

How to Build a Custom Solar Arch

Build your arch by:

1. **Select a size**, based on the beam of your boat, or the approximate width at the mounting points

The first question we're often asked is **"where do I install the arch on my boat?"**, and the quickest answer we can give is **"where do you have good access under the deck or inside the transom to add reinforcement and backing plates?"**.

- a. This usually begins by opening the seats, lazarettes, and propane lockers to get a good look. The Mounting base on the arch is **3-3/4"** round (4-hole). You will need an area on deck at least that large to mount our adjustable pad/foot.
- b. Our adjustable arch feet can be mounted horizontal, vertical, or any angle in between. In most cases the forward (bow end) feet are placed on deck, and the aft feet against the transom.
- c. Ideally a minimum **6"x6"** backing plate will be added inside, for added strength fiberglass can be added over the backing plate adhering it to the boat with Epoxy or Polyester Resin.
- d. Once a suitable area has been determined (by good access/ ability to add a backing plate), you can mark the area on the outside using masking tape. Find a spot symmetrically on each side and measure between them.

Small= 72"-90" Medium= 90"-110" Large= 110"-144"

2. **Select a finish, *Anodized Aluminum, or 316 Stainless Steel***
Anodized Aluminum being the lightest option, it is a very strong material and perfect for many situations. As an upgrade we'll build your arch in 316L Stainless Tube (2x the strength!). If you're planning on loading the arch up with Solar and Davits and are cruising open waters then the Stainless design is right for you
3. **Selection your Options, Davits, Solar Mounts, CUSTOM DESIGN!**
4. When selecting a Custom Design, we're happy to walk you through the process of measuring.
 - a. **Fore Foot Centers.** The Width of the arch on the Bow end. Usually on Deck or Cabin/ Cockpit Side.
 - b. **Aft Foot Centers.** The Width of the arch on the Aft end. Usually on Transom or Deck
 - c. **Spread/ Fore-Aft Centers.** The distance measured horizontally between points A and B. Measured level with waterline.
 - d. **Length Differential/ Drop to Transom.** If any, applicable if aft leg transom mounted. Use plumb bob off point C to measure distance down to mount.