

***** DRAFT – NOT FOR FILING *****

3745-512-625

Cap system geocomposite drainage layer.

(A) The cap system geocomposite drainage layer shall meet the following criteria:

- (1) The filter fabric components shall have an apparent opening size necessary to retain the soil overlying the geocomposite.
- (2) The filter fabric components shall have an apparent opening size and either a porosity or percentage of open area available to resist clogging by adjacent soil.
- (3) Have a minimum transmissivity to ensure that the overlying cap protection layer will not become saturated. The minimum transmissivity is calculated by dividing the pre-construction test results for transmissivity, conducted in accordance with rule 3745-512-15 of the Administrative Code, by a factor of safety of 2.0 and appropriate reduction factors for elastic deformation, intrusion, creep deformation, biological clogging, and chemical clogging.
- (4) Be placed by the owner or operator without folds or wrinkles and be overlapped and secured in a manner that will keep the geocomposite in place during placement of overlying materials and be placed and secured in accordance with the manufacturer's specifications.
- (5) Each panel of geocomposite shall be secured by the owner or operator to adjoining panels. The geonet shall be overlapped and secured with cable ties in accordance with the manufacturer's specifications. The top geotextile shall also be overlapped and sewn in accordance with the manufacturer's specifications.

(B) Testing of the cap system geocomposite shall be performed by the owner or operator in conformance with the following:

- (1) Pre-construction testing on representative samples to determine shear strength in accordance with rule 3745-512-10 of the Administrative Code.
- (2) Pre-construction testing on representative samples in accordance with rule 3745-512-15 of the Administrative Code.

(C) Certification of the cap system geocomposite drainage layer by the owner or operator shall include the following:

- (1) Record drawings showing the location, including the run-out if applicable, as constructed.
- (2) Results of all testing and verification that the geocomposite meets the standards in paragraph (A) of this rule and the specifications in the authorizing document.