



# Assembly Instructions: Large Atrium Enclosure



### Care of Clear PVC panels (for Clearside cages only)

There are two version available: Screen and Clearside. The clear PVC panels can be cleaned by using a cotton cloth and some distilled water. Do not use paper towels which can be abrasive. A T-Shirt works well. We suggest using distilled or Reverse Osmosis water for your misters to eliminate the minerals that are usually found in tap water.











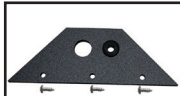
### Unpacking

Please use scissors to cleanly cut all the packing material. The cage has large panels which must be unpacked very carefully to avoid scuffing the screen or clear portions (depending on what version you selected). If you have a ClearSide version, take special care to not rub any of the packing material against the clear PVC material.

When you are unpacking any panel that has white PVC strips riveted onto the framing, you may hear rattling inside the frame. That is a function of pop riveting. You may ignore the noise as it has no affect on cage functionality.

**WARNING: During assembly, gently and firmly twist the screws in, but DO NOT OVERTIGHTEN. Tighten until the screw is fully and firmly in and then STOP. A stripped hole cannot be recovered.**

### Parts List:

<p>8 * 3/8" + 36 * 3/4" Cage Panel Screws (A) </p> <p>Dragon Ledge Bag (B) </p> <p>12 * 1/2" Screws Back Mending Plate (C) </p> <p>2 * Vine Loops (+ 2 screws) (D) </p> <p>2 * Door Handles (+ 4 screws) (Clearside Version Only) (E) </p>	<p>F </p> <p>G </p> <p>H </p> <p>I </p> <p>J </p> <p>F) 8 * Dragon Ledge          G) 8 * Dragon Ledge Spacer          H) 4 * Horizontal Dragon Ledge Brace          I) 2 * Vertical Dragon Ledge Brace          J) 1 * Back Mending Plate</p> <p> K) 2 * Hydration Mount (+ 3 screws)</p>	<p><u>Panel List</u></p> <p>A1 Back Panel Left          A2 Back Panel Right          B Right Panel          C Bottom Panel          D Left Panel          E Top Panel          F White Floor Panel          G1 Upper Face Panel          G2 Middle Face Panel          G3 Service Door          H1 Door Left          H2 Door Right</p>
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# Assembling the Large Atrium Enclosure

1) **Construct Back Panel.** Find back panels A1 and A2. You will connect these together using the Back Mending Plate (J). The Back Mending Plate is the long black plastic strip which has six pairs of holes along its length. Align the holes with the pre-drilled holes on the back panels. Use the twelve 1/2" screws in bag C.

## 2) Attach Dragon Ledges to Back and Side Panels.

Dragon Ledges are anchors that allow large horizontal branches, potted plants, and other landscaping items to be mounted on the cages walls without stressing the screen or clear PVC material. The Dragon Ledges are able to be installed at any level that supports your interior design. The sides have two independent horizontal Ledges and the back has two vertical pairs. If you are not sure where to place the ledges then consider:

**Side Top Ledges** - about 10" from the top panel (for perching branches if using a standard UVB bulb with 12" effective range).

**Side Bottom Ledges** - About 12" from the bottom.

**Back Ledges** - down the middle of each of the individual back panels

Of course, do not cover up any pre-drilled screw holes as you will need those in coming steps!

*Reference the instruction sheet on Installing Dragon Ledges for installation directions.*

3) **First Half Cage Build.** Find the A1/A2 Back Panel, B & D Side Panels, and the C Bottom Panel. Each panel is also labeled "back", "front", or "top" to help you determine which side faces where. The label side is to the inside of the cage except for the Bottom Panel. **Do not leave a partially assembled cage of less than three panels without support.** Three or more panels produce a stable structure. All frame connections use the longer 3/4" screws from the Cage Panel Screw Pack bag (A). *ClearSide version only: The clear panel is on the left when looking at the front of the cage and the screen side panel is on the right.*

4) **Assemble Top Panel.** Find the E Top Panel. Install your two Vine Loops from bag (D) in the pre-drilled holes on the inside of the top panel.

Refer to the instruction sheet on installing the Hydration Mounts (K) at this time. Misting nozzles are NOT included with the cage and must be purchased from the misting system manufacturer. Verify compatibility with the Hydration Mount. The Hydration Mount will fit the standard misting nozzles from Mist King and Cli-Mist. The 1/4" input can be used as an entry point for Exo-Terra Monsoon tubing.

5) **Attach Top Panel.** This step is easiest started with the assembly on its back.

6) **Attach Front Panels.** Install G1 Upper Face Panel and G2 Middle Face Panel

7) **Clearside version ONLY: Install Door Handles from bag (E)** on H2 Door panel and G3 Service Door. Full screen versions already have door handles installed by the factory.

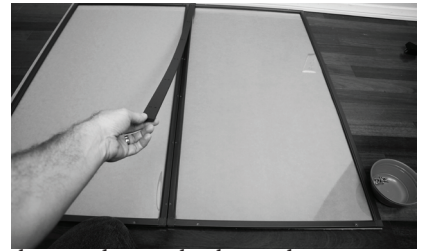
8) **Attach Doors.** Use the shorter 3/8" screws from Cage Panel Screw Pack bag (A) to attach H1 & H2 Door Panels to the hinges on the side panels.

**IMPORTANT NOTE: When opening the Left Door Panel make sure the Hold Tabs are turned away to release the door. Opening the door with either top or bottom Hold Tabs holding it will damage the Hold Tabs.**

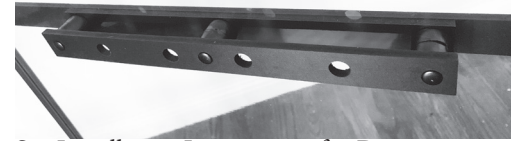
9) **Attach Service Door.** Put G3 Service Door in place and fasten it from the sides with the last two longer 3/4" screws from bag (A). This panel gets only two screws to allow it to swing up and open. Hold Tabs on the sides panels hold the service door closed and must be twisted to the up position to open the Service Door

10) **Slip in F White Floor Panel** through the open Service Door to rest on top of Bottom Panel. Holes smaller than the insect size you are feeding to your pet may be drilled in the floor panel to aid in drainage. If the Drip Easy Drainage System is purchased then you have the option to replace the white plastic floor panel with the screen panel provided with the Drainage Tray.

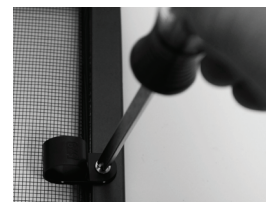
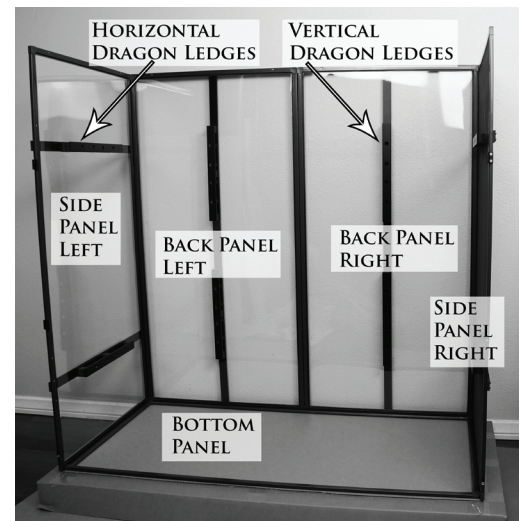
**Cage Completed! Time to landscape!**



Combining the two back panels into one piece by mending them together.



See Installation Instructions for Dragon Ledges for details on how to install.



Installing Vine Loops Bag (D)



Installing Hydration Mount (K)





# Dragon Ledges

## Installation Instructions

**Introduction.** Your Dragon Ledges allow you to create an internal landscape for your screen cage. These solid anchors distribute weight to the frame instead of the screen. Using these ledges you are free to hang plants or create interior landscapes. Instructions are the same with both screen panels and clear PVC panels.

**Installation of the Dragon Ledges is done in four main steps.**

- 1) Verify Contents
- 2) Attaching the Back Braces to the outside aluminum frame
- 3) Preparing the entry into the cage
- 4) Assembling the Dragon Ledge on the inside

### Verify Contents

**Contents.** Each Large Atrium Enclosure contains 4 horizontal Dragon Ledges for the sides and 2 vertical Dragon Ledges pairs for the back.

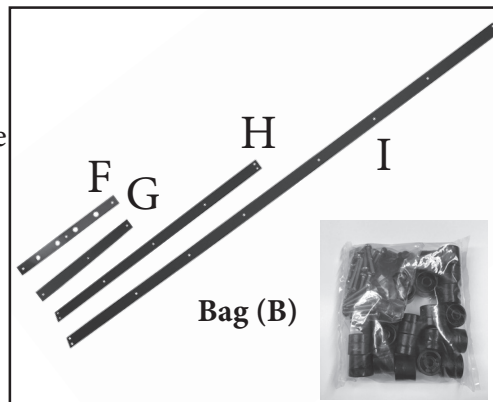
Qty: 8 (F) Ledge

Qty: 8 (G) Spacer

Qty: 4 (H) Horizontal Side Brace

Qty: 2 (I) Vertical Back Brace

Qty: 1 (B) Parts Bag



### **Contents of Bag B**

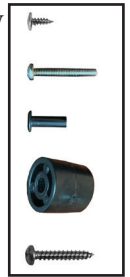
Qty: 24 (V) Mounting Screw

Qty: 24 (W) Machine Screw

Qty: 24 (X) Threaded Cap

Qty: 24 (Y) Spacer Barrel

Qty: 1 (Z) Hole Screw



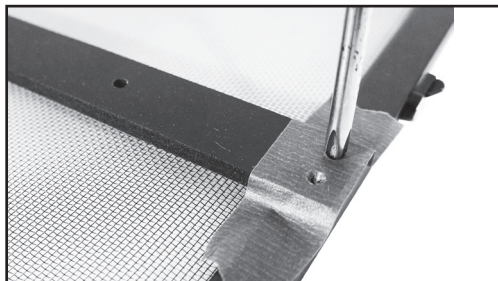
### Attach Braces

Note: Dragon Ledges may be installed on assembled cages, but it is much easier to install them on panels laying flat on the floor. It is recommended you install Dragon Ledges before assembling the cage.

The strength of the Dragon Ledges is that they transfer all the weight to the aluminum frame which is quite strong relative to what we need to hang in the cage. There are no pre-drilled holes to allow you the freedom to place the Dragon Ledges in whatever location suits your needs. The Mounting Screws (V) are designed to self-tap so a constant pressure and a firm turning of the screw will puncture the aluminum framing and provide a tight fit. If you are not comfortable with this action then you may drill a pilot hole first.

The one limitation is that the Dragon Ledges were not designed to be mounted on the top panel and support weight hanging down. One thing to always keep in mind is to make sure you are using the correct length Brace for the panel. Before you screw the Brace down, verify that the mounting holes on both sides align with the frame.

If you are unsure where you want to position the Dragon Ledges I suggest splitting the panel evenly. If you are doing a side panel with two Dragon Ledges then split the cage in thirds. If you are doing a back panel with one Back Brace, go down the middle. There are two things to watch out for. The first is to make sure you do not cover up mounting holes that you will need later or block movement of hinges or tabs. The second is to not worry so much if the Dragon Ledge assembly is not in the exact middle. "Approximate" works just fine in this case!

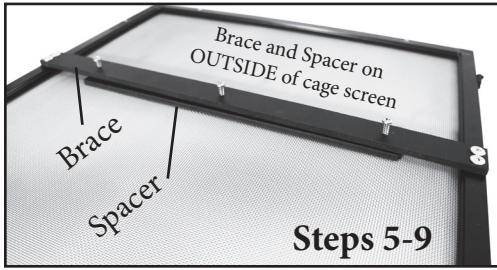


Steps 1-4) Affixing the Brace to the outside of the frame.

- 1) Position your first Brace (H) in the desired location on the outside of the screen panel. You will know the outside of the panel because the sticker labels are on the inside. There should be a gap between the Brace and the screen/clearside material. With the Large Atrium Enclosure, Brace (H) is used horizontally for the side panels while Brace (I) is used vertically for the back panels.
- 2) Verify that that both ends of the Brace have the mounting holes directly over framing so that the mounting screws will be able to go directly into the aluminum frame.
- 3) Use masking tape to hold the Brace in place while you install the screws. This allows you to move the Brace around until it is in a position that you are happy with.
- 4) Once you are happy with placement, use a Phillips head screwdriver, pen, or any other small object to open a hole in the tape for the Brace mounting hardware.

5) Insert a short Mounting Screw (V) into the center of the hole. Press firmly on the short screw and slowly twist it into the aluminum frame of the cage. Make sure you are stable and do not slip. Alternatively, you may use a powered drill with a 1/8" drill bit to create a pilot hole that will allow easier installation.

6) Fasten the screw in a couple of turns to firmly lodge it and then carefully remove the masking tape (if used) from around the Mounting Screw and Brace.



7) Continue to twist the screw in until it is tight. Do not over tighten the screw as you will strip the aluminum framing.

8) Fasten in a Mounting Screw on the other side using the same method of starting the screw as with the first one. Once both sides have an attachment point you may repeat steps 3 through 7 for the other mounting points.

9) Slip in the Spacer (G) between the Brace and the screen/clearside. Hold it in place by dropping three long Machine Screws (W) into the Brace mid-holes and aligning the Spacer so the screws go into the three pre-drilled holes along the length of the Spacer.

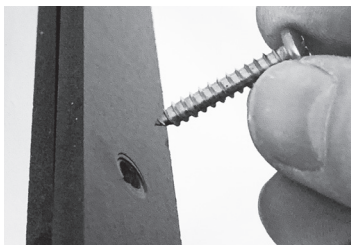
## Preparing Entry into the Cage

Dragon Ledges work by transferring the weight from the inside of the cage to the outside Brace that is firmly anchored on the framing. This does mean that we need to go through the screen or clearside material. You will be creating three small holes to create a metal core to each of the Dragon Ledge anchor points that will go from inside to outside. Many people balk at creating holes in the sides of their new cage. But these holes will be completely covered and unnoticeable. Dragon Ledges are an integral part of a cage and there should be no reason to remove them once they are in place.

10) We will now create the first entry hole by removing the machine screw in the middle hole and replacing it with the self-tapping Hole Screw (Z). You will use the pointed end of the Hole Screw to poke a hole through the screen/clearside. This hole only needs to be enough that the machine screw can be pushed through.

11) Remove the Hole Screw and replace with the Machine Screw.

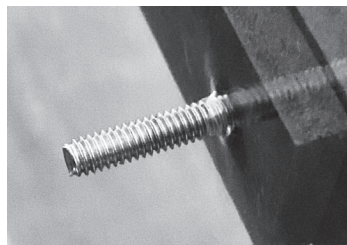
12) Repeat step 10 – 11 for each of the three holes.



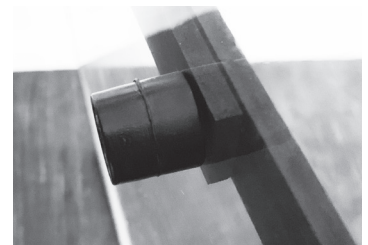
Step 10) Use Hole Screw (Z) to make a clean hole in the side



Step 10) The Hole Screw can be twisted to help it through



Step 11) Replace the Hole Screw with the Machine Screw



Step 13) Slide on the Barrel Spacer on each screw.

## Assembling the Dragon Ledge on the inside

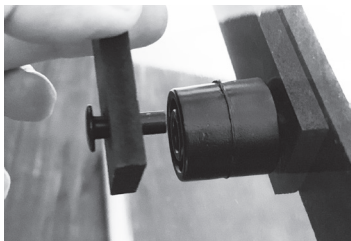
13) Push the Machine Screw (W) all the way through and insert one Spacer Barrels (Y) on each.

14) Hold the Dragon Ledge (F) to one Spacer Barrel and insert a Threaded Cap (X) into the mounting hole

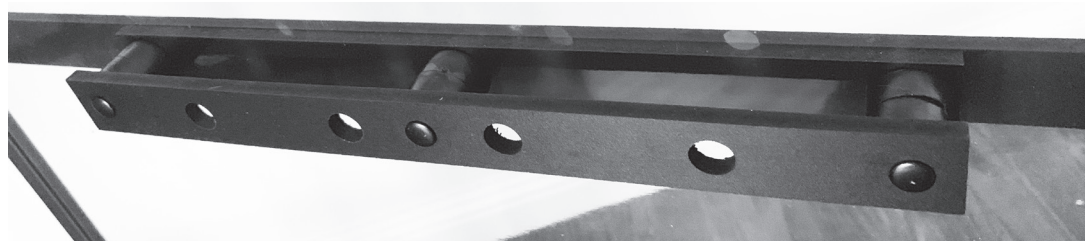
15) Hold the Threaded Cap tightly in place while you screw the Machine Screw into it.

16) Repeat steps 14 – 15 for all Spacer Barrels

17) Tighten all Machine Screws to ensure that the Dragon Ledge Assembly acts as one solid piece



Step 14 - 15) Create metal core with screw and threaded cap



The final Dragon Ledge assembly viewed from the inside of the cage.

**Your Dragon Ledge is installed. Repeat for your other Dragon Ledges!**

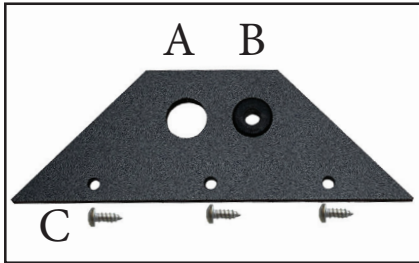


# Hydration Mount

## Installation Instructions

### Introduction.

The Dragon Strand Hydration Mount was designed to allow hydration devices to access the inside of your cage. There are two holes. The larger hole is designed to fit standard misting nozzles from Mist King and Cli-Mist while a second grommeted hole allows access for 1/4" tubing. The 1/4" tubing can be used for a plant drip system or to bring a Exo-Terra Monsoon mist nozzle inside the cage.



### Hydration Mount

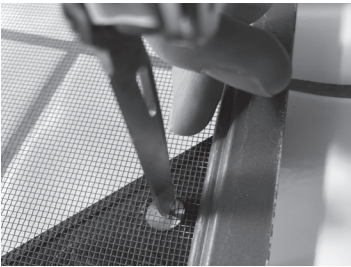
**A) Misting Nozzle Hole. Industry standard Misting Nozzle (not included)**

**B) Tubing Hole. Grommeted hole for 1/4" tubing**

**C) Mounting holes and mounting screws**



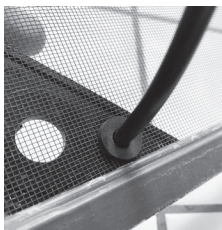
Steps 1-3



Step 4



Step 5a



Step 6

### Installation Instructions

The Dragon Strand Hydration Mount is designed to be mounted anywhere along the inside top frame.

- 1) If you intend to use the 1/4" tubing input then carefully remove the rubber grommet before mounting it to the frame. To remove it, pinch the grommet together and push it through the hole.
- 2) Select a mounting location on the side of the top frame that will be inside the cage. The hydration mount should be flush with the screen. Ensure both that the mounting holes are solidly on the frame and that the Mist and tubing holes are not blocked by the frame. It is helpful to have the Misting Nozzle you desire to mount handy as you will need to ensure that the mount nut for the misting nozzle will be able to be screwed on without the frame interfering. .
- 3) Use the three included self-tapping screws to attach the Hydration Mount.

### Installing a Misting Nozzle or Tubing

- 4) Use a sharp knife to cut a "+" pattern through the screen above the hole you will be using.
- 5) If using a Misting Nozzle then remove the Misting Nozzle Nut, push the threaded stem up from inside the cage through the Hydration Mount and screen, and then tighten the nut back on to a tight fit.
- 6) If installing 1/4" tubing then push the grommet on the tubing and then push the tubing from the outside, through the tubing hole, and use physical force to push half the grommet through the hole.

