



INSTALLATION INSTRUCTIONS FOR FLOATING DOCK SYSTEM

TOOLS NEEDED:

- Banding Cutters
- Pipe Wrench
- 5/16" Allen Wrench or large, flat blade screwdriver for float plugs
- 1/2" socket for float fastener kits
- Rubber Mallet
- Impact wrench or a ratchet (3/4" socket & 9/16" socket)
- A combination of open ended 3/4" & 9/16" wrenches or a crescent wrench
- A Friend

UNPACKING & PRE-ASSEMBLY (Suggested)

Unpacking:

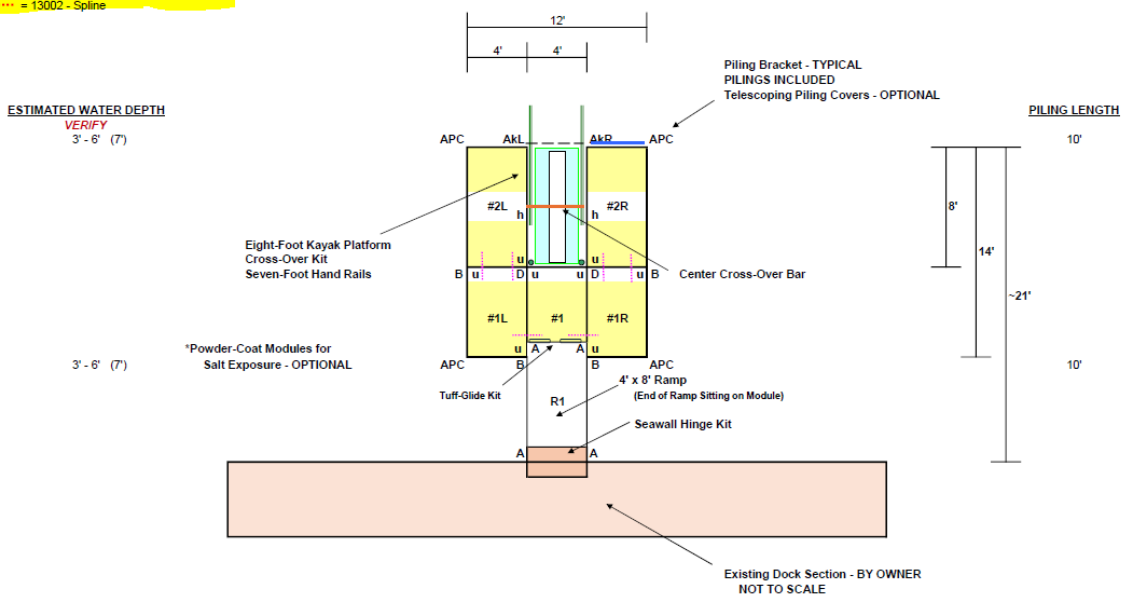
- Tools needed: Banding Cutters (or any kind of knife to cut).
- Familiarize yourself with the blueprint (design) of your dock. There is a **key** in the upper left-hand corner of your drawing to show you what the different symbols mean.
- Remove modules and floats from the pallets and lay them out in numeric order if possible. The module number can be found on the side or end of each module.
- All your brackets & modules are labeled, so you can match up which bracket or module goes in what configuration.
- All brackets, hardware, and accessories are packed inside the modules starting with modules closest to the bottom. (With the exception of handrails, bench, and ladder).

FLOATING DOCK

- AKL / AKR = 13180/13181 PS-1 Bracket
- A = 13111 Mod-U-Dock O/S Corner Bracket
- B = 13112 Mod-U-Dock Straight Bracket
- D = 13114 Mod-U-Dock 3 WAY I/S Cmr Bracket
- h = 13116 Mod-U-Dock Hinge Support Bracket
- ocp = 13110 Outside Corner Plate
- APC = 13121 Mod-U-Dock Corner Auger Piling Bracket
- u = 43432 "U" Bracket kit w/Bolt
- x = 69403 1/2 x 3" EYE Bolt Mooring Kit - ZN
- ***** = 13002 - Spline

USING 8" FLOATS

Buoyancy Calcs for Platform
 Net Buoyancy = 23.37 PSF
 Total Platform Capacity = 3,179 lbs.
 FREEBOARD 13" /136 SQ. FT.
 SUGGESTED CAPACITY - 6 PERSONS



ASSEMBLY & INSTALLATION (Suggested: Assemble and install in small blocks or stages if desired)

1. Attach Floats: **DO NOT INSERT FLOAT PLUG UNTIL READY FOR INSTALL**

- Tools needed: 5/16" Allen Wrench or large, flat blade screwdriver for float plugs, and a 1/2" socket for float fastener kits.
- Refer to the drawing to determine which float(s) are needed for each module.
Some modules will get 1 float, and others may get 2 floats.
- One float fastener kit is required for each float.
- Install the black 3/8" IPS plastic float plug in the top of the float (do not overtighten).
- Align float with the float brackets on the module and fasten using carriage bolts, washers, and nuts (do not overtighten). There are 4 brackets for each float.
Once all the floats are plugged and bolted you can start attaching the splines and lining up modules.



*** DO NOT INSERT FLOAT PLUG UNTIL READY TO BOLT ONTO MODULE FOR INSTALLATION**

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 floats drum.



Tools Needed

Align float on module

Make sure to align to float brackets

Fasten using carriage bolts

2. **Connect Modules:** *Depending on dock design you may need to build it in sections (mentioned above) and float them out while tied to shore.*
 - Tools needed: 3/4" socket wrench, 3/4" box, open-end or adjustable wrench.
 - Turn assembled modules right-side-up and put them in the water in numeric sequence.
 - Connect modules using the splines for alignment and fasten with 1½" x 4" bolts.
 - Install brackets as indicated on the drawings.
 - Connect modules and install bracket bolts hand tight.
 - Tighten bolts only until bracket face contacts the side of the dock module- do not overtighten
3. **Insert Splines:**
 - Insert the 1½" x 1¼" HDPE plastic splines in the pre-cut openings in the side rail of the module. There will be a pre-cut opening. *(Figure 1)*
 - When attaching modules, only one side of the module needs a spline and nail.
 - The spline will go half-way in the module while the other half sticks out. This will be marked. *(Figure 2)*
 - There will be a little hole on the side of the module for a nail. Hammer the nail into the spline that is sticking out halfway. *(Figure 3)*
 - Insert a spline into the other side of the module, and once the splines are halfway inserted on both sides, you can begin attaching the brackets and bolts. *(Figure 4)*
 - Connect the modules using the splines for alignment and fasten with 1 ½" x 4" bolts.

We recommend doing the side-by-side modules first if your design has modules that are side by side.



Figure 1



Figure 2



Figure 3



Figure 4

4. **Attach Brackets**
 - Tools needed: 3/4" socket wrench, 3/4" box, open-end or adjustable wrench.
 - Locate the bracket bolt package(s).
 - Install the brackets as shown on the drawing and tighten the ½" bracket mounting bolts hand tight only. When bolting up brackets and **K bolts** you will need to put on the bracket before the K bolts so the modules line up flush
 - If your dock has handrails, you will attach them to the modules on the outside of the bracket with the 4.5" bolts provided.



ACCESSORY INSTALLATION

- Tools needed: 1/2" and/or 9/16" socket wrench.
- Refer to the drawing for the location of accessory items.
- Install accessory items and/or backing plates on modules after installing the brackets and before putting the module in the water.

ANCHORING OPTIONS

1. **Auger Pilings:**
 - Tools needed: 9/16" socket, 24" pipe wrench or Mod-U-Dock Gahooley tool (optional).
 - Attach auger feet to galvanized steel tubes and secure with bolts.
 - Insert auger foot through the top of the PVC auger piling cover and bracket.
 - Screw piling into the bottom until secure (1-2 feet of insertion recommended for standard mud bottom).
2. **Anchor Cables:**
 - Tools needed: 3/4" socket wrench, 3/4" box, open-end or adjustable wrench.
 - Secure ramp or gangway to shore side anchor point.
 - Align dock system with ramp or gangway and secure with the module hinge pin.
 - Attach cable or chain to both the shoreside and dock anchor points and tighten.
3. **Existing Pilings:**
 - Tools needed: 3/4" socket, battery drill with 1/2" bit (if not pre-drilled).
 - Follow separate installation instructions for specific existing piling brackets.
4. **Stiff Arms:**
 - Extend reinforced, angled arms from the dock structure towards the shoreline, securing them to a seawall or other fixed point with cables.
 - The stiff arms are firmly attached to the dock structure, often utilizing the gangway as one leg of the arm.
 - Cables are run from the ends of the stiff arms to secure points on the shoreline, like a seawall or concrete abatement.

FINAL ADJUSTMENTS

Tighten Bracket Bolts:

- Tools needed: 3/4" socket wrench, 3/4" box, open-end or adjustable wrench.
- Double-check that all bracket bolts have been installed and tightened properly.
- Tighten bolts just snugly – do not overtighten.

Footnotes

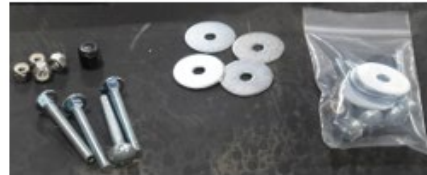
- **"K" – Module Fastener Kit:** Includes 1- 1/2" x 4 1/2" Hex Head Bolt, 2- 1/2" Standard Washers, 1- 1/2" Nylock Hex Nut.
- **"U" – Module Fastener Kit:** Includes 1- 16ga galvanized "U" bracket, 1- 1/2" x 4" Hex Head Bolt, 1- 1/2" Nylock Hex Nut.
- **Float Fastener Kit:** Includes 1- 3/8" IPS black plastic float plug, 4- 5/16 x 2 1/2" Carriage Bolts, 4- 5/16" x 1 1/2" Fender Washers, 4- 1/2" Nylock Hex Nut.
- **Module Spline Kit:** Includes 1- 1 1/2" x 1 1/4" x 24" HDPE Plastic Spline, 1- #10 x 1 1/4" Flat Head Retainer Pin.



"K" BOLT



"U" BRACKET



FLOAT FASTENER KIT



SPLINES