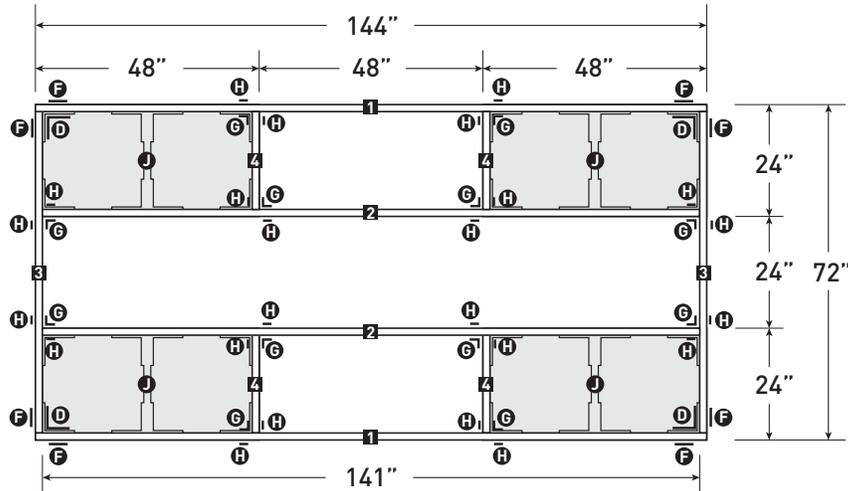


## USE BLUE LABELLED OR BLUE DOT ● COMPONENTS FOR FLOATING DOCK CONSTRUCTION

### HOW TO BUILD A 6' x 12' Floating Dock

1 Assemble main framework. Drill holes for DE93122F.

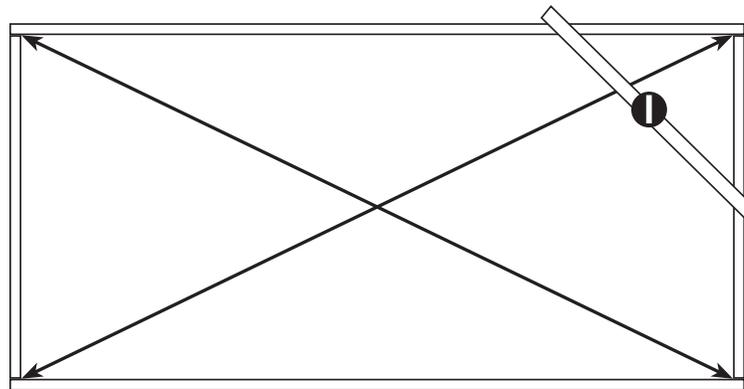


DESCRIPTION	LENGTH or PART #	QTY.
1 - End Stringer	2" x 6" x 144"	2
2 - Center Stringer	2" x 6" x 141"	2
3 - Side Stringer	2" x 6" x 69"	2
4 - Cross Stringer	2" x 6" x 21"	4
D - Inside Corner	DE92104F	4
F - Backer Plate	DE93122F	8
G - Joist Corner	DE99002F	12
H - Washer Plate	DE99006F	24
E - Carriage Bolt	1/2" x 2 1/2"	80
V - Lock Washers	1/2"	80
T - Nuts	1/2"	80

Note: items E, V & T are all included in packages of 8 in Hardware Fastening Kit DE85100F.

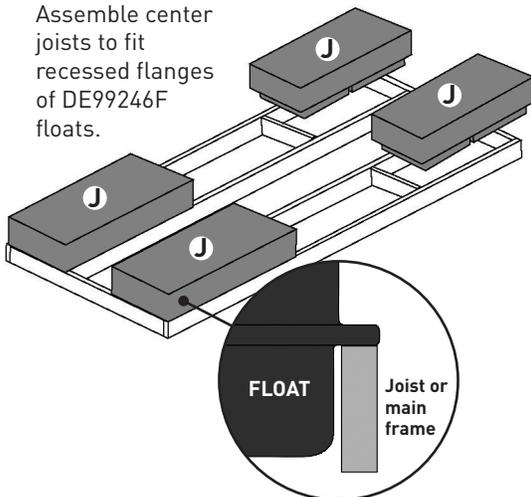
#### Squaring Your Dock Structure

Check the squareness by measuring from corner to corner of the frame in an "X" pattern as shown. The measurement should be +/- 1/4" between each other. Lock the framework into square by temporarily securing a piece of lumber (I) across one corner as shown below.



2 Lay the dock frame upside down on a flat surface in order to easily install floats.

Assemble center joists to fit recessed flanges of DE99246F floats.



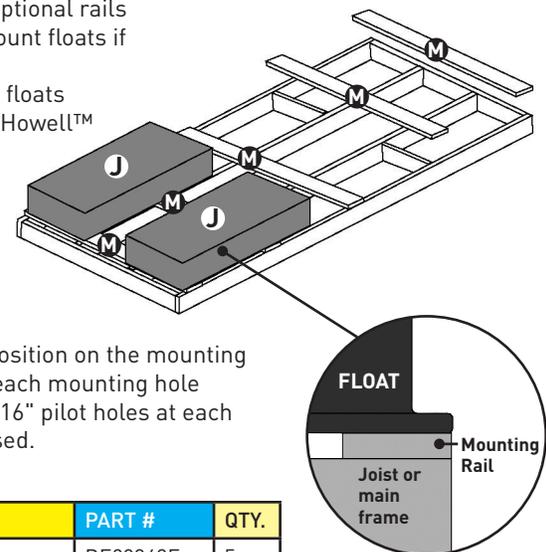
Lay floats into position on the dock framework and mark each mounting hole location. Drill 3/16" pilot holes at each location to be used.

Note: floats may be secured to framework & stringers. For flush mount floats such as the Howell™ 400, DE99242F, refer to Step 2a.

DESCRIPTION	PART #	QTY.
J - 550 Float	DE99246F	4
Float Fastener Kits	DE85125F	3

2a Assemble optional rails for flush mount floats if desired.

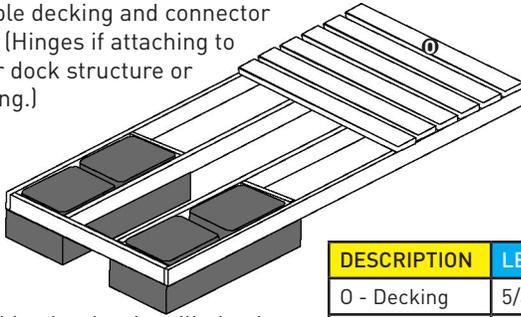
For flush mount floats (optional) using Howell™ 400, DE99242F.



Lay floats into position on the mounting rails and mark each mounting hole location. Drill 3/16" pilot holes at each location to be used.

DESCRIPTION	PART #	QTY.
J - 400 Float	DE99242F	5
M - Optional float rails	2" x 6" x 72"	7
N - Screws	#10 x 3"	80
Float Fastener Kits	DE85125F	4

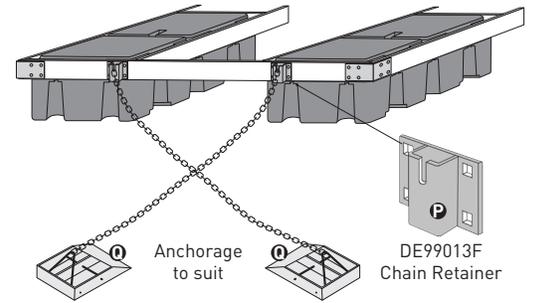
**3** Assemble decking and connector hinges. (Hinges if attaching to another dock structure or shore footing.)



DESCRIPTION	LENGTH	QTY.
O - Decking	5/4" x 6" x 72"	26
N - Screws	#10 x 3"	156

NOTE: Decking lumber is milled to have one "cap" or "crown" surface which will allow water to flow away from the deck surface. When mounting the deck boards to the dock frame it is recommended to fasten the decking "cap"/ "crown" up.

### 4 FLOATING DOCK ANCHORAGE



DESCRIPTION	LENGTH or PART #	QTY.
P - Chain Retainer	DE99013F	2
H - Washer Plate	DE99006F	4
Galvanized chain	5/16" x 48' approx	1
Hardware Fastener Kit	DE85100F	1
Q - Anchorage	Min. 125lb ea.	2

### Hardware & Fasteners required (referenced by item letter)



D DE92104F Inside Corner    F DE93122F Backer Plate    G DE99002F Joist Corner    H DE99006F Washer Plate    K DE99004F Outside Corner    P DE99013F Chain Retainer



U DE96111F Connector Pin    W DE99009F Male Corner Hinge    X DE99010F Female Corner Hinge    Y DE99011F Female T Connector    Z DE99012F Male T Connector



L Lag Bolts    S Flat Washers    E Carriage Bolts    T Nuts    V Lock Washers    N Deck Screws

### Tools Required for the average Dock Build

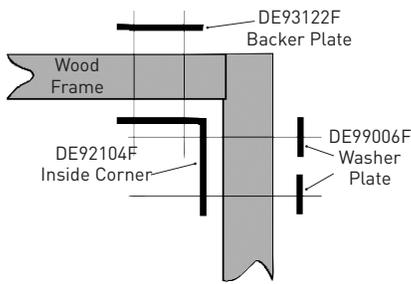
(excludes sizing/cutting of structural wood members)

- Electric Drill
- 1/2" drill bit or auger
- 3/8" socket wrench
- 9/16" socket
- 9/16" wrench
- #2 Robertson (square) bit drive for decking screws
- 3/16" drill bit
- Pencil

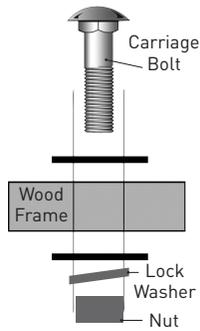
### Hardware Requirements for Other Dock Sizes

DESCRIPTION	PART #	10 x 10 Dock	12 x 12 Dock	6 x 20 Dock	8 x 20 Dock	10 x 20 Dock
G - Joist Corner	DE99002F	12	14	8	20	16
H - Washer Plate	DE99006F	24	28	16	40	32
D - Inside Corner	DE92104F	4	4			
F - Backer Plate	DE93122F	8	8	8	8	8
K - Outside Corner	DE99004F			4	4	4
J - Howell 550 Float*	DE99246F	5	7	6	8	9
J - Howell 400 Float (alternate)	DE99242F	6	9	8	10	13
Hardware Fastener Kit (8 pack Carriage Bolts, Lock Washers & Nuts)	DE85100F	10	11	8	14	12
Float Fastener Kit (8 pack Lag Bolts & Flat Washers)	DE85125F	5	7	6	8	9
P - Chain Retainer	DE99013F	2	2	2	2	2
W - Male Corner Hinge	DE99009F			1 or 2	1 or 2	1 or 2
X - Female Corner Hinge	DE99010F			1 or 2	1 or 2	1 or 2
U - Connector Pin	DE96111F	2	2	2	2	2
Z - Male T Connector	DE99012F	1 or 2	1 or 2			
Y - Female T Connector	DE99011F	1 or 2	1 or 2			

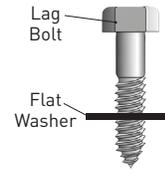
## Important Tips



Always use washer plates (DE99006F), backer plate (DE93122F) or mating hardware components together. Framework of the dock structure should be sandwiched between hardware pieces at all joint locations as shown. (sample only, other configurations possible)



Always use a lock washer with each carriage bolt usage to prevent bolts loosening over time.



Always drill pilot holes for lag bolt installation. Always use a large flat washer at each lag bolt installation as shown.

## FLOTATION CAPACITY FORMULAE, REQUIRED # OF FLOATS

Determine total square footage of dock surface area. Multiply the total area by 25 (recommended 25 lb per sq. ft. buoyancy). Divide your answer by the float model number (250, 400, 550 or 600) depending upon float desired.

**EXAMPLE** (for an 6' x 12' dock using Howell™ 400 floats):  
 $6 \times 12 = 72$   
 $72 \times 25 = 1800$   
 $1800 \div 400 = 4.5$  or **5 floats**



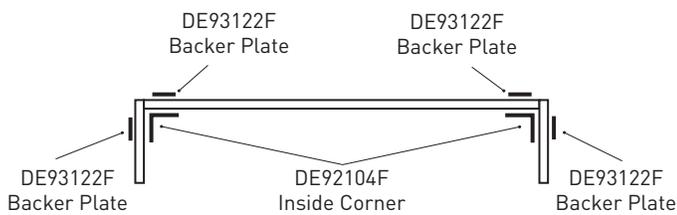
Howell™ 400  
DE99242F



Howell™ 550  
DE99246F

## Optional Floating Dock Hardware and Connector Hinge Placement

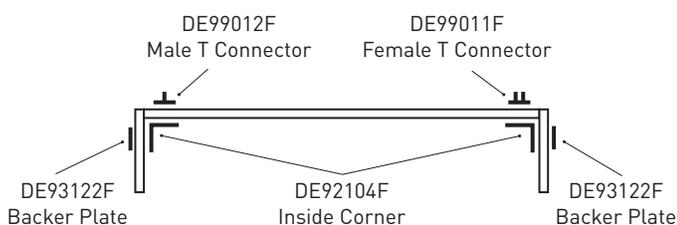
### Hardware for docks up to 12 ft. in length



### Hardware for docks over 12 ft. in length



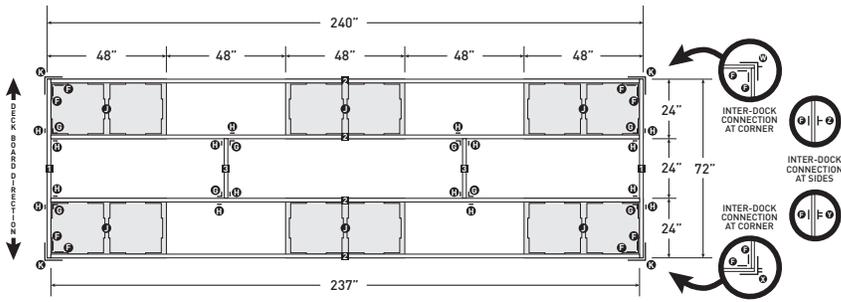
### Connectors for docks up to 12 ft. in length



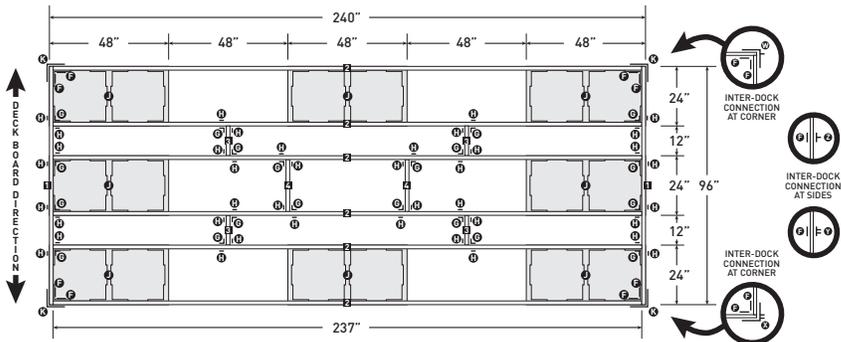
### Connectors for docks over 12 ft. in length



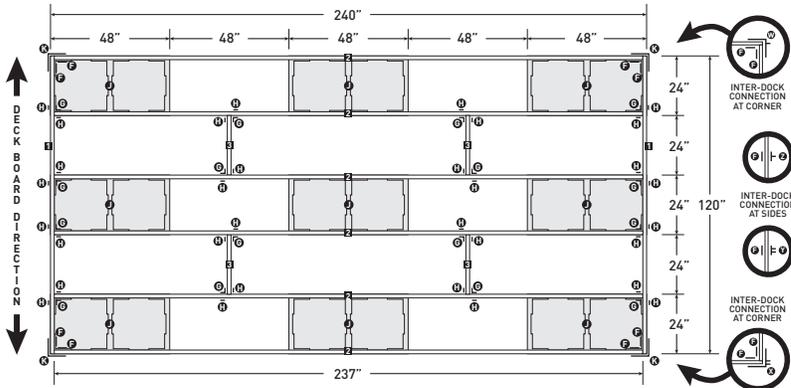
## 6' x 20' Floating Dock



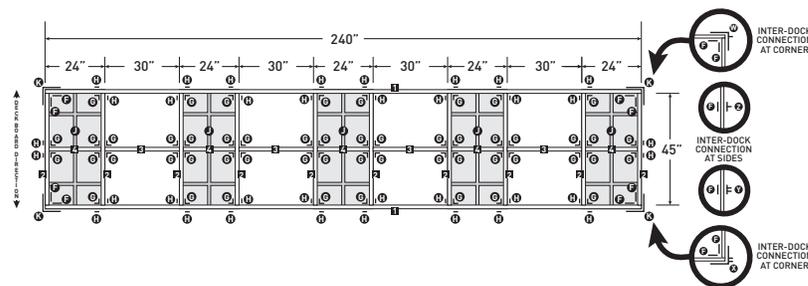
## 8' x 20' Floating Dock



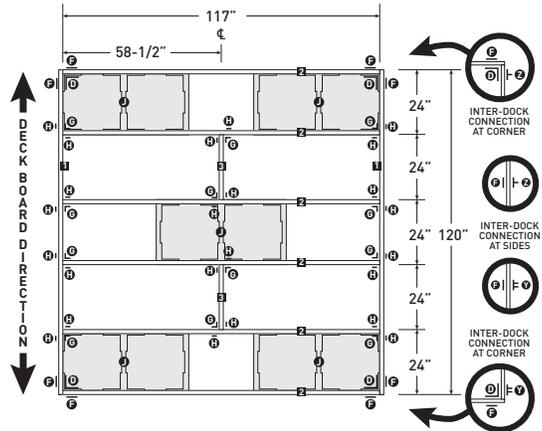
## 10' x 20' Floating Dock



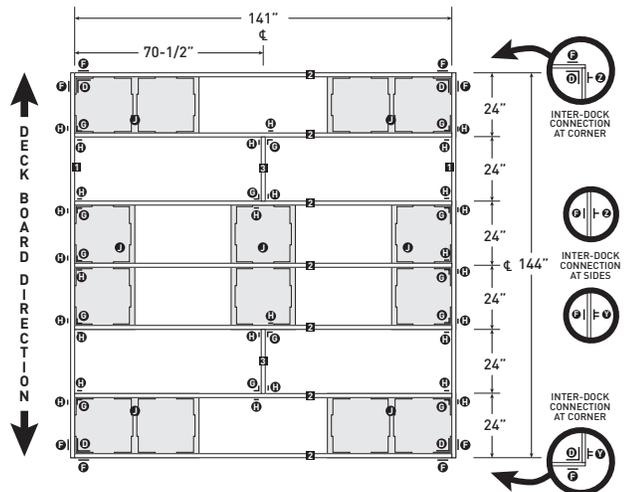
## 4' x 20' Finger Dock



## 10' x 10' Swim Dock



## 12' x 12' Swim Dock



For your convenience, larger versions of these plans are available for download at [www.dockedge.com](http://www.dockedge.com)

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