

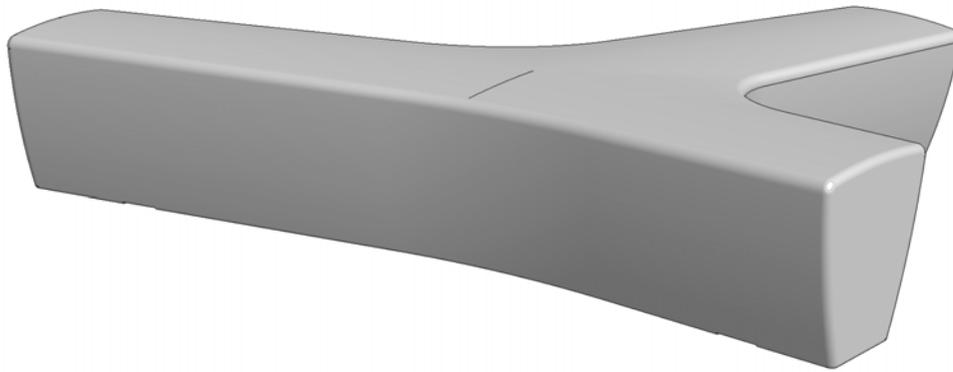
GFRC TWIG Anchor Installation Instructions



This instruction is a guide for the installation and anchoring of the TWIG GFRC bench.

<u>PARTS/HARDWARE LIST</u>		
GFRC TWIG	External Anchor Brackets	Concealed Anchor Brackets
3/8-16 x 1" SST Hex Bolt	3/8" SST Split Lock Washer	3/8-16 SST Hex Nut

Tools Required: 9/16" Socket or Box Wrench, Lifting straps, Epoxy (or chemical anchor)



GFRC (glass fiber reinforced concrete) TWIG Bench

There are two types of surface mount options for mounting brackets, the external mount and the internal or "concealed" mount. Determine which option has been chosen for your particular installation before proceeding. Follow the instructions for that type of mount.

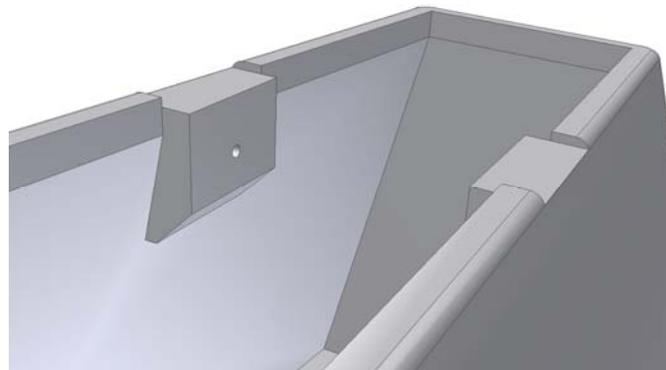


Fig. a) Anchor bracket mounting points (underneath)

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STEPS

1) External Mount

The external mount allows two anchoring options, a three-bracket and a six-bracket mounting. Both of these require a masonry sleeve anchor or chemical anchor of 3/8" 304 (18-8) stainless steel 3" embedment with 1/2" – 3/4" protrusion for mounting. Anchor points for these options are as follows (viewed from bottom of bench).

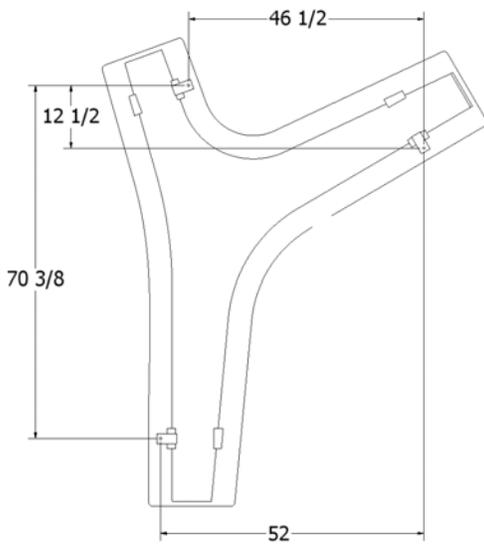


Fig. b) 3-Point anchorage

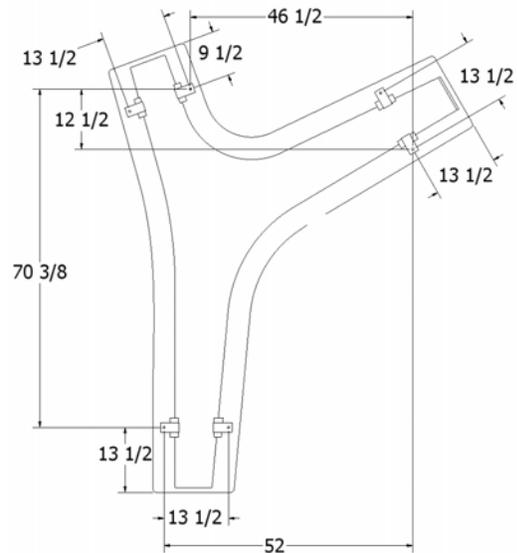


Fig. c) 6-Point anchorage

The dimensions shown are approximate. Verify measurements and placement of anchors on completed bench and bracket assembly before drilling or embedding any anchor points.

Install the anchor brackets into the noted locations on the bench. Place the brackets and mount to the mounting pads as shown with a 3/8-16 x 1" SST Hex Bolt and split lock washer.

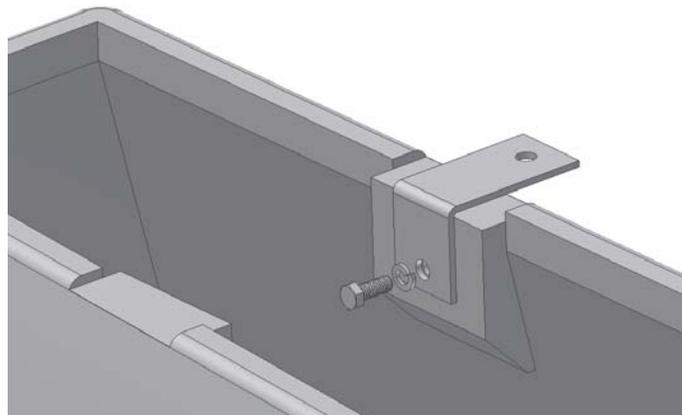


Fig. d) Anchor bracket attachment to mounting pad of bench

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Once the brackets have been mounted, as noted above, verify the measurements for placement of embedded anchors. Lower the bench into place and onto the anchor points. Use 3/8-16 stainless steel mounting hardware to secure the bench.

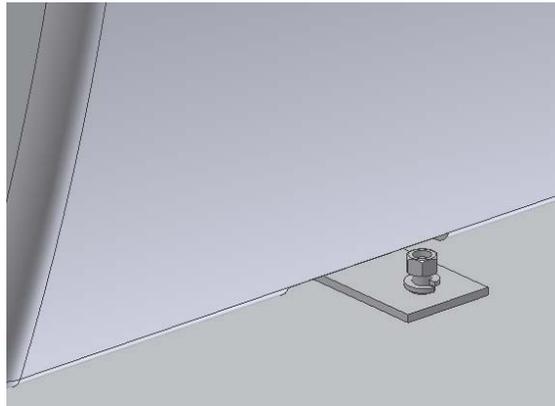


Fig. e) Fasten bracket to anchor points with lock washer and nut

Alternatively, embedded anchors can be added after the bench has been placed in the desired location by marking the anchor points using the mounted brackets. The bench will need to move to allow access to drilling and then moved back into place to secure using 3/8" bolts.

Covering the external attachment points to reduce exposure (for safety and weather) is an option and should be reviewed per required installation.

2) Concealed Mount

The concealed mount requires placing the bracket onto the underside of the bench and lowering the bench into place. Often, the bracket is already attached to the bench, but anchor bolts are not in place. This allows the option of an epoxy or chemical anchor for a 1/2" coarse thread bolt (attached to the bracket) or a 1/2" coarse thread rod or rebar that the brackets slide over.

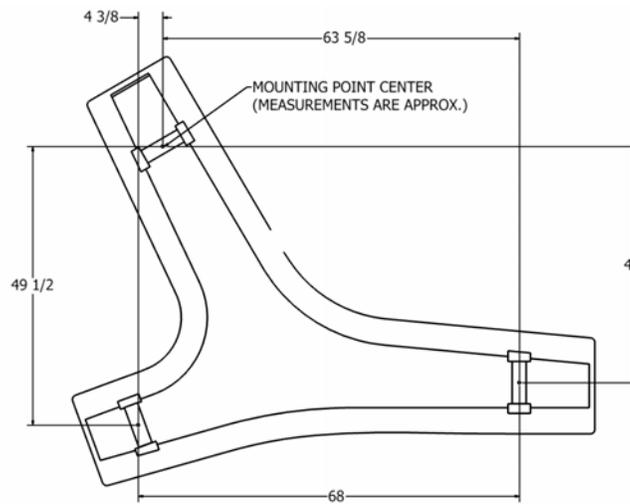


Fig. f) 3-Point anchorage (bottom view)

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The dimensions shown are approximate. Verify measurements and placement of anchors on completed bench and bracket assembly before drilling or embedding any anchor hardware.

Install the anchor brackets into the locations on the bench if they are not already in place. The brackets and mount to the mounting pads as shown with a 3/8-16 x 3/4" SST Hex Bolt and split lock washer. The flat face of the bracket (where anchor hole is located) should be flush with the lowest surface of the bench and not even with the clearance channels (used for external anchor).



Fig. g) Anchor bracket attachment to mounting pad of bench

Once the brackets have been mounted, as noted above, verify the measurements for placement of embedded anchors.

If the anchor points have not already been placed, with the bench raised (safety strapping for moving/lifting), mark the location of the anchor holes or bolts, if those have already been attached. With the locations marked, either drill a hole approx.. 1 to 1-1/2" in diameter if for an epoxy or chemical anchor for the 1/2" bolt or place the 1/2" threaded rod or rebar per the anchor manufactures instruction. For the chemical or epoxy anchor, fill the holes and then lower the bench into place. If a protruding threaded rod or rebar is used, the bench can only be placed enough to allow a nut to be placed on the threads and threaded partially as there will be no access once the bench is completely lowered.

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