

Deckdrain — Wall

Delivery and storage

Deckdrain geocomposite drainage and protection layer is supplied as rolls wrapped in UV resistant plastic, palletised on end and should be stacked no more than 2 pallets high on level, drained stable ground.

Deckdrain is installed directly against the clean surface of the wall either in one operation by hanging vertically or in tandem with backfill, horizontally. In all situations, responsibility for installation remains with the Installer.

Equipment and materials required

Materials: ABG **Deckdrain**; ABG crossweave jointing tape, timber battens, nails, nails with plastic washers or **Abfix** stickpins

Tools: Air gun, safety knife

Installation Method 1 - Vertical

Step 1 – Hang first panel. Measure drop of wall including pipe wrap around (**Fig 1**), unroll **Deckdrain** and cut to discrete lengths. Using approx. 2m wide timber, batten and nail gun* fasten **Deckdrain** panel allowing batten to fly past ready to receive next panel (**Fig 2**). Allow approx. 200 mm drain above batten at top. (see note on sealing of edges overleaf).

Step 2 – Hang second panel. Slide second panel under batten and align edge with first ensuring the cores are butting and the geotextile flap overlaps the joint right down the wall (**Fig 2**). When aligned, nail through batten to fix.

Step 3 – Fasten mid-wall. Secure at 2 m centres either with more battens or nails with washers. (**Fig 3**) Alternatively **Abfix** stickpins can be used. (**Fig 4**) Note: leave bottom free for pipe wrapping. Repeat along the full length of the wall.

Step 4 – Lay and attach pipe. Lay pipe over lower flap of **Deckdrain** and wrap around to just cover pipe and weight down with stone or fill (**Fig 5**). (See alternative pipe detail overleaf **Fig 11**).

Step 5 – Seal flaps. Use **ABG** crossweave jointing tape to seal geotextile flaps to prevent fill material getting



Fig 1: Roll out and cut Deckdrain with safety knife



Fig 2: Hang first and second panels. Ensuring overlaps in place



Fig 3: Fasten midwall with nail and plastic washer



Fig 4: Alternative fixing method using Abfix stickpins. Remove protective release paper and press pin firmly to wall. Surfaces should be clean and dry, free of dust, grease, oil and any other loose matter. Impale Deckdrain over the pin, secure in place with washer then flatten pin.



Fig 5: Wrap pipe to just cover pipe and weight down



Fig 6: Seal flaps with ABG jointing tape

Installation Method 2 - Horizontal

Step 1 – Lay and attach first panel. Roll out length of **Deckdrain** and fix to wall allowing sufficient material to wrap around pipe (**Fig 7**).

Step 2 – Lay and attach pipe. Lay pipe over the overlap and wrap **Deckdrain** over pipe (**Fig 5 overleaf**).

Step 3 – Place backfill (see note on backfilling below) and attach second panel. Roll out second panel, align with first panel and ensure **Deckdrain** core is closely butted with geotextile flaps overlapping (**Fig 8**). Temporary supports using timbers can also be helpful especially in windy conditions (**Fig 9**).

Step 4 - Seal any vertical joints. Vertical joints should be overlain with a 300 mm strip of geotextile and taped using **ABG** crossweave jointing tape. Ensure horizontal geotextile flap hangs down over joint with lower panel. If needed, tape the horizontal joints.

Backfilling

Backfill should be placed away from the **Deckdrain** next to the wall and spread using shovels to lay up against the **Deckdrain**. Each layer (typically 100-150 mm) is compacted using vibrating roller for the main fill and vibrating plate close to the **Deckdrain** (**Fig 10**).

Sealing of edges

Once fill has reached to near the top of the **Deckdrain** the upper edge must be sealed by tucking a 300mm strip of geotextile tucked behind the **Deckdrain** and then flapped forward overlapping and sealing the core (**Fig 11**). Fasten the two overlaps of geotextile and **Deckdrain** onto the wall. This can then be buried.

Weep hole detail

Cut a hole through the **Deckdrain** to fully uncover the weep hole. For an example 75mm size weep hole, cut a 300mm wide square of geotextile to achieve an even minimum overlap on all sides. (**Fig 12**).



Fig 7: Roll out and cut Deckdrain with sharp knife



Fig 8: Place second layer and ensure flaps overlap horizontally and vertically



Fig 9: Backfill, nail and use temporary supports as necessary



Fig 10: Shovel soil to level and use vibrating plate next to Deckdrain



Fig 11: 300 mm textile tucked behind Deckdrain and overlapped

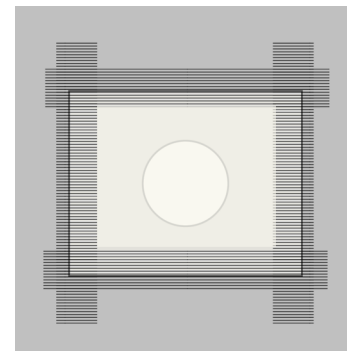


Fig 12: Weep hole example detail - fix min. 300mm size square over a 75mm weep hole using jointing tape