

Tri-lock®

SHAW
PRECAST SOLUTIONS

Erosion Control System

Stability - Flexibility - Permeability - Simplicity



Streams & Channels



Pathways & Swales



Permeability. Tri-Lock allows effective hydraulic pressure relief due to the close proximity and interval of its voids. The voids are created by the configuration of the assembly of the blocks and not by holes made through the blocks. This unique method assures the blocks are not weakened by penetrations that may cause stress cracking.

Flexibility. This system is the most flexible of any revetment system. The flexibility is achieved by providing adequate tapers at all the interlocking junctions. Tri-Lock will flex to approximately one meter radius in all directions and remain flexibility. It is recommended that the maximum design radius be 1.2 metres to allow for soil settlement.

Revegetation. The voids within the system provide sufficient space for topsoil to support lush vegetation when necessary or desired. Channels are created between the system's voids allowing root systems to migrate between cells to thoroughly interlock and avoid being exposed to traffic or other damaging events. The relatively smooth surface of the system allows for grass cutting with conventional grass cutting equipment if required. The resultant benefit of hard armour performance with improved natural habitat and reduced urban heat island effects are major benefits of Tri-Lock.

Access. The completed Tri-Lock revetment will support both pedestrian and vehicular traffic, provided the sub-surface has been designed to support that traffic. Should vegetation not be desired, for instance, in the case of an access or boat ramp, the voids may then be filled with 20mm rock chip or gravel.

Penetrations. Because Tri-Lock modules are connected to three adjacent modules, the removal of one or more modules is possible without causing the system to be disconnected. The remaining peripheral modules will always be safely connected to at least two others. This feature allows safe and easy access for the installation of drainage pipes, piles and the like. To neaten the penetrations it is usual to construct a cement grout collar around the opening taking care not to fix the collar to the penetrating pile or pipe so that it maintains flexibility and allows free settlement around the feature.

Cost. The Tri-Lock System is very competitive with any alternative system, yet provides benefits not achievable with other methods. The Tri-Lock System needs minimum maintenance and has proven longevity in worldwide installations over the past 25 years.

Revegetation

Before



After

