

1. Objective and Scope

To describe how to correctly install Saferoads PCMB Brackets on Asphalt Pavement.

2. Safety:

Working on or beside a roadway is inherently dangerous.

3. Personal protective equipment (PPE)

The following is mandatory PPE.



Safety Glasses must be worn at all times when installing this product



Protective clothing is to provide cover to any exposed body parts.



Safe work boots or shoes (steel capped) with rubber soles must be worn.



Always use a dust mask when using compressed air for blowing drilled holes



Hearing protection must be worn at all times when installing this product



Gloves must be worn whilst installing this product.



High Visibility clothing must be worn whilst installing this product.

4. Equipment Required

- Impact Drill
- Generator
- 22mm Masonry bit
- Air Compressor
- Epoxy & Dispenser Gun
- 30mm Ring Spanner
- Traffic Mngt Equipment (if required)

5. Qualifications and Competencies

- a) Safe use of hand tools;
- b) Manual Handling; and
- c) Road traffic management.

6. Documentation and Set Up







- a) Ensure that the selected installer provides a copy of Public Liability Insurance, Work cover, SWMS and plant service records. (no documentation - no job).
- b) Contact Dial before you Dig; if required
- c) Ensure you are at the correct location and set up traffic control to Australian Standards, or as advised and required by the client.






7. Inspection of Components

- Tools & equipment are in good condition
- PCMB bracket as per specification
- Impact drill is tested and tagged
- 2 x 180mm all thread
- 2 x 460mm all thread
- M20 nuts & washers

8. Installation

<u>Step 1 – Position the bracket</u>	<u>Step 2 – Drilling</u>	<u>Step 3 – Compressed Air</u>
		
<p>Position the bracket with the shorter 100mm plate (2 holes) on the pavement and the larger 250mm plate (4 holes) against the side wall of the Precast Concrete Barrier (PCB).</p> <p>Using marking paint in a spray can mark the 2 pavement holes on the ground.</p> <p>Mark 2 diagonal holes only on the PCB.</p>	<p>Remove the PCMB bracket from the location, for safety during drilling.</p> <p>Using the impact drill with masonry bit, drill the 2 pavement holes to a depth of 450mm.</p> <p>Using the impact drill and masonry bit, drill holes into the barrier to a depth of 180mm.</p>	<p>Once all the holes are drilled, using the air compressor (with hose and hand trigger), blow any loose material out and away from all 4 holes.</p> <p>Ensure safety glasses are worn to protect from any airborne debris</p>
<u>Step 4 – Epoxy</u>	<u>Step 5 – 460mm Threaded rod</u>	<u>Step 6 – 180mm Threaded rod</u>
		
<p>Inject liberal amounts of epoxy into each of the 4 holes.</p> <p>The epoxy will dry extremely hard within minutes in warm conditions.</p> <p>Do not allow the epoxy to dry before inserting all threads.</p>	<p>Place the PCMB bracket back into location, aligning it with all 4 holes;</p> <p>Place a 20mm washer onto a 460mm all thread rod and screw on a 20mm nut, to a distance of 25mm from one end of the rod;</p>	<p>In the same way as above, place washers and nuts on both 180mm all thread rods to a distance of 25mm from one end.</p>

<u>Step 7 – Inserting Rod</u>	<u>Step 8 – Drying time</u>	<u>Step 9 – Tightening</u>
		
<p>Insert the 460mm all threads, complete with nuts and washers into the pavement holes.</p> <p>Insert the 180mm all threads complete with nut and washers into the PCB holes.</p>	<p>Allow epoxy to dry for 15 minutes.</p> <p>Temperature can influence the drying time of the epoxy. Hotter days, less time, colder environments, longer tome required.</p>	<p>Tighten all 4 x 20mm nuts with a 30mm ring spanner or socket.</p> <p>Do not over tension with mechanical or additional leverage.</p>
<u>Step 10 - Final Checks and Housekeeping</u>		
<ul style="list-style-type: none"> • Sweep any excess dirt or debris from the site and collect any left-over parts • Housekeeping practices adhered to and worksite is left clean and safe; 	<ul style="list-style-type: none"> • Workmanship is to specification; • Materials quality is acceptable; • Unused materials are removed; • Items have been fitted correctly and safely. 	<ul style="list-style-type: none"> • Quality checks performed. • Surrounds are restored to prior condition; • No spillage and/or damage to any soil, habitat, atmosphere or drainage.

SOP REVISION UPDATES

SOP Amendment Level		
Rev #	Date	Comment
-	10/05/2022	a. Review by Manager – Supply, Safety and Systems – No Revision change (format only)
4	24/10/2020	a. New Format