

SUGGESTED SUBGRADE PREPARATIONS

The Civil Contractor shall be responsible for preparing and maintaining the subgrade in a condition suitable for installation of the liner unless specifically agreed otherwise.

1. Surfaces to be lined shall be smooth and free of debris, roots and angular or sharp rocks larger than 15 mm in diameter to a depth of 150mm, depending on the liner thickness. All fill shall consist of well graded material free of organics, trash, clayballs, sharp stones or any other material that may cause damage to the liner. The subgrade shall be compacted in accordance with design specifications. It should in no event be compacted below the minimum required to provide a firm unyielding foundation, sufficient to permit the movement of vehicles or other deleterious effects. The subgrade shall have no sudden sharp or abrupt changes in grade. The maximum deviation under a 3m straight edge should typically be less than 50 mm, depending on the liner type.
2. The Civil Contractor shall protect the subgrade from desiccation, flooding and freezing. Protection, if required, may consist of a thin plastic protective cover (or other material as approved by the Engineer) installed over the completed subgrade until such time as the placement of the geomembrane liner begins. Subgrade found to have unacceptable desiccation cracks or which exhibit swelling, heaving or other similar conditions shall be replaced or reworked by the Civil Contractor to remove these defects.
3. **SURFACE ACCEPTANCE:** Engineered Linings shall provide the Client/ Manager with a written acceptance of the surface prior to commencing installation. Subsequent repairs to the subgrade and the surface shall remain the responsibility of the Civil Contractor.