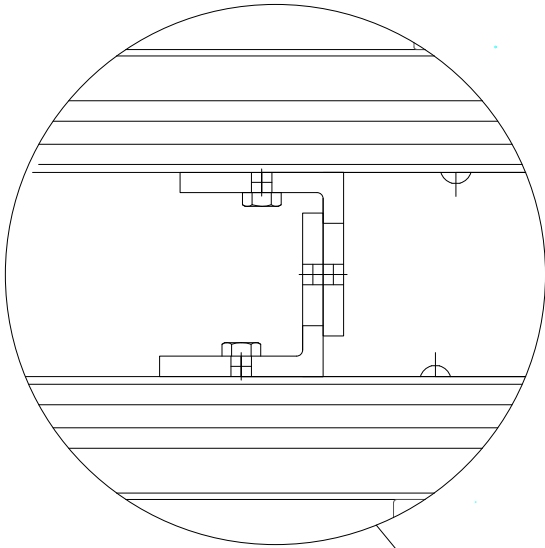
The lake end, and the shore end of a dock system may not require hinge installation.



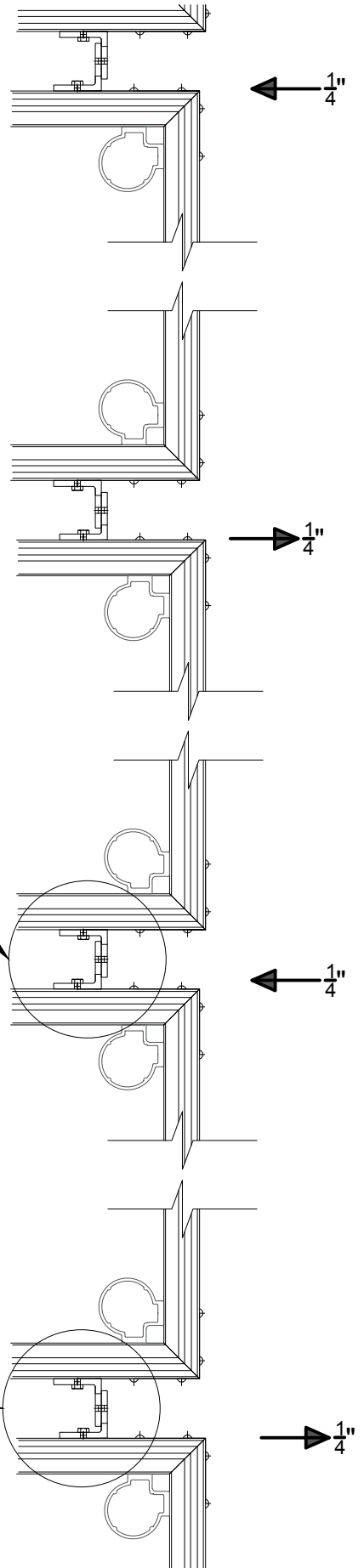
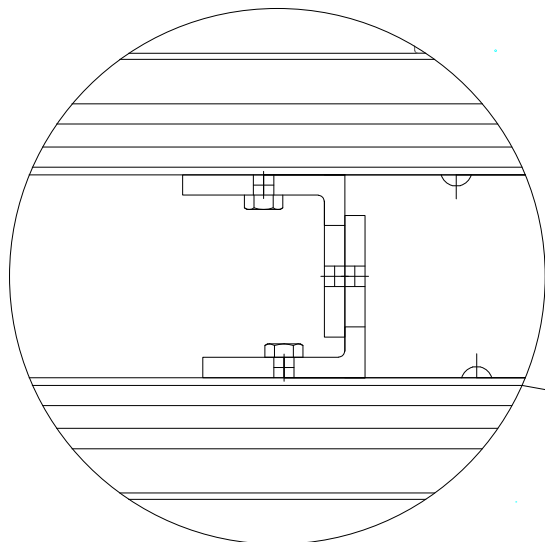
**Note:** When multiple docks are being hinged together, we suggest alternating dock positioning to minimize travel the further out you go. (See the following two pages for illustrations explaining proper dock positioning)

## 5.1 Correct Positioning

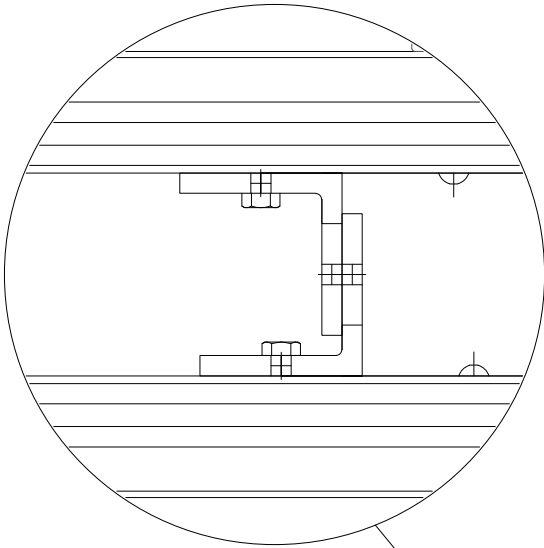
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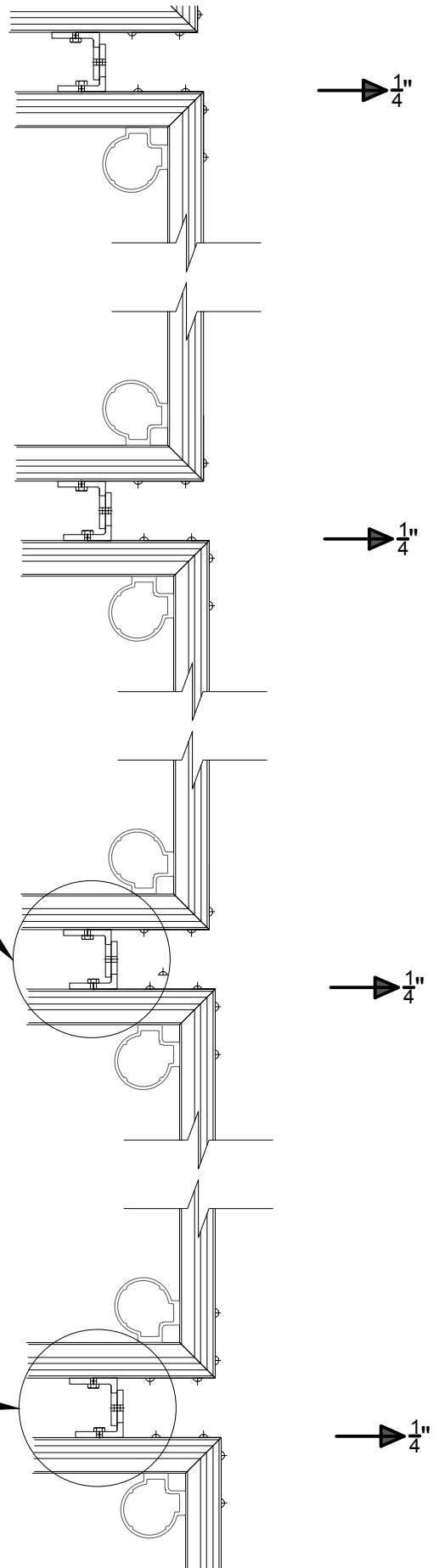
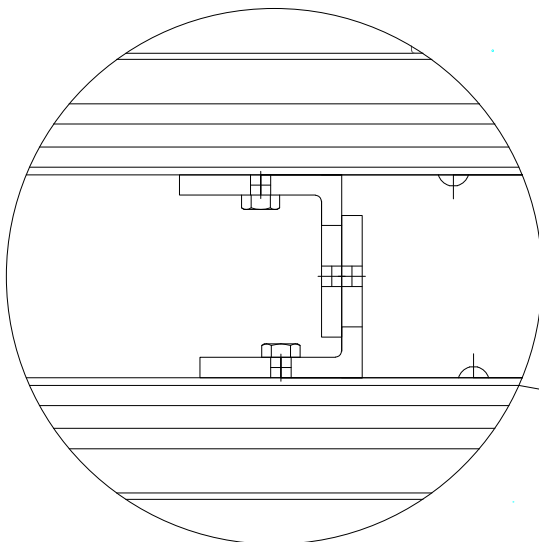
Alternating hinge connection positioning as shown in enlarged views, will reduce the amount of travel in one direction the fully assembled dock will have  
(Example of incorrect positioning on the following page)



## 5.2 Incorrect Positioning



Continually positioning the hinges on the same side will result in a  $\frac{1}{4}$ " of travel (the thickness of the hinge) in the same direction for every section that is connected.



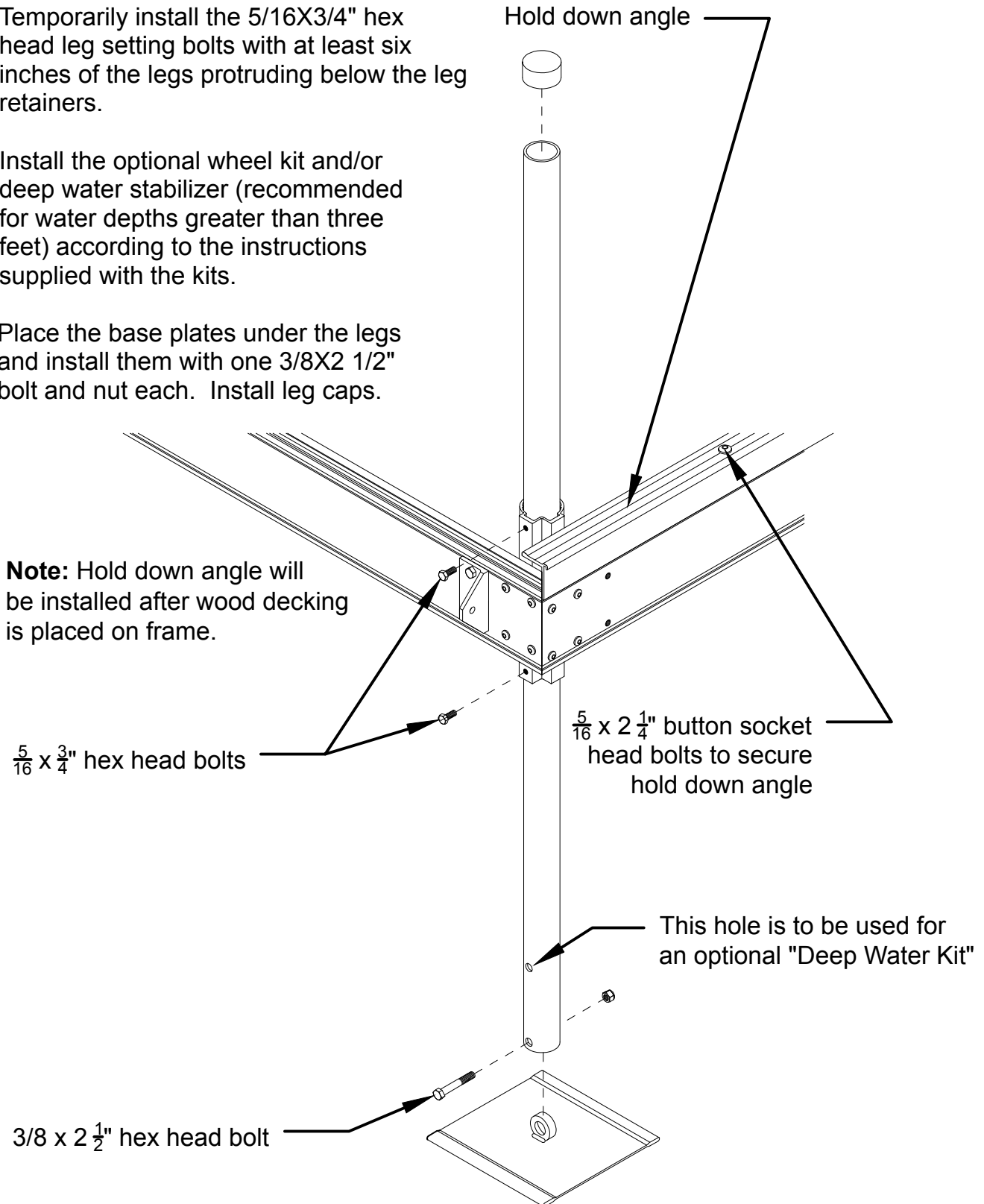
# 6.0 Install Legs

Install legs down through leg retainers.

Temporarily install the 5/16X3/4" hex head leg setting bolts with at least six inches of the legs protruding below the leg retainers.

Install the optional wheel kit and/or deep water stabilizer (recommended for water depths greater than three feet) according to the instructions supplied with the kits.

Place the base plates under the legs and install them with one 3/8X2 1/2" bolt and nut each. Install leg caps.



# 7.0 Building Decking

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## 7.1 Decking Types

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### Wood Decking

Strong, lightweight, durable and affordable, wood is the most common choice among Fendock owners. Prefabricated panels may be ordered through a Fendock dealer or one may easily make their own panels by following the instructions provided in this manual.

Typically, unfinished local cedar provides the best balance with regards to weight, strength, appearance, maintenance and cost. The hold down angle is designed to accept standard 2" x 6" (1  $\frac{1}{2}$ " thick) lumber which provides the necessary strength required to span the width of the dock frame when the decking panels are fabricated according to the instructions provided.

Pressure treated lumber may also be used, but check with your lumber supplier to be certain that the preservative is compatible with aluminum. Treated lumber may also be subject to local restrictions and bylaws.

### Aluminum Decking

Cooler than wood in the hot summer sun, aluminum decking is virtually maintenance free alternative that provides a clean modern look for your waterfront, and has a virtually infinite life span.

Aluminum decking is available in plain mill finish or a beautiful anodized finish (light bronze or black) and may be ordered through your local Fendock dealer. Anodized decking is a special order item.

## 7.2 Decking Panel Configurations

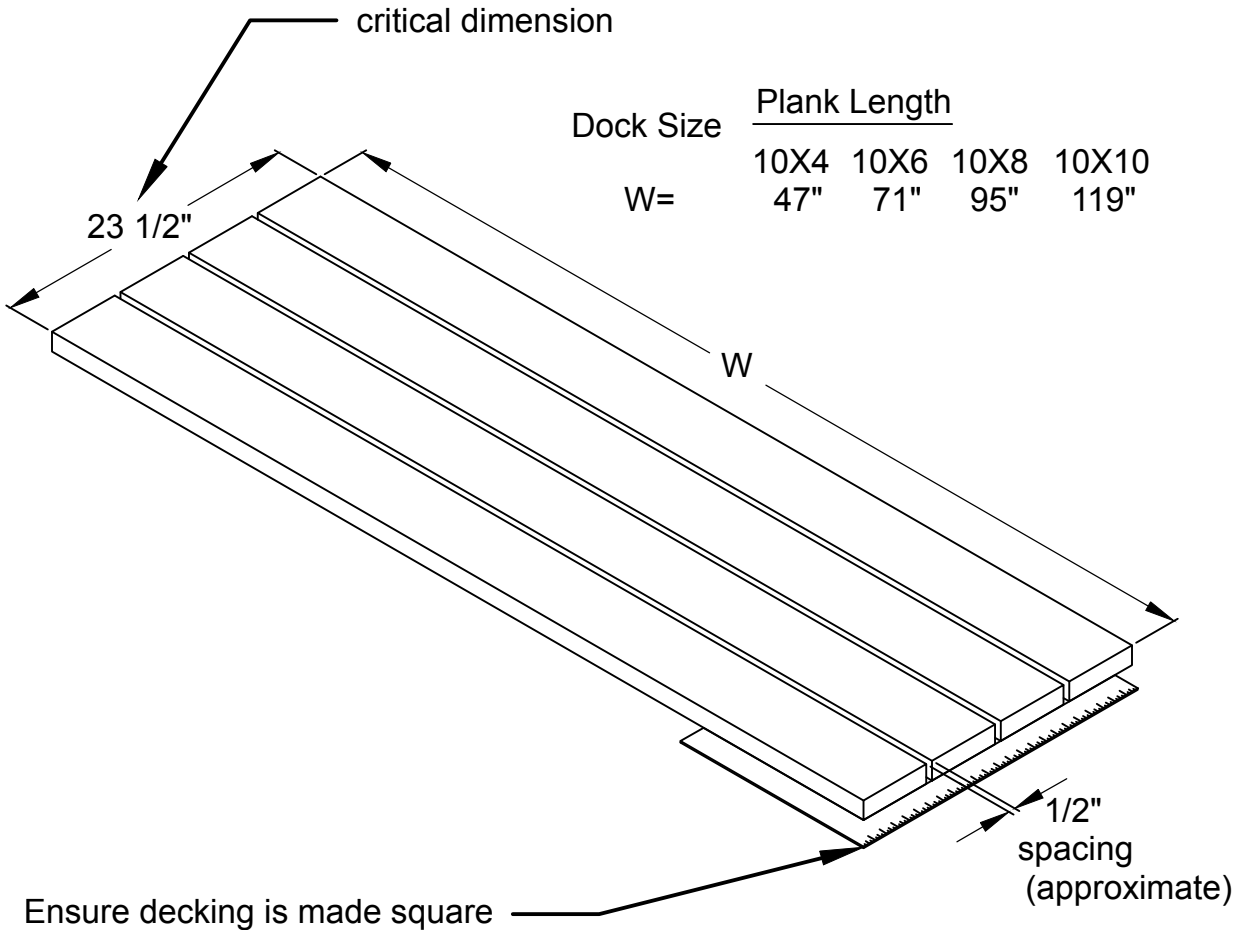
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Each dock frame uses five decking panels. Each decking panel is comprised of four 2 x 6 (1  $\frac{1}{2}$ " x 5  $\frac{1}{2}$ ") planks with  $\frac{1}{2}$ " spacing between them. The four planks are connected by 1x 6 stringers and fastened with #10 x 1  $\frac{3}{4}$ " wood screws.

When the decking panels are constructed according to the instructions provided, the through bolts in the decking retaining rails will pass through the  $\frac{1}{2}$ " space between the second and third decking planks and engage with the continuous screw track in the top of the outer stringer of the frame.

### 7.3 Fabricating Decking Panels

7.3.1 Prepare twenty 2 x 6 (  $1\frac{1}{2}$ " x  $5\frac{1}{2}$ " ) planks per dock frame, cutting the plank length (W) that corresponds to the dock frame size being built. (Example: Planks for a 4' wide dock would be cut to 47")



7.3.2 Prepare ten 1x6 ( $\frac{3}{4}$ " x  $5\frac{1}{2}$ " ) stringers per dock frame, cutting to  $19\frac{1}{2}$ ".

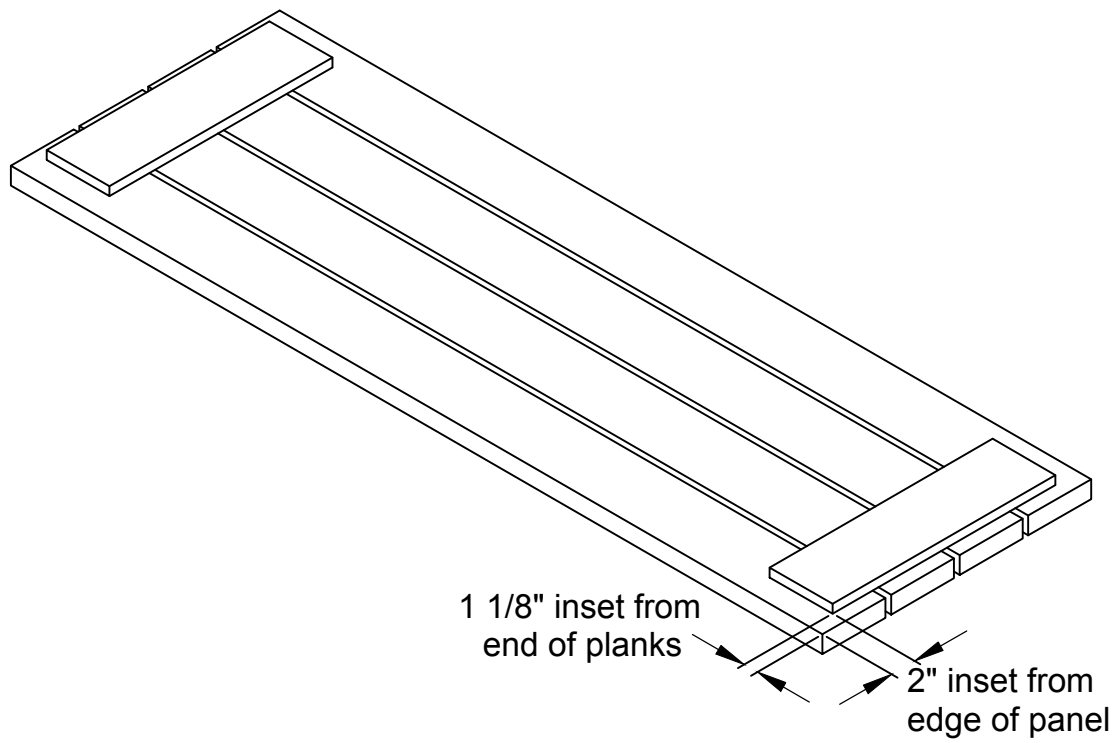
7.3.3 Carefully set out four planks on a flat surface (or leveled saw horses) with their ends even, squared and approximately  $\frac{1}{2}$ " spaces between them.

**Note: Check to be sure that the total distance measured across the four planks equals  $23\frac{1}{2}$ "**

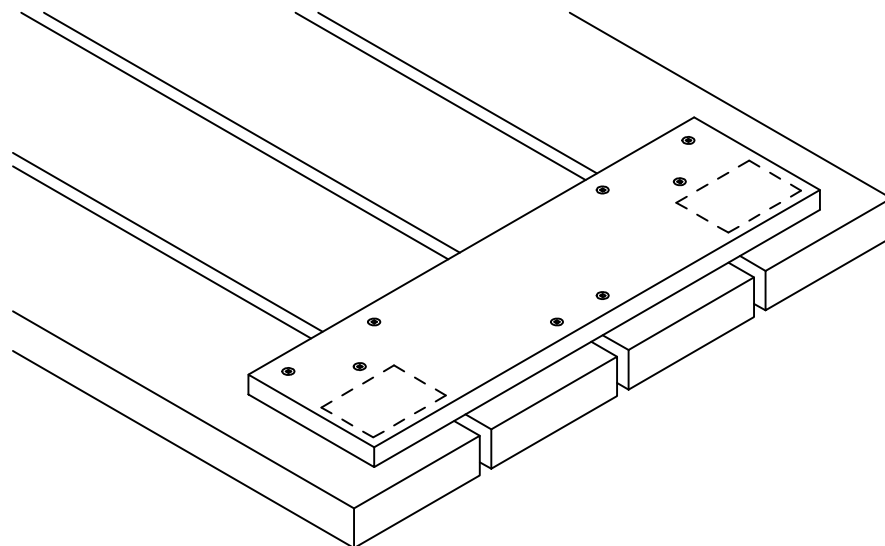
Careful set-up of this first decking panel allows it to be used as a template for the remaining panels.



7.3.1 Set out two stringers in the locations shown.

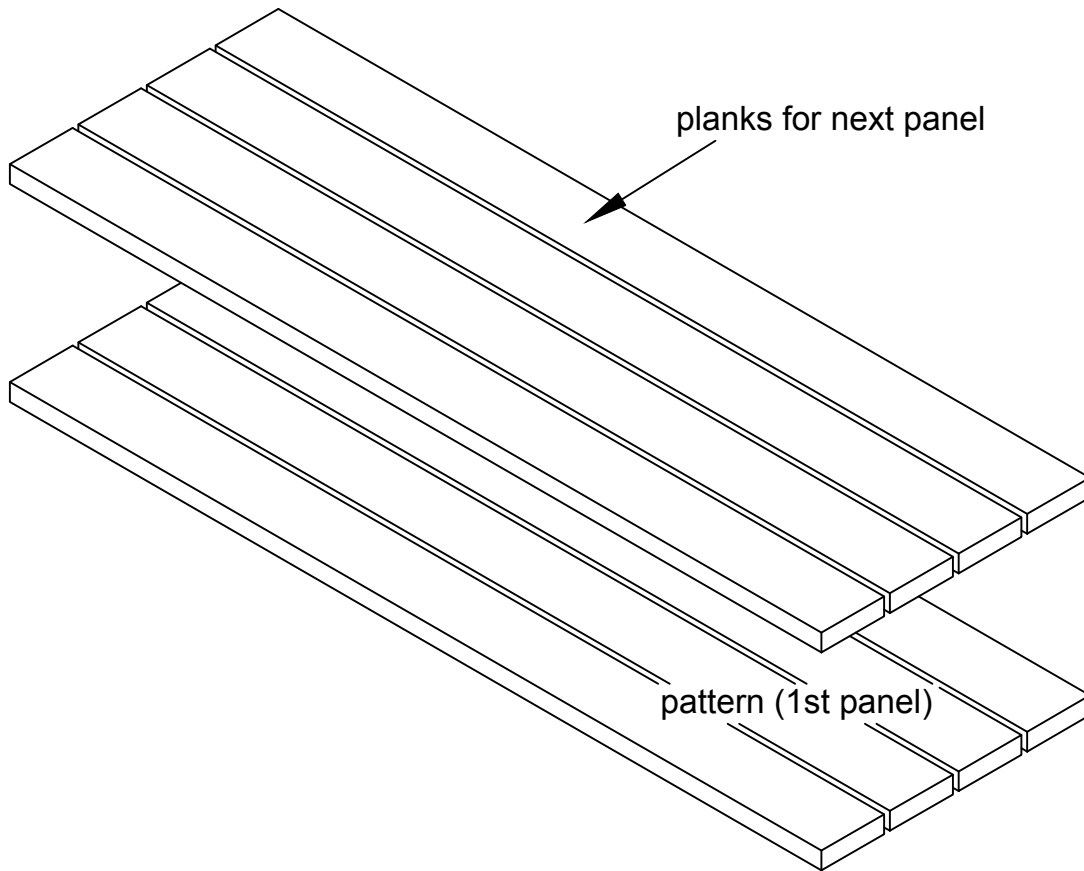


7.3.5 Using eight #10 x 1 <sup>3</sup>/<sub>4</sub>" wood screws per stringer, fasten stringers in place by the approximate screw locations shown. Avoid fastening through the area surrounded by the broken line as this area may be later removed for leg clearance. See 7.3.8 through 7.3.10

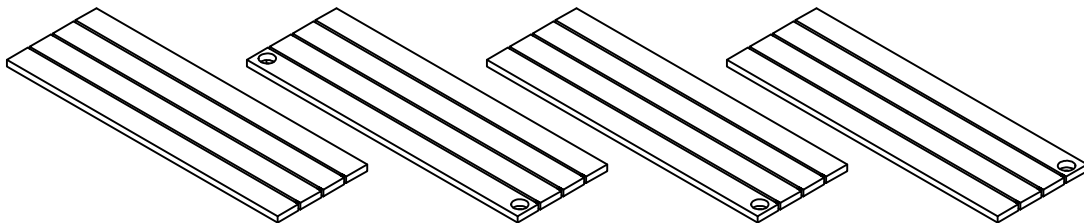


7.3.6 Flip over the finished panel. It can now be used as an assembly pattern to aid in aligning the decking planks for the successive decking panels.

Assemble the remaining panels as per 7.3.4 & 7.3.5.

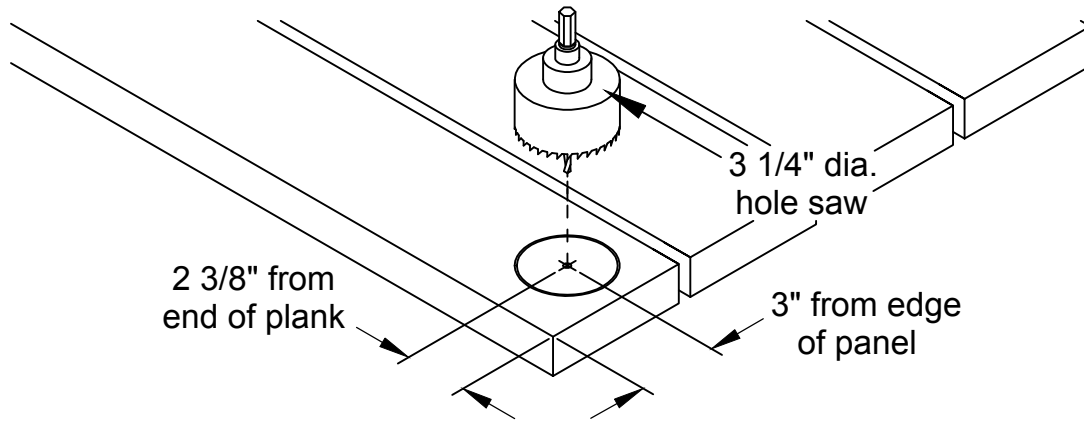


7.3.7 Depending upon the dock system layout, most of the decking panels won't require leg clearance modifications, while some will require clearance for one leg or two legs.

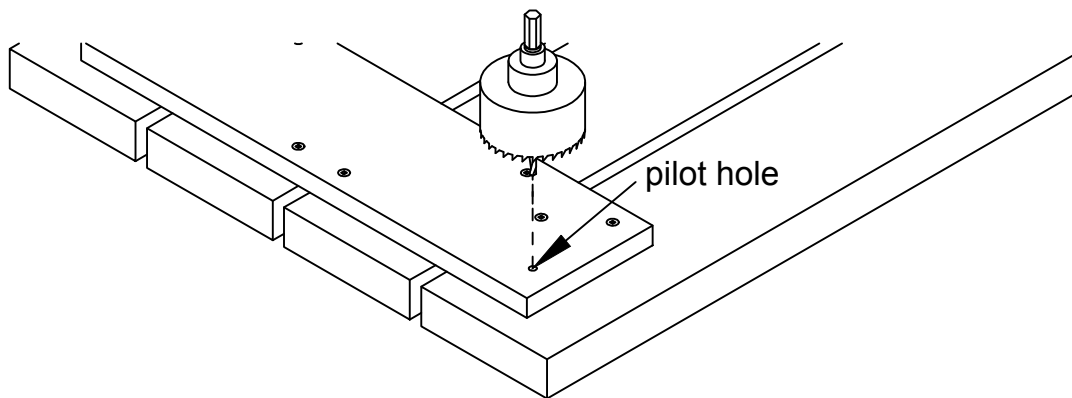


**Note: There are two options for cutting decking to allow leg to go through. See 7.3.8 to 7.3.10 for instructions for both options.**

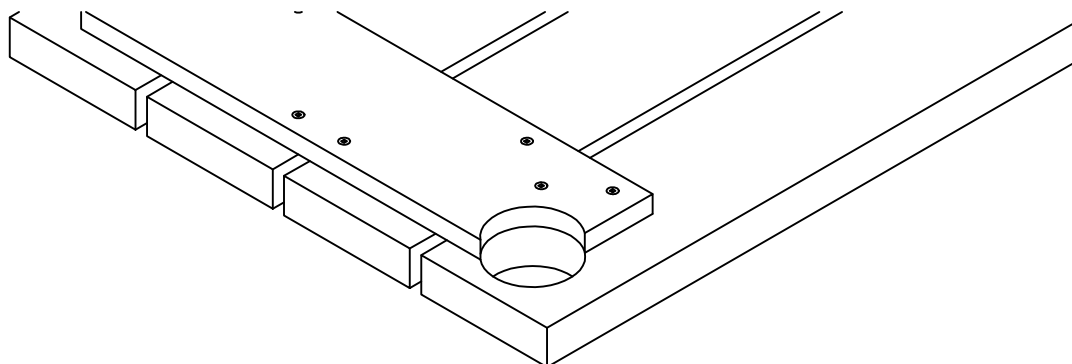
**7.3.8** Mark out the leg clearance locations following the dimensions shown. Using a  $3\frac{1}{4}$ " hole saw, drill from the top side of the decking panel until the pilot drill bit protrudes through the bottom. **(With this cut out option, decking panels must be lifted over the top of the leg to place it on the dock)**



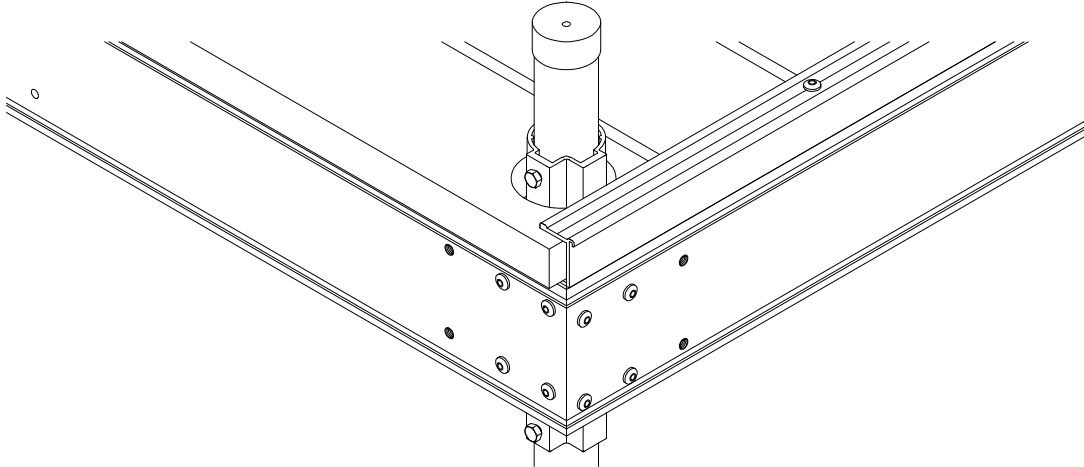
**Note: Some hole saw attachments use a pilot drill that is too short to break through with one pass and will require completion of the pilot hole from the top side of the panel using a standard drill bit.**



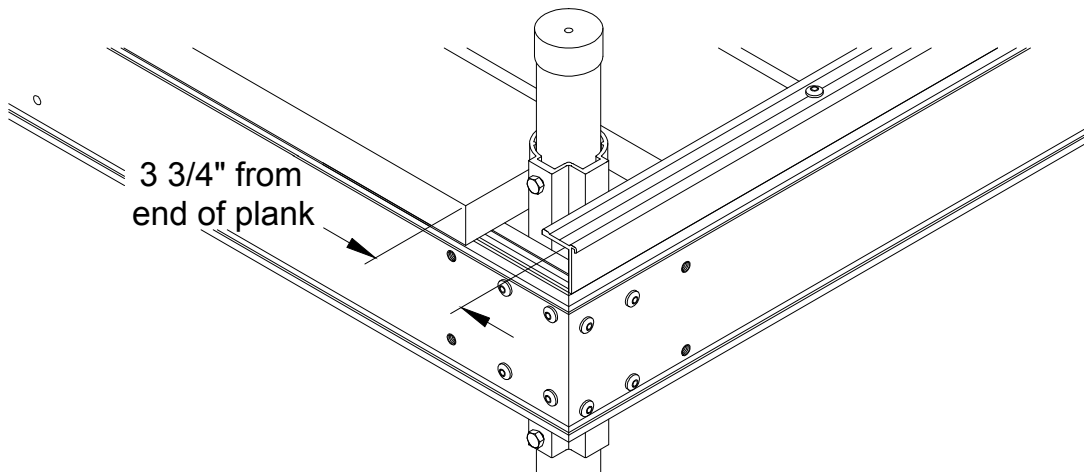
**7.3.9** Flip over the panel being modified and locate the pilot hole drilled at 7.3.8. With the hole saw, finish drilling from the bottom side of the panel. Be certain that the hole saw cut doesn't intersect with any screws.



Once installed, the dock will appear as shown in this view of a leg installation at the lake end of a frame dock system.



7.3.10 As an optional method for leg clearance, the first plank may simply be cut at the dimension shown, including the stringer.



While not as aesthetically pleasing, this method has its own advantages such as easier installation, simple fabrication and fewer tools required.

# 8.0 Optional Bumper System

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## 8.1 Overview

An optional side rail bumper system is available that simply clips into retaining grooves that are incorporated into the extruded aluminum profiles of the dock frame and decking retaining rails.

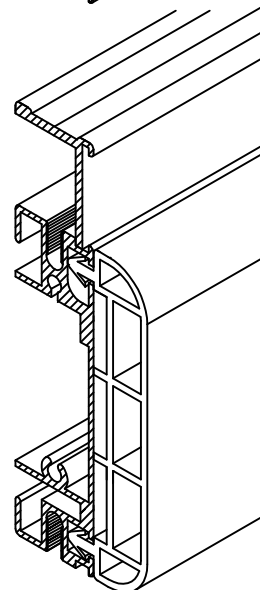
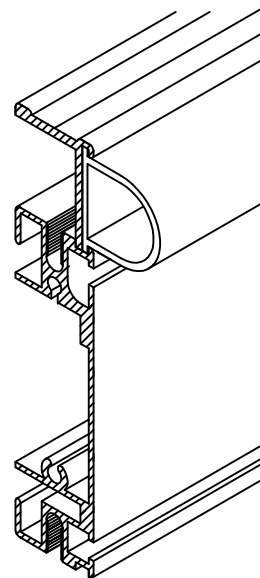
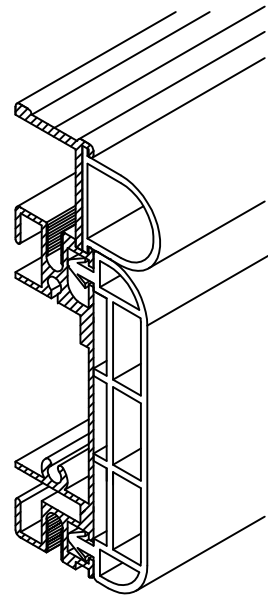
The bumper system, comprised of separate upper and lower bumpers in conjunction with specially designed trim corners and end caps, can be tailored to meet the specific protection requirements of your docking needs.

The upper and lower bumpers, designed to be installed together for maximum protection, may also be used individually.

To install the small upper bumper the hold down angle must be loosened to fit the bumper in place.

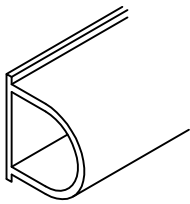
To install the large lower bumper, use a rubber mallet to hit the bumper prongs into the grooves in the aluminum frame.

**Note: The bumpers do not "slide" into place**



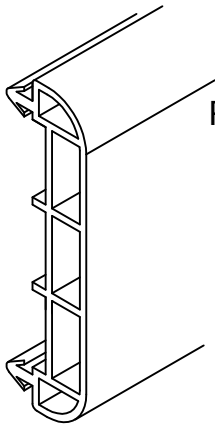
## 8.2 Bumper Components

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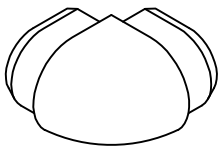
PN90100

Upper side rail bumper, available in 120" "trim to fit" lengths.



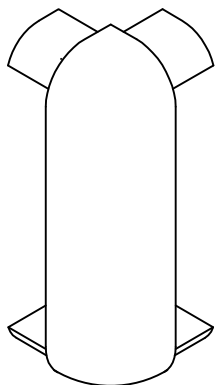
PN90200

Lower side rail bumper, available in 120" "trim to fit" lengths.



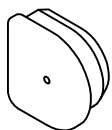
1049-F

Upper bumper corner, package of four.



PN01507

Lower bumper corner, sold individually



1027-F

Upper bumper end plug, package of four.

# 9.0 Accessories

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## Deep Water Stabilizer.

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Fully adjustable, the quick release telescopic deep water stabilizer is recommended for wobble resistant "rock steady" performance in water depths greater than 3' (three feet.) Typically only one stabilizer is required per dock frame unit. Deep water stabilizer kits are available for 4' wide docks (PN98012) and 6' widths (PN98013) and wider.

Note: Deep water stabilizer lock lever must be loosened when adjusting leg height.

## Wheel Kit.

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Although a Fendock is light and easy to carry, a wheel kit can make the installation and removal of a Fendock a one person job. Wheels also make it possible to bring docks in and out without having to physically get into the water during the colder months.

## Stairs, Ladders, and Mooring.

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In addition to our "Dock Stairs" and complete line of swim ladders, boat roller ramps, dock cleats and bumpers are also available.

## 10.0 Fendock's Guarantee & Warranty Registration

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Fendock is proud to offer a 5 year warranty, which is testimony to the quality workmanship and materials used in the manufacturing of our products. This warranty is valid only upon normal use and under normal conditions. Our detailed warranty is available upon request.

Improper assembly of the dock, and / or improper assembly of decking panels including the materials used to assemble panels, may affect warranty.

Any damage to the dock as a result of removing or installing with a motorized vehicle will not be covered under warranty.

Proudly manufactured in Canada by

Fendor Glass and Aluminum  
46 Auriga Drive  
Ottawa, ON, Canada  
K2E 7Y3  
Tel.(613) 722-6581 Fax.(613) 722-3168  
Toll Free 1-888-FENDOCK (336-3625)  
email: [info@fendock.com](mailto:info@fendock.com)



# FRAME DOCK INSTRUCTIONS