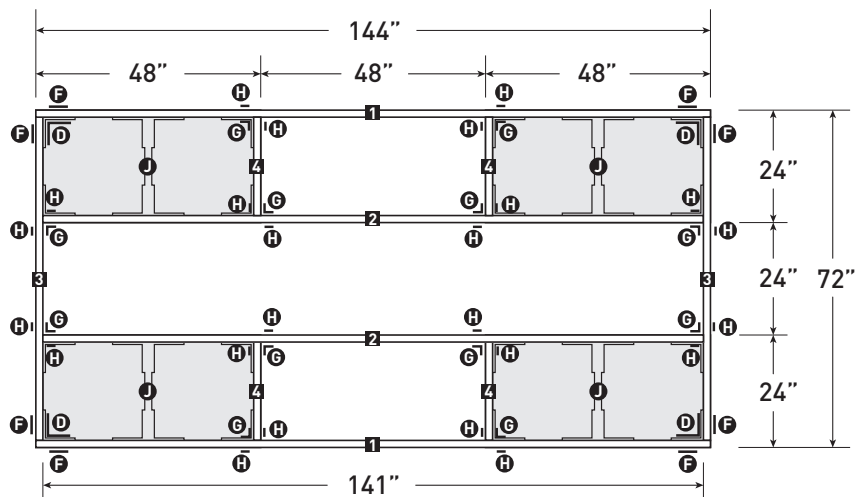


USE BLUE LABELLED OR BLUE DOT ● COMPONENTS FOR FLOATING DOCK CONSTRUCTION

HOW TO BUILD A 6' x 12' Floating Dock

1 Assemble main framework. Drill holes for 93-122-F.

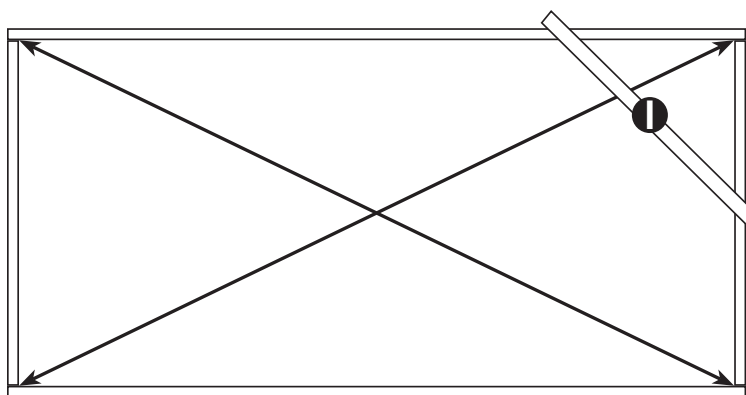


DESCRIPTION	LENGTH or PART #	QTY.
1 - End Stringer	2" x 6" x 144"	2
2 - Center Stringer	2" x 6" x 141"	2
3 - Side Stringer	2" x 6" x 69"	2
4 - Cross Stringer	2" x 6" x 21"	4
D - Inside Corner	92-104-F	4
F - Backer Plate	93-122-F	8
G - Joist Corner	99-002-F	12
H - Washer Plate	99-006-F	24
E - Carriage Bolt	1/2" x 2 1/2"	80
V - Lock Washers	1/2"	80
T - Nuts	1/2"	80

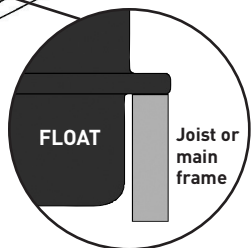
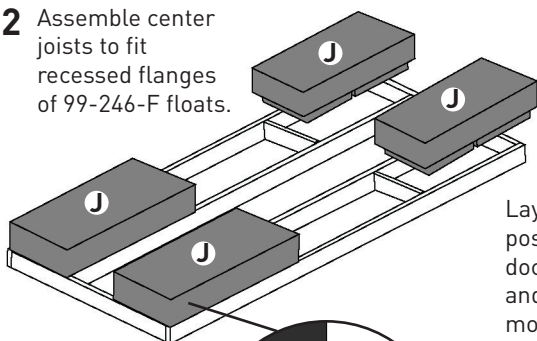
Note: items E, V & T are all included in packages of 8 in Hardware Fastening Kit 85-100-F.

Squaring Your Dock Structure

Lay the dock frame upside down on a flat surface in order to easily install floats. 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 Assemble center joists to fit recessed flanges of 99-246-F floats.



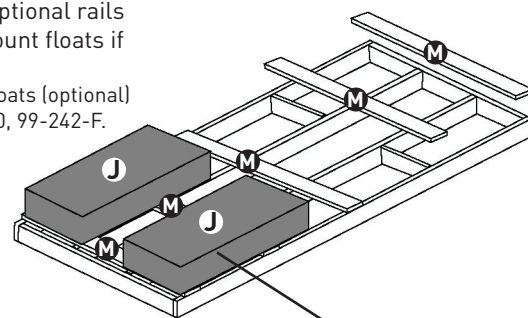
Lay floats into position on the dock framework and mark each mounting hole location. Drill 3/16" pilot holes at each location to be used.

Note: floats may be secured to framework & stringers. For flush mount floats such as the Howell™ 400, 99-242-F, refer to Step 2a.

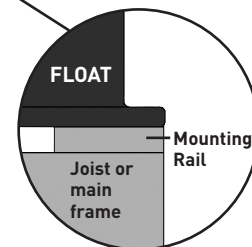
DESCRIPTION	PART #	QTY.
J - 550 Float	99-246-F	4
Float Fastener Kits	85-125-F	3

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

For flush mount floats (optional) using Howell™ 400, 99-242-F.

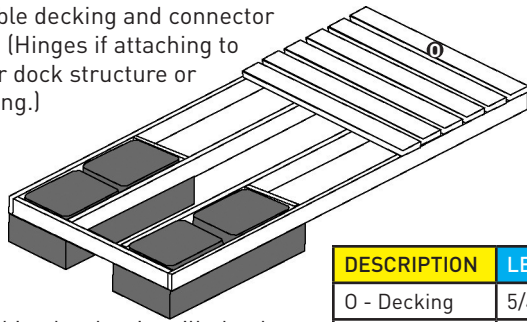


Lay floats into position on the mounting rails and mark each mounting hole location. Drill 3/16" pilot holes at each location to be used.



DESCRIPTION	PART #	QTY.
J - 400 Float	99-242-F	5
M - Optional float rails	2" x 6" x 72"	7
N - Screws	#10 x 3"	80
Float Fastener Kits	85-125-F	4

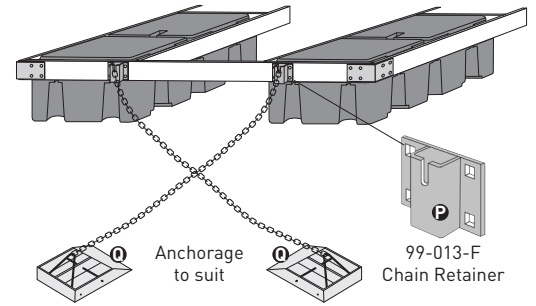
3 Assemble decking and connector hinges. (Hinges if attaching to another dock structure or shore footing.)



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

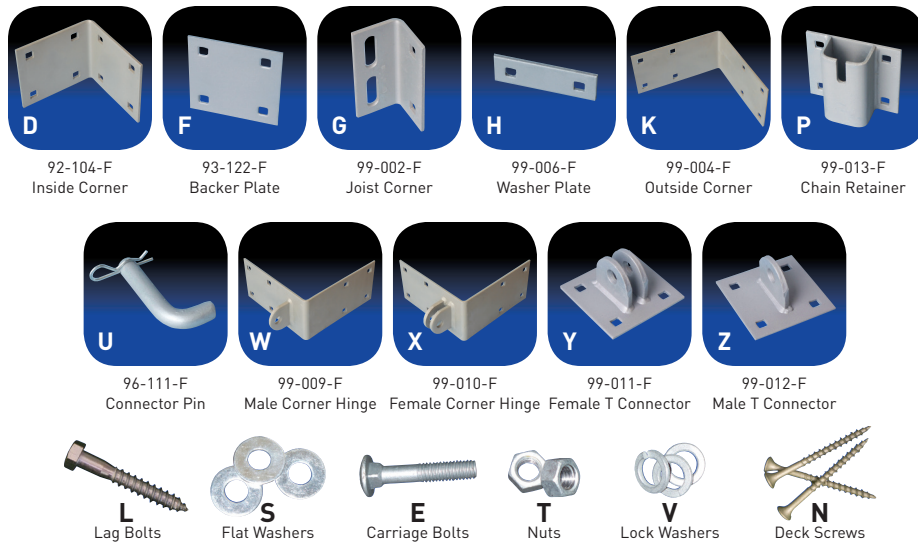
NOTE: Decking lumber is milled to have one "cap" or "crown" surface which will allow water to flow away from the deck surface. When mounting the deck boards to the dock frame it is recommended to fasten the decking "cap"/ "crown" up.

4 FLOATING DOCK ANCHORAGE



DESCRIPTION	LENGTH or PART #	QTY.
P - Chain Retainer	99-013-F	2
H - Washer Plate	99-006-F	4
Galvanized chain	5/16" x 48' approx	1
Hardware Fastener Kit	85-100-F	1
Q - Anchorage	Min. 125lb ea.	2

Hardware & Fasteners required (referenced by item letter)



Tools Required for the average Dock Build

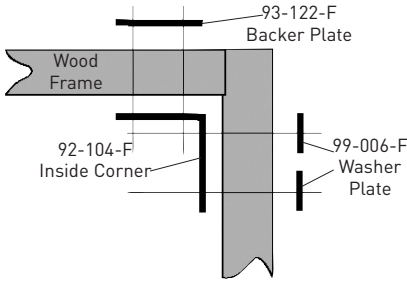
(excludes sizing/cutting of structural wood members)

- 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

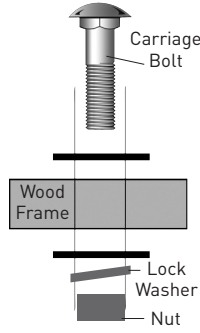
Hardware Requirements for Other Dock Sizes

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	99-002-F	12	14	8	20	16
H - Washer Plate	99-006-F	24	28	16	40	32
D - Inside Corner	92-104-F	4	4			
F - Backer Plate	93-122-F	8	8	8	8	8
K - Outside Corner	99-004-F			4	4	4
J - Howell 550 Float*	99-246-F	5	7	6	8	9
J - Howell 400 Float (alternate)	99-242-F	6	9	8	10	13
Hardware Fastener Kit (8 pack Carriage Bolts, Lock Washers & Nuts)	85-100-F	10	11	8	14	12
Float Fastener Kit (8 pack Lag Bolts & Flat Washers)	85-125-F	5	7	6	8	9
P - Chain Retainer	99-013-F	2	2	2	2	2
W - Male Corner Hinge	99-009-F			1 or 2	1 or 2	1 or 2
X - Female Corner Hinge	99-010-F			1 or 2	1 or 2	1 or 2
U - Connector Pin	96-111-F	2	2	2	2	2
Z - Male T Connector	99-012-F	1 or 2	1 or 2			
Y - Female T Connector	99-011-F	1 or 2	1 or 2			

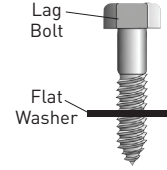
Important Tips



Always use washer plates (99-006-F), backer plate (93-122-F) 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**



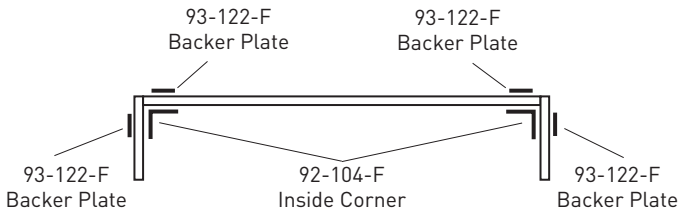
Howell™ 400
99-242-F



Howell™ 550
99-246-F

Optional Floating Dock Hardware and Connector Hinge Placement

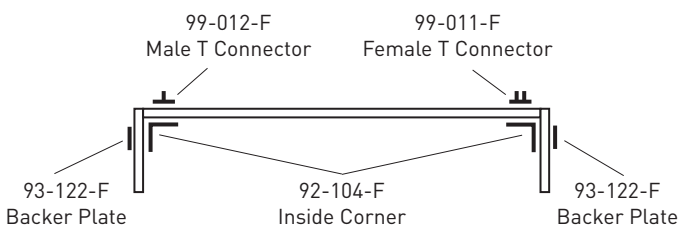
Hardware for docks up to 12 ft. in length



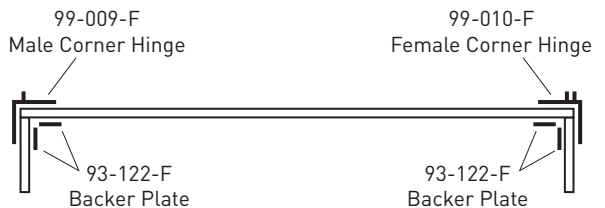
Hardware for docks over 12 ft. in length



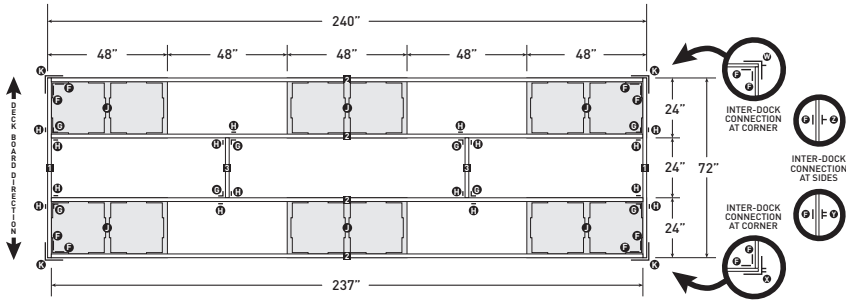
Connectors for docks up to 12 ft. in length



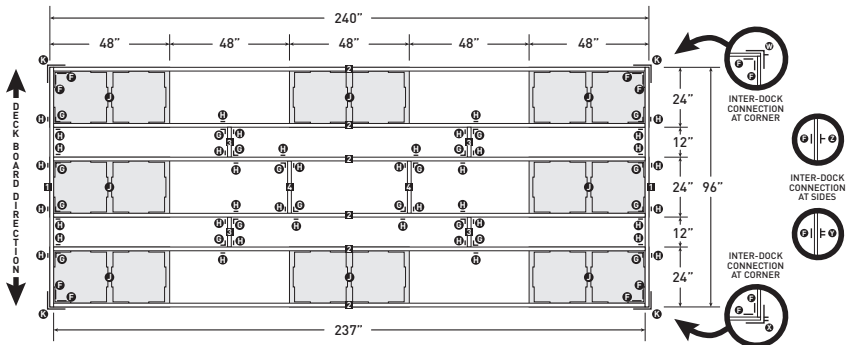
Connectors for docks over 12 ft. in length



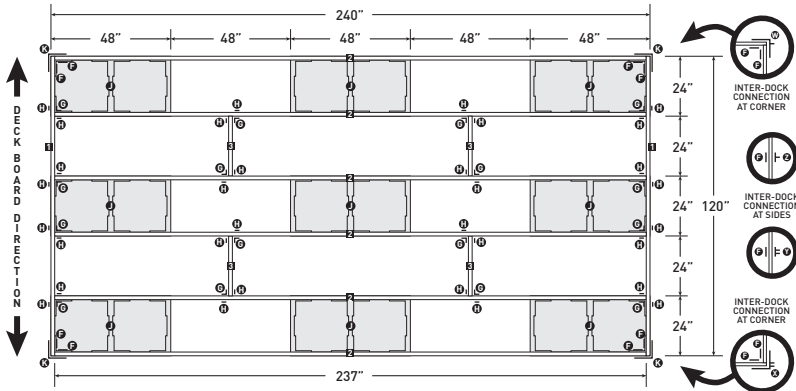
6' x 20' Floating Dock



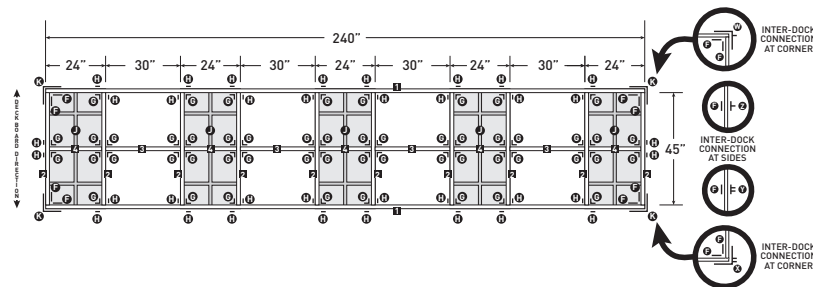
8' x 20' Floating Dock



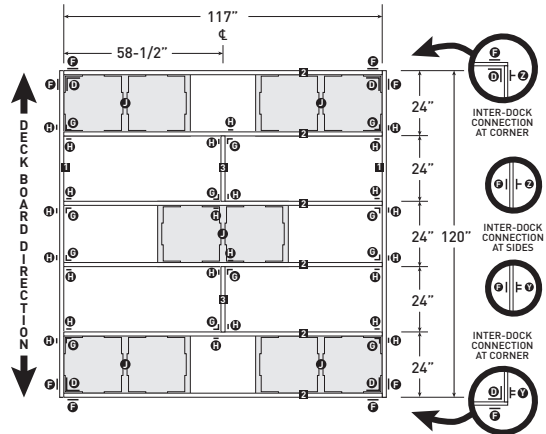
10' x 20' Floating Dock



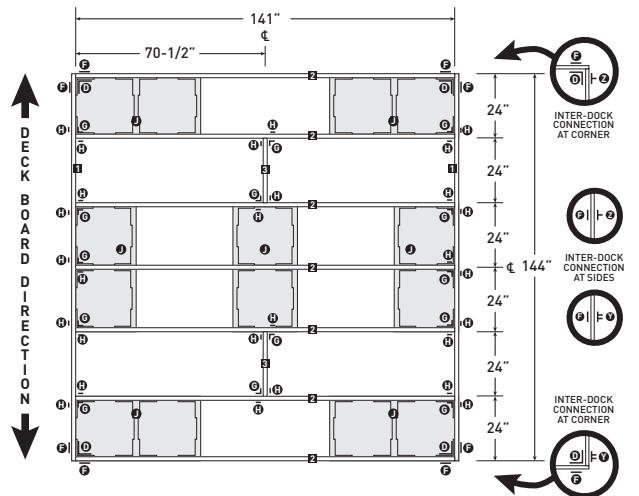
4' x 20' Finger Dock



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

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