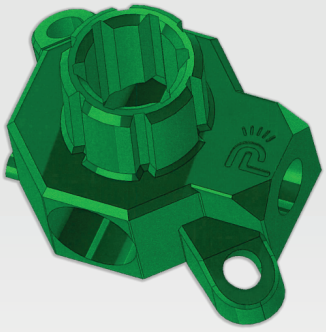


Leaping Arch

Assembly Instructions

Thank you for your purchase! Please read the following instructions before proceeding with the installation of your leaping arch bases.

- Materials -

- 2x arch bases, 2x strip clips, 4x 4" zip ties, 2x 3/4" self-tapping screws, 2x 6" bungee balls. (Bungee Balls are sold separately from the Leaping Arch kit and can be purchased from our website. Not sold locally).

- 10" spike nails and/or 2' length 3/8" rebar to be used as ground anchors. (Home Depot)

- 10' length of 1" **solid white PEX** tubing. These need to be **STRAIGHT** sections, NOT coiled PEX. Home Depot carries this product and can be shipped to your door if you do not have a location that carries it. Also quite popular is using 2" OD HDPE tubing from McMaster Carr. Make sure you get the 2" outer diameter, not inner.

- 10' length of 1/2" **EMT conduit tubing**. Do not to use galvanized pipe or rigid metal conduit, as those are heavier, more expensive, and will not fit inside the arch bases.

- 2.5M or 3M IP68 LED strip (HD strips @ 60 LED/m are more expensive and will require more power, but will visually create a more diffused "neon" look. 30 LED/m strips give excellent value and still look great!) DO NOT use IP67 "hollow jacket" strips. IP67 strips do not contain the solid silicon-filled jacket that allows the IP68 strips to excel in ruggedness and weather resistance. IP65 strips will work as well, but do not peel away the adhesive backing. **Custom 2.5M (8'6") and 3M (10') LED strip lengths can be purchased from our store, which also include extended 8" xConnect pigtails.**

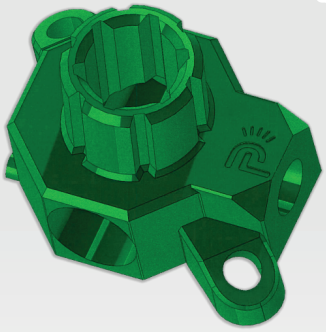
- A ratcheting tube cutter or hacksaw, to cut your PEX/HDPE. A rotating pipe cutter or chop saw to cut EMT.
***It is important to make your cut as perpendicular as possible to fully seat your PEX/HDPE on each base.**

- Assembly -

Caution should be used to prevent injury from the potential of the tube springing out of position during assembly. It is highly recommended to have 2 people build your leaping arches (it's also more fun & goes a lot faster!) An assembly video has been created to assist with this process. You can view it on our facebook page.

First, you must determine what size arch you will create, based on the length of LED pixel strip being used. Please use the following measurements for each of these designs:

LED Strip Length	2.5M	3M
Arch Tube Length	8'10"	10'
EMT Tube Length	60"	65"
Final Dimensions	40" x 5'6"	48" x 6'2"



Leaping Arch

Assembly Instructions

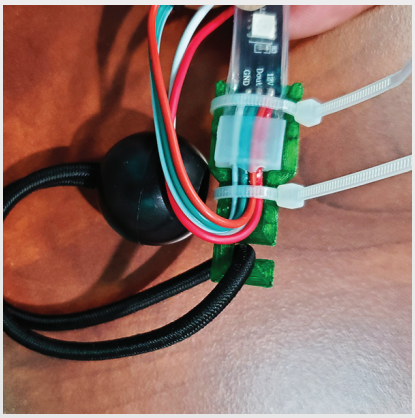
It is important to note that it is easier to bend tubing that is warm, rather than cold. For this reason, it is suggested to complete your assembly outdoors, or allow tubing to warm in the sunlight prior to assembly.

Also, it is desirable to have about 2”-4“ longer arch length than LED strip itself. This is to provide room for strip clips to attach at each end of the LED strip, and to allow for minor variance in arch radius.

1. Using the previous table, measure and cut your arch PEX tubes, then measure and cut your EMT tubes.

2. Find a flat surface and attach both bases to your EMT. Use the included 3/4” self-tapping screws to secure. **It is very important that you verify each base is flat at each end before and after securing to the EMT.**

3. Secure both LED strip clips to each end of the LED strip using 2x 4“ zip ties. Cut excess from zip ties.



4. Feed the LED strip through the arch tube. Take care to not to allow the LED strip to twist inside the tube.

5. Push the bungee ball cord through the bottom of an arch base and secure the bungee to the strip clip. Guide the pigtail through the side of the base. **TIP: for the collared pigtail (female xConnect), slide the collar up and guide it through separately.** Now slide the tube into/onto the arch base.

6. Begin bending your arch tube towards the second arch base. ***Have a second person support the first arch base by preventing the tube from bending beyond the 85 degree angle of the arch base neck**, while you bring the arch tube within a few inches of the second base.

7. Now repeat step 5 for the other end.

8. Finally, pull the bungee balls at each end and secure the tension in the locking channel. Plug into a pixel tester and check for any undesirable slack inside the arch tube. If necessary, you can “choke-up” on the end of each LED strip by moving the strip clip an inch or so.

Each arch base is designed to interlock with another set to provide consistent alignment. 10” Spike nails work well to secure each base. However, these will not support your arches from strong forces such as high winds. It is highly recommended to purchase a 2’ length of 3/8” rebar for each leaping arch. Drive the rebar at an angle directly alongside each arch tube until about 8"-12" is exposed. Secure the angled rebar with a large white/clear zip tie. This method is also helpful in fine-tuning the alignment of your leaping arches, by making small adjustments to the zip tie tension. Optionally, you may wish to spray paint the rebar white before securing to your arches. That’s it! Enjoy!

For help with programming your leaping arches in xLights
Please email sales@pixelparadiseusa.com or visit our facebook site.

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