



## Dockside Marine Supply Company, Inc.

455 A North Main Street, Barnegat, NJ 08005

Main Line: (609) 660 9300 Fax: (609) 660 9330

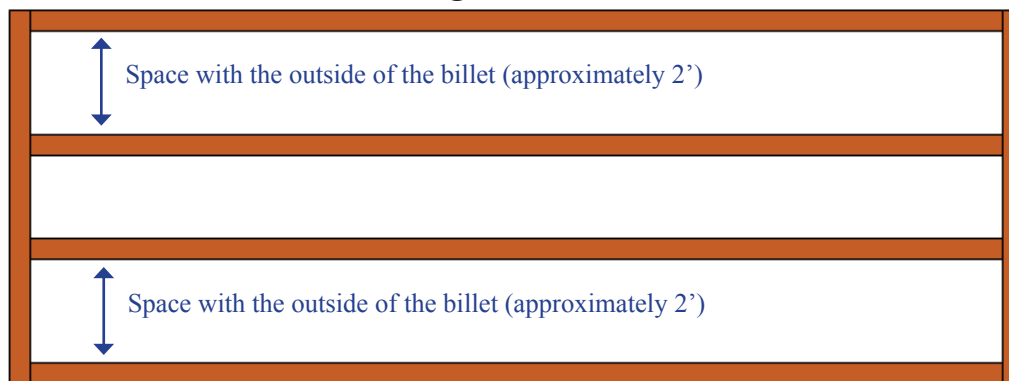
Web: [www.DocksideMarineSupply.com](http://www.DocksideMarineSupply.com)

### Building a Floating Dock

Below is a plan that details our method for building floating docks. This plan can be used to build a floating dock from 5' to 6' wide and up to 12' long using pipe slides to attach the dock to a fixed dock or bulkhead. The plan serves as a general template and can be adapted and modified to different sizes and configurations. **Links to view and print materials list based on planned dock size are available at [www.docksidemarinesupply.com](http://www.docksidemarinesupply.com) > Waterfront Construction > Choosing Materials: Floating Docks** These plans are provided as a courtesy for use by experienced builders. The use of these plans does not convey or imply any warranty.



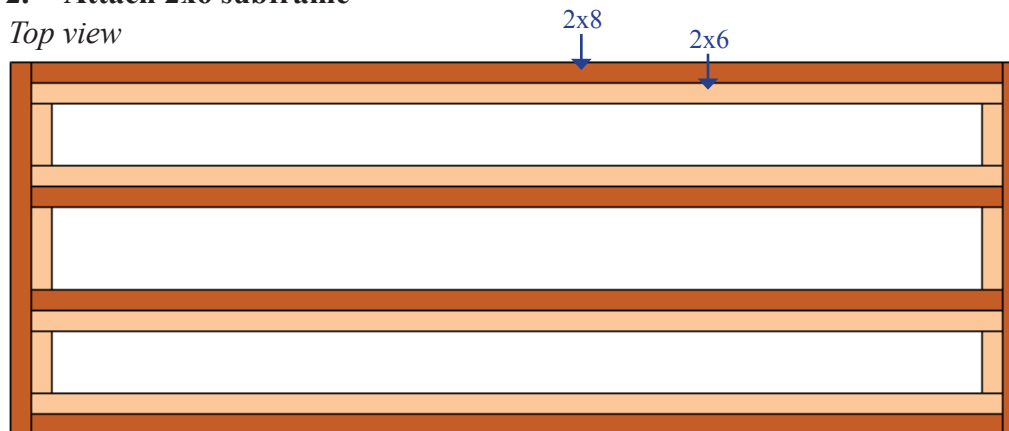
#### 1. Build the outside frame using 2x8s



1. Using nails or screws, (2 or 3 each end) build the frame
2. Place 1 Billet in each corner for spacing purposes.
3. Set your stringers so that they "box" in the billets.
4. Remove billets

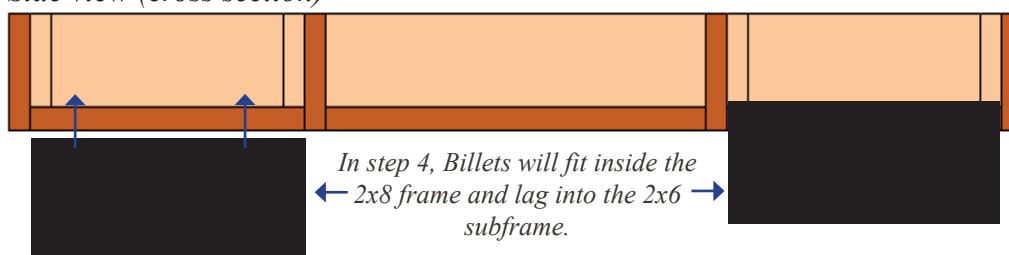
#### 2. Attach 2x6 subframe

Top view



Screw the 2x6 directly into the 2x8 flush with the top of the frame.

Side view (cross section)



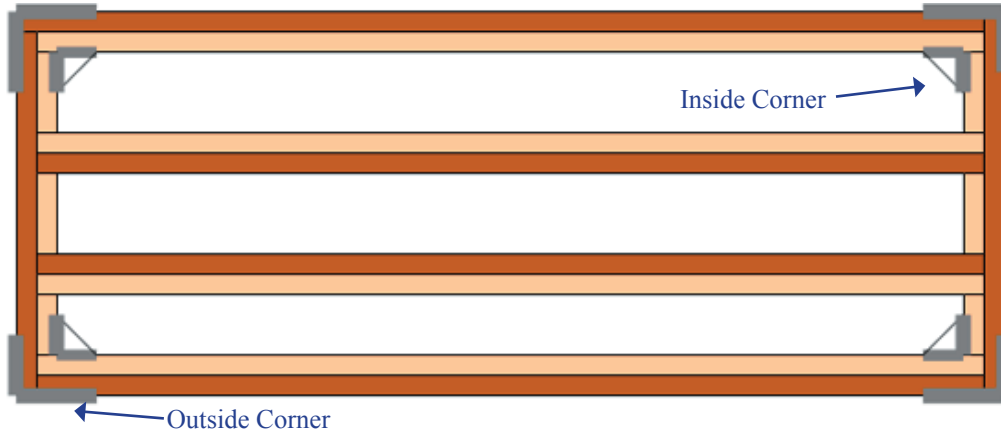
← Top of finished floating dock.

← In step 4, Billets will fit inside the 2x8 frame and lag into the 2x6 subframe. →

## Floating Dock Instructions

- 3a. Use carriage bolts to bolt outside corner to inside corner through the frame flush with the top of the frame.**

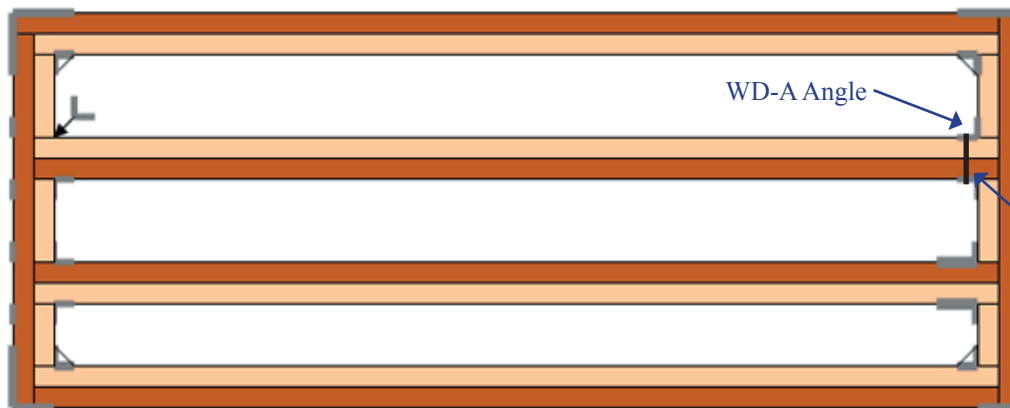
*Top View*



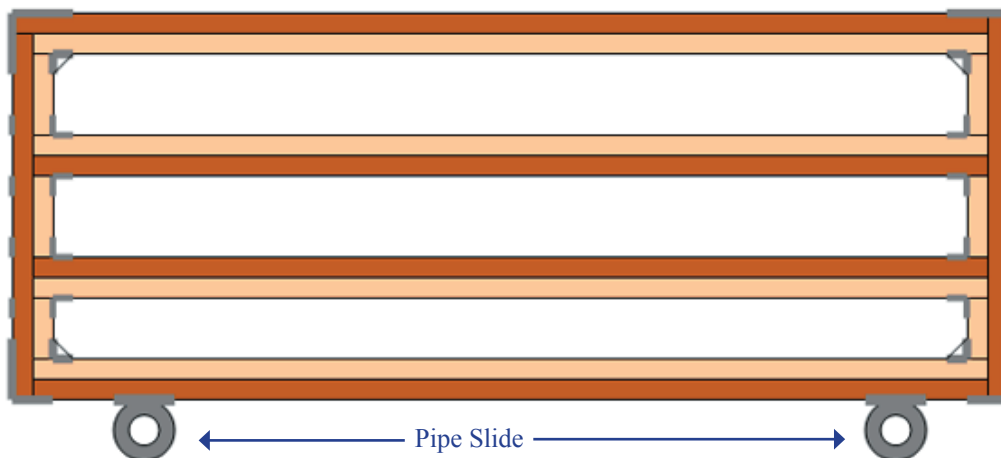
*Side View*



- 3b. Use carriage bolts to bolt WD-A angle to two-hole backer plate through the frame flush with the top of the frame.**

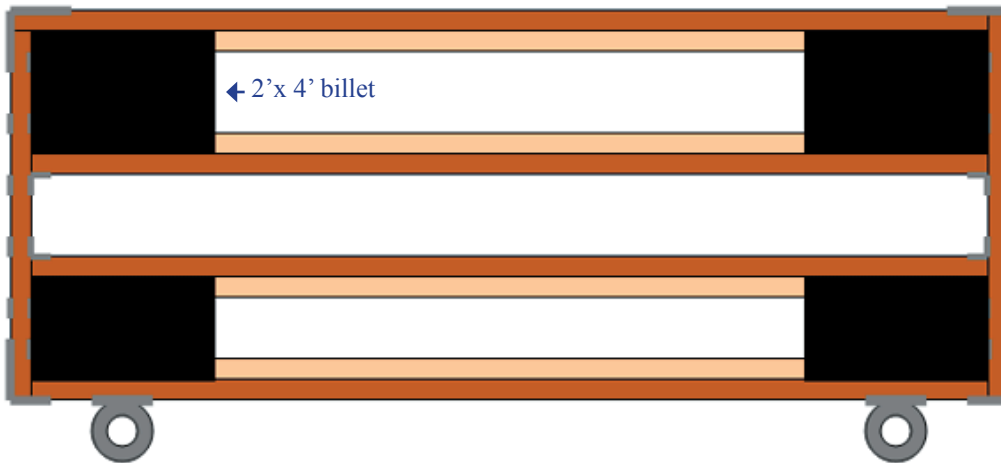


- 3c. Attach pipe slides through frame with carriage bolts.**

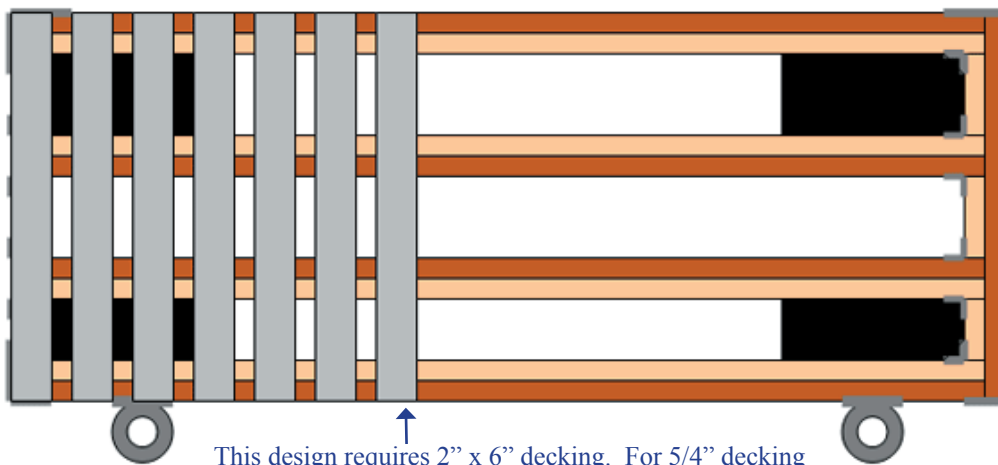


## Floating Dock Instructions

### 4. Attach billets using lag bolts; lag into 2x6 subframe. (*Bottom view*)

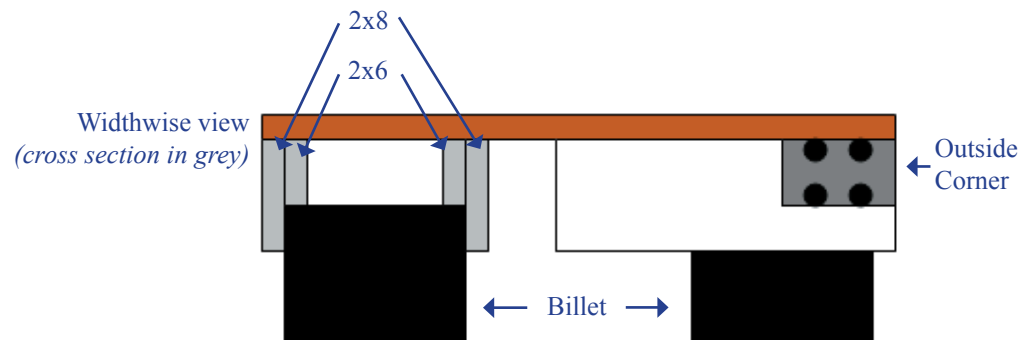
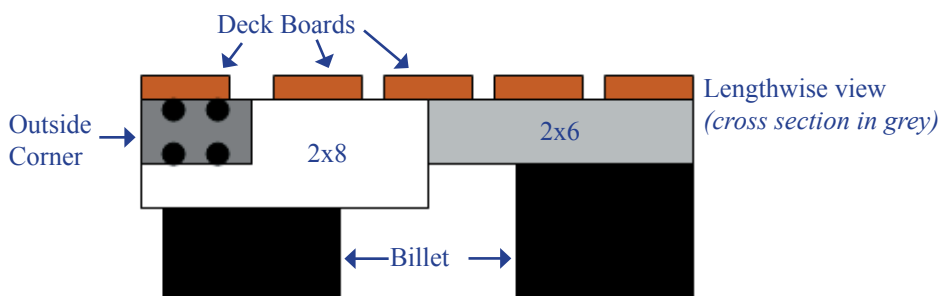


### 5. Flip the dock over and attach decking.



This design requires 2" x 6" decking. For 5/4" decking see additional configurations below. Local regulations may require a minimum gap between deck boards.

### Cross Section



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## Floating Dock Instructions

### Additional Configurations

#### Larger Floating Docks

Wider or longer floating docks may require additional billets, and the frame should be configured to accommodate these. *See Figure A and B below for diagrams.*

We recommend limiting the length of a floating dock to 20' to limit flex. Longer configurations can be achieved by hinging two floating docks together. For stability, floating docks should be at least five feet wide.

#### Hardware Options

The plan utilizes many of the components available at Dockside Marine Supply. You may substitute or omit some of these components; for example, washers can be used instead of backer plates. You may also chose to add accessories such as rub rail or cleats.

#### Decking

The plan specifies 2x6 decking. PVC or composite decking adds durability and a great look to a floating dock.

If you want to use a 5/4 deck board, add a 2x6 joist across the center of the billet. *See Figure C below.*

#### Connecting Floating Docks

To link two or more floating docks together, you can use male and female outside corners and/or T-hinges. *See Figures D and E below.*

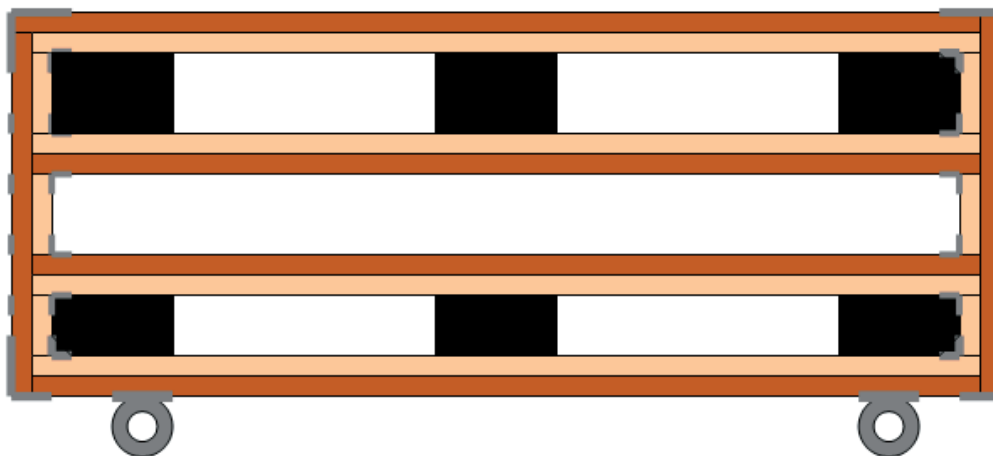
#### Blue Billets

We no longer carry blue Styrofoam billets. Foam filled black billets are more durable and versatile.

#### Different Designs

If you or your builder wants to use a different method to build a floating dock, this plan is by no means the final word. Another design might be right for your location or the way you intend to use your floating dock.

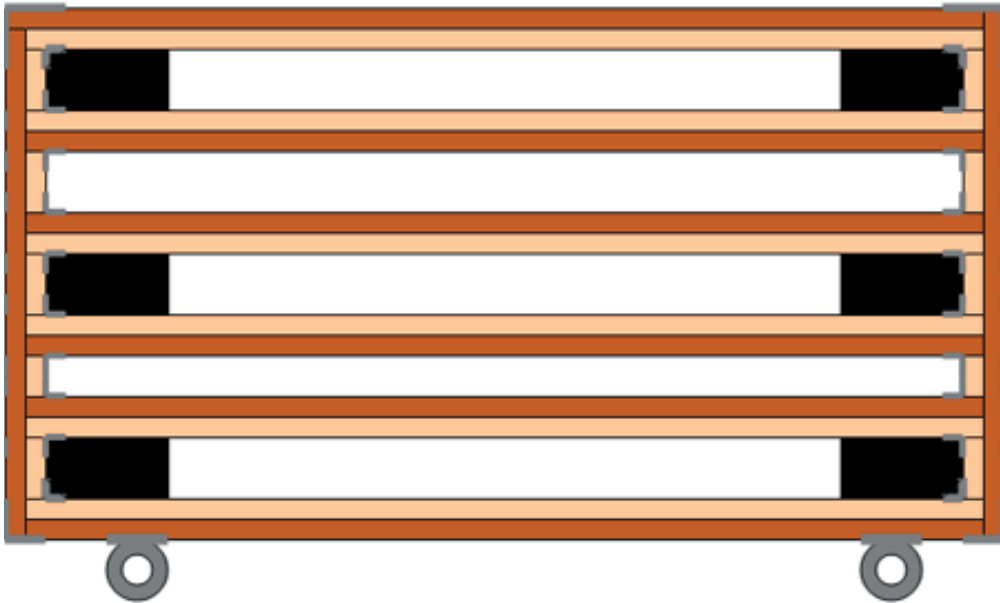
**Figure A**



5' to 6' wide, 16' to 20' long.  
Add two or four billets in line  
with the billets in the corners.

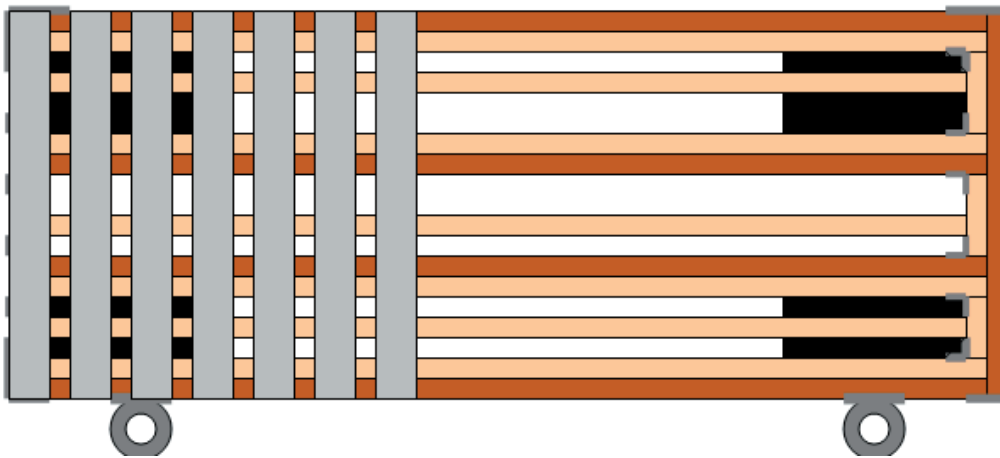
## Floating Dock Instructions

**Figure B**



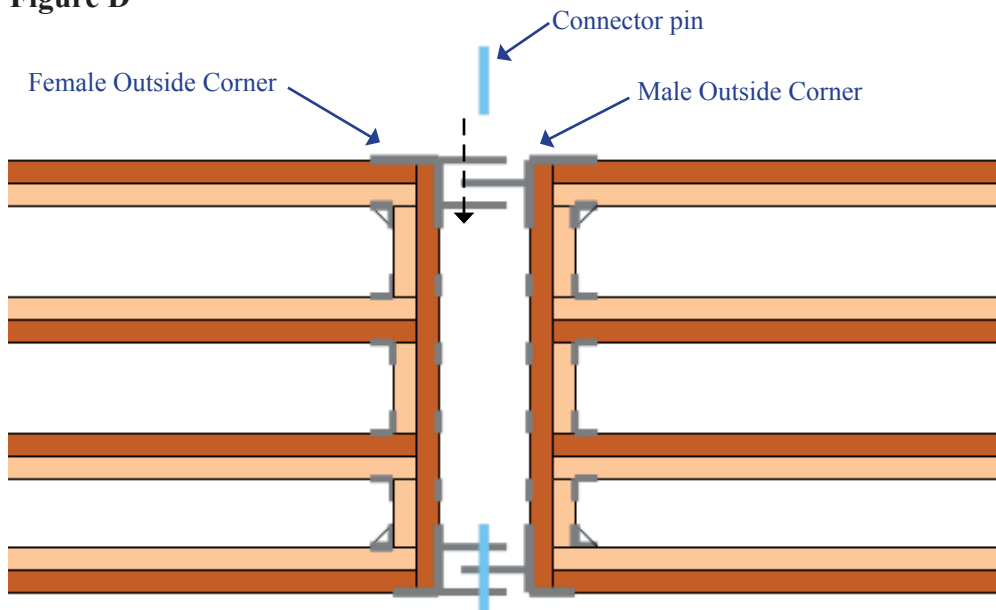
8' to 10' wide, 10' to 12' long.  
Add a third 2x8/2x6 box in the  
center of the frame.

**Figure C**



Joists added across billets to  
support 5/4 decking.

**Figure D**



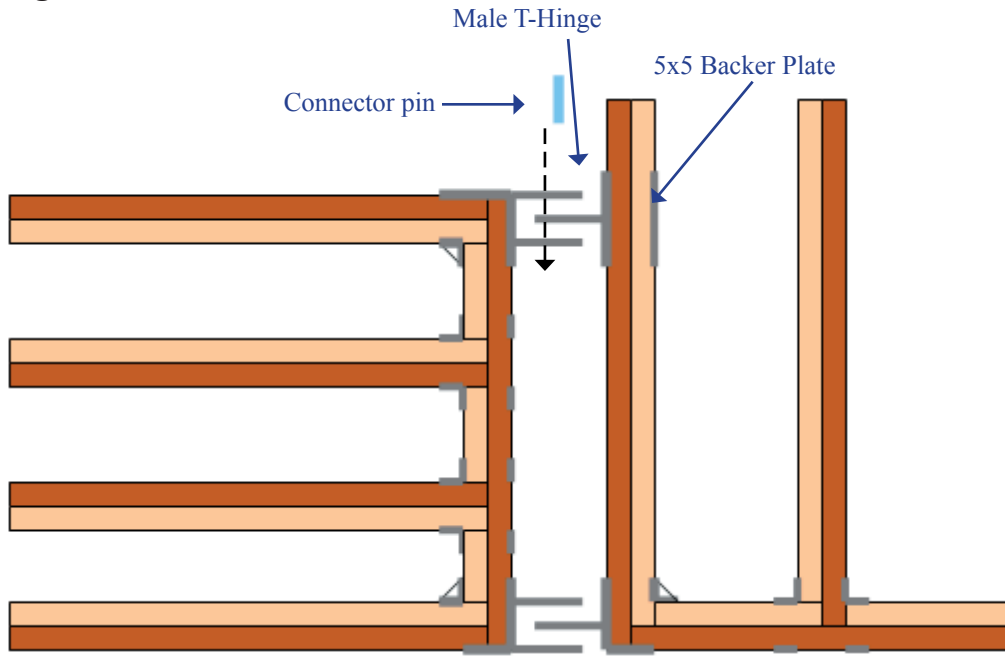
Connecting two parallel  
floating docks with male and  
female outside corners.

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## Floating Dock Instructions

**Figure E**



Connecting two perpendicular floating docks with male and female outside corners and T-Hinge.