



\*\*\*\*THIS IS A NEW APPENDIX. – PLEASE READ CAREFULLY.\*\*\*\*

**INSPECTION & ACCEPTANCE  
PREFABRICATED VERTICAL DRAINAGE WICKS (WICK DRAINS)**

**GENERAL**

Wick drains are prefabricated vertical drainage wicks. They shall consist of a band –shaped plastic case which permits continuous vertical drainage, wrapped in a filter material, installed in the subsoil by displacement methods and spaced and arranged as shown on the plans.

Wick drains shall be a prefabricated type and shall consist of a plastic drainage core encased in or integrated with a filter jacket. The jacket shall allow free passage of pore water to the core without loss of soil material or piping. The core shall provide continuous vertical drainage. The drain shall be band –shaped with an aspect ratio (width divided by thickness) not exceeding 50.

**ACCEPTANCE**

Acceptance of wick drains shall be based on manufacturer and brand name approval. Approved manufacturers and brand names are listed in [Appendix A](#).

**MANUFACTUER AND BRAND NAME APPROVAL**

To obtain approval, the manufacturer shall submit the following information to the Office of Materials:

1. A product sample (three foot, full-width sample including the fabric)
2. Product identification
3. Technical information on use of the product
4. Independent lab results showing the following properties:

<u>Property</u>	<u>Minimum roll Value.</u>	<u>Test Method</u>
Grab Tensile Strength	80 lb. (355N)	ASTM D 4632
Trapezoidal Tear	25lb. (110 N)	ASTM D 4533
Puncture Strength	50 lb. (220N)	ASTM D 4833
Burst Strength.	130 psi (900 kPa)	ASTM D 3796
Permittivity100 gal/min/ft2	ASTM D 4491 (4285 L/min/m2)	

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The wick drain material shall be labeled or tagged in such a manner that the information for sample identification and other quality control purposes can be read from the label. As a minimum each roll shall be identified by manufacturer as to lot or control number, individual roll number, date of manufacture, manufacturer and product identification of the jacket and core. During shipping and storage the drain shall be wrapped in heavy paper, burlap or similar heavy duty protective covering and in accordance with the manufacturer's recommendations.

### **MONITOR SAMPLING AND TESTING**

Samples may be secured from the project to verify a match with the product previously approved.