

\*\*\* DRAFT – NOT FOR FILING \*\*\*

3745-512-612

Cap system geosynthetic clay liner.

(A) Cap system geosynthetic clay liner shall conform to the following:

- (1) Have a dry bentonite mass per unit area of at least 0.75 pounds per square foot at zero per cent moisture content.
- (2) Be handled and stored by the owner or operator in accordance with ASTM D5888 (storage and handling of GCL) as described in rule 3745-500-03 of the Administrative Code.
- (3) Be placed by the owner or operator with direct and uniform contact onto not less than twelve inches of either structural fill consisting of soil or transitional cover.
- (4) Be installed by the owner or operator in accordance with ASTM D6102 (installation of GCL) as described in rule 3745-500-03 of the Administrative Code. The surface of the subbase shall be free of sharp edged protrusions and of any particle protruding more than 0.25 inches.
- (5) Have a minimum overlap of six inches or, for end-of-panel seams, a minimum overlap of twelve inches. Overlap shall be increased in accordance with the manufacturer's specifications and to account for shrinkage due to weather conditions. Granular or powdered bentonite to enhance bonding at the seams shall be used by the owner or operator in accordance with the manufacturer's specifications.

(B) Testing of the geosynthetic clay liner 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 geosynthetic clay liner by the owner or operator shall include the following:

- (1) Record drawings showing the plan views, including the run-out if applicable, with topographic representation of the final elevations of the geosynthetic clay liner, as constructed.
- (2) The results of all testing and verification that the geosynthetic clay liner meets the standards in paragraph (A) of this rule and the specifications in the authorizing document.