

725 - ABUTMENT DRAINAGE SYSTEMS

SECTION 725

ABUTMENT DRAINAGE SYSTEMS

725.1 DESCRIPTION

Install a geocomposite drainage system consisting of a prefabricated abutment strip drain, and perforated and non-perforated underdrain pipes as designated in the Contract Documents.

BID ITEM

Abutment Strip Drain

UNITS

Square Yard

725.2 MATERIALS

Provide materials that comply with the applicable requirements.

Abutment Strip Drain	DIVISION 1700
Perforated Pipe for Underdrains	DIVISION 1900
Non-Perforated Pipe for Underdrains	DIVISION 1900

725.3 CONSTRUCTION

Construct abutment drainage systems according to the Contract Documents.

Clean the surfaces against which the geocomposite drains will be placed. Remove all soil, debris and irregularities that will prevent intimate contact between the surface and the drain.

Install the geocomposite drains either vertically or horizontally, according to the Contract Documents. Secure the geocomposite drains using metal stick clips or adhesives. When a waterproofing membrane is included in the Contract Documents do not use nails to attach the geocomposite drain, unless the waterproofing membrane is self healing.

Form all joints and splices according to the manufacturer’s recommendations.

Cover all exposed edges of the geocomposite drainage core with geotextile filter fabric. Tuck and secure a minimum of 4 inches of fabric behind the core. This may be done by utilizing the excess fabric at the ends, or using a 12 inch strip of fabric in the same manner, taping it to the exposed fabric 8 inches in from the edge with a continuous strip of 3 inch, waterproof plastic tape and folding the remaining 4 inches over and tucking behind the core edge.

If the fabric is torn, perforated or ripped, patch it with a second layer of fabric having a 4 inch overlap, and secure the edges with 3 inch waterproof plastic tape. Replace damaged core sections.

Place the underdrain pipes as shown on the Contract Documents. Separate the fabric from the core. Wrap it around the circumference of the perforated underdrain pipe and tuck it behind the core.

Do not damage the geocomposite drainage system when backfilling the structure. Use backfill soils with a liquid limit of less than 50.

725.4 MEASUREMENT AND PAYMENT

The Engineer will measure abutment strip drains by the square yard to the limits shown in the Contract Documents.

Payment for "Abutment Strip Drain" at the contract unit price is full compensation for the specified work.