SITEDRAIN™ HQ 240-B SERIES
PREFABRICATED STRIP DRAIN

PRODUCT OVERVIEW
SITEDRAIN HQ 240-B Series geocomposite combination drain products are composed of a dimpled polymeric core with a geotextile bonded to the dimple side and a polymeric film bonded to the back side. The geotextile allows water to pass through while retaining backfill materials. The solid core allows water collection from one side and provides a continuous flow path to designated drainage exits. The polymeric backing film provides system compatibility with softer waterproofing membranes. The 24"-wide product combines 12" of high-profile T-thick core with 12" of low-profile 0.4"-thick core and includes an integrated transition flange for easy connection to SITEDRAIN geocomposite sheet drain products. SITEDRAIN HQ 240-B Series products provide a value engineered alternative to perforated pipe and aggregate subsurface drainage systems in applications requiring high strength, high flow capacity, and additional protection for softer waterproofing membranes. Various geotextile options are available to meet project-specific requirements.

PROPERTY | TEST METHOD | UNIT OF MEASURE | 244-B | 246-B | 248-B
---|---|---|---|---|---
GEOTEXTILE | | | PP, NPNW | PP, NPNW | PP, NPNW
Material | AASHTO M288 | PP, NPNW | 3 | 2 | 1
Survivability | ASTM D4632 | lbs | 135 | 195 | 245
Grab Tensile Strength | ASTM D4632 | N | 80 | 887 | 1,090
Grab Elongation | ASTM D4632 | % | 60 | 60 | 60
CBR Puncture | ASTM D6241 | lbs | 365 | 505 | 580
Trapezoidal Tear | ASTM D4533 | N | 1,624 | 2,246 | 2,580
UV Resistance | ASTM D4355 | % / 500 Hrs | 70 | 70 | 70
Apparent Opening Size (AOS) | ASTM D4751 | sieve | 70 | 70 | 80
 | mm | 0.212 | 0.212 | 0.180
Permittivity | ASTM D4481 | sec-1 | 2.4 | 2.1 | 1.8
Water Flow Rate | ASTM D4481 | gpm / ft2 | 175 | 155 | 135
 | Lpm / m2 | 7,130 | 6,315 | 5,501
CORE | | | | | |
Compressive Strength | ASTM D6384 | psf | 9,000 | 9,000 | 9,000
 | ASTM D1821 | kPa | 431 | 431 | 431
Thickness | ASTM D5199 | in | 0.4 / 1.0 | 0.4 / 1.0 | 0.4 / 1.0
 | mm | 10 / 25.4 | 10 / 25.4 | 10 / 25.4
In-Plane Flow Rate | ASTM D4716 | gpm/ft | 21 | 21 | 21
 | Lpm/m | 261 | 261 | 261
COMPOSITE | | | | | |
Roll Size | MEASURED | ft | 2 x 50 | 2 x 50 | 2 x 50
1 Unless otherwise noted, all physical and performance properties listed are Typical Value as defined in ASTM D4439.
2 PP = Polypropylene; NPNW = Needle-Punched Nonwoven; WM = Woven Monofilament; SBNW = Spunbonded Nonwoven
3 Values for AOS represent Maximum Average Roll Value (MaxARV).
4 In-plane flow rate measured at 3,600 psf (172 kPa) compressive load and a hydraulic gradient of 0.1.

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