## Product Data Sheet

Penteco GC300-06-SS 300 mil Geocomposite 6 oz textile (1 side)

- Drainage
- Erosion Control
- Leak Detection
- Gas Mitigation
- Protection

Geocomposites provide a controlled/ engineered drainage median for applications requiring water or gas mitigation. They are commonly used in geomembrane containment systems where groundwater/gas is present. Also, it can provide protection to the liner against subgrade imperfections, and allow for leaks to be detected through the sump collection system.

The geocomposite is composed of a geonet core and a laminated nonwoven geotextile. The geonet itself is composed of a 2-layer (biplanar) mesh which allows the liquid/gas to travel in any direction. The geotextile facing-side is typically installed against the subgrade to prevent soil fines from clogging the geonet.

| GC300-06-SS                               |             |  | M.A.R.V                                  |  |
|---|-------------|--|--|--|
| Property                                  | Test Method | Frequency  | Imperial                                 | Metric                                   |
| Geocomposite                              | •••••       |  | -  | :  |
| Transmissivity                            | ASTM D-4716 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 3 x 10 <sup>-3</sup> m <sup>2</sup> /sec | 14.5 gal/min/ft                          |
| Ply Adhesion Average                      | ASTM D-7005 | 1/50,000 ft² (1/4,600 m²)                            | 1.0 lbs/in                               | 178 g/cm                                 |
| Geonet Component <sup>1</sup>             | · · · · ·   |  | ·  | ·  |
| Thickness (min.avg)                       | ASTM D-5199 | 1/50,000 ft <sup>2</sup> (1/4,600 m <sup>2</sup> )   | 300 mil                                  | 7.6 mm                                   |
| Transmissivity                            | ASTM D-4716 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 38.6 gal/min/ft                          | 8 x 10 <sup>-3</sup> m <sup>2</sup> /sec |
| Density (min.)                            | ASTM D-792  | 1/50,000 ft² (1/4,600 m²)                            | 0.94 g/cm <sup>3</sup>                   | 0.94 g/cm <sup>3</sup>                   |
| Peak Tensile Strength (MD)                | ASTM D-7179 | 1/50,000 ft <sup>2</sup> (1/4,600 m <sup>2</sup> )   | 75 lbs/in                                | 13.3 N/mm                                |
| Carbon Black Content                      | ASTM D-4218 | 1/50,000 ft <sup>2</sup> (1/4,600 m <sup>2</sup> )   | 2.0%                                     | 2.0%                                     |
| Geotextile Component <sup>1</sup> (single | -sided)     |  | ·  | ·  |
| Mass                                      | ASTM D-5261 | 1/90,000 ft <sup>2</sup> (1/8,400 m <sup>2</sup> )   | 6 oz/yd²                                 | 203 g/m²                                 |
| Grab Tensile Strength                     | ASTM D-4632 | 1/90,000 ft <sup>2</sup>                             | 170 lbs                                  | 757 N                                    |
| Grab Elongation                           | ASTM D-4632 | 1/90,000 ft <sup>2</sup>                             | 50%                                      | 50%                                      |
| CBR Puncture Strength                     | ASTM D-6241 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 435 lbs                                  | 1935 N                                   |
| Trapezoidal Tear Strength                 | ASTM D-4533 | 1/90,000 ft <sup>2</sup>                             | 65 lbs                                   | 289 N                                    |
| Apparent Opening Size (max.)              | ASTM D-4751 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 70 U.S Sieve max                         | 0.212 mm                                 |
| Permittivity                              | ASTM D-4491 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 1.5 sec <sup>-1</sup>                    | 1.5 sec <sup>-1</sup>                    |
| Water Flow Rate                           | ASTM D-4491 | 1/540,000 ft <sup>2</sup> (1/50,000 m <sup>2</sup> ) | 110 gpm/ft²                              | 4478 (l/min/m²)                          |
| UV Resistance                             | ASTM D-4355 | % Retained after 500 hrs.                            | 70%                                      | 70%                                      |
| Dimensions                                | · · ·       |  |  |  |
| Typical Roll Size                         | Measured    |  | 14.75 ft x 180 ft                        | 4.50 m x 54.9 m                          |
| Area                                      | Calculated  |  | 2655 ft²                                 | 247 m²                                   |

## Notes:

(1) Component properties prior to lamination.

(2) Roll Lengths may vary depending on the manufacturer. All roll widths/lengths have a tolerance of ±1 %.

(3) Custom roll lengths can be ordered. Transportation cost might be affected.

(4) Penteco is a distributor for this product with manufacturing partners based out of Canada & USA.

(5) Manufacturer data sheet provided at time of purchase.

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