



OWNER'S MANUAL

DOCK SYSTEMS

ROLL-IN



Retain this manual for future reference



ATTENTION



ATTENTION



ATTENTION

Read and follow all safety rules and operating instructions carefully before attempting to install or operate dock system.

Refer to the Customized Training Video for Dock Set-up, Installation and Removal on FLOE's website at www.floeintl.com/manuals-information

Visit our website at www.floeintl.com

Dear Friend,



Thank you and congratulations on the purchase of your new FLOE Dock System! The fact that you purchased a FLOE system indicates that you value durability, quality construction, and innovative features not found on other brands.

Our goal at FLOE is to build the easiest to use, most durable and safest docks possible. Once you have had the chance to use and enjoy your new FLOE system, we hope you will feel that we have delivered on these goals

Proper use of your new FLOE system will ensure you experience the highest level of enjoyment on the water. Please take the time to read and review the materials in this manual. In addition to many tips related to installation and removal of your dock system, you will find a great deal of information related to your safety and the safety of your friends and family.

We are proud to produce products that will serve as the platform for friends and family to gather, spend quality time together and generate memories that will last a lifetime.

Thanks again for choosing FLOE. See you on the water!

A handwritten signature in black ink that reads "Wayne Floe".

Wayne Floe , CEO - FLOE International

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This manual is intended to serve as an owner's use and maintenance guide.
Detailed assembly instructions are packaged with the dock systems.

Please retain this manual for future reference

IMPORTANT SAFETY INFORMATION

Your safety and the safety of others is very important. We have provided many important safety messages in this manual and on your dock system. Always read and obey all safety messages.



This is the safety alert symbol. This symbol alerts you to hazards that can cause serious injury or potential death to you and others, plus damage to the dock system. All safety messages will be preceded by the safety alert symbol and the word “DANGER”, “CAUTION” or “WARNING.”

All safety messages will identify the hazard and tell you how to reduce the chance of injury.



DANGER

You will be killed or seriously injured if you don't follow instructions.



CAUTION

You can be killed or seriously injured if you don't follow instructions.



WARNING

Failure to take appropriate action could result in mechanical failure, product damage and/or cause serious injury or potential death.



DANGER

- ⚠ Never allow anyone under or on the dock when installing or removing the dock.
- ⚠ Use of a corded drill may cause electrocution.
- ⚠ FLOE docks hold 30 lbs per square foot of weight evenly distributed across the dock. A 4'x16' dock holds 1920 lbs. **Never** exceed the weight capacity of your dock.
- ⚠ Never allow anyone to dive off dock in shallow water.



CAUTION

- ⚠ Never run on a dock. Dock may be slippery when wet.
- ⚠ Steps may be slippery. Hold onto handrails while walking down steps.



WARNING

- ⚠ Never leave a Quick Connect™ on a dock if you are not attaching a dock section to it. Serious injury could occur if someone fell or hit the Quick Connect™.
- ⚠ In northern climates, extreme snow accumulation can exceed dock capacity and should be removed, or store the dock on its side to prevent accumulation.



WARNING

- ⚠ Never adjust your dock legs with an impact wrench or hammer drill. If you cannot turn the adjusting nut, do not force it – you have reached the end of the adjustment range. DO NOT exceed 15 ft/lbs. Applying too much force to your dock legs will damage the mechanism.
- ⚠ Cordless drill may come to a sudden stop when the leg is fully extended or retracted. Be sure to have your cordless drill in clutch mode when adjusting the legs. Failure to use drill in clutch mode may cause injury to your hand or arm. Use of a corded drill may cause electrocution.
- ⚠ Never pull on the front of the dock when removing. Pull from the sides to avoid damage. See pg 9 for more info.
- ⚠ If wheel kits are sunk in mud, slowly rock or pull dock to release from mud before removing or you may damage the dock.
- ⚠ When installing or removing dock, position dock in transport position on quick connects or you may damage the structure of the dock.
- ⚠ If transporting a dock from one lake to another be sure to follow any regulations regarding invasive species such as Zebra Mussels. Contact your local Department of Natural Resources or government agencies for further information. Help protect our lakes and rivers from any invasive species.

ROLL-IN DOCK COMPONENTS



Dock Sections & Sundecks

FLOE dock sections and sundecks come in many different sizes, enabling you to create a custom dock system. The modular design lets you easily add on as your needs change or change your layout. Dock sizes: 2'x10', 4'x12', 4'x16' & 6'x12'. Sundeck sizes: 4'x8', 8'x8', 8'x12' & 8'x16'.

Once your main dock system has been connected, the following accessory sections can be attached.



Shore-End Ramps

The perfect approach to your dock, as well as the most cost effective way to add length.

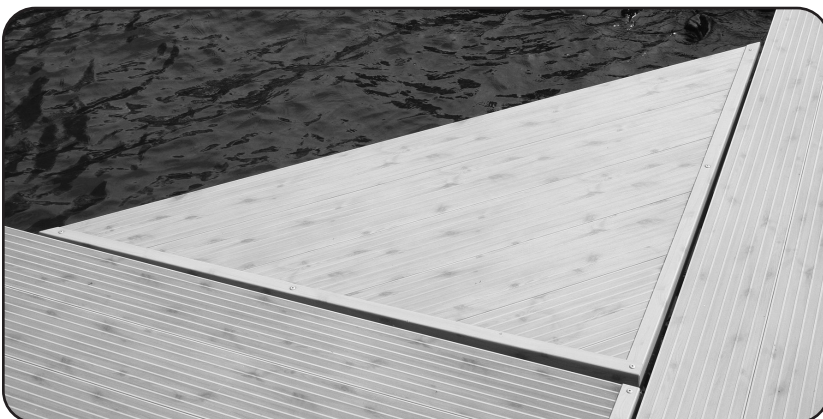
Sizes: 4'x6', 4'x12' & 6'x8'.



Dock Shoreways

This ramp has a bridge truss structure to match your other dock sections. They can be used with or without wheel kits.

Sizes: 4', 5', 6' widths and 12' & 16' lengths.



Dock Wedges

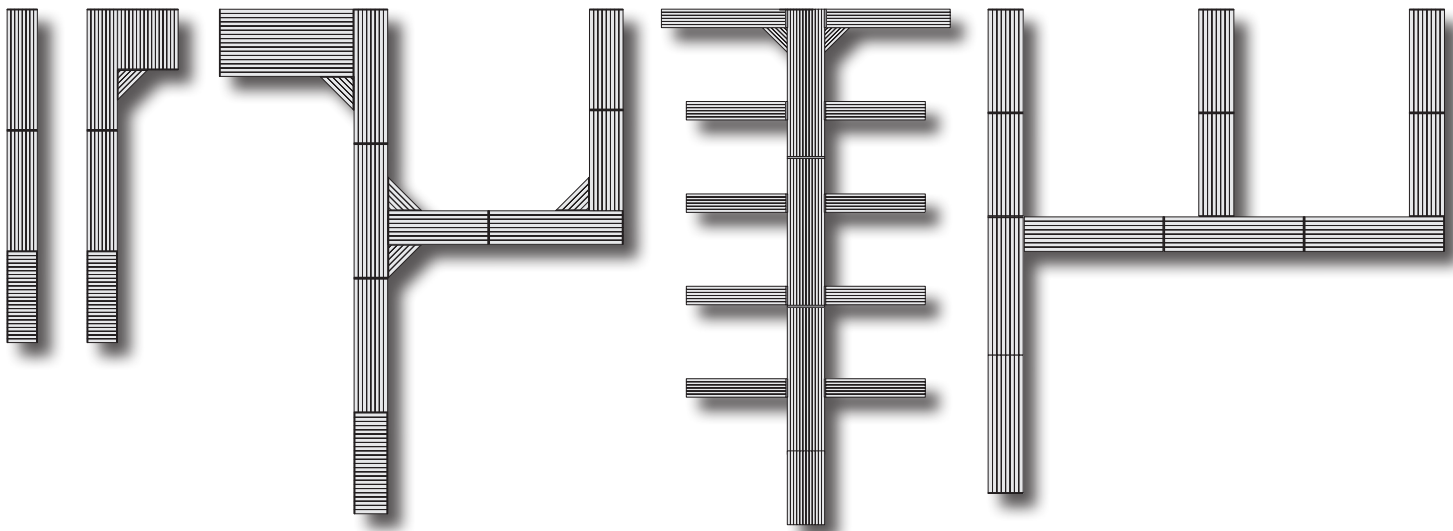
Increases your deck space while making an attractive, safe corner. They also make a great spot to attach a bench, ladder, or furniture.

Sizes: 2', 4' & 6'.

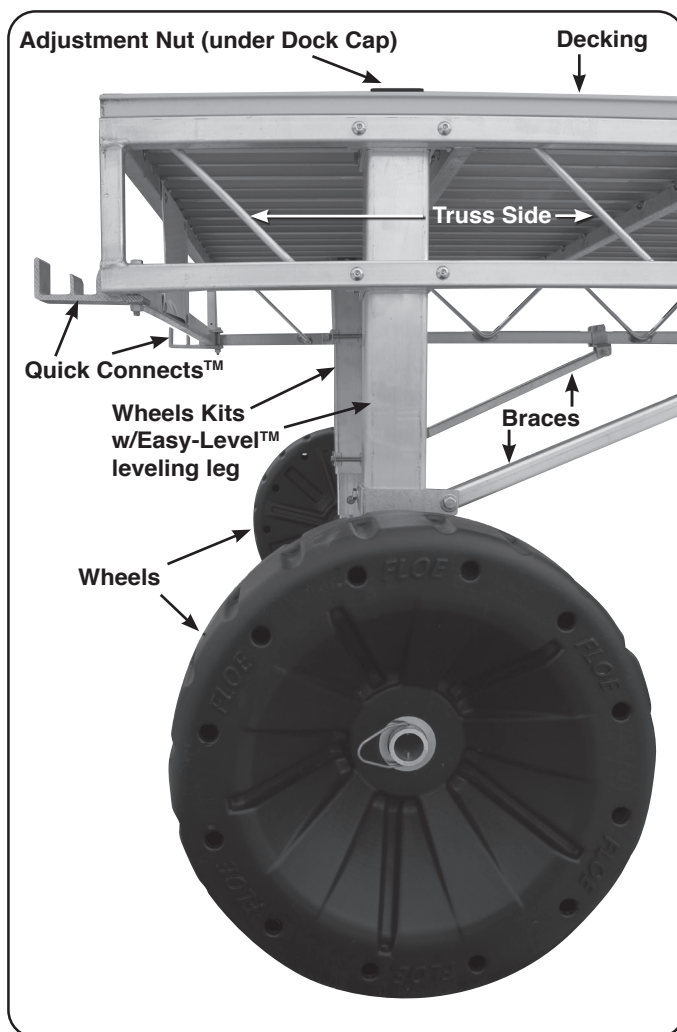
MODULAR DESIGN

FLOE's modular design lets you customize your ideal system.

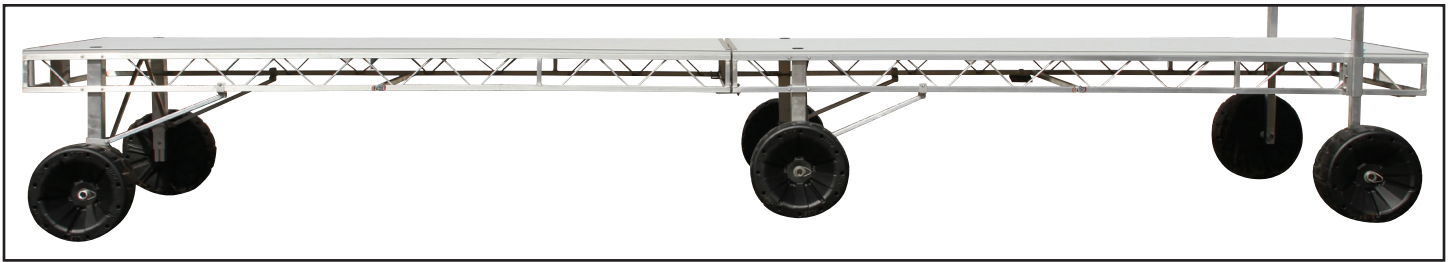
Our modular engineering allows you to simply configure sections and add components where and when you want them, without any welding or drilling. Layout designs are endless. See your FLOE dealer or use our Design-a-Dock program on our website www.floeintl.com to create your perfect dock system.



DEFINITIONS



WHEEL KITS WITH EASY LEVEL™ LEVELING LEGS



It is important that you have the correct wheel kits for your water depth.

- FLOE roll-in docks have wheel kits on each section. The five available sizes are for varying water depths. Be sure your normal water depth falls in the middle of a wheel kit adjustment range so you are able to adjust up or down with fluctuating water conditions.
- Wheel kit legs may be turned 180 degrees if room is needed beside the dock for a boat lift. Some stability will be lost if the wheels are under the dock side. Not recommended for water over 4' deep as it impacts the stability of the dock.

	Water & mud depth w/wheels	Water & mud depth w/sand pads	Total travel
Shallow	13" - 30"	5" - 23"	17"
Medium	18" - 45"	11" - 39"	27"
Deep	33" - 61"	26" - 54"	28"
X-Deep	48" - 91"	41" - 84"	43"
XX-Deep	70" - 108"	63" - 101"	38"

When determining water depth, include the amount of settling that will occur if you have a soft or muddy lake bottom.



- Wheel kit measurements are calculated with the top of the dock frame being 17" out of the water. If you need to have your dock higher or lower out of the water, add or subtract that amount to the depth measurement.

Shallow and Medium wheel kits have a manual adjustment nut on the bottom of the leg. Extend the manual part of the leg before installing and then adjust from the topside to get maximum travel.



Inner leg manual adjustment bolt

SHALLOW LEG ADJUSTMENT CHART

If the water depth is this:	Extend the manual leg to this:
13" - 19"	2 ½"
19" - 25"	8"
25" - 30"	13"

MEDIUM LEG ADJUSTMENT CHART

If the water depth is this:	Extend the manual leg to this:
18" - 24"	2 ¼"
24" - 30"	6 ¼"
30" - 38"	12 ¼"
38" - 45"	16"

Dock Weight with Aluminum Decking (not including wheel kits*)

Dock Size	Weight (lbs)	Dock Size	Weight (lbs)
2x10	90	6x12	225
4x8	120	8x8	200
4x12	143	8x12	300
4x16	200	8x16	400

*You will lift a little more than 1/2 the weight of the dock section with wheel kits on the dock.



WARNING

Do not exceed extending the inner wheel kit leg more than 13". It can cause the dock to become unstable and reduce the structural integrity of the wheel kit.

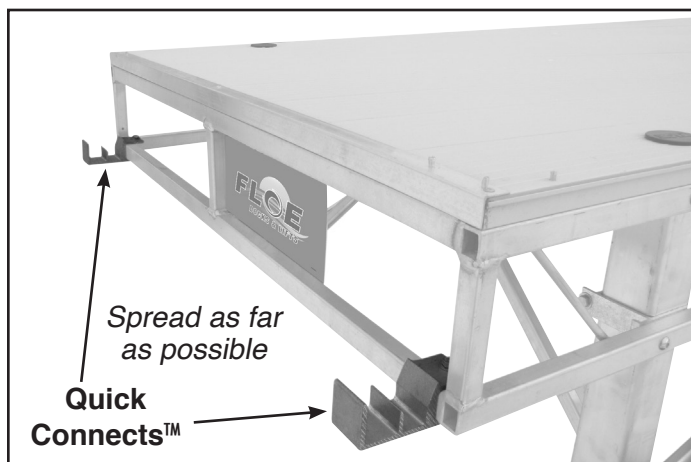


WARNING

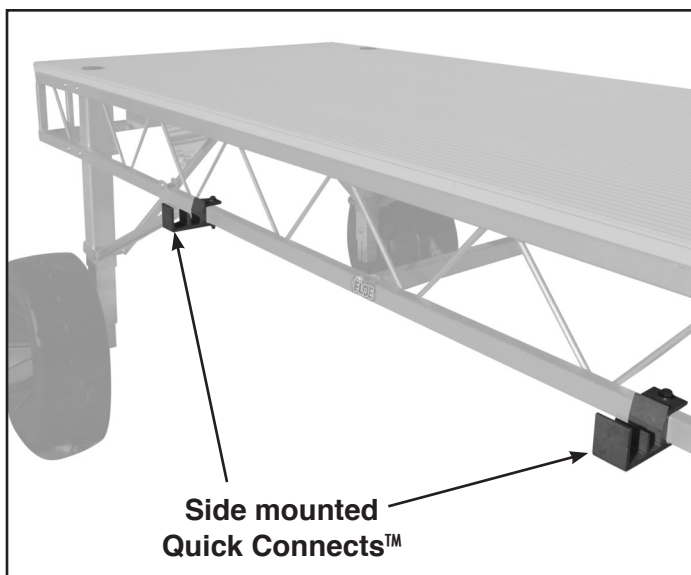
Never try to adjust the leg if you have reached the top or bottom travel capacity or you may break the adjustment nut.

QUICK CONNECTS™

- Quick Connects™ link modular dock sections together instead of hard bolting. This allows for quickly adding or disconnecting dock sections. They can be placed anywhere along the dock to create custom configurations.
- Attach Quick Connects™ to the wheel kit end of the dock section if another section is to be connected to it. Spread them as far as possible on the lower dock frame to keep adjoining sections from shifting sideways.



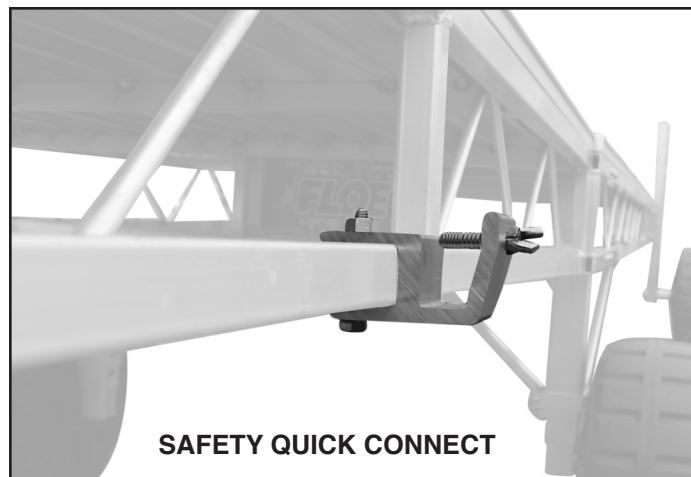
- When another dock section connects to a side of the dock, Quick Connects™ should be placed on the side of dock.



WARNING

Never leave a Quick Connect™ on a dock if you are not attaching a dock section to it. Serious injury could occur if someone fell or hit the Quick Connect™.

- Sundecks and wedges require a Safety Quick Connect™ in addition to a standard Quick Connect™. On the Safety Quick Connect™, be sure the bolt is threaded over the dock frame to lock the wedge or sundeck in place.



WHEELS/SAND PAD CHOICES

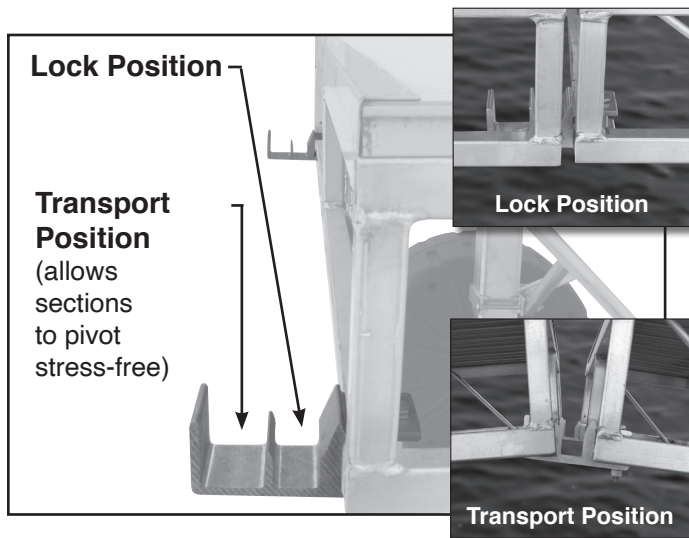
- FLOE's standard wheels are drilled and fill with water for ballast. This wheel is used for seasonal and permanent applications and works best in firm to moderately soft applications where the anticipated settling will be no greater than 6" into dense mud.
- Airtight wheels are not drilled and add buoyancy to ease installation and removal in excessive mud. The airtight wheel should only be used in dense mud applications where the anticipated settling will be more than 4" or the dock could possibly float.
- Sand pads are available for installations where portability is not a concern and/or a necessity due to freezing. Wide based sand pads provide substantial support and stability. The sand pads pivot to conform to changing bottom contours.



INSTALLATION

Refer to the Customized Training for Dock Set-up, Installation and Removal on FLOE's website at www.floeintl.com/manuals-information

- Place connecting dock sections in the Quick Connect™ transport position when installing or removing multiple sections. This allows the dock to pivot.



There are three common options to consider for installation and removing your dock depending on the complexity of the dock system and the landscape of your shoreline.

Option 1

Connect all dock sections on shore and roll out into the water as one system. This is a great option if you have a gradual slope and adequate space on shore.

Option 2

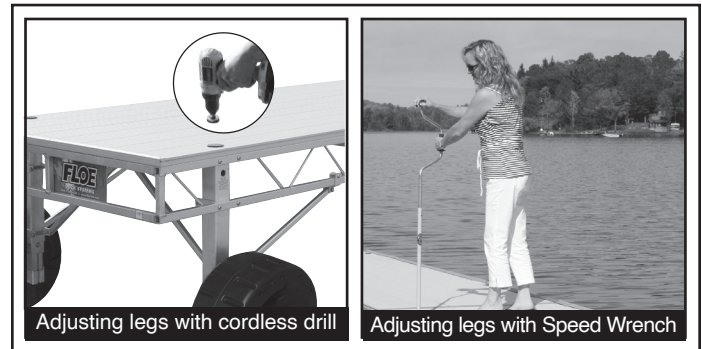
Connect some sections on shore and roll out that portion of the dock. Then connect the remainder of the sections in the water. This option is common with larger layouts that may include dock slips or large sundecks.

Option 3

Roll each section out individually and connect them together in the water. This option is for those areas with landscape features such as sea walls, rip rap, steep hills, trees or limited shore space.

LEVELING THE DOCK

Once your dock is in its desired location in the water, lift each dock section out of the transport position and insert them into the locked position on the quick connect to ensure the sections are held securely in place and close together.



- Using a standard 1-1/8" socket or FLOE Speed Wrench, adjust each leg by turning the adjusting nut clockwise to lower and counter clockwise to raise the dock. Simply adjust the height of each leg so the top frame of each dock is 17" above the water, unless more clearance is required due to the wave conditions exceeding 15" where you will need to raise the dock higher.
- During adjustment, alternate wheel kit legs after a few inches. This will reduce binding of the sections and make leveling easier.
- Use a level to ensure all dock surfaces are level. Once the dock is level, insert the plastic caps in the adjustment hole.



WARNING

If you cannot turn the adjusting nut, do not force it – you have reached the end of the adjustment range. Do not exceed 15 foot pounds. Applying too much force to your dock legs will damage the mechanism.



WARNING

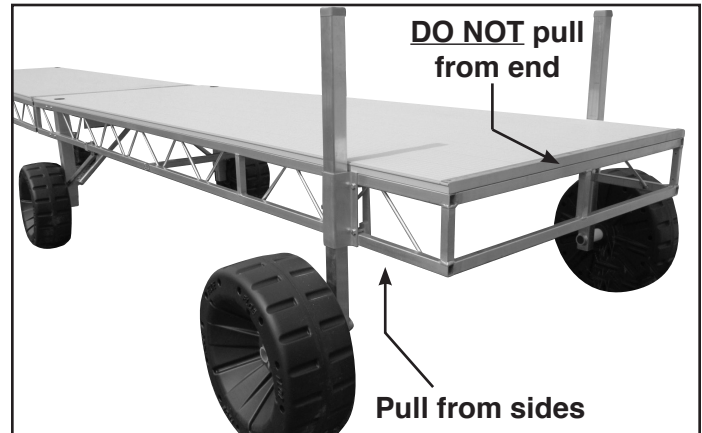
Cordless drill may come to a sudden stop when the leg is fully extended or retracted. Be sure to have your cordless drill in clutch mode when adjusting the legs. Failure to use drill in clutch mode may cause injury to your hand or arm. Use of a corded drill may cause electrocution.

REMOVAL

FLOE's Quick Connect™ system allows dock sections to come apart quickly for off-season storage. Docks can be stored side-by-side or can be nested for more compact storage. Simply lift the dock section out of the Quick Connect™ and move to your storage area.

- If the dock is located where water freezes, it should be removed prior to ice developing as ice can cause damage to the dock system. Some accessories may need to be removed prior to removal such as steps, kayak racks and flag poles. You may also choose to remove furniture and store out of the elements over the winter. Accessories such as bumpers, ladders, benches and cleats are commonly left on a dock in the off-season.
- For removal, place all dock sections in the transport position of the Quick Connects™. Follow the installation instructions listed previously except reverse the instructions.
- It is common for the wheels to settle into the soft lake bottom. If using a winch or vehicle, use a slow and steady pull which will gently release the wheels from any settling. Do not use a jerking motion or begin with slack in the rope, chain or cable which can cause significant damage to the dock. If moving the dock over rip rap or a sea wall, a board or ramp to roll the wheels over will simplify the removal process.
- Once the dock is safely on shore, be sure it is clear from any future rising water or ice movement.

- Only pull from the side frame of the dock and not the end frame as damage may occur



- The dock sections can remain connected together or separated for more compact storage.
- This is also a good time for a thorough dock inspection including checking for loose hardware, broken welds and ensuring the drain holes are free from obstructions. If there is water in the dock frame and it freezes, it could crack the frame.

REMOVING FURNITURE

- For seasonal removal loosen the 1/2 x 1" set bolt and carefully remove the pedestal and chair from the chair mount. The table and post may be detached by removing the 3/8 x 1-3/4" bolts.
- For more information on furniture installation/removal, refer to the instructions included with your furniture, or view the instructions online at www.floeintl.com under Manuals/Information.



WARNING

If transporting a dock from one lake to another be sure to follow any regulations regarding invasive species such as Zebra Mussels. Contact your local Department of Natural Resources or government agencies for further information. Help protect our lakes and rivers from any invasive species.

MAINTENANCE

Aluminum docks require little maintenance. To keep the deck looking new, wet the dock and use a soft brush to clean. Do not use a power washer, as you may damage the powder coating.

Carpet and cedar decks should be regularly rinsed and scrubbed using a soft bristled brush to remove dirt and possible mold.

If your dock has become submerged and has become stained, use a mild detergent. Apply with a soft cloth in a circular motion. For severe stains, use an aluminum alloy wheel cleaner. Always ensure you use chemicals away from the shoreline to ensure they do not enter the lake.

SNOW LOAD

Denser, wet snow, or severe accumulation of fluffy snow, may exceed the weight capacity of the dock. Rain on top of snow compacting the snow adds considerable weight to the docks. If in a heavy snow region, it may be best to disconnect the dock sections. Keep them shoveled as you would the roof of your house. Take care so you do not scratch the dock surface. Sections may also be placed on their side to minimize snow/ice load.

15" of compacted snow or 6" of ice will exceed the weight capacity.



WARNING

Snow load may exceed capacity of the dock.

FURNITURE CARE & MAINTENANCE

Preserve your outdoor sling chair by using furniture covers or storing out of the elements when not in use.

FRAME: Clean frames with a mild solution of soap and water, rinse with clean water and dry thoroughly. Do not use abrasive materials or strong detergents. Apply a quality automobile wash/clear wax to frame to protect against UV light and salty, damp air. In cold climates, drain any water accumulated inside the frames before storing.

FABRIC: Clean mesh fabric by hand with a mild solution of soap and water. Do not use bleach or solvents on fabrics.



WARNING

Chair weight capacity is 250 lbs.



WARNING

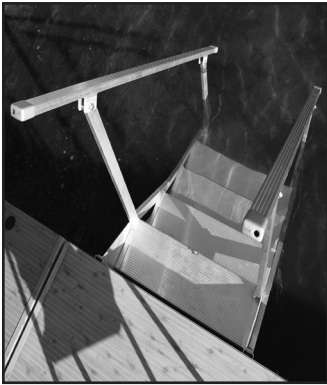
It is the installer's responsibility to properly install this chair in a manner that is secure and will ensure that the chair will not tip over, disconnect or damage the dock system when in use. Failure to do so may result in a serious injury or potential death.

WEIGHT RATING

When the dock is standing on its legs, the maximum weight capacity rating for roll-in docks is 30 lbs. per square foot spread over the dock section. For example, a 4'x16' dock has 64 square feet and a total weight capacity rating of 1,920 lbs.

ACCESSORIES

FLOE offers many accessories for your roll-in dock. Most accessories can be positioned anywhere along the dock. Refer to assembly instructions for details. All dock accessories must be assembled in accordance to FLOE's assembly instructions and torque specifications.



Stairs



Ladder



Furniture



Bench
(Also available in Aluma-Grain™)



Canoe/Kayak Rack



Lake Accessory Racks



Telescoping Flag Pole



Fishing Pole Holder



Speed Wrench



Handrails



Vertical Bumpers



Bumper Edging



Corner Bumpers



Premium Corner Bumpers



Dock Cleats



Side Mount Dock Cleats

FLOE INTERNATIONAL, INC.

DOCK SYSTEM 15 YEAR LIMITED WARRANTY

FLOE INTERNATIONAL, INC. warrants, to the original purchaser, the FLOE dock system to be free from original defects in materials and workmanship under conditions and loads for which designed, and from the date of consumer purchase as follows:

WARRANTY GUIDELINES

EFFECTIVE SEPTEMBER 1, 2004

TWO-YEAR PARTS AND LABOR WARRANTY

FLOE INTERNATIONAL, INC. will repair or replace, at their option, any portion of the dock system which fails as a result of a defect in material or workmanship during the first two years after the date of purchase. Items purchased by FLOE INTERNATIONAL, INC. are warranted by the original manufacturer and warranty is extended only to the original retail purchaser. FLOE INTERNATIONAL, INC. reserves the right to inspect and perform repairs at its main facility (F.O.B.) McGregor, Minnesota. This full two-year warranty includes parts and labor on the dock system and accessories including the following:

Aluminum frame structure, dock paint, wheel kits, leg kits, leg bracing, support poles, quick-connects, flagpole, benches, furniture, kayak/canoe rack, ladders and bumpers.

Labor charges and mileage are covered within 40 miles from FLOE or the authorized FLOE dealership performing the repairs. Additional mileage/travel charges will apply if travel over 40 miles is required. If this charge applies, it is determined by the repairing dealer and must be paid by the customer to the dealer performing the repairs. Warranty does not cover damage, including broken welds, caused by improper installation or removal, or any damage of any sort caused by the use of power equipment.

EXTENDED PARTS WARRANTY

In addition to this two-year parts and labor warranty, additional warranty coverage applies to specific parts of the dock and accessories. All warranty coverage beyond two years is for parts only. Labor and mileage costs for any warranty claim are not covered past two years.

ALUMINUM DOCK FRAME AND ALUMINUM DOCK DECK 15-YEAR LIMITED WARRANTY

Defects in material and workmanship of structural components of the dock frame and deck are covered for 10 years from the date of purchase (excluding paint finish). FLOE will provide replacement parts, on a non pro-rated basis, for ten years from the date of purchase for these items if they are found to be defective in workmanship. After this 10-year parts warranty, an additional five-year pro-rated warranty covers these components as shown below. Aluminum decking warranty does not include paint fading, differences due to dye lot, paint wear, scratches or denting.

Year After Purchase	Consumer Portion of Current Retail Price	Year After Purchase	Consumer Portion of Current Retail Price
11	40% Parts only	14	70% Parts only
12	50% Parts only	15	90% Parts only
13	60% Parts only		

CARPET AND CEDAR DOCK DECKING

With the following exceptions, carpet and cedar dock decking is covered by the full two-year parts and labor warranty (above). On cedar decks, cracks and splintering are normal characteristics of wood and are not covered by this warranty. There is no further warranty over the two years on cedar deck docks. On carpeted docks color fade is normal and is not covered by this warranty. Manufacturers warranty on carpet is two years and plywood is one year.

In addition to the two-year warranty, carpet docks are warranted to be free from defects in material and workmanship on a pro-rated basis, for up to 10 years as shown below. Warranty does not cover fading, differences due to dye lot, mildew or wear.

Years Owned	Consumer Portion of Current Retail Price	Years Owned	Consumer Portion of Current Retail Price
3-5	0%	8	60%
6	40%	9	70%
7	50%	10	90%

DECKING

One year. Warranty is provided by plywood manufacturer. A lifetime warranty against damage as a result of fungal decay or rot as well as against damage caused by termites or other wood eating insects. Warranty does not cover inherent wood characteristics such as checking, leafing, splitting and broken grain.

DOCK ACCESSORIES AND WHEEL KIT/LEG KITS — 10-YEAR LIMITED WARRANTY

Defects in material and workmanship of certain accessories of FLOE dock systems are covered under a 10-year pro-rated warranty. Items covered in this 10-year pro-rated warranty include wheel kit legs, wheel kit braces, plastic wheels, benches (except cedar boards), bumpers, ladders, furniture, tables, kayak/canoe rack, flag pole, shore-end ramps (except cedar boards), support poles, poly decking and hammocks.

The pro-rated schedule of these items is as follows:

Years Owned	Consumer Portion of Current Retail Price	Years Owned	Consumer Portion of Current Retail Price
3	20%	7	60%
4	30%	8	70%
5	40%	9	80%
6	50%	10	90%

DOCK FLOATS — 15-YEAR LIMITED WARRANTY

Dock floats used on FLOE floating dock systems are warranted to the original owner against cracking, peeling, sloughing and deterioration from ultraviolet rays, while retaining its resiliency against ice and bumps by watercraft under normal usage.

This warranty does not cover any float drum that has been subject to negligence, misuse, alterations, accidents, storm abuse or improper installation and support.

Floats are covered in the two-year parts and labor warranty. In addition, FLOE will provide replacement floats on a non pro-rated basis for the first ten years and then pro-rated as below. Replacement labor not included.

Year	Consumer Portion of Current Retail Price	Year	Consumer Portion of Current Retail Price
11	50%	14	80%
12	60%	15	90%
13	70%		

This warranty covers only the cost for replacement of materials due to defects in materials or workmanship and represents the only warranty authorized by us. In order to receive performance under this warranty, all warranty repairs must be authorized in advance by FLOE INTERNATIONAL, INC. Dock floats purchased prior to March 10, 2006 are covered under a 12 year limited warranty.

ADDITIONAL WARRANTY INFORMATION INCLUDING EXCLUSIONS AND OWNER'S RIGHTS

FLOE International, Inc. (manufacturer) will not be responsible for any costs incurred for, or as the result of, unauthorized repairs or improper assembly. Unauthorized repairs may void the warranty on the repaired part(s). This warranty does not cover damage, malfunction or faulty operation resulting from overload, misuse, wind, storms, ice, salt/brackish water applications, negligence, being hit by watercraft of any kind and any other 'Act of God'. Manufacturer's warranty coverage extends to private use only and is not applicable to commercial or rental use. Manufacturer is not responsible for damage or inoperability due to repairs made by unauthorized service personnel. Parts purchased by the manufacturer are warranted by the company that manufactured the part under the warranty schedule associated with the part in question. Manufacturer's warranty is extended to the original owner only and is non-transferrable. Manufacturer reserves the right, at its own discretion, to inspect and perform repairs at its main facility in McGregor, MN. The customer is responsible for any and all freight charges incurred to transport the product to and from McGregor, MN, with the exception of claims covered by the manufacturer's two-year parts and labor warranty which has provisions for service work to be completed up to 40 (forty) miles away from a FLOE dealership. Manufacturer's warranty claim process, specifications and pro-rate scheduling may change without notice and/or obligation.

COMPLETING AND SUBMITTING YOUR WARRANTY CLAIM

To receive performance under this warranty, contact your authorized FLOE dealer. Be prepared to provide the following information so that the dealer can complete a warranty claim form: receipt and date of purchase; your name, address and telephone numbers; the serial or vehicle identification numbers; and a detailed description of the problem.

THERE ARE NO OTHER EXPRESSED OR IMPLIED WARRANTIES

Our obligations under this warranty are limited to repair or replacement at our discretion and
FLOE SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.

This Warranty gives you specific legal rights and you may have other rights which may vary from state to state.



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