



TerraDrain Soil StripDrain

Installation Instructions

TerraDrain prefabricated soil stripdrain was designed for ease of installation. Installation requires only standard construction equipment. Standard connectors are available from the manufacturer or construction supply houses.

Installation involves the following processes – trenching, drain installation, backfill and compaction, drain splicing, tee connections and outlet installation.

Trenching

A trench 2-6" wide is dug using a standard trenching machine. The required depth of the trench depends upon the application and soil permeability.

Drain Installation

The drain should be placed in the trench to fit against the side of the trench and at the bottom of the trench.

Backfill and Compaction

The material removed from the trench is usually used for backfill. The first layer of backfill should hold the drain tightly against the side of the trench. The first layer should be compacted prior to placing the second layer. The second layer is placed to a depth that will, when compacted, be level with the original soil or leave the proper space at the top of the trench for placement of top soil.

Splicing Drain

TerraDrain stripdrain is usually shipped in 150-500' rolls. To splice rolls together, peel back fabric from both drain ends to be connected. Overlap core for two rows of cones. Replace fabric. Tape splice with 3" wide polyethylene underground tape for a minimum of 6".

Tee Connections

A Tee connector is available from the manufacturer to join one run or branch of drain to another. The Tee connector is usually installed before the drain is placed into the trench. If the drain has already been covered, excavate an area approximately 24" square to expose the drain. To install a Tee, cut the drain and remove about 2" of drain. Place the exposed ends of the drain 2" into the two ends of the Tee connector. Place the end of the single drain 2" into the side hole of the Tee connector. The ends of the drain will be held in the connector by retaining strips built into the connector. If significant ground movement is anticipated, secure the joints with 3" wide polyethylene underground tape.

815 Buxton Street Winston Salem, NC 27101
888 - 239 - 4539 • Fax: 336 - 747 - 1652
www.hanesgeo.com info@hanesgeo.com



Outlet Connections

Outlets to carry water away from the drain are placed as required by the application and topography. The end of the outlets may direct water flow to bare ground, concrete drain pads, existing drain boxes, or some combination of these.

The usual material for outlet pipe is either 4" corrugated polyethylene pipe (CPE) or 4" smooth-wall PVC pipe (Schedule 40 or sewer pipe). Connections between the drain and outlet pipe are made by a combination of special drain connectors and standard CPE or PVC pipe connectors.

Outlet connectors are usually installed prior to the drain being placed into the trench. If the drain has been covered, excavate a 24" square area to expose the drain and complete trench for the drain outlet pipe.

Installing Outlet Connectors

There are two types of outlet connectors. Both are "universal" connectors which fit any width of drain. A Tee connector can be installed at any place in the drain. The Universal Outlet must be installed at the end of the drain.

Use a knife to cut a V notch 3" wide at bottom by 4" high. Slide fitting over V notch and wrap fabric around drain. Insert pipe into fitting. Next, tape the fabric and pipe with 3" underground tape.

Slide the connector over the end of the drain. Use fabric to close end of drain and tape in place. Inset pipe into fitting. Next, tape the pipe with 3" underground tape.

Joints with Corrugated Polyethylene (CPE) Outlet Pipe

The joint between an outlet connector and CPE outlet pipe (without 90° elbow) is made by using a standard 4" sewer pipe adaptor (ADS 462 or equal). Place the male end of the pipe adaptor into the outlet connector and secure it with tape. The CPE outlet pipe attaches to the female end of the sewer pipe adapter. Secure joint with tape.

The joint between an outlet connector and CPE outlet using a 90° elbow (ADS 490 or equal) is made in the same manner as described above except that a 4" piece of CPE pipe is used to join the sewer adapter and the 90° elbow. The CPE outlet pipe connects to the 90° elbow. Secure all joints with tape.

Joints with PVC Outlet Pipe

To join an outlet connector to PVC pipe, place a short piece of 4" Schedule 40 pipe into the outlet connector. Connect a standard PVC 90° elbow to the short pipe. Connect the outlet pipe to the other end of the elbow. Use a PVC Schedule 40 sewer pipe adapter if the outlet pipe is PVC sewer pipe. Secure joints with PVC pipe cement.

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