



Dock Floats & Float Drums





1-800-553-6257

Dock Floats, Float Drums and Flotation

... Technidock Offers a 15 Year Warranty ...
Best in the Industry . . .



Dock Float Features

- Wall thickness is 0.150" nominal.
- Exceed the ASTM Falling Dart Puncture Test even when subjected to -20°F testing temperatures.
- The float shell is seamless so there are no weak weld points to fail.
- Structural ribs on both the top and bottom deliver added strength and durability.
- External mounting flanges and slots are an integral part of each dock float design. You never have to penetrate the float body to attach a float to a dock frame; so you never compromise the dock float's water tight integrity or introduce an unnecessary failure point.

Technidock boat dock floats are available in standard, large and boatlift configurations providing drum buoyancy ratings from 340 to 4200lbs.

Fifty (50) different sizes are available to match any application you may be planning.

Get the Industry's Best Warranty

USACOE Compliant [15-Year Warranty](#)

[Dock Float Installation Instructions](#)

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TECHNIDOCK

On The Cutting Edge Of Tomorrow's Technology



Foam-Filled Float Drum

Float costs are not shown because the total cost (float cost plus freight) will vary by the size & number of floats required, the method of shipment needed and your ship to destination. Floats marked by * can be shipped FedEx Ground; all other floats are shipped via common carrier truck lines. All floats are constructed of recyclable materials. No CFC is used in foam fill process.

Complete Specifications

Standard and Large Floats (W x L x H)	Buoyancy Rating (lbs) +/- 5%	Dimensions & Drawings
F-1420 12" x 48" x 20"	340	View Now
F1848-36 18" x 48" x 36"	1035	
F-20608 20" x 72" x 08"	380	View Now
F-20810 20" x 96" x 10"	540	View Now
F-2308 24" x 36" x 8"	230	View Now
F-2312 24" x 36" x 12"	335	View Now
F-2316 24" x 36" x 16"	440	View Now
F-2320 24" x 36" x 20"	540	View Now
F-2408 24" x 48" x 8"	310	View Now
F-2412 24" x 48" x 12"	450	View Now
F-2416 24" x 48" x 16"	590	View Now
F-2420 24" x 48" x 20"	725	View Now
F-2424 24" x 48" x 24"	860	View Now
F-2436 24" x 48" x 36"	1215	View Now
F-2808 24" x 96" x 8"	600	View Now
F-3412 36" x 48" x 12"	685	View Now
F-3416 36" x 48" x 16"	900	View Now
F-3418 36" x 48" x 18"	1000	View Now
F-3420 36" x 48" x 20"	1100	View Now
F-3424 36" x 48" x 24"	1300	View Now
F-3432 36" x 48" x 32"	1740	View Now
F-3612 36" x 72" x 12"	1035	View Now
F-3616 36" x 72" x 16"	1365	View Now
F-3620 36" x 72" x 20"	1685	View Now
F-3624 36" x 72" x 24"	1995	View Now
F-3632 36" x 72" x 32"	2640	View Now

Standard and Large Floats (W x L x H)	Buoyancy Rating (lbs) +/- 5%	Dimensions & Drawings
F-3632 36" x 72" x 32"	2640	View Now
F3878-12 38" x 78" x 12"	1100	
F-4612 48" x 72" x 12"	1210	View Now
F-42616 42" x 72" x 16"	1600	View Now
F-4412 48" x 48" x 12"	920	View Now
F-4416 48" x 48" x 16"	1215	View Now
F-4420 48" x 48" x 20"	1500	View Now
F-4424 48" x 48" x 24"	1775	View Now
F-4432 48" x 48" x 32"	2241	View Now
F-4512 48" x 60" x 12"	1155	View Now
F-4516 48" x 60" x 16"	1525	View Now
F-4520 48" x 60" x 20"	1885	View Now
F-4524 48" x 60" x 24"	2235	View Now
F-4532 48" x 60" x 32"	2835	View Now
F-4612 48" x 72" x 12"	1390	View Now
F-4616 48" x 72" x 16"	1835	View Now
F-4620 48" x 72" x 20"	2270	View Now
F-4624 48" x 72" x 24"	2695	View Now
F-4632 48" x 72" x 32"	3525	View Now
F-4812 48" x 96" x 12"	1855	View Now
F-4816 48" x 96" x 16"	2455	View Now
F-4820 48" x 96" x 20"	3040	View Now
F-4824 48" x 96" x 24"	3615	View Now
F-4832 48" x 96" x 32"	4628	View Now



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FLOAT QUALITY CHECKS, REGULAR TESTING AND SPECIFICATIONS

Weekly Quality Checks Ensure Consistency with Manufacturer and Industry Guidelines Factory quality procedures dictate testing of all raw materials and weekly random sampling of production floats to ensure the consistent of roto-molded shells for wall thickness and puncture resistance; and foam filled floats for water absorption characteristics within accepted industry specifications (see sample quality test document below). Test results are available on request.

Wall Thickness Test... Sampled floats are tested at 20 or more spots to ensure a nominal wall thickness of 0.150", 0.175", 0.180" and 0.375" depending on the size of the standard float selected. An average wall thickness and minimal wall thickness are measured. For 0.150" nominal wall floats the minimal acceptable wall thickness is 0.125"

ASTM Falling Dart Puncture Test... Sampled floats first are subjected to -20°F and then tested using a steel dart with a pointed leading edge that is dropped from ASTM specified height to determine the cracking and puncture resistance of the outer shell. Premier dock floats exceed the requirements of this test.

Hunt 7-Day Water Absorption Test... This industry standard test measures the water absorption of foam block formed by injecting raw EPS beads, under steam, into a float shell. The acceptable absorption level is 3 lbs/Cu.Ft or less.

Weekly Factory Quality Assurance Checks and Testing (example)						
Q 070000A	Data For Week	2/22/04	To	2/28/04	Drum Date Code 0204	
Hunt 7-Day Water Absorption Test						
Test Beg. Date	Test End Date	Date Steamed	Supplier	Lot Number	Drum Size	Result (lb/Cu.Ft.)
2/22/04	2/28/04	2/17/05	Huntsman	9776	4x8x20	2.95
ASTM Falling Dart Puncture Test						
Test Date	Supplier	Material	Drum Size	Wall Thickness	Ft-Lbs Test	Result
2/22/04	Exxon Mobil	625	24x48x12	0.18	90	Pass
Encasement Wall Thickness Test						
	Test Date	Drum Size	Average	Std. Deviation	Low	
	2/22/04	3x6x20	0.2100"	0.0152	0.179"	
	2/22/04	4x6x20	0.2004"	0.0141	0.172"	

Float Encasement Specifications: All units are manufactured from linear virgin polyethylene resin containing UV ray inhibitors and carbon black pigment to protect against ultra-violet deterioration. These resins offer toughness, rigidity, environmental stress crack resistance and low temperature impact performance; and compliance with the FDA title 21(will not contaminate the waterways and is recyclable). All units are rotationally molded for seamless, one piece construction, with a .150" nominal wall thickness standard on all encasements (see float size chart for variances) Custom wall thicknesses can be specified. All units are resistant to damage by animals, ice, bumps by watercraft and contact deterioration from petroleum products. They are suitable for outdoor use with respect to exposure to ultra-violet light, water exposure, immersion and fire in accordance with the Underwriters Laboratory's class 746C and flame class UL-94HB. The encasements also meet the Hunt 7-Day Water Absorption and ASTM Falling Dart puncture and thickness test. All units will exhibit the following ASTM test methods:

Properties	ASTM	Units	Typ. Units	Properties	ASTM	Units	Typ. Units
Density	D-1505	b/cc	0.937	Elongation at Break	D-638	%	600
Melt Index (190c//21.6kg)	D-1238	g/10 min.	5.00	Flexural Moduls (1% Secant)	D-790	psi	109,000
Melt Index (190c//21.6kg)	D-1238	q/10 min.	125	Low Temperature Impact	ARM-STD-40F	ft-lbs.	68
ESCR (100/gelpad, F-90)	D-1693(B)	Hrs.	1000	Brittleness temperature	D-746	0 deg. C	-90
Tensile Strength at yield, 2"/min.	D-638	psi	2750	Heat Distortion Temperature	D-648	0 deg. C	63

Float Drum Contents: All encasements are filled with virgin polystyrene (EPS) beads. The EPS beads are steamed together to provide less water absorption and solid core for structural strength. The EPS contents have a 0.9 to 1.2 lbs. per cubic foot density with water absorption not to exceed three pounds per cubic foot in accordance with the Hunt 7-Day Water Absorption Test. It will not sink or contaminate the water when punctured. The EPS contents conform to the ASTM C-578 and the Underwriters Laboratory standards. Regarding fire resistance; it passes the UL723, UL1975 and ASTM E84 tests. Below are other ASTM test results:

Properties	ASTM Test	Units	Value
Density	C-303	Min lb./ft3	0.90
Thermal Resistance @ 25° F (-3.9° C)	C-177 or	Min R for 1" Thickness	4.20
40° F (4.4° C)	C-518		4.00
75° F (23.9° C)	C-158		3.60
110° F (43.3° C)			3.25
Compressive resistance at Yield or10% Deformation	D-1621	Min psi	10.0
Flexural Strength	C-203	Min psi	25.0
Water Vapor Permeability	E-96	Max perm-in	5.0
Water Absorption	C-272	& by Vol Max	4.0
Dimensional Stability		Max %	2.0
Oxygen Index	D-2863	Min %	24.0
Coefficient of Thermal Expansion	D-696	In/in/°F	0.000035
Flash Ignition Temperature	D-1929	°F	824
Auto-Ignition Temperature	D-1929	°F	896
BTU Content	NFPA 259	BTU/lb.	17,425



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PROCEDURES FOR USING FLOAT DRUMS

Storage:

1. Store float drum upside down with plug hole facing down.
2. Do not store float drum with vent plugs inserted in areas of direct sunlight or hot temperatures.
3. Dropping float drum may result in damage, especially in cold weather.
4. Do not stack over ten feet high.

Vent Plug Insertion:

1. Do not insert vent plug until you are ready to use float drum.
2. Before inserting vent plug, make sure to drain the float drum of any water that might have seeped through the plug hole.
3. Apply silicone or pipe sealer on vent plug to keep the inside of the float drum waterproof.
4. Use a 5/16 inch allen wrench to insert vent plug.
5. Thread vent plug in float drum until the top of the plug is level with the top of the float drum.

Frame Support:

1. The dock frame must support both sides and ends of float drum.
2. Minimum frame support of float drum must be every 24" x 48" or every eight square feet.

Attachment:

1. All mounting slots of float drum must be bolted or lagged to the frame if dock is exposed to strong wave action.
2. Float drums that are four feet long (or less) must be attached to the frame by using at least four mounting slots.
3. Float drums over four feet long must be attached to the frame by using at least six mounting slots.
4. Minimum of 3/8 inch bolts or lag screws required.
5. Bolts, lag screws, washers and lock nuts must be galvanized or stainless steel.

Installation & Removal of Dock:

1. When installing or removing dock, lift the dock sections – do not slide! Sliding float drums may result in puncturing or wearing a hole in the wall of the float drum.
2. In areas where severe ice movement occurs, docks must be removed during winter months.

For questions or additional information on the use of Float Drums, please call 1-800-553-6257

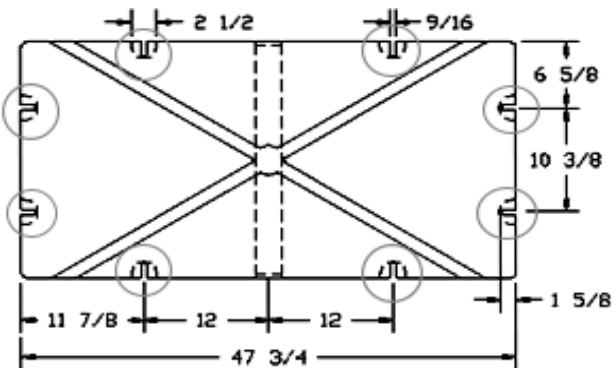


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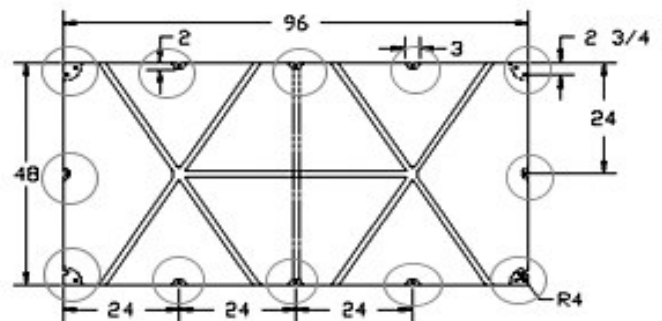


Designed for Easy Installation

Technidock dock floats are designed with an external mounting flange with pre-molded mounting slots. This design makes attachment to wood, aluminum or steel dock frames easy and fast. And it protects the watertight integrity of the float. A nut/bolt/washer combination holds a float securely to steel or aluminum dock frames. A lag screw and washer combination into a 2x6 or 2x8 frame member provides a secure connection to wood frame docks. The number of mounting slots per float varies with the size of the float. With larger floats more mounting slots are provided. Below are some sample line drawings of floats that illustrate the number and spacing of the mounting slots. Float line drawings are provided in PDF format in our dock float section of our web site at www.technidock.com

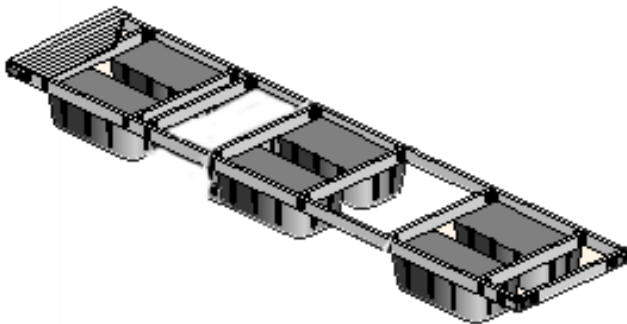


24" x 48" x 12"
(Mounting slots circled)



48" x 48" x 12"
(Mounting slots circled)

Floats are typically mounted flush to the bottom of the dock framework, delivering the full advantage of the float's depth in achieving the right freeboard for your dock. Freeboard is the distance from the water's surface to the top of your decking. For residential docks a 14" to 17" freeboard is typical. For marinas, the freeboard can be considerably higher to accommodate much larger boats. Freeboard is determined by adding your dock frame + decking height to the inches of float out of the water.





1-800-553-6257

**100% Non-Prorated Replacement for
First 10 Years of the Industry's Only
15 Year Warranty**

(Exceeds USACOE Regulation 36CFR Section 327-30)

The manufacturer warrants all float drums to the original owner against cracking, peeling, sloughing and deterioration from ultra-violet rays, while retaining its resiliency against bumps by watercraft under normal usage for a period of fifteen years from the proven date of purchase. Any float drum thought to be defective must be returned to the manufacturer (prepaid) and judged defective by the manufacturer.

This warranty does not cover any float drum that has been subject to negligence, misuse, alterations, accidents, ice movement, storm abuse or improper installation and support. Failure to follow the "*Procedures For Using Float Drums*" also voids this warranty. This warranty applies only for the sole purpose of floatation of docks. Other uses will not be honored. The manufacturer's obligation to the original owner involves the replacement or the repairing of the defective float drum(s) due to poor workmanship or material. This does not include any obligation for consequential or liquidated damages. Whether defective float drums should be replaced or repaired shall be determined at the sole discretion of the manufacturer

Any float determined by the manufacturer to be replaced is covered by its limited warranty, as described above, for the following time period from purchase date by original owner: 100% non-prorated for 10 years; 50% in 11th year; 40% in 12th year; 30% in 13th year; 20% in 14th year; and 10% in 15th year of current.

New 15-year warranty effective on purchases after March 10, 2006. Floats purchased prior to March 10, 2006 are covered under the previous 12-year warranty.