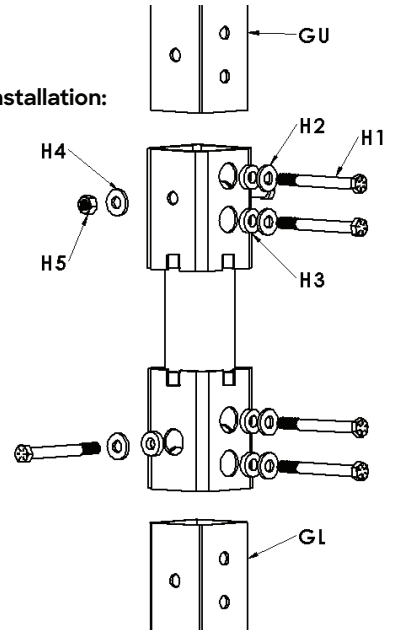
Atkore
Allied Tube & Conduit

SafeSign™ Installation Instructions

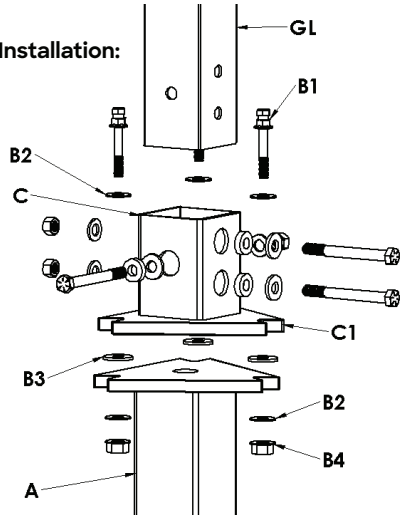
Square Post Sign Support Installation Instructions (Receives 4" Square Post)

Date: 6-1-22

Hinge Installation:



Slip Base Installation:



INSTALLATION PROCEDURE

TOOLS NEEDED: 1-1/16" SOCKET & BOX WRENCH (for post attachment hardware), 1-1/8" SOCKET & BOX WRENCH & 9/16" SOCKET *(a 15 mm socket may be needed due to galvanizing inconsistencies)*(for slip plate hardware).

Step 1 Install Triangular Anchor (A) plumb & squared up with the road. The most common orientation is with the point of the triangular slip plate facing oncoming traffic. On mulit-leg installations, be sure that all Anchors are squared & lined up with each other.

Step 2 Depth of embeddment to leave 3-1/2" (±1/2") from grade to bottom of lower slip plate of Anchor(A).

Step 3 Place one each teflon coated blue Slip Washer (B3) on top of Lower Slip Plate of Anchor(A) at each notched point. Leave space to allow torque bolt to pass through washer in notch to allow 3/4" Torque Bolt (B1) to pass through.

Step 4 Place Upper Slip Plate (C1) onto the three Slip Washers (B3) properly indexed so that square post receiver portion is squared up with road.

Step 5 Slide 1 of the 7/8" Flat Washer (B2) on to each Torque Bolt (B1) then insert Bolt (B1) with Washer (B2) down through notched points of Upper Slip Plate (C1), hole of Slip Washer (B3) and notched point of Lower Slip Plate of base (A). Slide 1 each 7/8" Flat Washer (B2) up on exposed thread of each Bolt (B1) followed by threading 1 each 3/4" Flange Nut (B4) on to each Bolt (B1) and tighten using the 1-1/8" (larger) hex and NOT the 9/16" (smaller) hex. This is done to help flaten any galvanizing buildup and ensure all three hardware sets will be tight. The Torque Bolt smaller hex head is removed later. Ensure that the bolts are fully seated at the back of each notch.

Step 6 Pay attention to post lengths using the correct lengths for each leg of the installation. If using a template to drill the holes in the posts make sure that the two thru-holes on the side for the slip base post receiver are on the same sides of the posts as the two thru-holes for the hinge post receiver, and that the single thru-holes for the slip base post receiver are on the same sides of the posts as the single thru-holes for the hinge post receiver. On a flat surface, insert upper sign post (GU) and lower post (GL) into opposite ends of a hinge assembly making sure that the sets of post holes match up with with hardware holes in the hinge. Insert the bolt (H1) through the 1-3/4" diameter washer (H2) then a 1-3/8" diameter thick shoulder washer (H3) then into a post receiver (large hole) as shown in diagram. Add the 5/8" flat washer (H4) and hex nut (H5) and finger tighten. Do the same for the other 5 sets of hardware and receiver holes. Tighten them until the 1-3/4" diameter washer (H2) is flat against the outside post receiver socket (C), begining with the nut closest to the end of the post, followed by the next one on that same side, ending with the single one side.Repeat steps above for any additional post assemblies.

Step 7 Insert post assembly with lower post (GL) at bottom and upper sign panel post (GU) at top into the appropriate slip base receiver (C), orienting post in such a way as the two bolt heads face the side of the slip base post receiver containing the point of the trianglar slip plate. Insert the bolt (H1) through the 1-3/4" diameter washer (H2) then a 1-3/8" diameter thick shoulder washer (H3) then into a post receiver (large hole) as shown in diagram. Add the 5/8" flat washer (H4) and hex nut (H5) and finger tighten. Do the same for the other 2 sets of hardware and receiver holes. Tighten them until the 1-3/4" diameter washer (H2) is flat against the outside post receiver socket (C), begining with the nut closest to the end of the post, followed by the next one on that same side, ending with the single one side
Repeat steps above for any additional slip base assemblies.

Step 8 Loosen the three bolts using the 1-1/8" (larger) hex then finger tighten making sure the Slip Washers (B3) are in place and the Torque Bolt (B1) is seated fully in the notch. Finally use a 9/16" wrench on the 9/16" (smaller) hex until it snaps off which results in the designed torque value. (*a 15mm socket may be needed due to galvanized coating*)

REINSTALLATION AFTER IMPACT

* Gather all materials to a safe area and inspect all parts including welds to determine which parts, if any should be replaced. New slip base hardware should be used. Make sure any hinges are tight and square.
* Follow Installation Procedures 3 - 8 above.