

TERRAIN GEOMEMBRANE™

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Terraingromembrane is made from high quality HDPE material by film blown process having thickness varying from 300 microns to 2mm & roll dimensions of 5x100 m, 5x200 m & 6x200 m

APPLICATIONS OF TERRAIN GEOMEMBRANE



WHY TERRAIN GEOMEMBRANE

- Customizable Dimensions
- *Approved In Codes*
- *Fast Installation*
- *Competitive Prices*

CODAL PROVISIONS

Geomembrane made from PVC or polyethylene which are dry protected from ultraviolet exposure by carbon black or any additives and stabilizers.

These are used as capillary cut-off in roads, waterlogged areas.

(I) Geomembrane: Geomembrane is used in combination with other types of geosynthetics. These are widely employed to contain liquids from leaking out of the structures like the flexible opened roadway, large storage tanks and in a water containment.

These are used in combination with other geosynthetic materials to form a composite material.

(II) Geocomposite: A manufactured material which could be a combination of any two or more synthetic materials like geotextiles, geogrids, geonets and geomembranes, is termed as geocomposite. One of the purposes of geocomposite is Drainage Composite. Drainage Composites are formed by combining geotextiles or geomembranes with a core of geonet or geobubble and polyethylene.

Drainage Composites like, Gravity Drain and Filter Drains come under the category of geocomposite.

(III) Geocell: It is a three dimensional structure with interlocked cells. The geocells are made of polyethylene/polypropylene/high density polyethylene stabilized with carbon black.

Geocell may be used in the construction of slopes.

(IV) Geogrids: Geogrids are two dimensional or three dimensional mats with openings. They are made of polyethylene, with openings to allow liquid to pass through to soil below. Geogrids are composed of unstretched non-degradable polypropylene/polyethylene or other polymer fibers that are extruded or cast bonded to provide a dimensionally stable matrix in which a network of channels that is or geonet can be bonded & these mats are reinforced with these mats are required to possess more strength against the forces, like a steep slope or a heavy load below.

These are used in the construction of slopes.

(V) Natural Geotextiles: These geotextiles are made of natural fibre like cotton or wool. The fibres are made of these fibres are sometimes further reinforced with polymer resins to enhance the tensile strength and for

300

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701 GEOSYNTHETICS FOR ROAD AND BRIDGE WORKS

701.1 Application and General Requirements

The specifications cover the various applications of geosynthetic materials for use in road and bridge works including stripping and laying as per following specifications:

Geosynthetics is a general term which for all purposes means the term a geosynthetic engineering application. It includes geotextiles, geogrids, geonets, geomembranes, geonets, geocomposites, geocells, geoweb mats, paving fabric and other geosynthetic materials made from natural fibres such as jute and coir referred to here as natural geosynthetics may also be used in the applications as specified in the specifications.

(I) Geotextiles: Any permeable synthetic textile used with foundations, soil, rock, earth, or any other geosynthetic applications having a rated material as an integral part of a legal portion of a man-made project, structure, or system.

The geotextiles shall be a woven, non-woven or knitted fabric consisting of synthetic polymer fibres such as polypropylene, polyethylene, polyester or any combination thereof, formed into a stable fabric which shall have the fibres or yarns laid in a stable pattern in each other.

The main general application areas for geotextiles having specific functions namely separation, filtration, drainage, reinforcement or a combination thereof.

(II) Geogrids: A defined or well-defined textile polymeric material used with foundations, soil, rock, earth, or any other geosynthetic applications and manufactured as an integral portion of a man-made project, structure, or system.

Geogrids shall be made of high strength, high modulus and low-stretching synthetic fibers with appropriate ratings that are 10 to 100 mm in size or more. The geogrids or geogrids are either rectangular or circular, shall consist of round or oval, square or rectangular. Geogrids can be of knitted and woven type or three dimensional grid. Geogrids are made from geosynthetic which is used in reinforced soil structures. It is normally made of synthetic materials such as made from high density polyethylene and stabilized in a stable polymer matrix.

These are used as reinforcement in pavement and reinforced soil slopes.

(III) Geomembranes: An essentially impermeable membrane sheet or fabric used with foundations, soil, rock, earth, or any other geosynthetic applications as an integral part of a man-made project, structure, or system, used to contain liquids.

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