

## GTD-400 Drainage Board

### Prefabricated Drainage Composite

#### Description

GTD-400 Drainage Composite performs a multi-faceted role by providing protection for waterproofing systems and managing subsurface water around building foundations. Soil backfill is retained while allowing water to pass into the drainage system providing hydrostatic relief.

GTD-400 Drainage Composite consists of an impermeable polystyrene sheet cusped under heat and pressure to form a high flow dimpled drainage core. The core is then bonded to a layer of non-woven filter fabric. The filter fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass into the drainage core.

#### Uses

GTD-400 Drainage Composite is applied in both above grade and below grade applications. GTD-400 is suitable for new construction and repair. Applications include the following types of waterproofing: horizontal positive side waterproofing (GTS-350); vertical wall positive side waterproofing (GTS-350); and blind side waterproofing (GTS-500). Areas of application include: plaza decks; elevator pits; poured wall foundations; block wall foundations; brick wall foundations; granite/limestone foundations; split slab construction; diaphragm wall (blind side); and green roofs.

#### Application

Install GTD-400 Drainage Composite system material either vertically or horizontally in accord with manufacturer's reviewed installation instructions with core material facing protection board (if used) or waterproofing. Lap geotextile fabric joints in accord with manufacturer's installation instructions.

#### Health and Safety

Follow all recommended safety guidelines when working at jobsite. Wear suitable gloves, masks, protective clothing and safety glasses. See MSDS or SDS.

#### PHYSICAL PROPERTIES – GTD-400 Filter Fabric

Tensile Strength	• 110 lbs (ASTM D-4632)
Tensile Elongation	• 60% (ASTM D-4632)
Puncture Strength	• 62 lbs (ASTM D-4833)
Mullen Burst Strength	• 225 psi (ASTM D-3786)
Trapezoid Tear Strength	• 50 lbs (ASTM D-4533)
AOS	• 70 US sieve (ASTM D-4751)
Premeance	• .20cm/sec (ASTM D-4491)
Water Flow Rate	• 150 grain/min • ft2 (ASTM D-4491)
UV Resistance	• 70% (ASTM D-4355)

#### PHYSICAL PROPERTIES – GTD-400 Core

Compressive Strength	• 15,000 lbs/ft <sup>2</sup> (ASTM D-1621)
Thickness	• .43 in (ASTM D-1777)

#### Packaging

GTD-400 Drainage Composite is manufactured in 4ft. x 50ft. rolls (200 ft<sup>2</sup>), and weighs approximately 40 lbs. per roll.

#### Storage & Shelf Life

Store in clean, dry conditions at 50 to 80° F. Shelf life is indefinite, when stored according to recommended storage guidelines.

#### Transportation

GTD-400 Drainage Composite is classified as a DOT non-hazardous material.

**Limitations**

All GEL-TECH SYSTEM components must be installed in immediate succession at time of application. After application, the installed GEL-TECH SYSTEMS must be protected from environmental exposure and preceding trades.

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