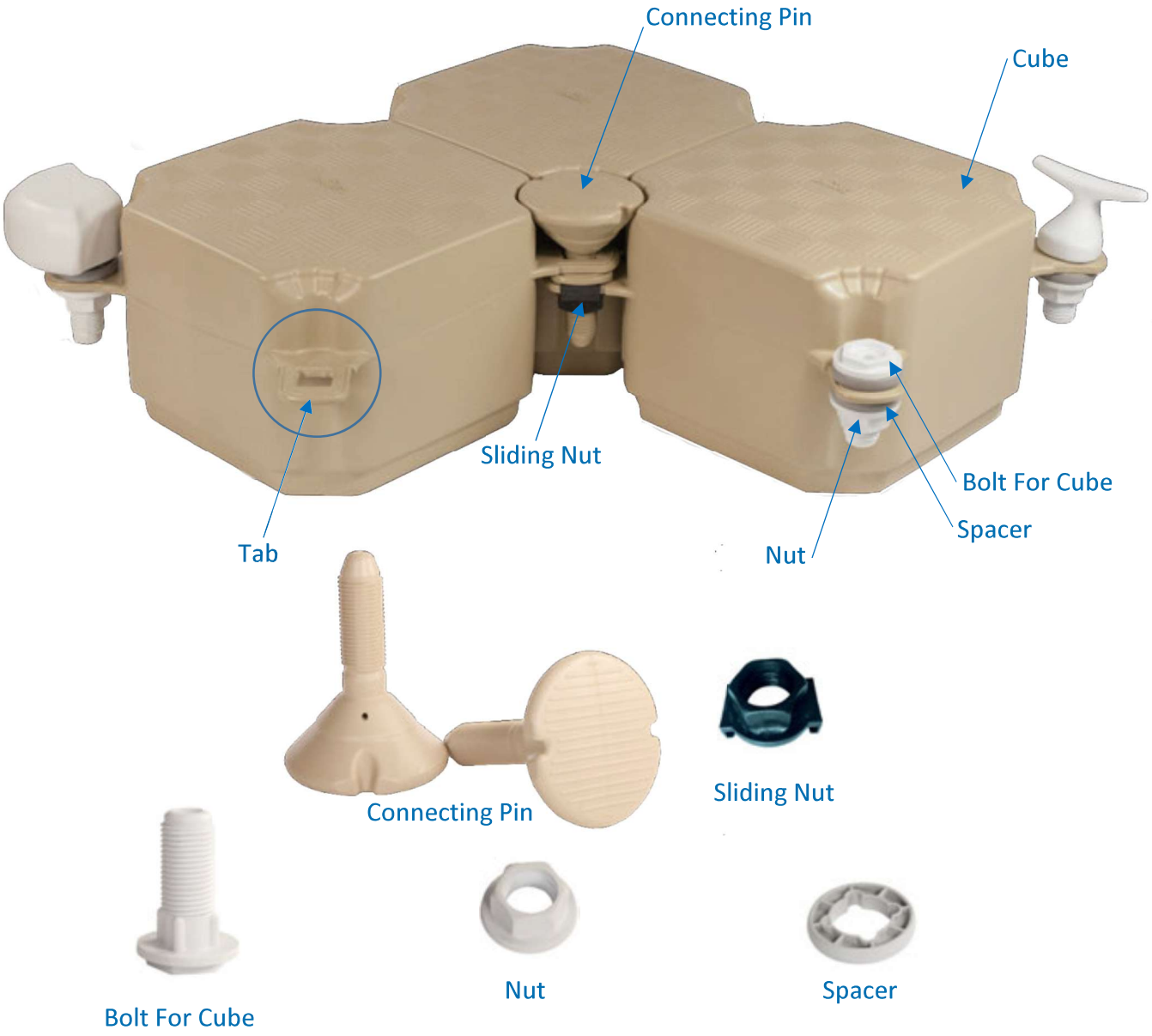
⊙ BASIC PRODUCTS

HOW CANDOCK WORKS

Before starting, here are some basic principles about the Candock Modular floating system that apply throughout the instruction manual. Our system relies on a simple yet proven coupling system to attach all its components.

Candock parts are secured together using a "Nut and Bolt/Screw" system. Depending on the specifications, geometries, application, and options required for your project, the below principles and concepts apply in different forms. The coupling hardware may vary depending on the location of the assembly point. Usually, the CONNECTING PIN and SLIDING NUT are used for coupling modules on the interior of the system. On the other hand, the BOLT FOR CUBE and NUT are used for coupling modules on the outskirt of the system.

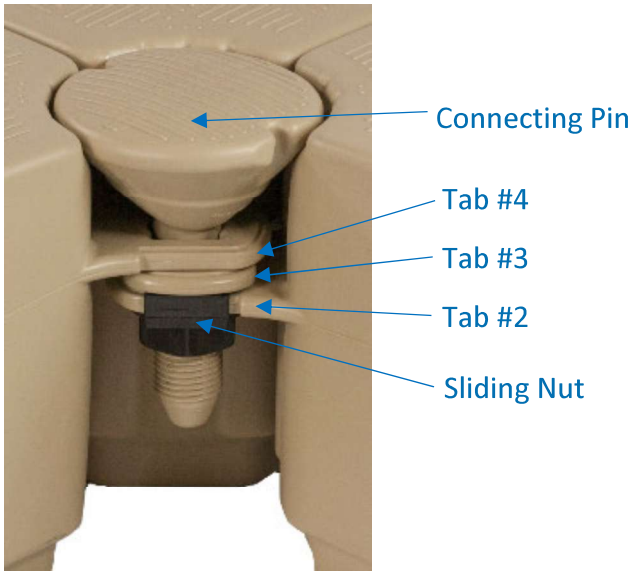


LAYERS AND TABS

The "Nut and Bolt/Screw" coupling system requires every tab to be coupled at a designated coupling point and must be overlapped adequately for the system to work. The images and diagrams below demonstrate which "layer" each tab of our different modules is using.

The lowest tab available in a designated assembly point holds the SLIDING NUT. The additional tabs of the cubes will be positioned in superimposed layers. If a gap (missing tab) is present as you overlap the tabs, the void is filled by a SPACER until you have reached the highest available tab in your assembly.

In the below image, layers #2, #3, and #4 are occupied by tabs 2, 3, and 4. On the lowest tab available in the assembly*, a SLIDING NUT is inserted on the tab to allow for the CONNECTING PIN's "male" threads to have traction in the "female" threads of the SLIDING NUT.



*Layer 1 (tab #1) is missing in the featured assembly to allow for the assembly's good viewpoint.

TAB POSITIONS

The basic components of the Candock system are using eight (**8) different layers** (tabs). Starting from the lowest tab, the sequence is as follows: -1, 0, 1, 2, 3, 4, 5, and 6. The regular CUBE uses tabs #1, #2, #3 and #4. The other components (CORNER CUBE and EDGE CUBES) are using tabs #-1, #0, #5, and #6. Throughout our manual, we use the below diagram to explain which layers (tabs) is utilized for each system/product.

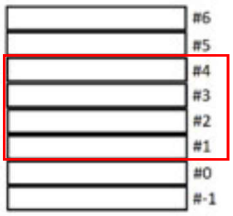


Diagram demonstrating which tabs are used.

In this case, the featured product/module utilizes tabs #1, #2, #3 and #4.

CUBES (REGULAR AND LOW PROFILE)

Regular

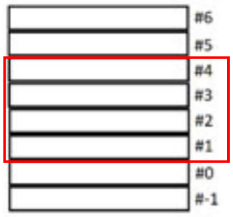
Low-profile

USEFUL LINKS AND RESOURCES:

YouTube

Website

TAB POSITIONS



SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: Beige, Grey
Surface: Anti-skid
Dimensions: L x W: 48 cm (19”) x 48 cm (19”) H: 36 cm (14”)
Dimensions (low profile cube): L x W: 48 cm (19”) x 48 cm (19”) H: 23 cm (9”)
Maximal Floating capacity Regular cube: 68 kg (150 lbs.) per cube
Maximal Floating capacity – Regular cube - per square meter (sq. ft): 272 kg per sq. m. (60 lbs. per sq. ft.)
Maximal Floating capacity Low profile cube: 50 kg (110 lbs.) per cube
Maximal Floating capacity – Low profile cube - per square meter (sq. ft): 210 kg per sq. m. (44 lbs. per sq. ft.)
Suggested working load – Regular cube - per square meter (sq. ft): 90 kg per sq. m. (20 lbs. per sq. ft.)
Weight: Cube: 5.5 kg (12 lbs.) / Low profile cube: 5 kg (11 lbs.)
Needed tools: G2 key for pin, Key for nut

SKU NUMBERS

G2 CUBE BEIGE: C01-000002
G2 CUBE GREY: C01-000001
LOW PROFILE G2 CUBE BEIGE: C01-000007
LOW PROFILE G2 CUBE GREY: C01-000008

TERMINOLOGY

TABS: Prominent grooved parts of the cube, located at different heights on each of the four (4) corners of the "cube" (tab #1 to #4, #1 being the lowest and #4, the highest). These tabs are an integral part of the Candock system. When assemble in groups of 4, the cubes create a larger square. At the center of this square, four (4) different tabs overlap each other. These tabs form a single opening and are meant to be coupled with our SLIDING NUT and CONNECTING PIN to form a unique structure.

PLUGS: These watertight plugs are always found on the cube side between tab # 1 and # 4. These plugs, made of breathable material, act as pressure release valves preventing any cube deformation due to temperature changes and pressure variations. Furthermore, these plugs prevent any condensation inside the cube.

NOTE: Fully sealed plugs (no pressure release valve) are also available if the cubes should be submerged for extended periods.

ASSEMBLY PROCEDURE

PRIOR TO INSTALLATION

1-During the installation of a dock, always have the plugs oriented towards the shore. This orientation uses fewer SPACERS and improves the aesthetic of your dock. If your configuration is meant to go along the shoreline instead of offshore (parallel to shore instead of perpendicular), align plugs towards the shortest side of your dock.

2-Always make sure to regroup four (4) different tab heights to complete your assembly. Make sure they are in their pre-destined position and that none of these are wrongfully overlapping each other.

3-Preassemble the dock in larger sections directly on the ground. Before putting the dock in the water, prepare the missing units of CONNECTING PINS and SLIDING NUTS and position them on each section's corresponding side. This step helps you save time.

PROCEDURE:

1- Prepare all items and have them unboxed close to your "assembly" area (cubes, connecting pins, sliding nuts, spacers, and tools)

2- Insert a SLIDING NUT on the lowest tab available at each connecting point.

3- Position the sections next to each other and ensure that the tabs are overlapping correctly. Fill in any empty layers in-between the tabs with SPACERS

4- Insert the CONNECTING PINS in the tabs as you progress and manually engage the threads.

5-Once the sequence of cubes is connected, complete assembly by firmly tightening the CONNECTIN PINS.

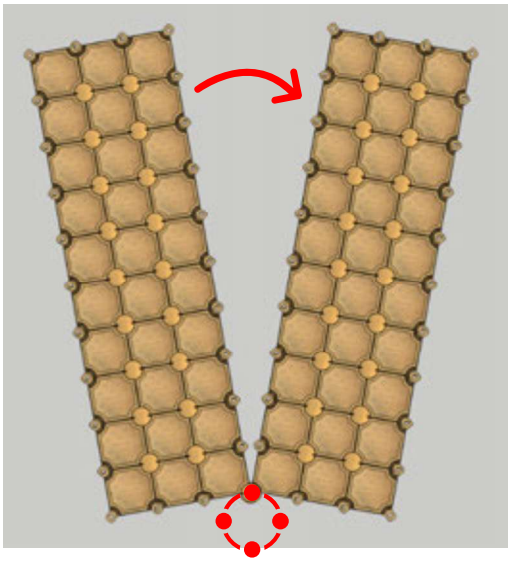
6- Add BOLT FOR CUBE and NUT assemblies on the entire perimeter of your dock. If necessary, do not forget to fill the empty layers in-between the tabs with SPACERS.

TRICKS AND TIPS: THE SCISSOR TECHNIQUE

While assembling bigger sections on the water, proceed with the following steps:

1-Insert SLIDING NUTS at each coupling point.
2-Insert a CONNECTING PIN as shown on the diagram
3-Bring the two sections side by side while correctly overlapping each tab.
4- Insert CONNECTING PINS at each coupling point and tighten firmly.

This technique helps you assemble big sections with ease.



EDGE CUBES (REGULAR AND CORNER)

REGULAR

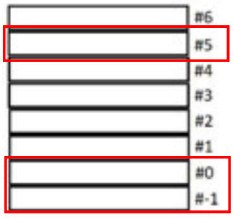
CORNER

USEFUL LINKS AND RESOURCES:

Website

YouTube

TAB POSITIONS



SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: Beige and Grey
Surface: Anti-skid
Dimensions: Regular: L x W: 48 cm (19”) x 24 cm ($9^{1/2}$”) H: 23 cm (14”)/ Corner: L x W: 24 cm ($9^{1/2}$”) x 24 cm ($9^{1/2}$”) H: 29 cm (11”)
Floating capacity: Regular 30 kg (66 lbs.) per cube
Weight: Cube: 4 kg (9 lbs.)
Needed tools: G2 key for pin

SKU NUMBERS

EDGE CUBE BEIGE: C01-000013
EDGE CUBE GREY: C01-000014
CORNER EDGE CUBE BEIGE: C01-000015
CORNER EDGE CUBE GREY: C01-000016

TERMINOLOGY

EDGE CUBE: Still using our regular "nut and pin" system on tabs, which are now located at different heights on 2 of the corners of Candock's EDGE CUBE, are still an integral part of the Candock system. When added to our regular CUBES perimeter, the EDGE CUBES create a smoother and more aesthetic finish while eliminating any prominent pieces on the outskirt of your dock. The EDGE CUBE tabs are located at a lower position than the regular G2 cube's tabs (#1 to #4). Representing layers "negative 1" and "zero" (-1 being the lowest and -zero ("0") being just above), these always need to be positioned underneath the regular CUBE'S tabs.

CORNER EDGE CUBE: Again, using our regular "nut and pin" system on a single tab located on one corner of the CORNER EDGE CUBE. When added to our regular CUBES perimeter, the CORNER EDGE CUBE creates a smoother and more aesthetic finish on the outskirt corners of your dock while eliminating the prominent part sticking out of the structure (G2 cube tab). The CORNER EDGE CUBE tab is tab #5, which is the same one as the two (2) lower tabs of the CORNER CUBE.

ASSEMBLY PROCEDURE

IMPORTANT NOTIONS

-Any tab layer that presents no tab must be replaced by a SPACER, starting from the lowest tab available going upwards.

-A SLIDING NUT is required on the lowest tab available (either "0" or "-1").

-Make sure you work on dry land with a flat and uniform surface. Installing EDGE CUBES in the water is possible, but the task is more challenging and requires a minimum of 2 people to proceed.

SEQUENCE

1- Prepare all items and have them unboxed close to your "assembly" area (cubes, connecting pins, sliding nuts, spacers, and tools)

2- Insert a SLIDING NUT on the lowest tabs available at each connecting point.

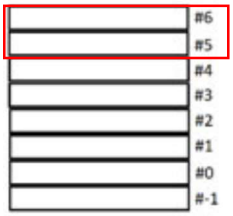
3- Position the sections next to each other, alongside the regular G2 CUBES assembly, and ensure that the tabs are overlapping adequately.

4- Insert the CONNECTING PINS in the tabs as you progress and manually engage the threads.

5-Once the sequence of cubes is connected, complete assembly by firmly tightening the CONNECTIN PINS.

CORNER CUBE

TAB POSITIONS



SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: Beige and Grey
Surface: Anti-skid
Dimensions: L x W: 48 cm (19”) x 48 cm (19”) ÷ 2 H: 23 cm (9”)
Weight: Cube: 4 kg (9 lbs.)
Needed tools: G2 key for pin, Key for nut

SKU NUMBERS

G2 CONRER CUBE BEIGE: C01-000011
G2 CORNER CUBE GREY: C01-000012

TERMINOLOGY

TABS: Prominent grooved parts of the cube located at two (2) different heights on each of the three (3) corners of the CORNER CUBE (tabs 5 and 6). Two of those tabs are identical, namely tab #5. The 3rd one, being slightly higher (tab #6), features a bigger and beveled opening to accommodate the CONNECTING PIN'S neck's conical shape. These tabs are also an integral part of the Candock assembly system. Utilizing layers 5 and 6, the CORNER CUBE can be installed anywhere around a Candock dock without interfering with the regular CUBES tabs (1, 2, 3, and 4).

ASSEMBLY PROCEDURE

IMPORTANT NOTIONS

-Any tab/layer that presents no tab must be replaced by a SPACER, starting from the lowest tab available, going upwards.

INTERIOR CORNER CONFIGURATION: SLIDING NUTS and CONNECTING PINS are required at each connecting point.

EXTERIOR CORNER CONFIGURATION: (1x) SLIDING NUT and (1x) CONNECTING PIN is required for the "inside connecting point. (2x) BOLT FOT CUBE and (2x) NUTS are required for the 2 "outside" connecting points.

SEQUENCE

1- Prepare all items and have them unboxed close to your "assembly" area (corner cubes, connecting pins, sliding nuts, bolts for cube, white nuts, spacers, and tools)

2- Insert a SLIDING NUT on the lowest tabs available at each connecting point.

3- Position the CONER CUBE alongside the regular G2 CUBES assembly and ensure that the tabs are overlapping adequately.

4- Insert the CONNECTING PINS in the "inside" openings as you progress and manually engage the threads.

5-Insert all needed SPACERS on the "outside" connecting points.

5- Insert the BOLT FOR CUBE on the "outside" tabs as you progress.

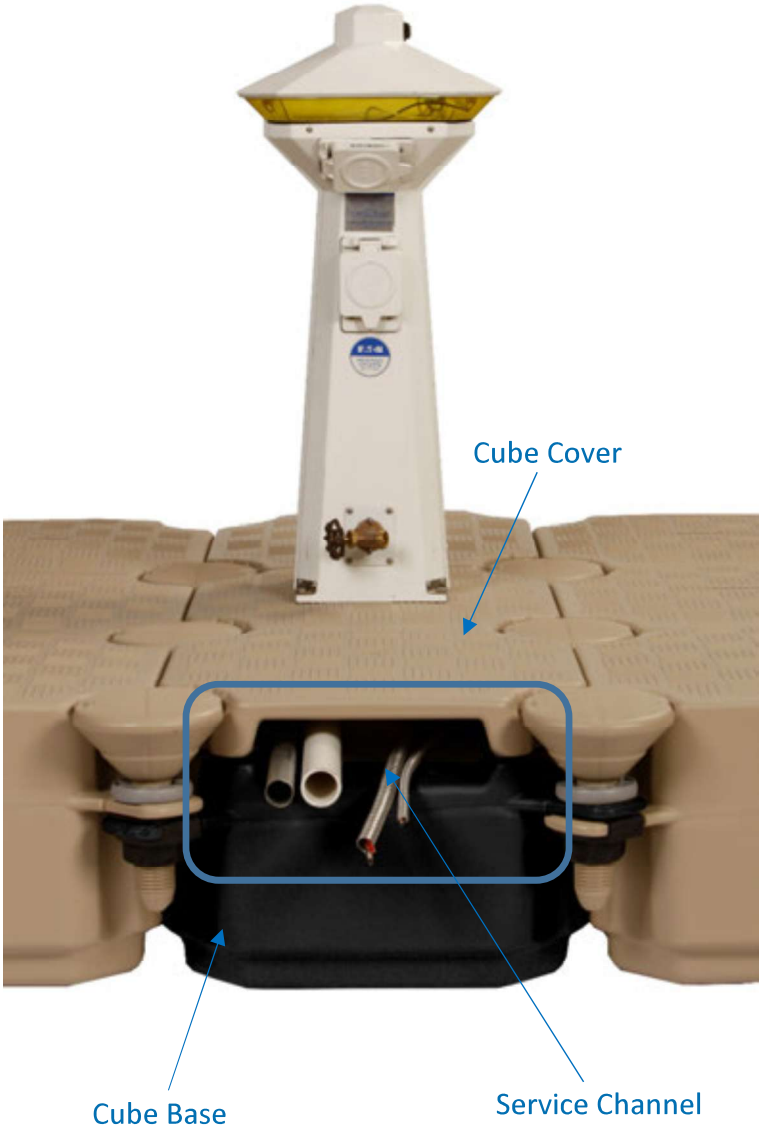
6-Manually engage the NUTS on the BOLT FOR CUBE as you progress.

7-Once the cubes' sequence is connected, complete assembly by firmly tightening the CONNECTIN PINS and BOLT FOR CUBE/NUTS assemblies.

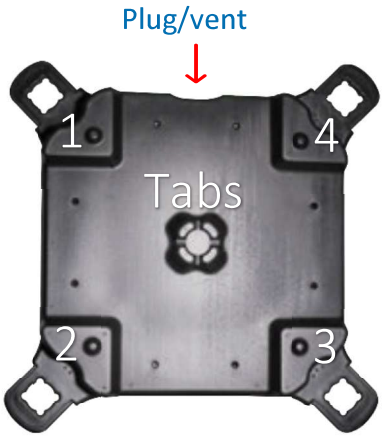
CANDOCK SERVICE CHANNEL

Before starting, here are some basic principles about the Candock service channel system. The service channel system abides by the same assembly concepts as our regular floating dock system while allowing many advantages. Consisting of a "2-piece" cube (the SERVICE CUBE BASE and the SERVICE CUBE COVER), multiple units' assembly allows marina service channels, outlets (freshwater outlets and electrical services) and our unique LED light system to be seamlessly integrated into our modular floating dock system.

As is the case with our regular system, all Candock parts are secured together using a "Nut and Bolt/Screw" system. Depending on the specification, geometries, application, and options required for your project, the same principles explained earlier apply. The coupling hardware may vary depending on the location of the assembly point. The CONNECTING PIN and SLIDING NUT are used for coupling modules inside the System's perimeter. On the other hand, the BOLT FOR CUBE and NUT are used for coupling modules on the outskirt of the system.



SERVICE CUBE BASE



COVER OPTIONS

Tile, Grey or Beige

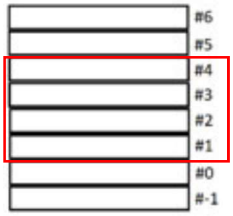
Tile LinQ, Grey or Beige

Translucent (used with our LED light system)

USEFUL LINKS AND RESOURCES:

Website

TAB POSITIONS



SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available color cube base: Black
Available colors cube cover: Beige, Grey, and translucent (**LED Light System**)
Surface: Anti-skid
Dimensions cube base: L x W: 48 cm (19”) x 48 cm (19”) H: 26.6 cm (10 ½”)
Weight cube base: Cube: 5 kg (11 lbs.)
Dimensions cube cover: L x W: 48 cm (19”) x 48 cm (19’’) H: 7.4 cm (2.9”)
Weight cube cover: Cube: 1.65 kg (3.64lbs.)
Maximal conduits diameter: 45mm (1.75’’)
Needed tools: G2 key for pin, Key for nut.

SKU NUMBERS

G2 SERVICE CUBE BASE BLACK: C01-000003
REGULAR SERVICE COVER TILE BEIGE: C03-000016
REGULAR SERVICE COVER TILE GREY: C03-000017
REGULAR SERVICE COVER TRANSLUCENT: C01-000010
LINQ SERVICE COVER TILE BEIGE: C03-000018
LINQ SERVICE COVER TILE GREY: C03-000019

TERMINOLOGY

TABS: Prominent grooved parts of the cube, located at different heights on each of the four (4) corners of the "cube" (tab #1 to #4, #1 being the lowest and #4, the highest). These tabs are an integral part of the Candock system. When rallied in groups of 4, the cubes create a larger square. At the center of this square, four (4) different tabs overlap each other. These tabs form a single opening and are meant to be coupled with our SLIDING NUT and CONNECTING PIN to form a unique structure.

PLUGS: These watertight plugs are always found on the cube side between tab # 1 and # 4. These plugs, made of breathable material, act as pressure release valves preventing any cube deformation due to temperature or altitude. Furthermore, these plugs prevent any condensation inside the cube.

TILE COVER

The TILE COVER must be surrounded by other cubes (REGULAR CUBES, SERVICE CUBES, CORNER CUBES, OR EDGE CUBES) on all four (4) sides. The four (4) surrounding connecting pins, especially their "slanted necks," compress the cover onto the cube's base, making it a sturdy and robust assembly.

ASSEMBLY PROCEDURE

PRIOR TO INSTALLATION

1-During the installation of a dock, always have the plugs oriented towards the shore. This orientation uses fewer SPACERS and improves the aesthetic of your dock. If your configuration is meant to go along the shoreline instead of offshore (parallel to shore instead of perpendicular), align plugs towards the shortest side of your dock.

2-Always make sure to regroup four (4) different tab heights to complete your assembly. Make sure they are in their pre-destined position and that none of these are wrongfully overlapping each other.

3-Preassemble the dock in larger sections directly on the ground. When in the water, prepare the missing units of CONNECTING PINS and SLIDING NUTS and position them on each section's corresponding side. This step helps you save time.

NOTES:

-As the SERVICE CUBE is composed of 2 parts (base and cover), including the covers or not in your pre-assembly (i.e., "4-pack" of cubes) depends on the application, geometries, and the environment you are working in. Contact your local Distributor or Candock's head offices for more information and insight in this regard.

The below procedure, we include the covers on the cube bases in our assembly.

PROCEDURE:

1- Prepare all items and have them unboxed close to your "assembly" area (cube bases, cube covers, connecting pins, sliding nuts, spacers, and tools)

2- Insert a SLIDING NUT on the lowest tab available at each connecting point.

3- Position the sections next to each other and ensure that the tabs are overlapping correctly.

4- Position de TILE COVERS onto the cube's bases.

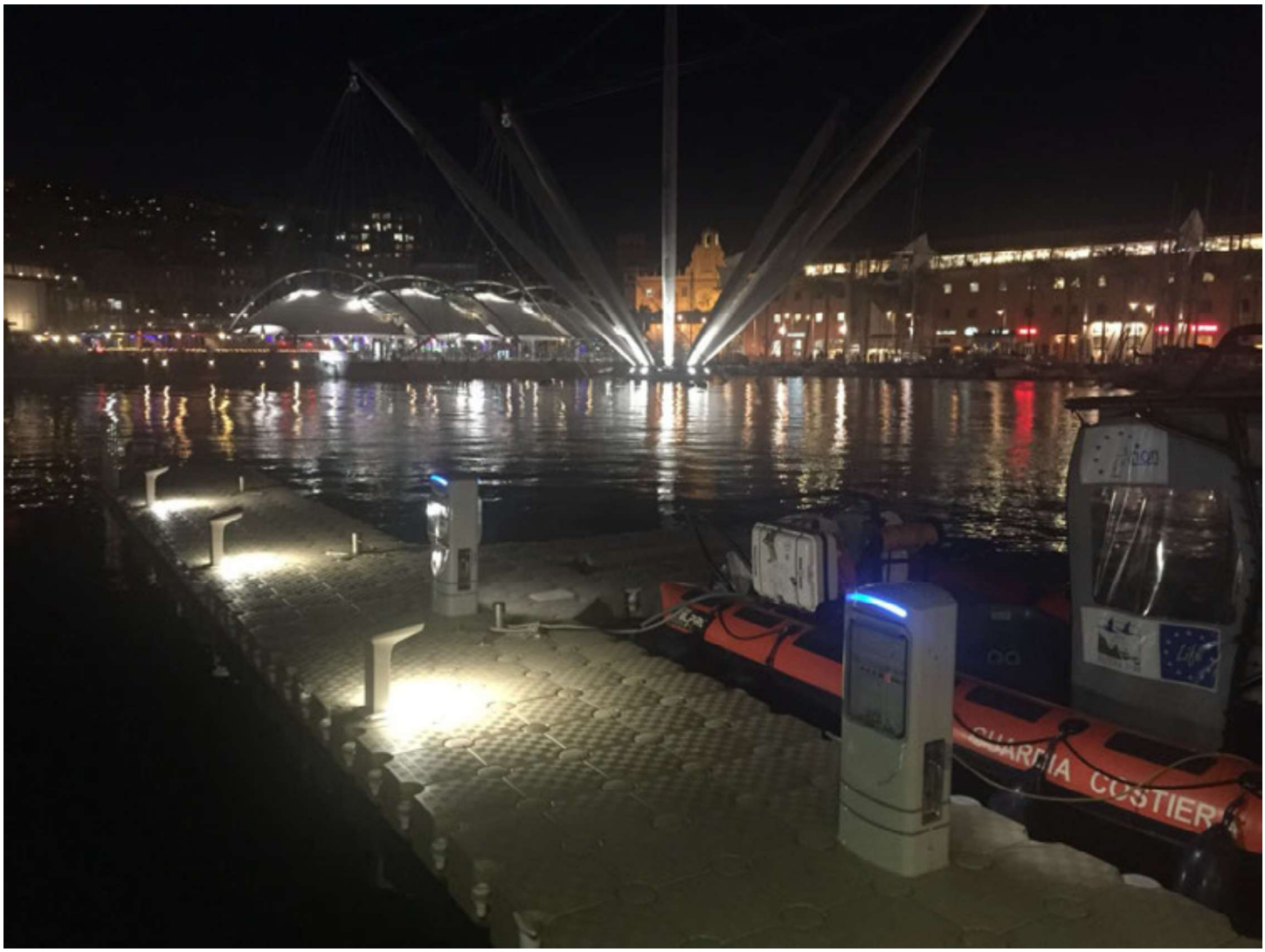
5- Insert the CONNECTING PINS in the tabs as you progress and manually engage the threads.

6- Once the sequence of cubes is connected, complete assembly by firmly tightening the CONNECTIN PINS.

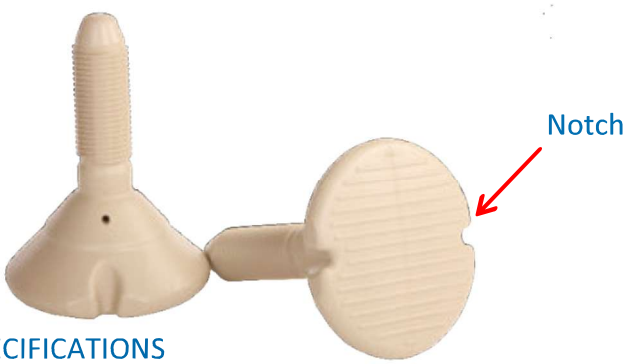
7- Add BOLT FOR CUBE and NUT assemblies on the entire perimeter of your dock. If necessary, do not forget to fill the empty layers in-between the tabs with SPACERS.

SERVICES CONDUITS (WATER AND ELECTRICITY) – POWER PEDESTALS – LED LIGHT SYSTEM

The final step of routing electrical cables, water pipes, or our LED light system can be done at various stages of your assembly. Depending on the application, the geometries, and the environment you are working in, a working method will be determined. Contact your local Distributor or Candock's head offices for more information and insight in this regard.



CONNECTING PIN



SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: Beige, Grey
Surface: Anti-skid
Dimensions: L : 24 cm (9.6”) x W: 17.2 cm (6.88”) / Shaft diameter : 4.547 cm (1.819”)
Wall thickness: .0750 cm (0.300")
Needed tools: Assembly key for G2 connecting Pin

SKU NUMBERS

G2 CONNECTING PIN BEIGE: C01-000004
G2 CONNECTING PIN GREY: C01-000005

TERMINOLOGY

HEAD: Upper part of the CONNECTING PINS designed with a flat and anti-skid surface.

NOTCH: Manufactured recess in the pin's head that allows the tool to insert the key for screwing and unscrewing.

SHAFT: Make part of our coupling system; the threaded rod is inserted in our CANDOCK SLIDING NUTS.

ASSEMBLY PROCEDURE

1-Initiate the rotating process by hand.

2-When the CONNECTING PIN has access to the SLIDING NUT threads, proceed by screwing manually or mechanically with the proper tools.

3-Make sure to securely tighten the CONNECTING PINS until snug, without over-tightening them.

TIPS

1-When initially inserting the CONNECTING PINS in place, you can firmly "tap" the pin in place. Tappig the connectin pin ensures a firm "initial" grip of the shaft threads into the SLIDING NUT. Likewise, this "tap" helps you get the pin through the four (4) cube tabs resting on top of the SLIDING NUT.

2-Once the assembly process is completed, align the NOTCHES of every CONNECTING PIN using the manual key. This simple operation allows to quickly locate any CONNECTING PINS which could have unscrewed over time.

3-Always proceed with caution if using a power drill to fasten the CONNECTING PINS; the drill can tend to "kick." Use protective footwear. If using a power drill to unscrew pins, always loosen-up the pins manually before using the drill.

4- Never use an "impact tool" to fasten the connecting pins; it can damage the connecting pins and the assembly key for the drill as well.

SLIDING NUT

Material/Composition: High-density polyethylene resin
Available colors: Black

SKU NUMBER

SLIDING NUT: C01-000017

TERMINOLOGY

CHANNELS: Hooks molded on each side of the SLIDING NUT to securely insert the nut on the cube tabs.

ASSEMBLY PROCEDURE

Insert SLIDING NUT on the lowest available tab of the connection point.

TIPS

Always make sure no SLIDING NUTS are forgotten during the assembly process. This could result in having to dismantle the whole structure in two (2) pieces to re-insert the missing nuts.

BOLT FOR CUBE

SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: White
Needed tools: Key for nut

SKU NUMBER

BOLT FOR CUBE: C01-000019

TERMINOLOGY

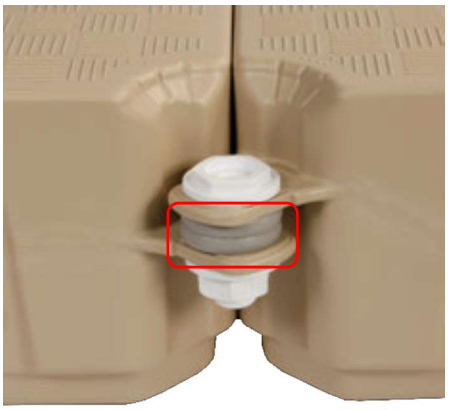
AUTO LOCKING RIBS: Locking ribs that ease the process of screwing and un-screwing the NUT from the BOLT FOR CUBE as it's locking into the cube tabs.

ASSEMBLY PROCEDURE

Insert BOLT FOR CUBE into the cube tabs at every connection point that another Candock accessory hasn't secured. Secure by firmly screwing the NUT with the proper tool. (KEY FOR NUT or RATCHET KEY FOR NUT)

TIPS

-It's very important to include the BOLT FOR CUBE and NUT combination on the entire perimeter of every Candock installation. This will greatly strengthen the cube assembly and assuring the longevity of the installation.
-If possible, we suggest fastening the BOLTS FOR CUBE and NUTS before putting the dock in the water. Proceeding on dry land eases the whole process.
-Make sure to include the needed SPACERS if the tab configuration creates a void in the assembly.



NUT

SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: White
Needed tools: Key for nut

SKU NUMBER

NUT: C01-000018

ASSEMBLY PROCEDURE

Insert on each BOLT FOR CUBE and firmly tighten using the proper tools.

SPACER

SPECIFICATIONS

Material/Composition: High-density polyethylene resin
Available colors: Grey

SKU NUMBER

SPACER: C01-000020

ASSEMBLY PROCEDURE

Include spacers at every connection point where the tab configuration creates a void in the assembly.