# DECKDRAIN

## *INSTALLATION MANUAL*

- ***DECKDRAIN*** is supplied in rolls, packed in black plastic bags for protection against UV light. The bags should not be removed until required.
- ***DECKDRAIN*** is designed to be installed with the geotextile filter layer facing the direction of water seepage (usually from the backfill).
- ***DECKDRAIN*** can be applied directly to concrete, brick or similar structural surfaces. It may also be applied against waterproof membranes of all types.
- ***DECKDRAIN*** can be applied to buried vertical walls or horizontal concrete slabs. For example: behind bridge abutments, on top of service reservoir roofs, below basement slabs, inside tunnels, etc.
- ***DECKDRAIN*** is cut to length on site, using a sharp knife. The lengths may be laid vertically or horizontally behind walls.
- ***DECKDRAIN*** can be laid without fixing to the structure. If laid in horizontal strips, the backfill is brought up in layers as the ***DECKDRAIN*** is laid out. Alternatively, lay in vertical strips and trap the ***DECKDRAIN*** at the top with ballast and at the bottom with filter stone.
- For temporary support, self-adhesive ABG STIKPINS can be used with waterproof membranes to avoid puncture. Shot fixed or drill and fix plugs with large heads can be used directly through the ***DECKDRAIN*** to fix into concrete.
- For application on horizontal decks, the ***DECKDRAIN*** may need to be held down with sandbags to locate it and stop it blowing away in strong winds. The unused rolls of ***DECKDRAIN*** on site can be used as ballast.
- All cut edges must be sealed. Use waterproof adhesive tape (supplied by ABG) or cut the lengths 150mm over length so that 150mm of core only can be removed to leave a flap of geotextile that can be folded over.
- For areas wider than one roll width, the ***DECKDRAIN*** is laid so that the cores butt together. The built-in geotextile flap on the product will seal over the joint. This can be held in place by tape.
- ***DECKDRAIN*** can be formed around internal and external corners. For 25mm ***DECKDRAIN*** the geotextile must becut and re-sealed on external corners.
- Cut the ***DECKDRAIN*** around projecting pipes, make good the geotextile face and seal with tape.
- A perforated pipe is usually provided at the base of the wall to collect the water from the ***DECKDRAIN***. Place this pipe close up to the ***DECKDRAIN*** and surround with filter stone.
- Before backfilling, inspect the installation to make sure there are no gaps where soil can enter the core.
- The backfill material is usually site excavated fill. This should not contain large sharp stones. The permeability of the backfill, when compacted, should be at least equal to that of the native soil. Compactive plant can operate close up to the ***DECKDRAIN.*** On horizontal areas, at least 150mm cover of backfill should be maintained over the DECKDRAIN where plant is working. Temporary access routes for plant should be protected with boards.
- There are applications in basement extensions where the ***DECKDRAIN*** is required to be fixed to an existing wall as a lost shutter. Equally, the ***DECKDRAIN*** can be placed against the soil face of a trench and concrete poured against it. In these instances, the joints between the plastic core should be overlapped 100mm fixed and sealed with mastic.
- DECKDRAIN outlet covers should be used where water is discharged through the gulley outlets within the roof slab. Standard 400mm x 400mm Deckdrain outlet cover is supplied with geotextile overlaps. Locate the exact position of the gulley outlet and cut out the 400mm x 400mm square from the Deckdrain sheet (ply board should be inserted underneath to prevent cutting the waterproofing membrane below the Deckdrain sheet). Insert the Deckdrain outlet cover and use geotextile to overlap all edges.

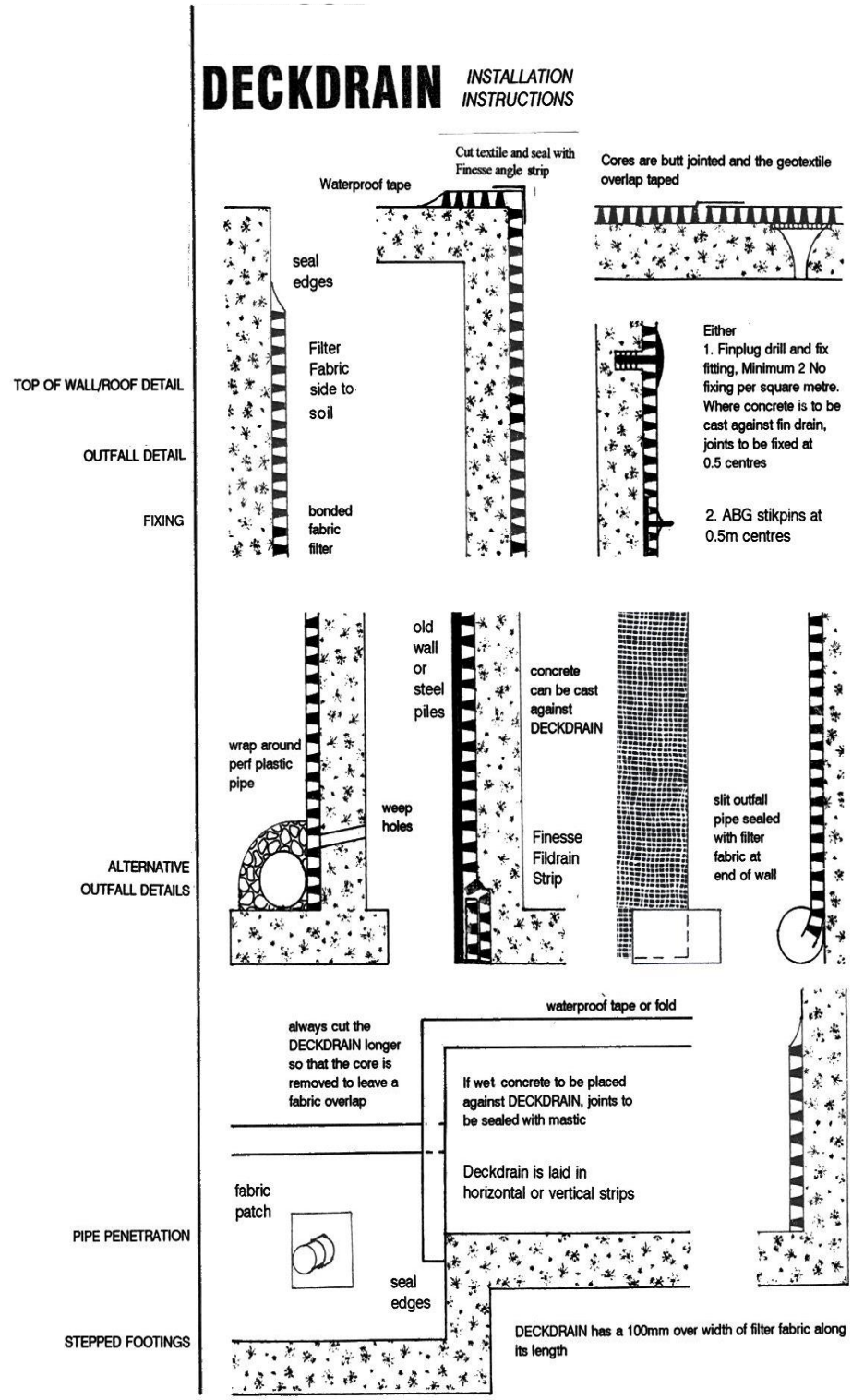


***Figure 1: Deckdrain Installation instructions***

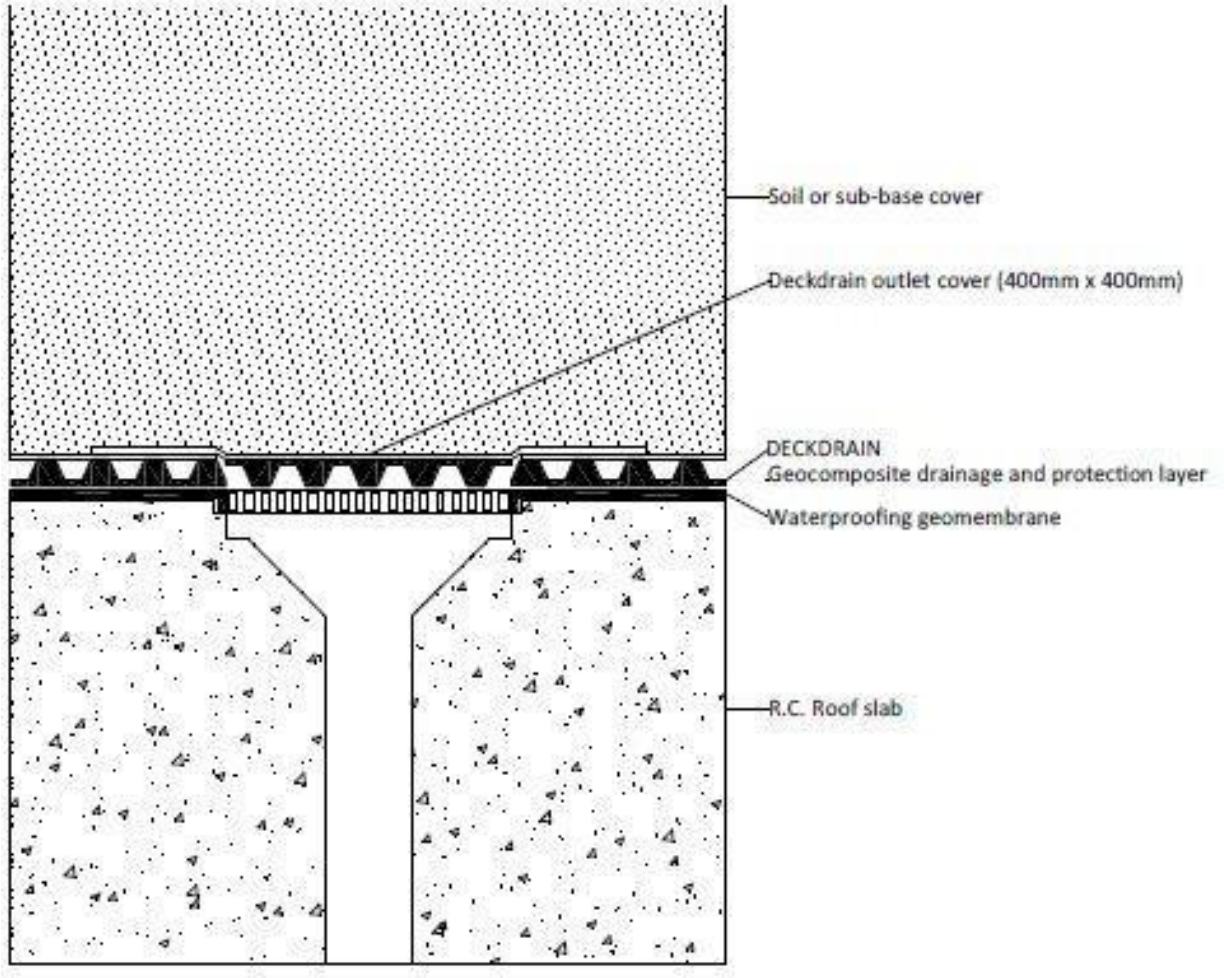


***Figure 2: Full Bore outlet detail***