


PILE IT

FLOAT IT

ROLL IT


QPF-500™ Aluminum Dock Assembly Guide

SAFETY FIRST

Please read these instructions before assembling your new dock, to ensure that assembly is done safely and correctly.

- All bolts and nuts are tighten securely before using your new dock.
- DO NOT modify this dock system, as alterations or repairs will void the warranty.
- Always wear personal safety protection such as safety glasses, work gloves and boots.
- Keep children and pets clear of work area during assembly.
- This structure will support up to 4 people or 800 lbs (365 kg).
- DO NOT use corded electrical tools in or near water.
- During installation in the water, even small waves can cause the sections to move. Beware of the gaps between dock sections to avoid injury to fingers or toes.

INSTALLATION REQUIREMENTS

- A fixed dock is ideally suited for water depths under 4 feet.
- A fixed dock is not built to withstand pressure or tension caused by moored boats wether in agitated or calm waters. We recommend independent mooring; deadman blocks, chains & mooring buoys to keep the boat away from dock, preventing contacts.
- Where rough condition are foreseeable or if piles are used to their full lengths, you should increase the dock's stability by adding diagonal braces to the piles (item # 10025).
- Always be 2 adults or more to build and install your dock. Assemble dock while on solid ground and then bring it to water to install.

MAINTENANCE

ALUMINUM FRAME : There is no maintenance required on the aluminum frame itself. Due to air and water exposure, a light tarnish may appear. Simply rub the frame with a plastic rubbing pad to remove light scratches, though tarnish or light scratches will not affect the strength or integrity of the dock.

WOOD DECKING : Important- Your aluminum frames should never be in contact with green ACQ treated wood. We highly recommend cedar, ecological and light, or the new brown pressure treated wood. Refer to your wood supplier if you want to apply a protective product. Because of ice movements, never leave docks in the water for winter.

Required tools

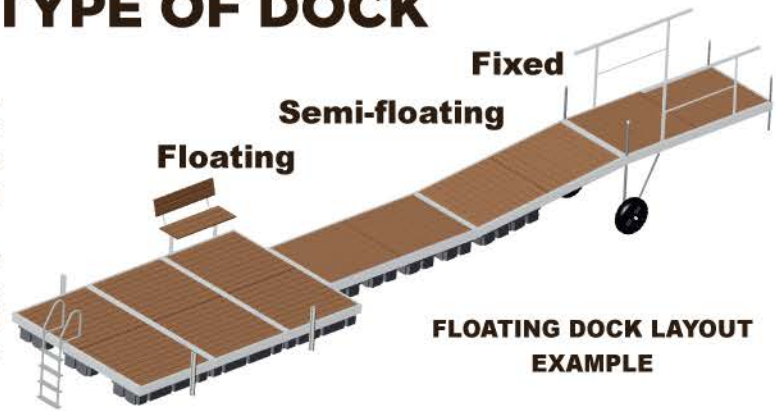
- | | |
|--|---|
| <ul style="list-style-type: none"> - Ratchet with 9/16" socket (to assemble the center joist) & 3/4" socket (for some accessories) - Cordless drill with <ul style="list-style-type: none"> 3/8" socket (for self-tapping screws) and 1/8" metal drill bit (if needed), 11/64" drill bit & square bit #2 (to assemble decking) - 1/4" hexagonal key (Allen key for corner leg holders) | <ul style="list-style-type: none"> - Tape measure - Utility knife or scissors - Felt-tip marker - Hammer or small sledgehammer - Saw |
|--|---|



DETERMINE YOUR TYPE OF DOCK

Multinautic®'s QPF-500™ Aluminum Dock allows configurations and installation on posts (adjustable height), on wheels or on floats making this dock "hybrid". Thanks to its Twintrack™ all around, its amazing versatility allows you to adapt your layout year after year to fit your needs.

A good way to help you make the right decision on the choice of your dock is to look at the ones your neighbors have. If their docks have been there for a few years and are still in good condition then a similar configuration may be good for you.



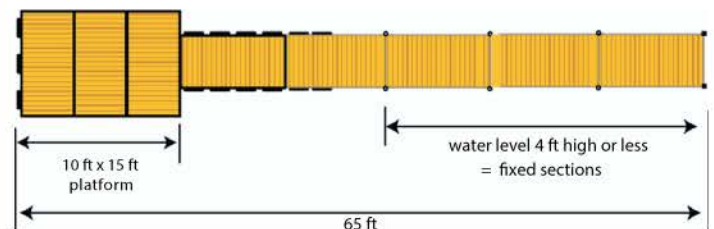
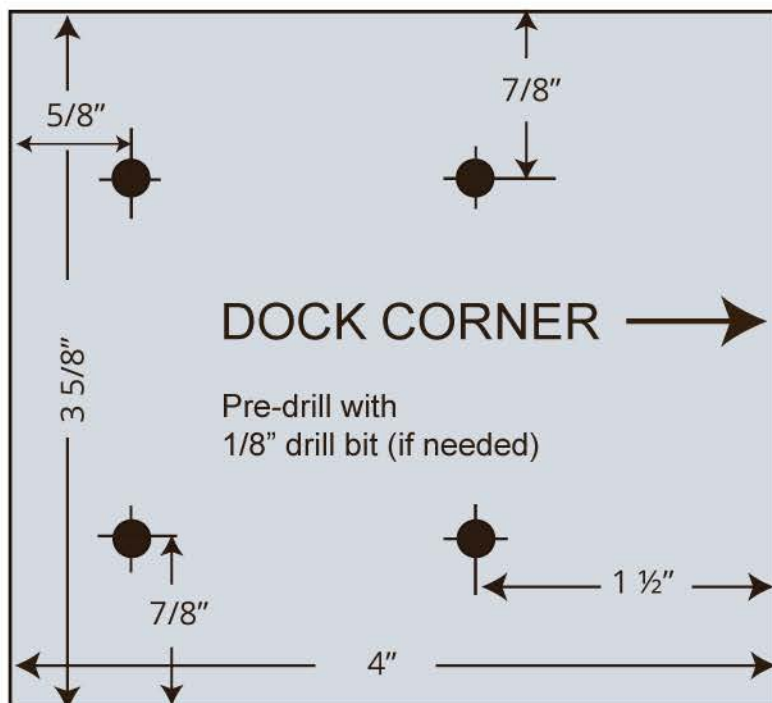
STATIONARY DOCK

1. You do not want to install a Stationary Dock in more than 4' of water for the simple reason that you'll have water over your head and that you'll also find that the water in the spring and fall is rather cold when you do your initial installation and storage therefore, plan on wheels!
2. A Stationary Dock is ideal in shallow water especially near the shore where the water level fluctuates during the season. A Dock on wheels is ideal for water plans where the bottom is level and this facilitates the installation, distance adjustment and the removal in the fall.
3. A Stationary Dock (or on wheels) is also recommended if your location has bad weather that can create waves of more than 3' high. You will most certainly need an elevator or a boat ramp to hoist your boat out of the water or you will need to anchor your boat away from the dock. It is also possible that your dock will require an anchor blocks. You cannot rely on this to moor your boat in times of stormy weather.
4. A Stationary Dock is not the right choice on a water plan where the level of water often changes more than 2' in a short period of time. You do not want to constantly adjust your Dock during the season.

FLOATING DOCK

1. A Floating Dock is perfect for a layout in more than 4' of water. You'll be using one or more sections of a Stationary Dock near the shore and continue with a semi-floating section then finish with one or more floating sections.
2. A Floating Dock is also ideal in a lake or river where the water level fluctuates on a regular basis. It will always remain at the same height of the boats that are moored to it.
3. A Floating Dock cannot be installed on a water plan that generates waves of more than 3' high because they can damage the dock, break the dock hinges and at the same time damage boats that are moored.

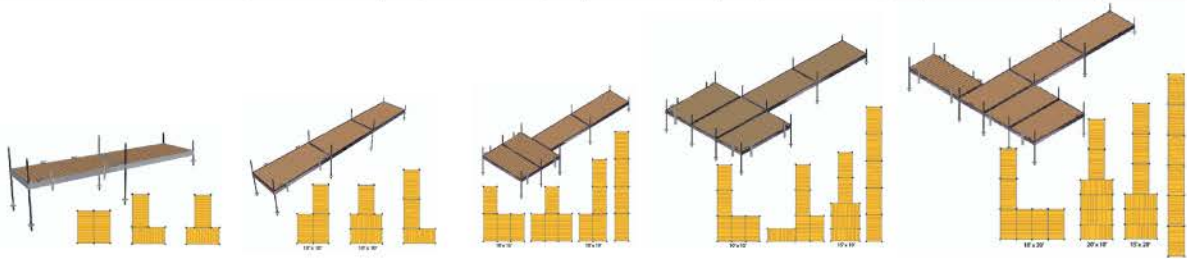
The stability of a floating dock system depends much on its surface and its size. That is to say, it is difficult for a dock to be more stable than a boat of the same size. Eg. An aluminum boat 16' is almost 5' wide and it is not very comfortable when standing up. By cons, a pontoon 8' wide is much more... So, we recommend VERY strongly to create a platform at the end of your dock to stabilize everything! In addition, you should join the sections of this platform with the "fusion connectors" #22040. This way, your dock will be much more stable and you will enjoy it more. Note that it is always possible to add some after completing the installation if you need it.



Below is the listing of all components included when you purchase a complete QPF-500 Hybrid Dock™ Kit.
(product numbers 19501 to 19506 and 19531 to 19536).
You may combine kits to fit your needs.

FIXED DOCK KITS

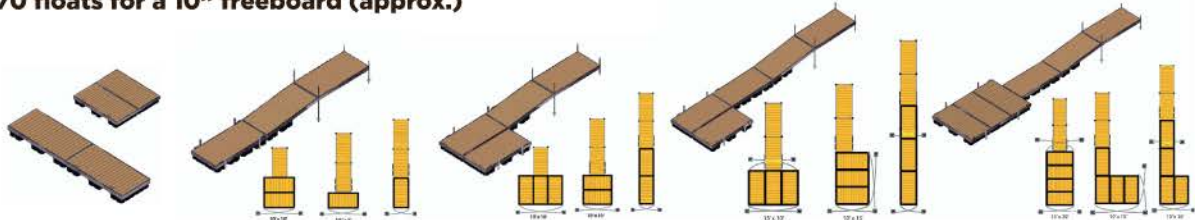
	#19501 (1)	#19502 (2)	#19503 (3)	#19504 (4)	#19505 (5)	#19506 (6)
DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY
ALUMINUM FRAME TO BE ASSEMBLE	1	2	3	4	5	6
3' POST	0	2	2	2	2	2
6' POST	0	2	2	2	2	2
8' POST	2	2	4	6	8	10
PVC CAPS	2	6	8	10	12	14
6" x 6" BASE PLATE	2	6	8	10	12	14
8" ALUMINUM MOORING CLEAT	0	4	4	4	6	8
DOCK HINGE + AXEL PIN (UNIT)	2	3	5	7	9	11
VERTICAL BUMPER (BOX OF 2)	0	1	1	2	3	3
1" T-BOLT & NUT	0	8	8	8	12	16
1 ½" T-BOLT & NUT (FOR HINGES)	8	12	20	28	36	44



FLOATING DOCK KITS *

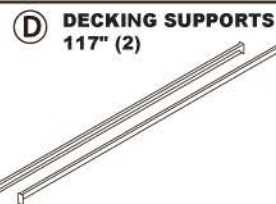
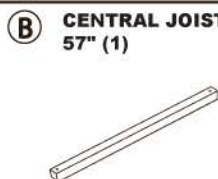
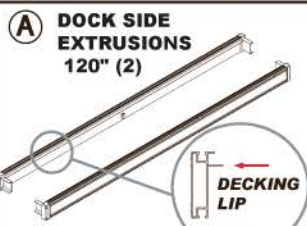
	#19531 (1)	#19532 (2)	#19533 (3)	#19534 (4)	#19535 (5)	#19536 (6)
DESCRIPTION	QTY	QTY	QTY	QTY	QTY	QTY
ALUMINUM FRAME TO BE ASSEMBLE	1	2	3	4	5	6
3' POST	0	0	2	2	2	2
6' POST	0	0	2	2	2	2
PVC CAPS	0	0	4	4	4	4
6" x 6" BASE PLATE	0	0	4	4	4	4
8" ALUMINUM MOORING CLEAT	0	2	4	6	6	6
DOCK HINGE + AXEL PIN (UNIT)	2	3	5	7	9	11
VERTICAL BUMPER (BOX OF 2)	0	0	2	2	3	3
R-370 24" x 60" x 8" FOAM FILLED FLOAT	3	6	6	9	12	15
ANCHORING CHAIN HOOK (PAIR)	0	1	1	1	2	2
FUSION CONNECTOR (PAIR)	0	1	0	0	0	0
1" T-BOLT & NUT	0	8	12	16	20	20
1 ½" T-BOLT & NUT (FOR HINGES)	8	12	20	28	36	44
2 ½" T-BOLT & NUT W/FLAT WASHER	12	24	24	36	48	60

* With R-370 floats for a 10" freeboard (approx.)



The dock structure alone (product # 19507)
needs to be completed with all necessary accessories for your layout: hinges, posts, floats, bumpers...

QPF-500 HYBRID DOCK™ BOX CONTENT (product # 19507)



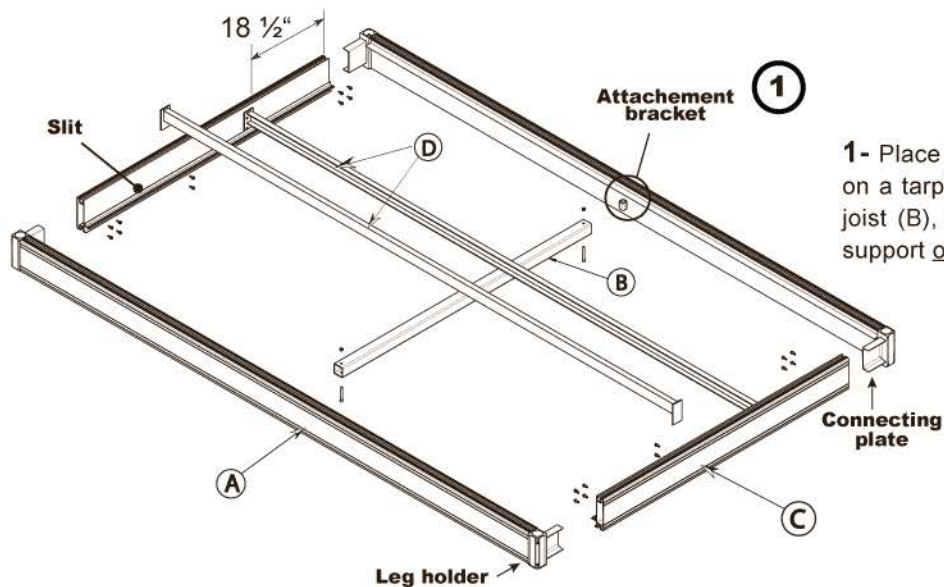
HEXAGONAL BOLT, LOCK WASHER & NUT 3/8" x 2 ½" (2)

SELF-TAPPING SCREWS #14 x 3/4" (26) (2 extra)

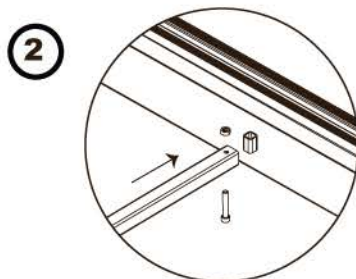
SET SCREW FOR POSTS ½" (8)



ALUMINUM FRAME ASSEMBLY

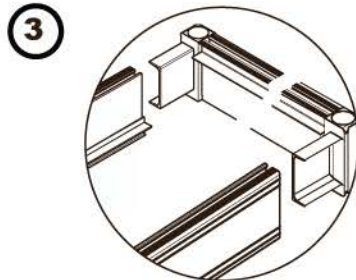


1- Place the 2 side extrusions (A) on a flat surface (ideally on a tarp), with the decking lip support on top, the central joist (B), and the two end pieces (C) with the decking lip support on the bottom.



2- Insert the central joist (B) in the attachment bracket of one of the side extrusions (A).

3- Slide the 2 end pieces (C), decking lip on the bottom, on the connecting plates of this side extrusion.

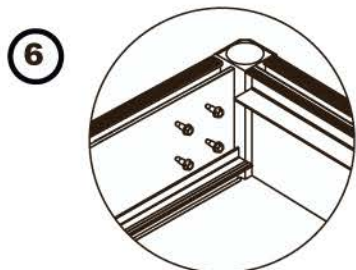


4- Insert the second side extrusion (A) in the two end pieces (C) and slide in slowly, going to one side then the other (be careful to insert the central joist (B) in its attachment bracket (D) before it's all in), hitting with a plastic hammer if necessary (protect with a piece of wood prior to hit with the hammer) to make sure that insertion will be to the bottom, and bolt the central joist (B) in its attachment bracket of the other side extrusion with the rachet.

5- Cut out the paper template at page 2 of this guide, perforate the 4 holes and place it in the slit and against the corner leg holder (picture #1). Use it to mark the end pieces at their ends (C) with a felt-tip pen. Screwing into aluminum with these screws is as easy as into hard wood but if you wish to pre-drill, use a 1/8" drill bit.



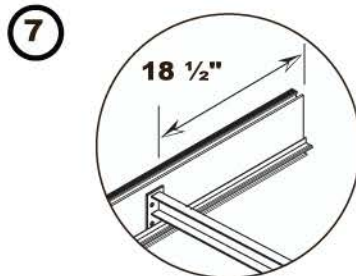
6- Use the self-tapping screws #14 x 3/4" and screw them in the marks you have made to secure the connecting plates with a ratchet and a 3/8" socket. Do not tighten to more than 22 lb of pressure (or about 1/6 of a turn or +/- 60 ° once the screw is pressed on the surface. If a screw breaks or the tap or the thread dulls, resume the operation by moving the screw towards the inside of the 4 marks (this will not affect the solidity of the dock and note that you have 2 extra screws).



7- Mark the end pieces (C) at 18-1/2" from each sides and insert the decking supports in the gap, centered to those marks.

If the support seems a little too long, you can push with your foot and pull as on picture #2 or you may adjust the end plates by hitting them lightly with a plastic hammer (picture #3)

Confirm the parallelism of the decking supports with the side extrusions and adjust if needed. Make sure that the end plates of the supports are well inserted deeply to the bottom of the slit (picture #4). Then screw the end plates of those supports in the dock end pieces with 2 self-tapping screws at each ends.





DECKING ASSEMBLY

To facilitate the handling of your dock and decking, you can assemble it into 1 or 2 sections (or panels) which will allow you to lighten the dock and ease installation and removal. You can then add the panels on your dock once it is in the water.

Once the dock frame assembly is put together, install it at about the height of a table with 4 leg piles, to ease the making of the decking. You will assemble the decking panel upside down in order to facilitate your work and you'll flip it back later, so, install the planks with the smooth (best) side down flush into the dock side support lips and leave an equal space between each board (approximately 3/8 in.).

Once all is positioned flush on one side, place the two 10 ft wood stringers at about 6 in. from the sides and screw in place. You should pre-drill those supports with an 11/64 in. bit to prevent cracking (at least at the ends). Make sure that no space is created between wood supports and decking boards when adding the screws.

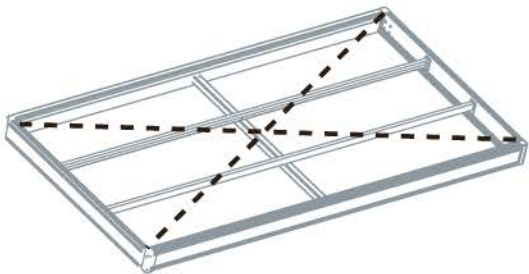
MATERIAL NEEDED for a 5' x 10' dock section

11 cedar boards 5/4" x 6" x 10' *

cut as following :

	Size	Quantities
DECKING BOARDS	5/4" x 6" x 56-3/8"	20
STRINGERS	5/4" x 2" x 10'	3
* 5/4" = 1" sawn		
WOOD SCREWS	1-3/4" # 10 (or # 8)	130

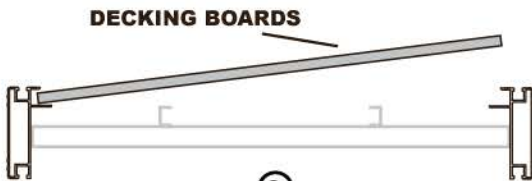
Also pre-cut Red Cedar Decking Kit available (# 21182).



⑧

Step 8

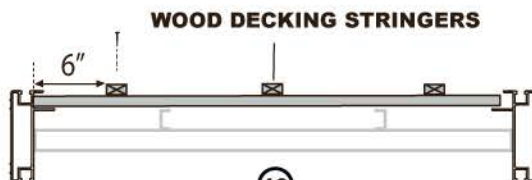
Check the squaring of the structure by taking an "X" measurement from corner to corner. The dimensions should be the same (+/- 1/4").



⑨

Step 9

Insert decking planks in the opening of the side extrusion, the nice side underneath, and push them at the end of this opening (you will have plenty space on the other side). You will make the decking upside down, and you will have to flip it over at the end.

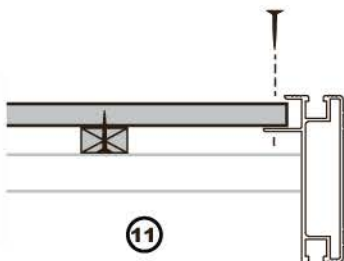


⑩

Step 10

You can cut your wooden stringers in 5ft lengths to make two smaller panels instead of 1 long and heavier panel. Place supports at 6" from the 2 sides and in the center.

Before you screw the planks (6 screws / plank), make sure that the stringers are parallel and that the spaces between the planks are equally distributed on both sides.

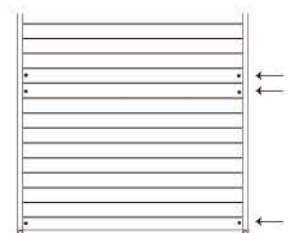
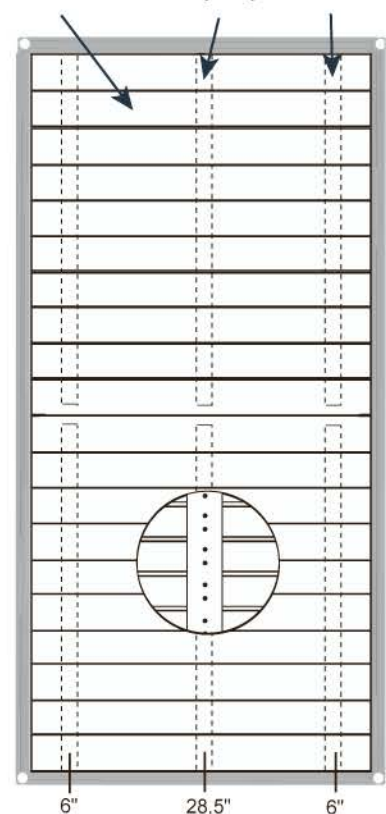


⑪

Step 11

Flip up your panel(s), put in place by distributing equally on both sides, then drill 11/64" holes at the 4 corners of each panels and secure them with screws.

20 CUT AT 56 3/8" 1 SLICED IN 3 (or 6) LENGTHS





ACCESSORIES

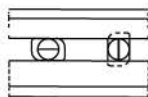


Image 1

The versatility of Multinautic® 500 Series Dock™ is due to its "Twintrack System"™. Floats & accessories can be installed all around the structure & then moved to fit your needs thanks to special "T Head" bolts.

The line at the tip of the "T"-bolt indicates the position of its head and confirms that it's in the right position for tightening with a 3/4" wrench (at 90 degrees with respect to the track (image 1).

Use **2 1/2"** "T"-bolts with flat washers to install floats in the bottom track (4 bolts per float);

1 1/2" "T"-bolts are intended for hinges installation.

All other accessories (vertical bumpers, mooring cleats, anchor chain retainers...) are to be attached with **1" long** "T"-bolts.

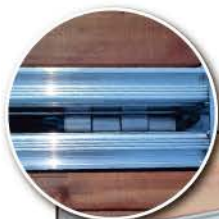


Image 2



Hinges # 22041

Dock hinges should be installed in bottom track, at corners of dock ends.

However, if the two dock sections could bend for more than 20 degrees (image 2), it is suggested to install the hinges in the top rail (image 2).



Fusion Connectors # 22040

The flex-free fusion connectors prevent the dock from moving at junctions, creating a solid deck to enjoy, even under wavy conditions.

Must be installed on floating dock sections equipped with connector hinges #22041.

Once the nuts installed underneath reach the bottom plates, do not tight them more than one quarter of a turn or they will be hard to loosen for storage in autumn or if you wish to modify your dock configuration in summer. After the installation, be sure to tighten securely the leg holders set screws and check them periodically.



2 1/2" "T" bolts

Multinautic® Aluminum Mooring Cleats

Designed with a 22° angle, the head of the cleat is further away from boat's hull.



15110 8" 15107 10"

Vertical bumpers



22045

Bench



22047

8' Handrail



22048

Triangle frame



22051

INSTALLATION

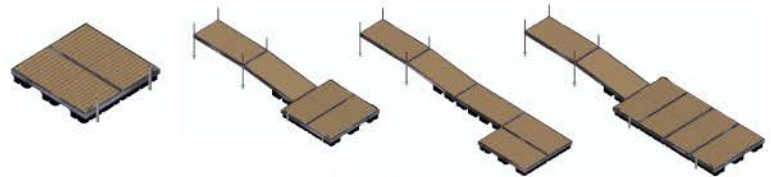


FREEBOARD

The freeboard which is the height of the dock relative to the water surface should be chosen depending on the primary use you are planning for your dock.

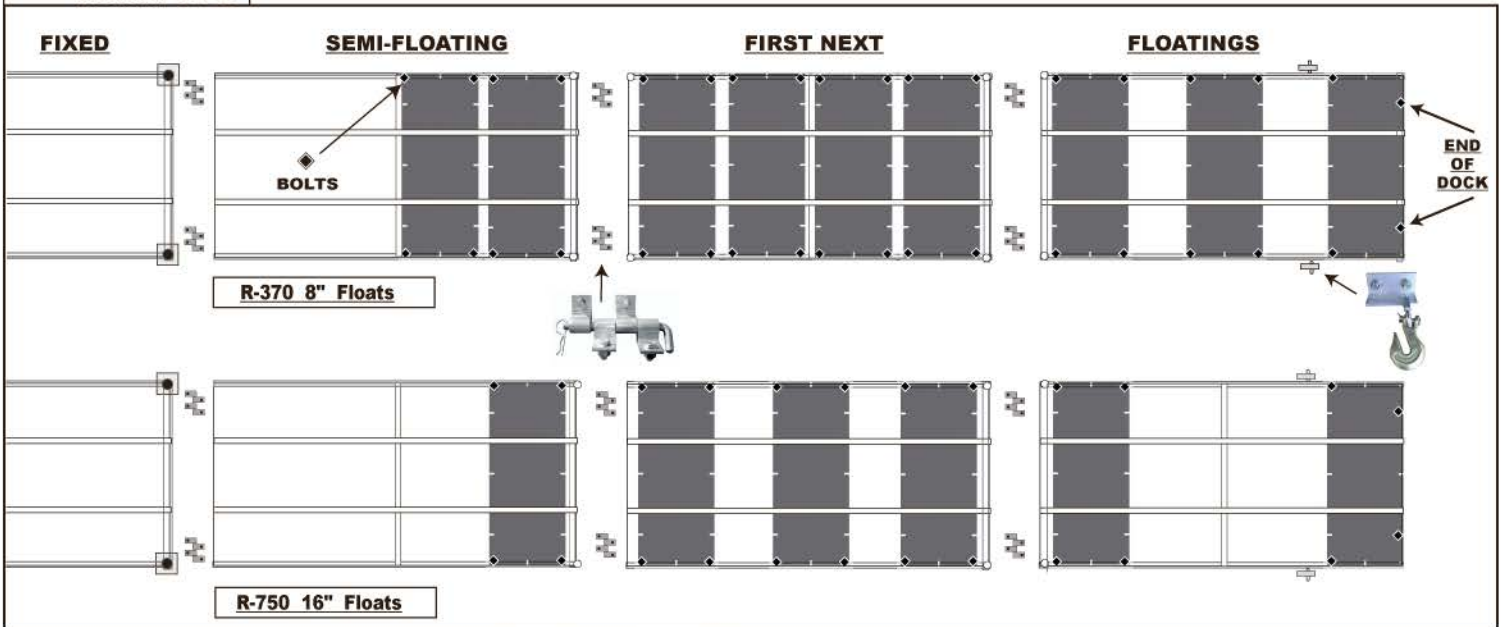
Will it be used only for swimming? Will you be using Kayaks (low) or Pontoons (high)? The answers to these questions will help you to choose the height and therefore, the kind of floats you will install.

We demonstrate in this guide the installation of 2 different sizes of Multinautic® Floats. Their length is perfect for your dock width sections. These floats are sought by Canadian dock manufacturers because they meet the requirements of our Nordic climate. Position the floats as shown on the plans below depending on float size to be install.



Suggested Layouts

R-370	24" x 60" x 8"
	freeboard of ± 10"
R-750	24" x 60" x 16"
	freeboard of ± 18"



Install base plates on leg piles, leaving approximately 15 cm (6 in.) under the plate (a little more is required for soft lake bottoms, a little less when lake bottom is very hard). Tighten securely.

When installing, pound pile (protecting post top end with a piece of wood) untill base plate reaches ground then adjust dock height with leg holders screws.



Post	Base plate
#10009 6 ft	#11107 6 in x 6 in
#11005 8 ft	#11108 6 in x 12 in

If needed, add a wheel kit or more to ease installation and removal of docks.

It allows displacement of dock away from or to the shore, depending on water fluctuations. We recommend to anchor docks on wheels with chains & concrete blocks.





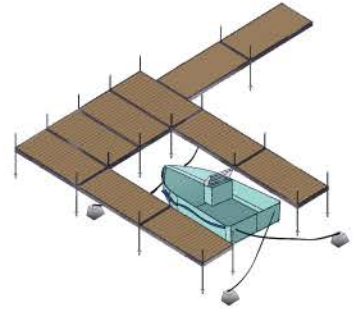
SUGGESTIONS ON HOW TO ANCHOR A DOCK

STATIONARY DOCK

Normally, (except in areas where large waves can hit the dock) it is not required to anchor the stationary dock itself. Piles (O.D. 1 11/16"), equipped with base plates, being driven into the bottom of the water will ensure stability. You should anchor any boat with separate moorings in a way that it will not hit or scrape on the docks, therefore protecting the boat and the docks. If your docks are installed in a shallow area, you should be able to install the anchoring blocks easily. Some places require a boat lift installation. In rough areas, plan ahead for diagonal braces and/or anchoring.



Diagonal brace



FLOATING DOCK

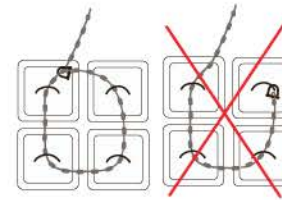
A floating dock system absolutely requires an anchoring system at the end of the dock and every +/- 30 feet. It is the anchoring weights that will hold the docks in place since there are no piles and that the docks are submitted to lateral pressures by wind, waves and boats. Anchoring chain hooks should be installed everywhere you plan on anchoring. To install the anchoring weights, lay them on the floating dock, a piece of cardboard or wood to protect the decking, group the appropriate amount of weights for each corner. The chain (calculate around 3 times the depth to create the "X" shape) will then be attached to the required blocks for one corner. Move the dock over the desired dropping area and then sink them in the water retaining the end of the chain. Keep a little tension on the chain, attached it to your chain holder at the opposite corner then cut it, keeping 2 extra feet for further adjustments. Do the same steps on the opposite side.



TYPE AND CHOICE OF ANCHORING BLOCKS

Your local concrete products retailer should be able to provide necessary weights, which could be used as anchors. Your local hardware store will have the chain in stock. Make sure you conform with local regulations to use the concrete as anchors, otherwise replace the material.

The blocks should be of a weight of around 125 lb each and of square shape (+/- 1' x 1' x 1') in order to limit their movements once on the bottom (filling a pail is not a good idea as it will roll once on its side). A length of chain with a bolt or a knot at the end can be used as a hook (when pouring concrete blocks yourself, include in the concrete to attach to it later). Different types of bottom such as clay may also affect the capacity of the anchor holding, so adjust accordingly. Muddy bottom usually offers a very good anchoring.



Evaluate the positioning to avoid interfering with berthing or bathing !

The chain should be rated as: 5/16" galvanized, grade 30 (regular). Suggested chain length equals 2 to 3 times the water depth. We also suggest that you use galvanized shackle at the underwater attachment, not a zinc plated quick link!

It is also suggested to anchor the dock system at all 4 corners of the dock on which the boats are attached to (see drawing). If you expect to host other boats during summer, evaluate your needs accordingly.

MINIMUM ANCHORING EXAMPLES IN CALM WATER AREAS

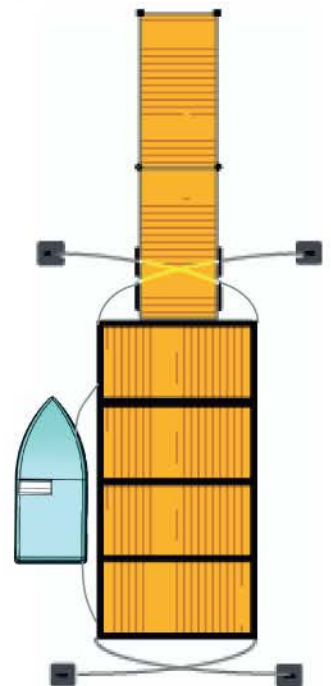
- Small crafts, less than 15', e.g. Canoes, Kayaks, Aluminum Boats or PWC (maximum of 2 crafts):
+/- 200 lb per chain on each side.
- Pleasure crafts less than 19' or around 2500 lb each (maximum of 1 craft):
+/- 350 lb per chain and on each side.
- Pleasure crafts, Ski or Wakeboard Boats, less than +/- 23' or +/- 4000 lb each (maximum of 1 craft):
+/- 500 lb per chain and on each side.
- Pontoon boat with camper roof, which will catch in the wind:
+/- 650 lb per chain and on each side.

Take note that the concrete will loose one third of its weight under water.
That's way we suggest that much



WARNING:

These are examples and general suggestions only. We try to do our best to guide you with your project. However, some areas may require different anchoring methods than described here. We can not account for differing circumstances. We cannot be held responsible for any incident or damage that may occur because of the use of the techniques described in that document or on our web site. Updated guides are periodically posted on our web site www.multinautic.com.



These technical drawings, illustrations and /or information are not to be substituted at any time, in whole or in part, for certified engineered drawings and are intended as general guidelines only.

SUGGESTIONS FOR INSPECTION AND MAINTENANCE

Frame maintenance: A regular visual inspection of every structural parts, like the junction between frames, or corner and leg holders or other welded or bolted areas is mandatory and accurate record of such inspection must be kept and provided to Multinautic® when making a warranty claim. Check for cracks, failure or loose bolts. Immediately proceed to repairs, to avoid further damages or injuries.

Anchoring maintenance: Anchoring chains, shackles, quick links or any other attaching parts are subject to rust and will generally not last more than a dozen of years (some area or water type can cause rust to be more aggressive) and therefore, the whole system used at dock level and at anchoring (bottom) need a periodic inspection. Please refer to your insurance company or your municipal, state or provincial laws to know when to proceed. We believe that a periodic revision and replacement when needed is better than waiting to have a break and damages. Multinautic® assumes no liability or responsibility whatsoever regarding installation and anchoring of its products and it is the owner or purchaser's sole liability and responsibility to check his or her dock's anchoring condition and to act accordingly.

When to inspect: Every dock must be visually inspected at least each month and after every storm, strong winds and waves or conditions or event which may have damaged or loosen the dock system.

Keeping proof of inspection and maintenance: Written proofs of all inspection and maintenance of the dock, since the date of its purchase, must accompany and is a condition to asserting any warranty claims under the applicable Multinautic product limited warranty. The customer must accordingly, when performing inspection and maintenance of the dock, fill and keep current an inspection and maintenance record form listing this information.

SUGGESTIONS FOR WINTERIZING OF DOCKS

Stationary docks: ALWAYS remove stationary docks from the water and store properly on the shore, in a manner so that the stationary docks may not become damaged, including but not limited, over a rock or other object susceptible of damaging the docks. Remove all posts and stack them one over the other, the one on top upside down (to avoid fading).

Floating dock removal: Floating docks should be removed from water, mostly from any area where the ice or other floating objects will be moving, water levels fluctuate or current occurs. Unhook anchoring chains, attach them together, tie them to a long floating rope (e.g. regular yellow rope) and let it float! Ensure rope is long enough to retrieve chain in springtime. To remove the floating dock section from the water, create ramp from 2" x 8" boards, and slide the dock on. The "green slime" formed on the bottom of the floats should help the sliding when pulling the dock in and out of the water, but make sure to take all other measures to ensure easy sliding and that no damage occurs. You may also use a winch to facilitate your work, provided the specifications of said winch are appropriate for the size and weight of the dock and provided appropriate precautions are taken to avoid all damages to the dock, other property or persons. Watch the floats so they do not scrape or hit on any rock or other object that could damaging them.

Accessories removal or disconnecting: We do not recommend that you leave your floating docks in the ice for the winter, as probable damages can occur. If you nevertheless decide to leave your floating dock in the ice for the winter, you do it at your own risks and you must make sure to at least remove any ladders or other accessories that reach under the water level, to avoid damage from ice or other floating objects. Disconnect hinges or connector bracket systems from the shore or wall (if applicable). Loosen chains to allow for water level fluctuations, including possible melting season floods. Disconnect docks, space apart with bumpers (car tires do a great job but make sure not to lose them!) and tie with rope. This way, every dock will be able to move independently, thus preventing damage to the structures. If you are moving the docks to a protected area, be sure that the floats will not be rubbing on rocks or other object susceptible of damaging them or the dock structure.

IMPORTANT INFORMATION AND DISCLAIMER OF LIABILITY

The selection, assembling, installation, anchoring, inspection, maintenance and winterizing techniques, suggestions or recommendations contained in our company's documentation and on our website or received over the phone and in store, are simply general guidelines, and are only intended to provide any person with a general and basic understanding and comprehension of the manufacturing assembling, installation and maintenance of a residential dock or mooring system. In no way is Multinautic® recommending that any of such techniques, suggestions and recommendations be followed, in whole or in part, with regard to any specific case, as many factors may affect each and every individual installation, such as but not limited to, local regulations, severity of the climatic conditions in a specific location, choice of design, preference or necessity, moorings, water depth and bottom conditions, material used or other special circumstances that may affect your specific location. Multinautic® may therefore not be held liable or responsible in any way. Any of these technical drawings, illustrations and/or plans, informations are not to be substituted, in whole or in part, for certified engineered drawings and are intended as general guideline only. **MULTINAUTIC ASSUMES NO LIABILITY OR RESPONSIBILITY WHATSOEVER, FOR ANY COSTS, EXPENSES OR OTHER DAMAGES, DERIVED FROM OR IN RELATION WITH THE USE MADE BY ANY PERSON OF ANY SPECIFICATIONS, SUGGESTIONS OR RECOMMENDATIONS RECEIVED OVER THE PHONE AND IN STORE OR CONTAINED IN OUR COMPANY'S DOCUMENTATION AND ON ITS WEBSITE, INCLUDING, BUT NOT LIMITED TO, FITNESS FOR A PARTICULAR INTENDED USE, MERCHANTABILITY, ACCURACY OR NOT OF THE TECHNICAL DRAWINGS, ILLUSTRATIONS OR PLANS SHOWN IN MULTINAUTIC'S DOCUMENTATION AND WEBSITE, ETC. ANY PERSON MAKING USE OF ANY SUCH SPECIFICATIONS, SUGGESTIONS OR RECOMMENDATIONS PROVIDED BY MULTINAUTIC, INCLUDING ANY OF ITS TECHNICAL DRAWINGS, ILLUSTRATIONS AND/OR PLANS, MUST BE AND IS SOLELY RESPONSIBLE TO OBTAIN AT ITS SOLE COSTS SPECIFIC CERTIFIED ENGINEER ADVICE AND CERTIFICATION AS TO, WITHOUT LIMITATION, THE PROPER SELECTION, ASSEMBLING, INSTALLATION, ANCHORING, INSPECTION, MAINTENANCE AND WINTERIZING OF ANY PARTICULAR ASSEMBLY FOR ANY PARTICULAR LOCATION. Without limiting the foregoing, Multinautic® does not warrant the quality and accuracy of its material lists or specific measurements, and verification by making your own review and obtaining advice and certification from an engineer must in all cases be made. PLEASE SEE OUR LIMITED PRODUCT WARRANTY FOR ALL SPECIFIC TERMS, CONDITIONS, LIMITATIONS AND EXCLUSIONS APPLICABLE TO OUR PRODUCTS' WARRANTY.**

Complete your Project with other Quality Dock Accessories

(Visit our web site for more products)

4-Step Aluminum Tubular Dock Ladder

- Large 44 cm (17 1/4 in.) and deep step with plastic end caps;
- Nice 3.8 cm (1 1/2 in.) aluminum handrails;
- Clean and sturdy: will support a 113 kg (250 lb) load;
- Stainless-steel assembly hardware included;
- Compatible with additional step #15528 and flip-up kits #15529



15529



15524 (5" step)



Printed in Canada



22041



Dock Hinges (pair)

Equipped with nylon bushing for noise-free mechanism.



22045



30 in Universal Vertical bumpers

For fixed or floating docks

Aluminum & white PVC
Ideal when water fluctuates
Adjustable height

2 / pack



22043



Anchor chain hook (pair)

To attach and quickly adjust the anchoring chain that hold the dock in place.



22040



Fusion connector (pair)

No-flex fusion connector prevent the floating dock system from flexing at junctions, creating a solid deck to enjoy under wavy conditions.

Warning: Must be installed on dock equipped with hinges.



22000

24 in plastic Wheels w/ Steel Axles (pair)

Allows easy installation & removal.
Allows displacement of dock away from or to the shore, depending on water fluctuations.



Limited Warranty

Multinautic® hereby warrants to the original consumer purchaser only that this product will be free, in normal use, of any defects in materials and workmanship for a period of one (1) year from the consumer's original date of purchase directly from Multinautic® or from a Multinautic® authorized reseller (see Multinautic web site for specific warranty on floats). At its sole option, Multinautic® will repair or replace the defective product and promptly return it to you. In order for this warranty to be valid, the consumer must, at the time the product is returned, provide proof of purchase in the form of the original purchase receipt directly from Multinautic® or from a Multinautic®-authorized reseller. If Multinautic® elects to replace the defective product, then Multinautic® reserves the right to replace the defective product with another product of the same model or a model of at least comparable quality and features in Multinautic®'s sole determination. A reimbursement cannot exceed the amount paid by customer and is limited to the replacement of the defective product.

If you believe this product is defective within the warranty period, call Multinautic® for a Return Authorisation Number (RAN), carefully repack the unit, insure it and return it with proof of purchase, postage prepaid, to Multinautic® at 2330, Jean-Adam, St-Sauveur, QC, Canada, J0R 1R2. Write the RAN on the shipping label. Any product sent without RAN will be refused and returned freight collect to sender.

This warranty is not transferable. This warranty does not apply in cases of abuse or misuse of the product, use contrary to Multinautic®'s instructions, an act of God, negligent use, purchase from a party other than a Multinautic® authorized reseller, unauthorized repair, or modification of the product.

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THE STORE. PLEASE CONTACT OUR
CUSTOMER SERVICE AT
1-800-585-1237 TOLL-FREE**



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