

ShoreFlex® (herein referred to as mats) installation shall be performed by a manufacturer approved installer. All equipment, materials, labor, and incidentals associated with placing ShoreFlex® are to be covered by the approved installer.



SUBGRADE AND SEEDING

Subgrade prep should follow the construction plans submitted either by the engineer or manufacturer. The subgrade should be smooth, firm, unyielding, and free from all debris including sticks, rocks, roots, and other protrusions that would inhibit intimate contact with the subgrade. No individual block should be raised more than 3/4 in. above the immediately adjacent block to ensure proper hydraulic performance. Compaction of base to meet 95% proctor unless specified otherwise.

Topsoil and seed can be applied directly to prepared subgrade prior to the placement of the mats to obtain desired expedited vegetation growth.

Mats should be installed according to the line and grade shown in the plans that have been provided by the engineer or the manufacturer. Onsite technical assistance will be available from the manufacturer during installation if needed.



DOWNHILL AND CROSS CHANNEL INSTALLATION

Mats installed parallel with the slope can be placed at the top of slope and allowed to roll down the slope. Once mats have unrolled and come to rest, they shall be pulled taut with no slacking within the mat. Subsequent mats shall be placed as described above.

If mats are being laid across the channel perpendicular to flow, they can be placed at the top of slope and allowed to roll downslope. Once the rolls come to rest, they can either be unrolled manually or with equipment through the bottom of the channel and up the other side of the channel. If equipment is used care must be taken so that no sharp edges or teeth on equipment buckets make contact and tear either the underlayment or grid of the mats. When damage occurs contact the Engineer of Record or manufacturer to decide the course of action required to repair the mats. When equipment is used it is preferable to the backside of equipment buckets to ensure integrity of the mats.

Mats shall be anchored, trenched and seamed as described in paragraphs below.



CROSS SLOPE INSTALLATION

Mats that are to be installed perpendicular with the slope shall be placed along the slope and either manually pushed across the slope or by using equipment. If equipment is used care should be taken as described above in the previous paragraphs not to damage underlayment or grid.

SEAM PLACEMENT

Installation of adjacent mat seams perpendicular to the flow should be done with a shingle installation method. The downstream mat shall be placed a minimum of 18 in. underneath the upstream adjoining mat and can be fastened together as per the engineer or manufacturer's recommendation.

Installation of adjacent mat seams parallel to the direction of flow shall not meet in the middle of the channel and should have a 2ft. erosion control blanket placed equally under both mats and both mats shall be fastened together using the engineer or manufacturers recommendation.



TRENCHING AND ANCHORING

A minimum toe trench of 18 in. should be dug for the leading edge of the concrete mat that is perpendicular to channelized flow. All exterior edges of the concrete mat not exposed to channelized flow should be trenched in a minimum of 3". The leading edge and sides of the mat will be placed in the trenches and backfilled with a non-erodible soil or site-specific soil.

Additional anchoring can be achieved by using the lifting/anchoring loops that are embedded into the concrete blocks at the edges of each mat. Each loop can be used to adjust mats during installation as well as be used for attaching earth anchors to permanently hold the concrete mats in place.

Standard anchoring requires the used of 18" "U" #4 rebar anchors on 8' centers. These anchors are provided with the mats as part of the system. However, the engineer of record for the project may have different requirements and installer must follow the directions as spelled forth in the contract documents.

DISCLAIMER

The installation guide as described above shall serve as a standard use only. Job conditions and the project engineer may have different requirements for specific projects. If there is a discrepancy between this document and the contract documents, the installer shall always for the specific requirements set forth by the Owner and Engineers project requirements.