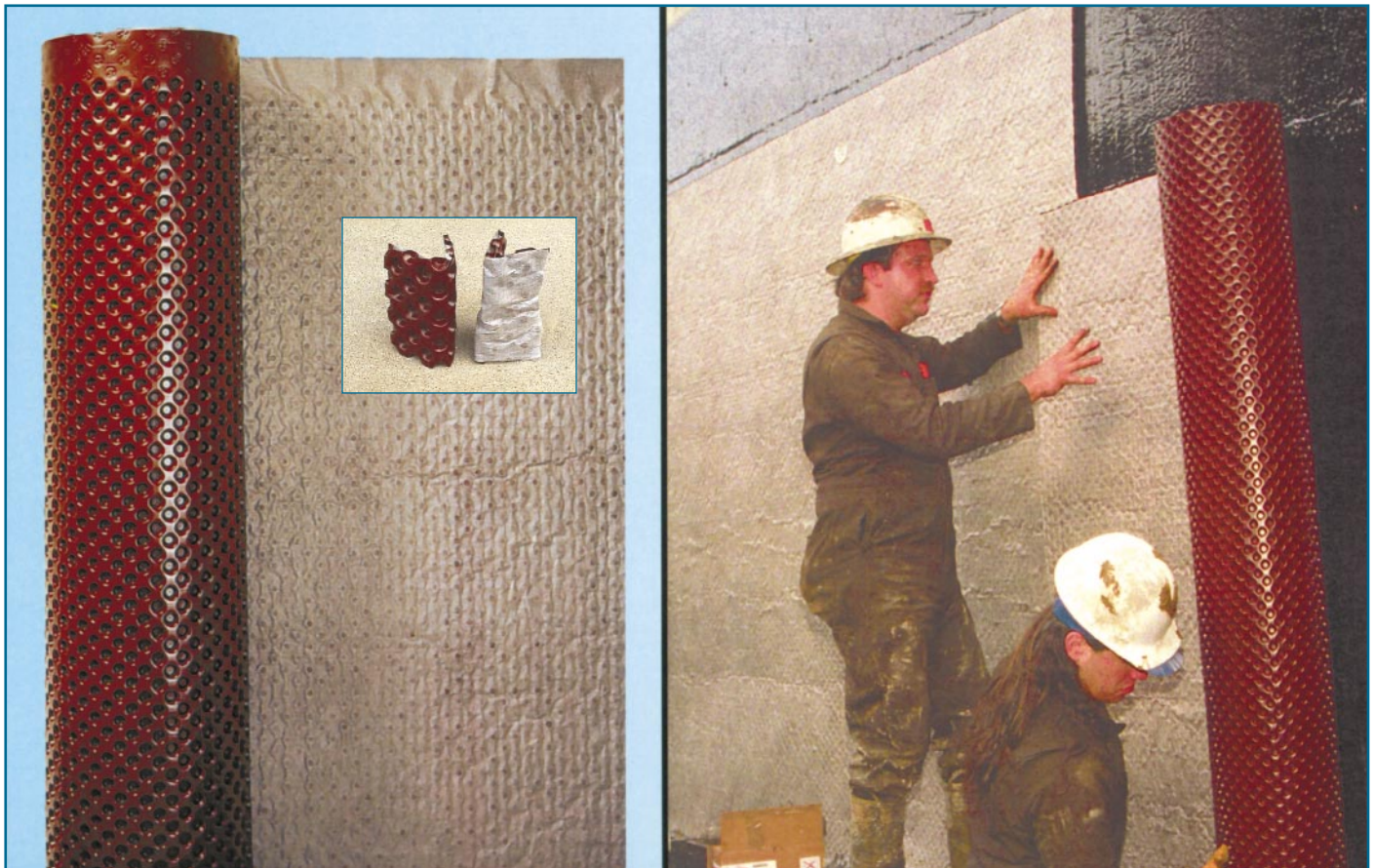


# ECODRAIN-E Drainage Composite

**MAKES A BIG DIFFERENCE**



## Economical and Effective Drainage Composite

- HDPE core provides: (1) resistance to chemicals and temperature, (2) a waterproofing barrier, and durability.
- Heat-bonded geotextile will not delaminate from core in warm temperatures.
- Flexibility for easy detailing of corners without cracking and to handle movement.
- Variable widths (6.6' and 8') provide minimal overlapping seams and cost effective installation
- Economically priced - provides a cost effective drainage composite for a total waterproofing system.

PROPERTY	TEST METHOD	UNIT	UNIT
<b>CORE (HDPE)</b>			
Color .....	N/A .....	N/A .....	Brown
Compressive Strength .....	ASTM D 1621 .....	lbs/ft <sup>2</sup> (kN/m <sup>2</sup> ) .....	5,200 (250)
<b>FILTER FABRIC (POLYPROPYLENE)</b>			
Apparent Opening Size .....	ASTM D 4751 .....	US std. Sieve (Micron) .....	60 (250)
Water Flow Rate .....	ASTM D 4491 .....	g/m/ft <sup>2</sup> (l/min/m <sup>2</sup> ) .....	60 (2400)
Grab Tensile Strength .....	ASTM D 4632 .....	lb (N) .....	120 (535)
Puncture Resistance .....	ASTM D 4833 .....	lb (N) .....	30 (35)
Trapezoid Tear Strength .....	ASTM D 4533 .....	lb (N) .....	40 (180)
<b>Composite System</b>			
Water Flow Rate @ 15% compressions .....	ASTM D 4716 .....	gal/min/ft width .....	9.7
		(l/min/m width) .....	(126)

**Packaging**

Available in the following roll dimensions: (1) 6.6' x 65.6' (430 sq. ft.) (2) 8' x 65.6' (527.5 sq. ft.)

**EPRO SERVICES**  
**P.O. Box 347**  
**Derby, KS 67037 USA**



**Phone: 800-882-1896**  
**Fax: 316-262-2529**

# ECODRAIN-E Specifications

## 1. PRODUCT NAME

**ECODRAIN-E**

## 2. MANUFACTURER

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

## 3. PRODUCT DESCRIPTION

### Basic Use:

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

### Composition:

ECODRAIN-E features a lightweight three-dimensional, highly flexible HDPE core and a polypropylene filter fabric. The filter fabric is heat bonded to the dimples of the HDPE core. 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:

- High density polyethylene 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 geotextile will not delaminate from core in warm temperatures, as adhesive bonded materials do. Convex (rounded) dimple design reduces stress on protected waterproofing membrane or insulation-board from backfill pressure while eliminating hydrostatic water pressure.
- Variable widths (6.6' and 8') provide minimal overlapping seams and cost effective installation.

### Limitations:

- Should not be exposed to long duration of UV.
- Application depth of 30 ft.

## 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 re-treat 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.



Rev. ED.10.11.97

