

Description

The **Deckdrain** geocomposite drainage and protection layer is supplied in rolls wrapped in UV resistant plastic and delivered on pallets. Pallets should be stacked no more than 2 pallets high onto level, drained and stable ground. **Deckdrain** is either installed directly against the clean surface of the wall by hanging vertically, or when being backfilled it is placed horizontally. In all situations, responsibility for installation remains with the Installer.

Equipment and materials required

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

Tools: Nail 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 length. Using approx. 2m wide timber, batten and nail gun* the **Deckdrain** panel, allowing batten to extend past the edge ready to receive the next panel (**Fig. 2**). Allow approx. 200 mm of **Deckdrain** above the batten at the top (see note on sealing of edges overleaf).

Step 2 - Hang second panel. Slide the second panel underneath the batten and align the edge with the first section, ensuring the cores are butting together and the geotextile flap overlaps the joint all the way down the wall (**Fig. 2**). Once aligned, nail through the batten to fix.

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

Step 4 - Lay and attach pipe. Position the pipe over the lower flap of **Deckdrain** and wrap this back around in order to just cover the pipe, and then weight it down with stone or fill (**Fig. 5**). (See alternative pipe detail overleaf **Fig. 11**).

Step 5 - Seal flaps. Use crossweave jointing tape to seal geotextile flaps and to prevent the fill material from getting in (**Fig. 6**).

ABG Deckdrain Wall INSTALL



Fig. 1: Roll out and cut **Deckdrain** with safety knife



Fig. 2: Hanging the first and second panels. Ensuring overlaps are 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 the pin firmly to the wall. Surfaces should be clean and dry, free of dust, grease, oil and any other loose matter. Pierce the **Deckdrain** over the pin, secure in place with the washer and flatten pin.



Fig. 5: Position pipe and wrap to just cover the pipe & weight down



Fig. 6: Seal flaps with ABG jointing tape

Installation Method 2 - Horizontal (Backfilling method)

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

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

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

Step 4 - Seal any vertical joints. Vertical joints should be overlaid with a 300 mm strip of geotextile and taped using crossweave jointing tape. Ensure the horizontal geotextile flap hangs down over the joint of the 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 a vibrating roller for the main fill and a vibrating plate closer to the **Deckdrain** (**Fig. 10**).

Sealing of edges

Once fill has reached close to the top of the **Deckdrain**, the upper edge must be sealed by tucking a 300mm strip of geotextile behind the **Deckdrain** and then flapped forward to overlap and seal 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 weephole. For an example 75mm size weep hole, cut a 300mm wide square of geotextile to achieve an even overlap on all sides of the **Deckdrain** to prevent backfill from entering the drainage core. (**Fig. 12**).



Fig. 7: Roll out **Deckdrain** horizontally and leave excess material to wrap around the carrier pipe



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



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



Fig. 10: Shovel soil to level and use a vibrating plate next to the **Deckdrain**



Fig. 11: 300 mm textile tucked behind **Deckdrain** and overlapped

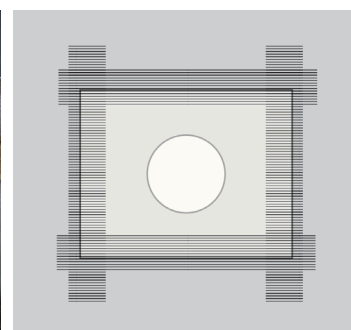


Fig. 12: Weep hole example detail: fix min. 300mm size square over a 75mm weep hole using jointing tape