

# ECODRAIN-S Drainage Composite

**BIGGER IS BETTER**



## High Performance Drainage Composite

- Polypropylene cores provide: (1) resistance to chemicals and temperature, (2) a waterproofing barrier, (3) durability.
- Heat-bonded geo-textile will not delaminate from core in warm temperatures.
- Flexibility for easy detailing of corners without cracking and to handle movement.
- 6' width provides minimal overlapping seams and cost effective installation.
- High compressive strength to handle the most demanding water control problems.

PROPERTY	TEST METHOD	2000	6000	6200	9000
CORE		Polypropylene	Polypropylene	Polypropylene	Polypropylene
Color		Black	Black	Black	Black
Weight	ASTM D 3776	2.45 oz/ft <sup>2</sup>	2.82 oz/ft <sup>2</sup>	2.82 oz/ft <sup>2</sup>	3.00 oz/ft <sup>2</sup>
Compressive Strength	ASTM D 1621	11,000 psf	17,000 psf	17,000 psf	18,000 psf
Thickness	ASTM D 1777	0.40 in.	0.40 in.	0.40 in.	0.40 in.
<b>FILTER FABRIC</b>					
Grab Tensile	ASTM D 4632	160 lbs.	160 lbs.	160 lbs.	365 lbs.
Elongation	ASTM D 4632	50%	50%	50%	24%
Trapezoidal Tear	ASTM D 4533	65 lbs.	65 lbs.	65 lbs.	115 lbs.
Puncture Strength	ASTM D 4833	90 lbs.	90 lbs.	90 lbs.	105 lbs.
Apparent Operating Size	ASTM D 4751	80 sieve size	80 sieve size	80 sieve size	40 sieve size
Mullen Burst	ASTM D 4751	315 psi	315 psi	315 psi	480 psi
Permittivity	ASTM D 4491	1.6 sec.	1.6 sec.	1.6 sec.	1.36 sec.
Water Flow Rate	ASTM D 4491	110 gpm/ft <sup>2</sup>	110 gpm/ft <sup>2</sup>	110 gpm/ft <sup>2</sup>	100 gpm/ft <sup>2</sup>
Weight Typical	ASTM D 5261	6.0 oz/yd <sup>2</sup>	6.0 oz/yd <sup>2</sup>	6.0 oz/yd <sup>2</sup>	6.5 oz/yd <sup>2</sup>
UV Resistance	ASTM D 4355	70% (500 hrs.)	70% (500 hrs.)	70% (500 hrs.)	70% (500 hrs.)
Material		PP	PP	PP	Woven PP
<b>COMPOSITE SYSTEM</b>					
Water Flow Rate (V)	ASTM D 4716	17 gal/min/ft	17 gal/min/ft	17 gal/min/ft	21 gal/min/ft
Water Flow Rate (H)	ASTM D 4716	2.8 gal/min/ft	2.8 gal/min/ft	2.8 gal/min/ft	3.8 gal/min/ft
Roll Size	ASTM D 4716	6.0 ft x 50 ft	6.0 ft x 50 ft	6.0 ft x 50 ft	6.0 ft x 50 ft
Roll Weight	ASTM D 4716	58 lbs	65 lbs	66 lbs	70 lbs

**EPRO SERVICES**  
P.O. Box 347  
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# ECODRAIN-S Specifications

## 1. PRODUCT NAME

**ECODRAIN-S**

## 2. MANUFACTURER

EPRO SERVICES, INC.  
P.O. Box 347  
Derby, KS 67037  
PHONE: 800-882-1896  
FAX: 316-262-2529

## 3. PRODUCT DESCRIPTION

### Basic Use:

ECODRAIN-S has been specifically designed to meet the drainage and protection requirements in structurally demanding below-grade waterproofing applications. ECODRAIN-S drainage composites effectively eliminate hydrostatic pressure against below-grade structures and aid in dewatering saturated soil by collecting and conveying groundwater to a drain pipe for discharge while protecting the waterproofing membrane.

### Composition:

ECODRAIN-S features a lightweight three-dimensional, high-compressive strength polypropylene core and heat-bonded polypropylene fabric. This bonding prevents backfill from pushing fabric into the flow channels and reducing waterflow. The filter fabric allows water to pass freely into the molded drain core where gravity draws the water through the flow channels to the discharge system, while preventing soil particles from entering and clogging the core structure and discharge pipe, significantly increasing the effectiveness and service life of the drain system.

### Benefits:

- Polypropylene core provides: (1) resistance to chemical attack from soil, (2) secondary waterproofing barrier, (3) thermal resistance, and (4) flexibility for easy detailing of corners.

- Heat-bonded geo-textile will not delaminate from core in warm temperatures.

- Maintains flexibility even in freezing temperatures.

- 6' width provides minimal overlapping of seams and very cost effective installation.

### Limitations:

Should not be exposed to long duration of UV.

## 4. TECHNICAL DATA

**Properties:** See chart

**Coverages:** See chart.

### Specification Writer:

Contact EPRO Services before writing specifications on this project. Test information available upon request.

## 5. INSTALLATION

**Preparation:** See specific application guide specifications.

**Application:** Should be applied in accordance with specific application guide specifications.

**Tools:** No special tools required for installation.

## 6. AVAILABILITY AND COST

Contact the local distributor and/or Authorized Applicator for availability and cost.

## 7. WARRANTY

Limited Warranty: EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

## 8. MAINTENANCE

No maintenance required.

## 9. TECHNICAL SERVICES AND INFORMATION

Complete technical services and information are available from EPRO Services.

