

VSoL[®] Retained Earth



Nicklin Way & Sunshine Motorway, Brisbane, Australia

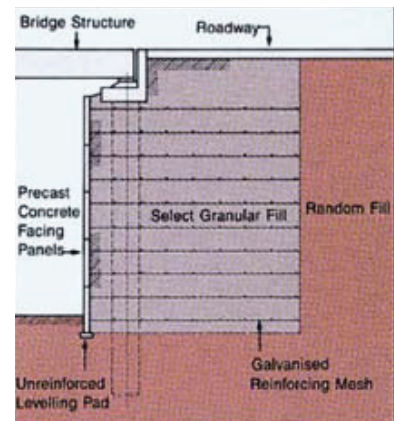
The VSoL[®] Retained Earth Systems a composite soil reinforcing system which employs welded wire mesh to improve the strength of an earth backfill.

A Retained Earth structure is a stable, unified gravity mass which may be designed for use in a broad variety of civil engineering applications. In projects ranging from commercial retaining walls to highway bridge abutments, VSoL[®] has found widespread use and acceptance as a major construction system. The effective principle of Retained Earth involves the transfer of stresses from the soils to the reinforcing mesh through bearing. Bearing pressure is developed on the projected areas of the mesh crossbars, and the pressure is in turn transferred to the longitudinal bars. The longitudinal bars are thus placed in tension, which enables the soil mass to withstand loads in the direction of the reinforcement.

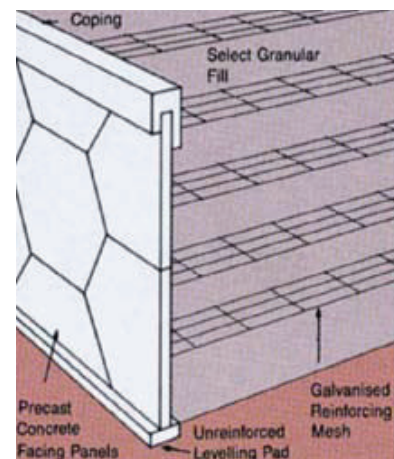
In addition to the significant performance advantages, the VSoL[®] System is also extremely economical to design and construct. The system consists of only three components, reinforcing mesh, precast facing panels and backfill material. This simplicity allows construction to proceed easily and rapidly. Cost savings of up to 50% are regularly realised when compared with traditional stabilisation systems.

FAST, EASY, ECONOMICAL

The construction of a Retained Earth structure is extremely straightforward. A five-man crew using standard construction equipment will average 75m² of wall per shift, and can place up to 140m² per shift.



Typical Section of VSoL[®] Retained Earth Wall at a Bridge Abutment



Perspective View of VSoL[®] Retained Earth Retaining Wall



Brunswick Heads, Australia



Albury Bypass, Queensland, Australia

COMPLETE CAPABILITIES

VSL advises customers and their consulting engineers during the feasibility stages of projects, and prepares preliminary design and cost estimates, as well as detailed designs, drawings and specifications. The company also assists contractors with the pricing of tenders, and provides quotations during the tender stages. Execution of the on-site project can be tailored to suit the customers requirements, from a supply only arrangement to a full sub-contract agreement.

COMPLETE FLEXIBILITY

The VSoL® concrete facing panels are available in a broad range of textures and colours. As local materials are used in the production of these precast panels, the exposed surface can easily be coloured to complement the natural surroundings.

Raised relief, sandblast finish, exposed aggregate, and conventional smooth face concrete represent just a few of the available standard Retained Earth panel finishes.

Other facing systems, such as modular blocks, and mesh are also available for both permanent and temporary structures.

For more information please refer to the VSoL® Brochure. Contact your local VSL office for details.



ROM Dump Structure, Bengalla Hine, Australia



Eastlink, Melbourne, Australia