

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 Boots (steel capped) with rubber soles.



Eye and hearing protection is compulsory



Use a dust mask when using compressed air for blowing drilled holes



Hi-Viz must be worn when installing product



Gloves must be worn when installing product



Hi-Viz Protective Clothing is to be worn

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
- Impact drill is tested and tagged
- 2 x 460mm all thread
- PCMB bracket as per specification
- 2 x 180mm all thread
- M20 nuts & washers

8. Installation

Step 1 – Position the bracket	Step 2 – Drilling	Step 3 – Compressed air
 <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>
Step 4 – Epoxy	Step 5 – 460mm threaded rod	Step 6 – 180mm threaded rod
 <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>

Step 7 – Inserting rod	Step 8 – Drying time	Step 9 – Tightening
		
<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 time 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>
Step 10 - Final checks and housekeeping		
<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
8	22/11/2023	a. PPE Icons updated – No Revision change
4	10/05/2022	a. Review by Manager – Supply, Safety and Systems – No Revision change (format only)
4	24/10/2020	b. New Format