

Method of Statement for Dams

1. **General:**

1.1 **Execution:**

The surface area of the liner on which geotextile shall be laid, should be cleared of root, vegetation and organic particles and sharp substances as stones and aggregate.

It should fully cover the geocomposite lining to provide a controlled protection layer between the geocomposite lining and the upper protection concrete lining.

The liner should be overlapped with hot air welding 50mm.

Geotextile rolls should be laid just ahead of the constructional activity on them so that the exposure to sunlight will be limited.

Exposed surface should be protected against damages by traffic, application of mechanical tools or equipment as well as careless workmanship by leaving sharp and hot matters, before the execution of ballasting concrete slabs.

1.2 **Anchorage:**

The sheets shall be anchored to the crest of the dam and all along the concrete perimeter plinth, by means of mechanical fixation.

All the surface of the geomembrane, confined among the anchorage at crest and the continuous perimeter seal on the foundation plinth, shall be covered by the geotextile layer, and then ballasted by concrete cast in site.

2. Scope of work:

2.1 Separation Layer:

Separation layer of polyethylene minimum 150 micron will be laid over the substrate of porous concrete to receive the membrane.

2.2 Installation of INSUWRAP PVC waterproofing membranes (Type 2500 L-FB)

The required liner is **Insuwrap PVC 2500 L-FB** (Liner Fleece Back), 2.50mm thick and loose laid.

2.3 Protection Layer:

Protection layer will be non-woven geotextile, weighing a minimum of 1000 gm/m² between the membrane and the concrete ballast.