

Bunker Liner Specification

Prior to bunker liner installation the bunker profile will be adequately 'cored' and subgrade compacted to provide a stable foundation for the liner material. Sharp stones greater than 25 mm (1") in size shall be removed from the surface. The intended bunker liner – subgrade fasteners shall be pre-checked to make sure that adequate penetration and pull-out resistance in the subgrade can be effected e.g. whether application of staples is to be done manually by hand or pneumatically by machine. In most cases fasteners shall be steel and a minimum of 150 mm (6") in length. Drains shall be tested to ensure that they perform to the satisfaction of the architect prior to bunker liner placement. Surrounding bunker edge and lip areas shall be adequately stabilized (e.g. with light plywood) to ensure that there is no risk of surrounding soils (or for example newly placed unwashed sod) washing in to the bunker area and contaminating the bunker liner after deployment.

The bunker sand shall generally be free of fines and shall be generally angular and coarse in nature. If deemed necessary by the architect the bunker liner shall be tested for compatibility with the bunker liner by an approved laboratory.

The bunker liner material shall be as follows, or equivalent, as pre-approved prior to the bid by the architect. For example, for:

Well draining, granular soil subgrades: e.g. Traptex HR, Traptex HRN

Poorly draining, very fine soil subgrades: e.g. Traptex MXR

The bunker liner material shall be at minimum 2.0 m (78") in width and shall be manufactured with polyester fibers secured in place by a dual fiber locking process involving both mechanical and synthetic resin bonding. The material supplier shall demonstrate that the bunker liner will provide adequate stability when exposed to sunlight (U.V.) with at minimum 90% original tensile strength retained after 60 days direct sunlight exposure. The liner materials will be supplied in individual opaque plastic bags that clearly identify the type of liner material.

The bunker liner material shall be placed according to the manufacturers specifications. Textile backed (e.g. Traptex MXR) bunker liner shall be cut and folded into the edges of gravel drain lines and securely stapled along the edge of the drain line. If requested by the architect, a representative from the bunker liner manufacturer shall visit the job site after liner deployment to 'sign-off' and approve the liner installation prior to bunker sand placement. The bunker liner shall be covered with the approved bunker sand to the depth specified by the architect within 60 days of deployment (else covered with UV resistant opaque plastic). The golf course operator shall maintain the specified sand depths and ensure conscientious raking of the bunker sand. For the supply and installation of Traptex bunker liner materials, contact Clive Mills, Fiber Bond Corporation, USA, tel. no. 262-389-0695, email: clive.mills@fiberbond.net.