MODULAR RAILING SYSTEM

The Candock Modular Railing System has been developed with the same advantages as our Modular Floating Dock System. By allowing limitless configuration possibilities, they provide a tailored railing system for any Candock dock. The system consists of a few simple components that can provide a safe and aesthetical railing/guard rail for Candock docks.

Like our regular system, the railing/guard rail is installed on the Candock system using the same coupling mechanism. Depending on the specifications, geometries, application, and options required for your project, the same principles explained earlier apply. The coupling hardware and method vary depending on the post model.

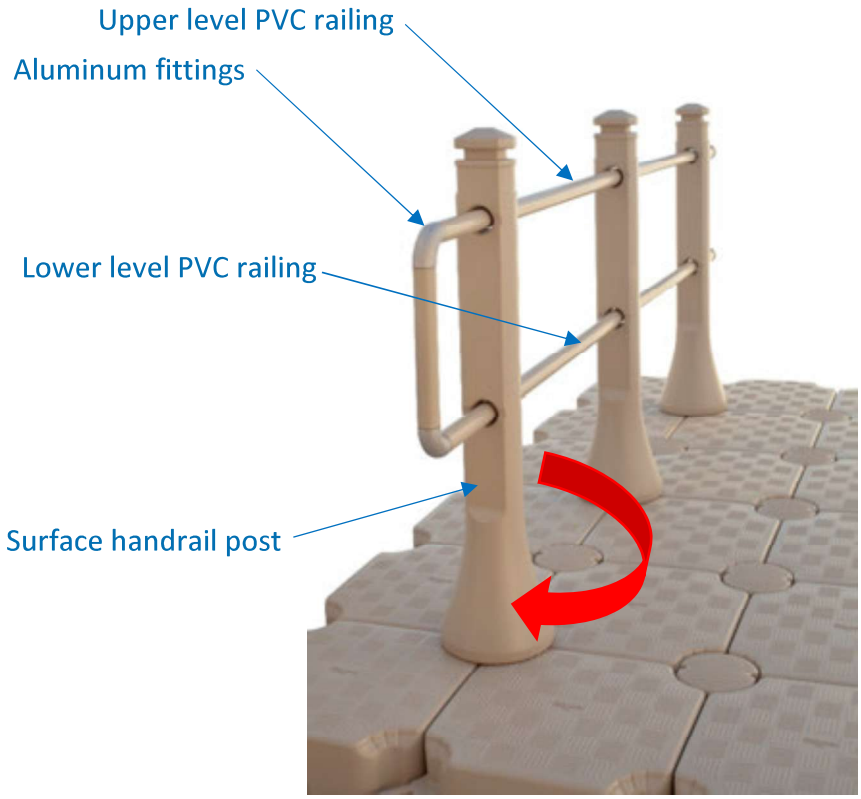
The PVC railings and aluminum fittings are connected using a simple "push-pin" quick connect system. These fittings allow for junctions in-between lengths of PVC (if a section is longer than 20') caps, 45 degree corners, and 90 degree corners that allow for any shape of dock. Ninety (90) degree fittings are also used to create a smooth yet sturdy ending at the end of each railing section (image below).

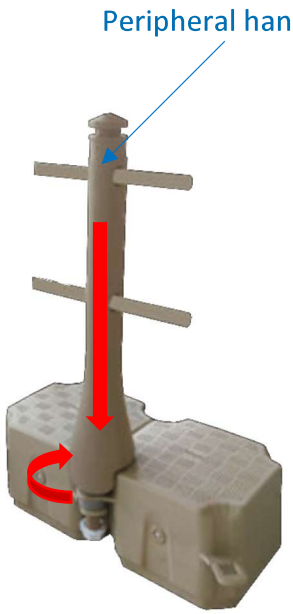
1-SURFACE POST

It can be considered as a "guard-rail" if installed at "2-cubes" intervals with Candock's PVC pipes. See the detailed specification sheet for more information. This model replaces a CONNECTING PIN and it is to be screwed in place in combination with a SLIDING NUT. Specific tools are to be utilized. Please refer to the tools sections in the Owner's Manuals for instructions.

2-PERIPHERAL POST

It cannot be considered as a "guard-rail". Must be installed at "2-cubes" intervals or less. This model is to be installed on the Candock System's perimeter and is installed in the same fashion as a BOLT FOR CUBE/NUT assembly.



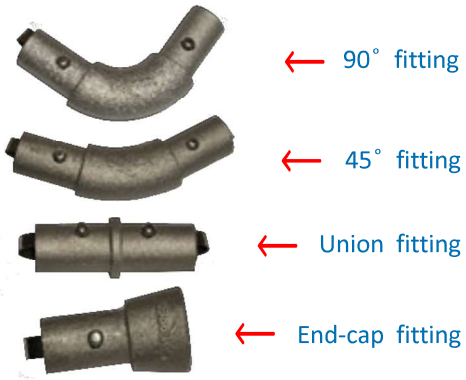


HANDRAIL POSTS AND RAILINGS (SURFACE AND PERIPHERAL)

SURFACE

PERIPHERAL

FITTINGS



USEFUL LINKS AND RESOURCES:

Website

YouTube

SPECIFICATIONS

Material/Composition: High-density polyethylene resin and casted aluminum
Available colors: Beige and Grey
Dimensions posts: Post height: 107.cm (42.3'') / Railing height: 92.1cm (36.25'')
Dimensions railings: O/D 4.19cm (1.65'') x L 6.09m (20') per section
Weight: Post 2.27 kg (5 lbs.)
Needed tools: Key for surface post or Key for nut, Drilling Template for Handrail.

SKU NUMBERS

SURFACE POST BEIGE: C03-000001
SURFACE POST GREY: C03-000002
PERIPHERAL POST BEIGE: C03-000003
PERIPHERAL POST GREY: C03-000004
PVC RAILING BEIGE: C03-000043
PVC RAILING GREY: C03-000044
90˚FITTING: C03-000028
45˚FITTING: C03-000027
UNION FITTING: C03-000030
END-CAP FITTING: C03-000029
DRILLING TEMPLATE FOR HANDRAIL: C04-000008

ASSEMBLY PROCEDURE

SURFACE POST

1-Determine the location of the post you wsnt to install.

2- Using the proper tool, remove the CONNECTING PIN that is in the selected location.

3-Insert the surface post and initiate the rotating process by hand.

4-When the SURFACE POST has access to the SLIDING NUT threads, proceed by screwing manually or mechanically with the proper tool.

5-Make sure to tighten the SURFACE POST until snug, without over-tightening.

NOTES

-Intervals (spacing) between each post should be of 2 cubes if the railing system is utilized as a guard rail. PVC railings should also be included at both levels (upper and lower) to provide sufficient rigidity for the whole assembly.

-A wider span can be considered if the railings are destined to provide walking/traffic assistance instead of preventing accidental falls off the dock.

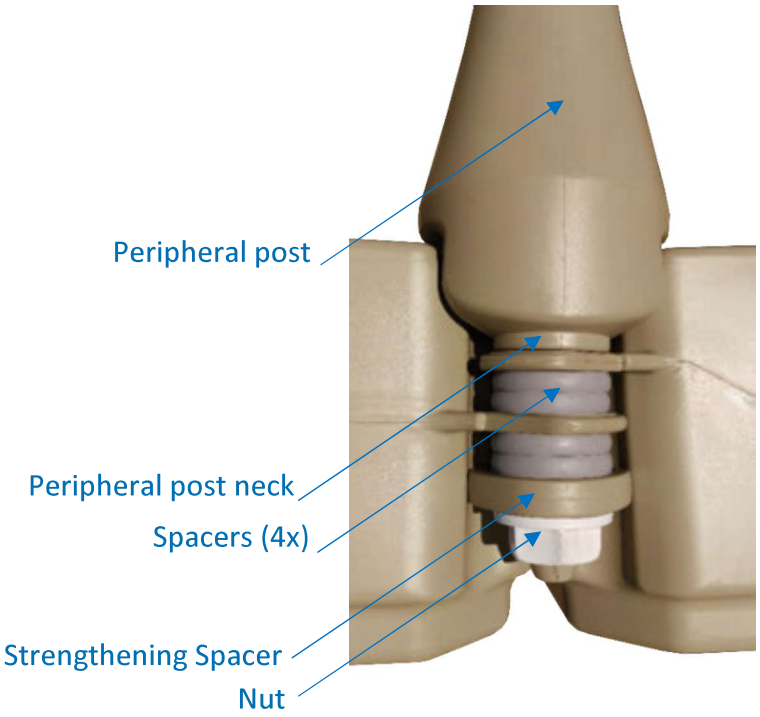
Ropes could be considered for the horizontal railings instead of PVC if the railings are destined to provide walking/traffic assistance instead of preventing accidental falls off the dock.

PERIPHERAL POST

1-Determine the location of the post you wish to install.

2-Remove the potential installed BOLT FOR CUBE / NUT assembly at the selected location using the proper tool.

3-Insert the surface post while making sure to include the needed SPACERS (4x) and STRENTENING SPACER (1x) as you insert the post on the cube's tabs. The STRENGTHENING SPACER is to be inserted at the lowest possible point on the post's shaft. The "regular" SPACERS are to be inserted at the connection point where the tab configuration creates a void in the assembly. No SPACERS should be included higher than tab #4 (see image). The "neck" of the post must be "sitting" directly on top of the tab (or spacer) #4.



4-Finalize the assembly by firmly tightening the NUT at the bottom of the post's shaft.

NOTES

-Intervals (spacing) between each post should be two (2) cubes to provide sufficient rigidity for the whole assembly.

-A wider span can be considered, but the railings lose considerable strength.

-Ropes could be considered for the horizontal railings as opposed to PVC tubes.

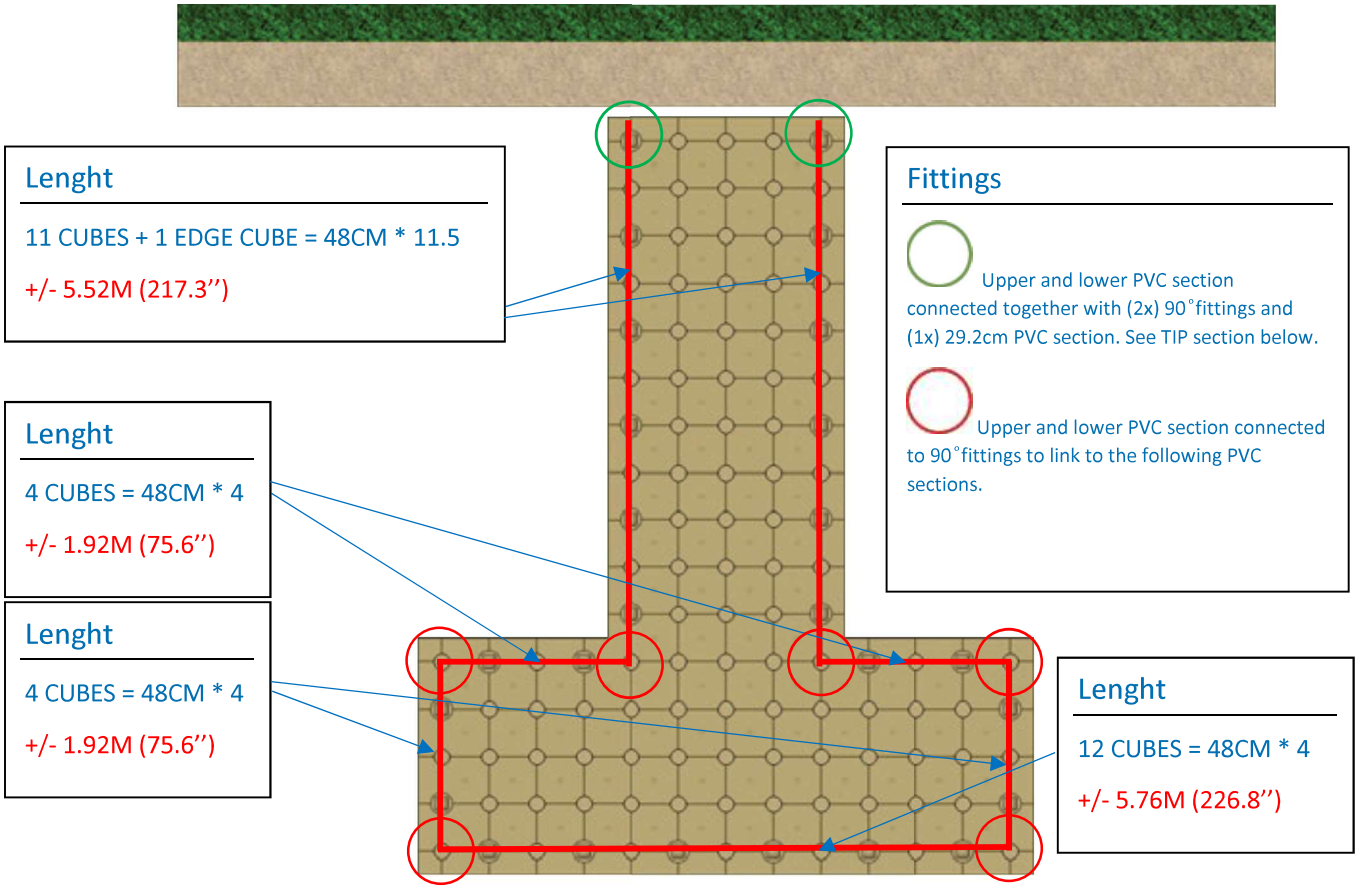
PVC PIPE RAILINGS

1-Determine the desired geometries of the railings.

2-By using multiples of 48cm (19") determine each PVC section's exact lengths. The maximal length of 1 PVC section is 6.09m (20'). To create longer sections, use the UNION FITTINGS. **Also, remember that each fitting added to an assembly requires a deduction in the PVC pipe length:**

-90 degrees fittings compensate for 3.17cm (1 ¼") in each direction.
-45 degrees fittings compensate for 3.17cm (1 ¼") in each direction.
-UNION fittings compensate for 6mm (¼") within a PVC section assembly.

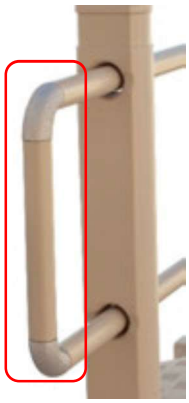
3-Measure and cut the PVC sections at the exact needed length using a regular wood miter saw and blade. See the below diagram.



4-Pre-drill the "quick connect" holes in each PVC section using the DRILLING TEMPLATE FOR HANDRAIL. The jig allows for accurate hole locations and thus ensures that all available fittings fit adequately.
5-Insert the PVC sections throughout the dock layout and connect them using the proper fitting.

TIP

-To create a stiffer assembly in a calm body of water, link the upper and lower PVC rails by adding a vertical PVC section of 29.2cm (11 ½") between (2x) 90° fittings. This step creates a stiffer assembly between the upper and lower PVC rails.



PRODUCT LIMITATIONS

-Regardless of the water conditions and main application of the floating dock, it is not recommended to use these handrails in conditions where waves are subjected to exceed 3 '(1m).

- Unless installed in an environment completely protected from wave action, the ropes or pipes must have buffers of at least 45cm (18") at each end to allow free movement of the ropes OR PVC pipes through the posts.

- If using rope instead of PVC pipes, we recommend using a rope possessing high resistance to friction and abrasion.

-If using PVC pipes, the corners or "end section" of the handrail system (45 deg. ,90 deg. End-cap) cannot withstand waves of more than 30cm (12") for extensive periods. We, therefore, recommend leaving any corner section or "end section" as free as possible by adding the necessary buffers to your pipe measurements.