

# TerraDrain® C-50

TerraDrain® C-50 prefabricated chimney drains are constructed by fully wrapping a moderate strength, moderate flow capacity, formed polystyrene perforated core with a nonwoven filter fabric. The filter fabric is bonded to the core to prevent soil intrusion into the flow channels while allowing water to freely enter the drain core from both sides.

TerraDrain® C-50 chimney drains are available in 12", 16" and 24" widths and provide a time saving, effective drainage solution for reducing hydrostatic pressure against retaining walls where full wall coverage is not required or is not feasible.

| PROPERTY                | TEST METHOD | ENGLISH                        | METRIC                        |
|-------------------------|-------------|--------------------------------|-------------------------------|
| <b>Fabric</b>           |             |                                |                               |
| Material <sup>1</sup>   |             | <b>PP</b>                      | <b>PP</b>                     |
| Water Flow Rate         | ASTM D4491  | <b>150 gpm/ft<sup>2</sup></b>  | <b>6113 Lpm/m<sup>2</sup></b> |
| Grab Tensile Strength   | ASTM D4632  | <b>115 lbs</b>                 | <b>0.512 kN</b>               |
| CBR Puncture Resistance | ASTM D6241  | <b>320 lbs</b>                 | <b>1.41 kN</b>                |
| Apparent Opening Size   | ASTM D4571  | <b>70 US Std. Sieve</b>        | <b>0.210 mm</b>               |
| Permittivity            | ASTM D4491  | <b>2.2 sec<sup>-1</sup></b>    | <b>2.2 sec<sup>-1</sup></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>HIPS</b>                    | <b>HIPS</b>                   |
| Thickness               | ASTM D1777  | <b>0.25 in</b>                 | <b>6.35 mm</b>                |
| Compressive Strength    | ASTM D1621  | <b>9000 lbs/ft<sup>2</sup></b> | <b>431 kPa</b>                |
| Flow Rate <sup>2</sup>  | ASTM D4716  | <b>12.5 gpm/ft</b>             | <b>155 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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