
CONSTRUCTION SPECIFICATION
INSTRUCTION FOR USE
CS-I-OR-097 FLEXIBLE MEMBRANE LINER

097.1 APPLICABILITY

Construction Specification CS-OR-097 is applicable to the placement of flexible membrane liners in liquid containment systems to control seepage.

097.2 MATERIAL SPECIFICATIONS

The following material specification is complementary to Construction Specification CS-OR-097:

- a) MS-OR-594---Flexible Membrane Liner

097.3 INCLUDED ITEMS

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

- a) The type of liner material being used and the required thickness.
- 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 for subgrade compaction.
- e) Requirements of any cushioning material to be used and the material references for the same.
- f) Requirements for a geosynthetic rub sheet, as mentioned in Section 097.6, Liner Placement
- g) Requirements for under drains and the associated materials.
- h) Details for any loading, unloading, or cleanout ramps; including batten strips or other means of fastening.
- i) Details for pipe outlets and boots or appurtenances to fit the liner to the pipe, concrete, or steel structures, as mentioned in Section 097.11, Appurtenances.
- j) Details of gas vents and their locations, as mentioned in Section 097.12, Gas Vents and Drainage.
- k) Details for fences, ladders, or other safety features.

- l) Requirements for cover soil, as mentioned in Section 097.13, Cover Soil.
- m) Requirements for concrete placement including the slump of the concrete, as mentioned in Section 097.14, Placement of Concrete.
- n) 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 097-7, prepare and outline job specific "Items of Work and Construction Details" (IWCD) in accordance with these instructions.