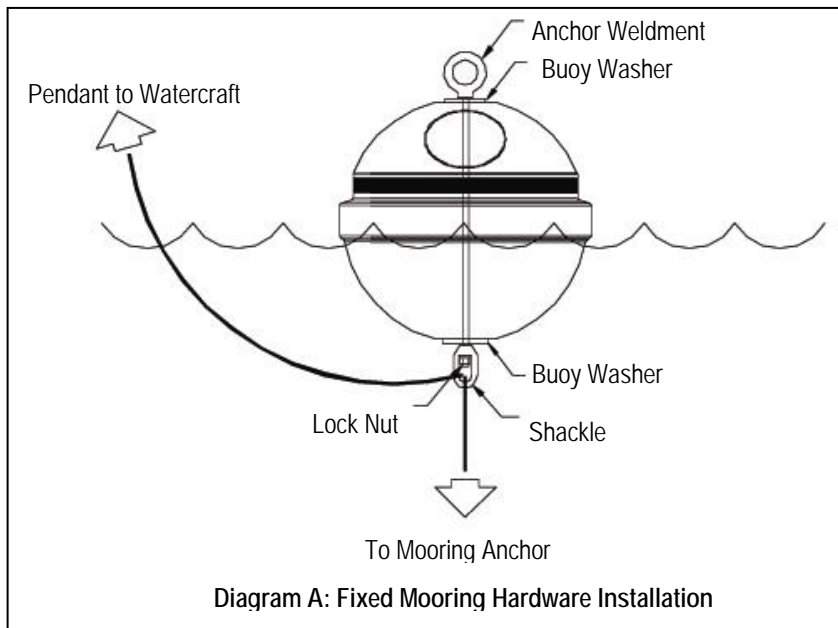


Mooring Buoy Installation Instructions

General Information

The following installation instructions are intended to be a general guide for installing ACE Mooring Buoy systems. The specific method of installation you utilize should be confirmed with local conditions (tidal variations, water depth, prevailing wind effects, bottom soil type, etc.) and/or regulatory agencies. The purpose of the buoy system is to provide sufficient buoyancy to support the line to which the watercraft will be anchored.



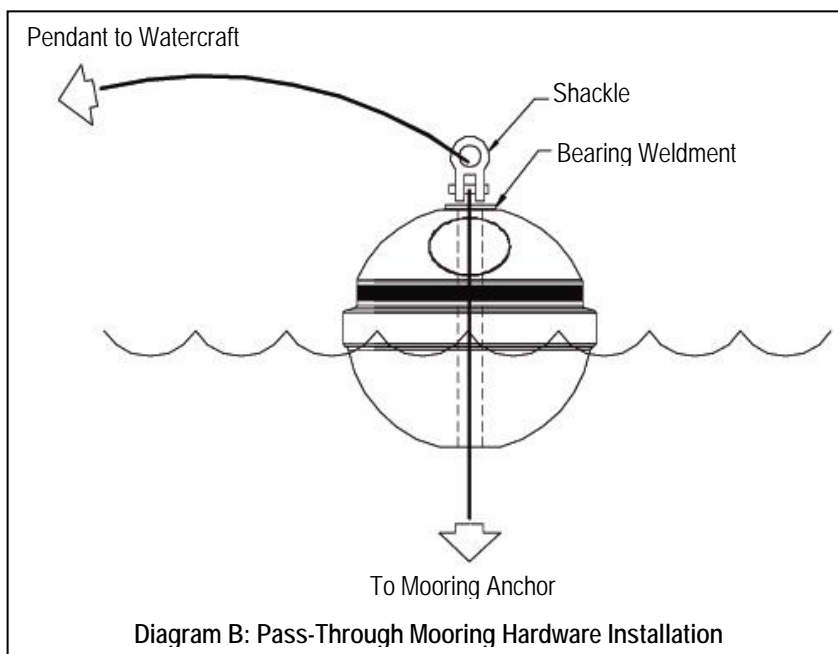
Buoy Hardware Styles

Two styles of buoy hardware are available for installation.

1

Fixed Mooring Hardware Kit (Reference Diagram A)

This hardware kit captures the buoy on both ends and provides a swivel at the bottom for attachment of the anchor line. A loop is provided at the top for handling the buoy and storage of the watercraft pendant line on the buoy. Never anchor the watercraft directly to this loop. Watercraft must be anchored to the buoy and directly to the anchor line.



2

Pass-Through Mooring Hardware Kit (Reference Diagram B)

This hardware kit passes through the buoy center tube. The anchor line is attached directly to the line shackle. A bearing plate under the shackle prevents the shackle from passing through the buoy tube. The pendant line to the watercraft is fastened directly to the shackle.

Buoy Size and Selection

The proper size buoy should be selected according to the buoyancy required to support the anchor line and allow the upper half of the buoy, including the reflective tape, to be above the water line. Select the buoy that will provide the floatation required to support the anchor line weight.

Buoy Size	Item No.	Buoyancy	Fixed Hardware	Pass-Through Hardware
12"	FFMB-1212	12.5 lbs	FFMB-12F	FFMB-P
18"	FFMB-1818	51 lbs	FFMB-18F	FFMB-P
24"	FFMB-2424	124 lbs	FFMB-24F	Not Available
32"	FFMB-3232	270 lbs	FFMB-32F	Not Available
32"	FFMB-3232RND	278 lbs	FFMB-32FRND	Not Available
38"	FFMB-3838	547 lbs	FFMB-38F	Not Available
38"	FFMB-3838RND	556 lbs	FFMB-38FRND	Not Available
42"	FFMB-4242	630 lbs	FFMB-42F	Not Available
42"	FFMB-4242RND	640 lbs	FFMB-42FRND	Not Available

Anchor Line

Selection of the proper anchor line or chain should be based upon the tensile strength rating of the line or chain required to hold the moored watercraft to the anchor. Avoid an oversized line or chain as this will result in an oversized buoy. Most watercraft will specify the required anchor line size for mooring anchors. The length of the anchor chain will depend upon the mooring location and proximity to other watercraft. Generally, the following guidelines will usually apply:

Inland Lakes – length required will be 1-1/4 times the nominal water depth.

Inland Rivers – length required will be 2 times the nominal water depth.

Coastal or tidal waters – length required will be 2-1/2 times the nominal water depth.

Inspection and Maintenance

It is important that the mooring system installed be thoroughly inspected on a regular basis and according to local regulations. Failure to do so may result in the failure of the mooring system and loss of the watercraft.

Warranty

The Den Hartog Mooring Buoy's have a warranty of 36 months. To view the complete warranty in its entirety please reference warranty document, "Limited *Warranty Marine Cushions, Buoy's, or Ace Dock Accessories*" (WIR7.5-58) at www.acedockaccessories.com.

Buoy Identification Options

Graphics and logo options are available through Ace Dock Accessories. Contact 888-223-6260 for more information.

Ace Dock Accessories, A Division of Den Hartog Industries, Inc.

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