

# TerraDrain® Sheet 121

TerraDrain® Sheet 121 prefabricated drains are constructed using a formed polystyrene drainage core with a nonwoven filter fabric bonded to one side. The filter fabric is bonded to each dimple to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from one side.

TerraDrain® Sheet 121 provides additional protection for soft waterproofing membranes. The high-strength polymeric film is bonded to the flat side of the drainage core to prevent membrane intrusion into the back of the dimple.

| PROPERTY                | TEST METHOD | ENGLISH                         | METRIC                        |
|-------------------------|-------------|---------------------------------|-------------------------------|
| <b>Fabric</b>           |             |                                 |                               |
| Material <sup>1</sup>   |             | <b>PP</b>                       | <b>PP</b>                     |
| Water Flow Rate         | ASTM D4491  | <b>165 gpm/ft<sup>2</sup></b>   | <b>6724 Lpm/m<sup>2</sup></b> |
| Grab Tensile Strength   | ASTM D4632  | <b>100 lbs</b>                  | <b>0.445 kN</b>               |
| CBR Puncture Resistance | ASTM D6241  | <b>275 lbs</b>                  | <b>1.22 kN</b>                |
| Apparent Opening Size   | ASTM D4571  | <b>70 US Std. Sieve</b>         | <b>0.210 mm</b>               |
| Grab Elongation         | ASTM D4632  | <b>70 %</b>                     | <b>70 %</b>                   |
| UV Resistance           | ASTM D4355  | <b>70 % @ 500 hrs</b>           | <b>70 % @ 500 hrs</b>         |
| <b>Core</b>             |             |                                 |                               |
| Material <sup>1</sup>   |             | <b>PP/HIPS</b>                  | <b>PP/HIPS</b>                |
| Thickness               | ASTM D1777  | <b>0.44 in</b>                  | <b>11 mm</b>                  |
| Compressive Strength    | ASTM D1621  | <b>15000 lbs/ft<sup>2</sup></b> | <b>718 kPa</b>                |
| Flow Rate <sup>2</sup>  | ASTM D4716  | <b>17 gpm/ft</b>                | <b>211 Lpm/m</b>              |

<sup>1</sup> PP = Polypropylene; HIPS = High Impact Polystyrene

<sup>2</sup> In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 1.0.

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