

Installation Instructions-Fixed and Quick Release Surface Mount Bases

CONCRETE SCREW ANCHOR KIT

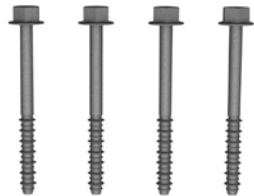
Kit contains four each: 1/2" x 4" Concrete Screw Anchors, 1" Washers

Recommended Tools: Hammer drill with 1/2" bit
Small hammer
3/4" wrench or socket
1/4" Allen wrench (Fixed Base only)

Instructions:

1. Place Fixed or Quick Release Base on surface and align arrows in the direction sign face or post will face. Mark anchor holes.
2. Drill four (4) holes 3-1/2" deep using a 1/2" bit. Clean the holes of dust and debris.
3. Place the base over the holes. Assemble washer to anchor screw. Use 3/4" wrench to tighten anchor screws snug into base. Washer will rest on top of base and not inside the counter-sunk holes.
4. Place the sign or post into the base and check for proper alignment. For the Fixed Base, insert and tighten all four socket cap screws with 1/4" Allen wrench. For the Quick Release Base, set spring unit on shoulder washers and turn slightly counterclockwise until pull pin fully seats.

Note: Take care to align base and spring knuckle to intended direction of traffic.



Concrete Anchor Kit



ASPHALT SCREW ANCHOR KIT

Kit contains four each: 16mm B- 3" plastic sleeve, 1/2" B- 4" lag screw, 1 – 1/4" metal washer

Recommended Tools: Hammer drill with 5/8" bit, small hammer, 3/4" wrench or socket, 1/4" Allen wrench (Fixed Base only)

Instructions:

1. Place Fixed or Quick Release Base on surface and align arrows in the direction sign face or post will face. Mark anchor holes.
2. Drill four (4) holes 3" deep using a 5/8" bit. Clean the holes of dust and debris.
3. Using a small hammer, gently tap the plastic sleeves into the holes. Top of sleeve should be flush with surface.
4. Place the base over the anchors. Assemble washer to lag screw. Start lag screw through anchor holes into plastic sleeves. Use 3/4" wrench to tighten lag screws snug into base. Washer will rest on top of base and not inside the counter- sunk holes.
5. Place the sign or post into the base and check for proper alignment. For the Fixed Base, insert and tighten all four socket cap screws with 1/4" Allen wrench. For the Quick Release Base, set spring unit on shoulder washers and turn slightly counterclockwise until pull pin fully seats.



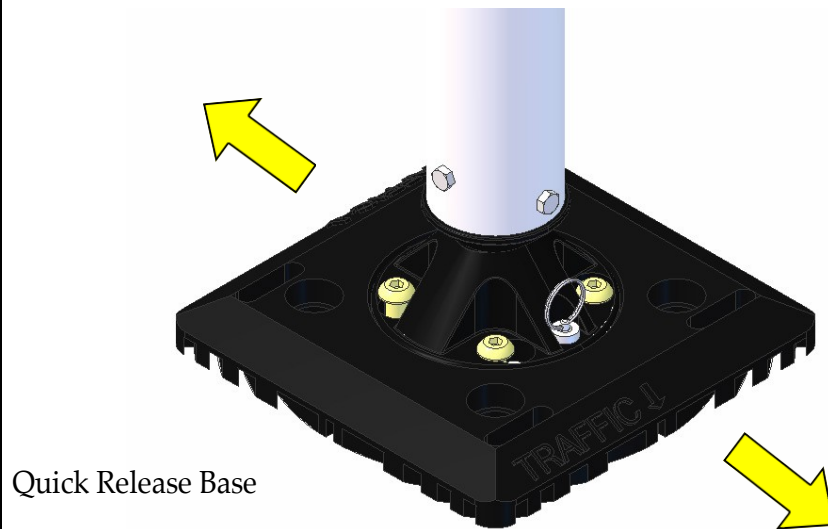
Asphalt Anchor Kit



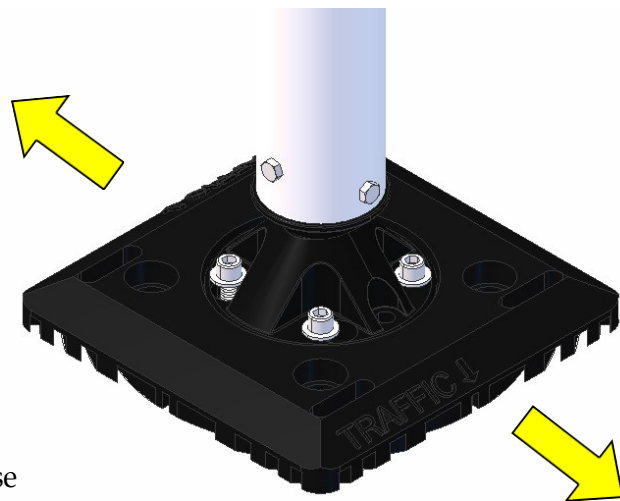
Installation Instructions - Fixed and Quick Release Surface Mount Bases

It is the responsibility of the owner and installer to determine the suitability of the substrate for proper anchorage and the method used. Substrate should generally be properly installed, in good repair and crack free. Connection to the road surface is the responsibility of others. Road surfaces and installation conditions vary widely from location to location. Consult a local licensed engineer as necessary to ensure proper installation. We cannot provide site specific engineering recommendations with regard to road connections.

Traffic Direction Consideration as Install



Quick Release Base



Fixed Base

EPOXY KIT

Suitable for Both Asphalt and Concrete

1. Check the bottom of base for tape covering t-nuts (Fixed Base only). Tape prevents epoxy from entering screws threads upon installation.
2. Pavement surface must be clean, dry, and free of dirt, debris, and oil.
3. Flame treat the underside of the base prior to installation. Quickly passing a cool flame over the plastic surface greatly increases adhesion. Do not overheat.
4. Mix epoxy as directed and closely follow epoxy instructions. Time, temperature, pressure, mix ratios, working life and shelf life all vary by manufacturer. Use a total of approximately 16 to 20 fluid ounces per base.
5. Align the base with arrows facing traffic and push into epoxy. Rotate base 90 degrees and back, filling underside channels and holes in base with epoxy. Allowing epoxy to fill anchor holes will increase adhesion through mechanical bonding.
6. Epoxy should extend around sides of the base.
7. Allow epoxy to dry 24 hours for optimum performance. Most epoxies are temperature sensitive. Take care to follow manufacturer's recommendations.



Epoxy



Installed Base

Post Installation:

1. Place the sign or post into the base and check for proper alignment. For Fixed bases, insert and tighten all four socket cap screws with 1/4" Allen wrench. For Quick Release bases, set spring unit on shoulder washers and turn slightly counterclockwise until pull pin fully seats.
2. Ensure proper alignment of the spring and base with traffic. The pull-pin holes in the lower part of the spring should align with traffic and indication on surface mounted base. See diagrams at left.

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SUPER BUNDY® PLUS ADHESIVE

SUPER BUNDY IS ONLY RECOMMENDED FOR USE WITH DELINEATORS AND TUBULAR MARKERS WHEN INSTALLED ON A FIXED OR QUICK RELEASE BASES.

General Requirements:

Moisture:	Pavement must be dry.
Surface:	Asphalt and concrete must be free of dirt, dust chemicals or significant oily substances. Do not apply on top of paint, cold plastic, or Greenlite. It can be applied on top of thermoplastic, provided it is clean.
Material:	SUPER BUNDY® PLUS must be kept dry at all times. Store between 35° F and 90° F. Shelf life is 12 months.
Safety:	Be sure to use proper safety equipment such as gloves and safety goggles. Use appropriate caution when using an open flame.

Instructions:

1. SUPER BUNDY® PLUS is a two-piece system. Do not attempt to use only a single square piece as this will result in inadequate bonding.
2. Check the bottom of fixed base for tape covering t-nuts (Fixed Base style only). Tape prevents epoxy from entering screws threads upon installation.
3. Pavement surface must be clean and dry.
4. Pre-heat the pavement surface using a propane fueled torch.
5. Position the first piece of SUPER BUNDY® PLUS on the pre-heated pavement surface.
6. Begin heating the material by moving the flame from the torch slowly and steadily over the material in a sweeping motion. Evenly heat the material until it melts completely to bond with the pavement. A brownish film will typically form on the surface when material has reached molten stage. Continue to heat the adhesive pad until the well defined edges of the pad are no longer visible.
7. Without delay, position the second square pad directly on top of the molten piece.
8. Heat the second adhesive pad until it is completely molten, in the same way as the first. When complete, the pads should appear as a puddle of molten adhesive.
9. Position the Fixed or Quick Release Bases directly on top of the molten adhesive and apply slight downward pressure to ensure embedding and bonding. Twist back and forth slightly. It is important to ensure that there is a small cushion of SUPER BUNDY® PLUS material remaining between the pavement and the Fixed Base.
10. Curing is complete when the SUPER BUNDY® PLUS material has cooled down to a temperature that the base can no longer be moved.



Super Bundy Plus



Heating Adhesive Pad



Placing Second Pad



Molten Puddle