

ALABAMA DEPARTMENT OF TRANSPORTATION  
PROCEDURE FOR EVALUATION AND MAINTENANCE OF

LIST II-26

**PREFABRICATED VERTICAL DRAINS**

1. **Material:** Prefabricated Vertical Drains (PVD, Vertical Drainage Wicks, Wick Drains) 7.1 Produce the same quality of material as the material supplied for the original evaluation.
2. **Specification:** Section 239 7.2 Provide only approved products to Department projects.
3. **Jurisdiction:** Product Evaluation Board, Geotechnical Division, Soils Laboratory 7.3 Promptly report to the Department any changes in company name, product name, company address or company ownership.
4. **Job Acceptance Requirements:** No job control samples necessary if the product works satisfactorily. 7.4 Notify the Department of any changes in production of the product. Any alteration that will change the product physically or chemically will require a reevaluation of the product.
5. **Project Engineer's Responsibility:** Check and assure that the materials are on the approved list. 7.5 Furnish certified test reports covering all materials used in the construction of the PVD.
6. **Producer's Initial Requirements:** Companies wishing to have products evaluated for placement on this list should furnish the Department's Product Evaluation Board with the following: 7.6 Promptly report to the Department any changes to the manufacturer's Build America, Buy America (BABA) compliant status.
  - 6.1 Submittal according to Department procedure ALDOT 402.
  - 6.2 Submittal and testing fees according to Department procedure ALDOT 355.
  - 6.3 Submittals should be sent to:  
  
ALDOT Product Evaluation Board  
Bureau of Research and Development  
3704 Fairground Road  
Montgomery, AL 36110
8. **Laboratory Testing:** The producer shall submit certified test reports which indicate that the PVD materials meet the following Minimum Average Roll Value (MARV) requirements per the indicated ASTM test designation:
  - 8.1 **Non-Woven Geotextile Properties:**  
Grab Tensile ASTM D4632 100lbs  
Trapezoidal Tear ASTM D4533 50lbs  
Puncture Strength ASTM D4833 40lbs  
Burst Strength ASTM D3786 130 psi  
Permittivity ASTM D4491 0.5 sec<sup>-1</sup>
  - 8.2 **Core Properties:**  
Tensile Strength ASTM D638 100lbs
  - 8.3 **Composite Drain Properties:**  
Discharge Capacity at 1.45psi  
ASTM D4716 1.5gpm
  - 8.4 The Department will check all data submitted for the product to assure compliance with the Department's specifications.

9. **Contractors' Requirements:** The prime contractor will be responsible for purchasing and using only approved products.
  
10. **Removal of Products:** Products may be removed from this list for any of the following:
  - 10.1 Mislabeling products or substitution of products other than those originally submitted.
  - 10.2 Failure to comply with any of the Department's requirements for this type of material.
  - 10.3 Failure to work satisfactorily on the job.
  - 10.4 A change that will affect the manufacturer's BABA status requirement(s) will result in either (1) the product being removed from the approval list or (2) will remain on the approval list and will be labeled as non-compliant and can be used on non-federal funded projects.
  
11. **Correspondence:** All correspondence concerning this list should be directed to the following:

ALDOT Product Evaluation Board  
3704 Fairground Road  
Montgomery, AL 36110