



## TerraDrain® Sheet Drain TD10 & TD18 Leachate Collection System as a replacement to the 300mm Gravel layer



The raising costs of gravel, tipping fees and shortage of landfill land authorities are ever looking at utilising existing land to its full capacity. The use of TerraDrain® such as TD 1600 and TD 2200 can eliminate the separation geotextile, 300mm drainage gravel and filtration geotextile. It also saves on the 300mm height necessary for the gravel to be utilised by the waste. Saving in the order of \$30.00/m can be realised by using this system.

TerraDrain® geonet system has been used as a drainage layer in landfills, roads, railways, cuttings etc., all over the world including eliminating the use of coarse single sized >20mm gravel. The system incorporates a heavy geotextile either side or filtration woven, to prevent contamination of the drainage core. The TerraDrain® is approximately 8mm to 12mm in thickness having crush strength in excess of 1000kPa. They are from high profile mesh structures made by three sets of overlaid intersecting strands. The inner strands, thicker and heavier, provide high compressive resistance and transmissivity. The intersecting strands form overlaid sets of continuous deep channels which provide high flow capacity. Used in waste disposal and civil engineering projects, where a high hydraulic flow capacity is required.

This Synthetic Drainage System incorporates two specially manufactured geotextile 330gr/m<sup>2</sup> made from virgin polyester sandwiching up to 2200gr/m<sup>2</sup> Tri-planar Net made from virgin High Density Polyethylene Plastic. These products are inert in the soil and even though they have been around for about forty years the testing can be projected for 100 to 120 year design life, which is required by various projects.

For Engineers to accommodate this system in their designs, extensive research in Australia and overseas has been carried out and the information is included in separate technical notes. The research and testing has been carried using local boundary conditions.



Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

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