



**AT THE CORE:**  
A 7.0 mm thick HyperDrain geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

# GSE FabriDrain 7.0 mm Geocomposite

GSE FabriDrain geocomposite consists of a 7.0 mm thick GSE HyperDrain geonet heat-laminated on one or both sides with a nonwoven needle-punched geotextile. The HyperDrain 7.0mm is comprised of a tri-planar structure consisting of middle ribs that provide direct channelized flow, with diagonally placed top and bottom ribs. The geotextile is available in mass per unit area of 200 g/m<sup>2</sup> and 270 g/m<sup>2</sup>. FabriDrain 7.0 mm geocomposite provides high transmissivity under high and low loads.

## Product Specifications

| Tested Property                        |              | Test Method                  | Unit                | Value                      |                            |
|--|--------------|------------------------------|---------------------|----------------------------|----------------------------|
| <b>Geocomposite</b>                    |              |                              |                     | <b>200 g/m<sup>2</sup></b> | <b>270 g/m<sup>2</sup></b> |
| Transmissivity <sup>(b,c,d)</sup>      | 20kPa        | Double Sided<br>Single Sided | ASTM D4716          | m <sup>2</sup> /s          | 1.18E-03<br>1.46E-03       |
|  | 100kPa       | Double Sided<br>Single Sided |                     |                            | 8.60E-04<br>1.27E-03       |
|  | 200kPa       | Double Sided<br>Single Sided |                     |                            | 7.11E-04<br>1.12E-03       |
| Ply Adhesion <sup>(d)</sup>            |              | ASTM D7005                   | kN/m                | 0.17                       | 0.17                       |
| <b>Geonet <sup>(*)</sup></b>           |              |                              |                     |                            |                            |
| Geonet Core Thickness <sup>(d)</sup>   |              | ASTM D5199                   | mm                  | 7.0                        | 7.0                        |
| Density <sup>(d)</sup>                 |              | ASTM D792                    | g/cm <sup>3</sup>   | 0.94                       | 0.94                       |
| Tensile Strength (MD) <sup>(b,d)</sup> |              | ASTM D7179                   | kN/m                | 11.0                       | 11.0                       |
| Carbon Black Content <sup>(d)</sup>    |              | ASTM D1603                   | %                   | 2.0                        | 2.0                        |
| <b>Geotextiles <sup>(*)</sup></b>      |              |                              |                     |                            |                            |
| Mass Per Unit Area <sup>(d)</sup>      |              | ASTM D5261                   | g/m <sup>2</sup>    | 200                        | 270                        |
| Grab Tensile Strength <sup>(d)</sup>   |              | ASTM D4632                   | N                   | 710                        | 975                        |
| Grab Elongation <sup>(a)</sup>         |              |                              | %                   | 60                         | 60                         |
| CBR Puncture Strength <sup>(d)</sup>   |              | ASTM D6241                   | kN                  | 1.89                       | 2.5                        |
| Trapezoid Tear Strength <sup>(d)</sup> |              | ASTM D4533                   | kN                  | 0.31                       | 0.42                       |
| Permittivity <sup>(d)</sup>            |              | ASTM D4491                   | sec <sup>-1</sup>   | 1.3                        | 1.3                        |
| Water Flow Rate <sup>(d)</sup>         |              |                              | l/m <sup>2</sup> /s | 65                         | 65                         |
| UV Resistance <sup>(d)</sup>           |              | ASTM D4355                   | % retained          | 70                         | 70                         |
| Apparent Opening Size <sup>(e)</sup>   |              | ASTM D4751                   | mm                  | 0.212                      | 0.18                       |
| <b>Roll Dimensions</b>                 |              |                              |                     |                            |                            |
| Roll Width <sup>(f)</sup>              | Double Sided |                              | m                   | 3.8                        | 3.8                        |
|  | Single Sided |                              |                     | 3.8                        | 3.8                        |
| Roll Length <sup>(f)</sup>             | Double Sided |                              | m                   | 50                         | 50                         |
|  | Single Sided |                              |                     | 50                         | 50                         |
| Roll Area                              | Double Sided |                              | m <sup>2</sup>      | 190                        | 190                        |
|  | Single Sided |                              |                     | 190                        | 190                        |
| Truck Load                             | Double Sided |                              | roll                | 19                         | 16                         |
|  | Single Sided |                              |                     | 21                         | 18                         |
| Container Load                         | Double Sided |                              | roll                | 19                         | 16                         |
|  | Single Sided |                              |                     | 21                         | 18                         |

**NOTES:**

- (\*): Component properties prior to lamination
- (a): Typical values;
- (b): Machine direction;
- (c): Transmissivity values determined at i=1.0 and 2.0mm HDPE linear boundary condition. Water @ 21±2°C;
- (d): Minimum average value
- (e): Maximum Average Value
- (f): Roll Length/Roll width is custom-made (Geotextile width is 4.2m)

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.

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