
CONSTRUCTION SPECIFICATION
INSTRUCTION FOR USE
CS-I-OR-098 GEOSYNTHETIC CLAY LINER

097.1 APPLICABILITY

Construction Specification CS-OR-098 is applicable to the placement of geosynthetic clay liners in liquid containment systems to control seepage.

097.2 MATERIAL SPECIFICATIONS

The following material specification complements Construction Specification CS-OR-098:

- a) MS-OR-595---Geosynthetic Clay Liner

The following construction specification also complements Construction Specification CS-OR-098:

- a) CS-OR-095---Geotextile

097.3 INCLUDED ITEMS

Items to be included in the contract Drawings and specifications follow:

- a) The maximum index flux of the geosynthetic clay liner. Geosynthetic Clay liners sandwiched between two geotextiles typically have an index flux of 1×10^{-8} m/s while those with a laminate or film have an index flux of 1×10^{-9} m/s.
- b) The required lines and grades of the liner sub-grade and the cover layer, if applicable.
- c) Details of panel placement, orientation, and anchorage.
- d) Requirements of any cushioning material to be used and the material references for the same.
- e) Requirements for subgrade compaction.
- f) Requirements for under drains or interceptors and the associated materials.
- g) Details for any loading, unloading, or cleanout ramps.
- h) Details for pipe outlets or appurtenances to fit the liner to the outlet or inlet structures.

- i) Details for fences, ladders, or other safety features.
- j) Any special instructions related to the materials, installation, and onsite quality control testing.

097.4 ITEMS OF WORK AND CONSTRUCTION DETAILS

Starting at the top of page 098-4, prepare and outline job specific "Items of Work and Construction Details" (IWCD) in accordance with these instructions.