

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.



Boots



Eye Protection



Ear Protection



Hi Viz



Gloves



Protective Clothing

4. Equipment Required

- a) Impact drill;
- b) Generator;
- c) 22mm masonry bit;
- d) Air Compressor;
- e) Epoxy & dispenser gun; and
- f) 30mm ring spanner or socket.

5. Qualifications and Competencies

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

7. 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.

8. Inspection of Components

- a) All tools and equipment are in good condition;
- b) Impact drill is tested and tagged;
- c) PCMB bracket;
- d) 2 x 460mm all thread;
- e) 2 x 180mm all thread; and
- f) M20 nuts & washers.

9. Fastening to Pavement and Barriers

- a) 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);
- b) Using marking paint in a spray can mark the 2 pavement holes on the ground;
- c) Mark 2 diagonal holes only on the PCB;



- d) Remove the PCMB bracket from the location, for safety during drilling;
- e) Using the impact drill with masonry bit, drill the 2 pavement holes to a depth of 450mm;



- f) Using the impact drill and masonry bit, drill holes into PCB to a depth of 180mm;
- g) 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;



- h) Inject liberal amounts of epoxy into each of the 4 holes;
- i) The epoxy will dry extremely hard within minutes in warm conditions. Do not allow the epoxy to dry before inserting all threads;



- j) Place the PCMB bracket back into location, aligning it with all 4 holes;
- k) 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;
- l) In the same way as above, place washers and nuts on both 180mm all thread rods to a distance of 25mm from one end.



- m) Insert the 460mm all threads, complete with nuts and washers into the pavement holes;
- n) Insert the 180mm all threads complete with nut and washers into the PCB holes;



- o) Allow epoxy to dry for 15 minutes;
- p) Temperature can influence the drying time of the epoxy;
- q) Tighten all 4 x 20mm nuts with a 30mm ring spanner or socket; and
- r) Do not over tension with mechanical or additional leverage.



10. Housekeeping and Final Checks

- a) Safety Checks
 - Housekeeping practices are adhered to and work site is left clean and safe; and



- Items have been fitted correctly and safely.

b) Quality Checks

- Workmanship is to specification;
- Materials quality is acceptable;
- Unused materials are removed; and
- Quality checks have been performed.

c) Environment Checks

- Surrounds are restored to prior condition; and
- No spillages and/or damage to any soil, habitat, atmosphere or drainage.

SOP REVISION UPDATES

Rev 4 dated 24/10/2020

- a) New format