

MSE Structural Wall Systems

Total Flexibility on Wall Design and Construction

Provides fast, flexible embankment protection for a wide variety of infrastructure



Product Information

These historically-proven, cost-effective systems are easy to install using local equipment and crews. They adapt well to curves, angles and steps, and can reach heights of over 30m. Able to handle the most extreme surcharge loads, their core strength is in their heavy-duty soil reinforcement systems made from high quality, welded, galvanised steel.

They are easy to ship and store on the job site. Pilings and other obstacles are easily accommodated as the Precast Panels can be ordered with additional anchors, and the Grid-Strips can be skewed around them.

From natural rock or vegetated faces to custom precast panel designs, it is available with many types of finish options.

Applications

- Retaining walls, headwalls, and wingwalls
- Bridge abutments
- Crusher ramps and walls
- Grade separations
- Steepened slopes
- Highway, commercial, mining and industrial applications
- Both urban and rural settings
- Complex sites and native soil conditions
- Curves, angles, steps, culverts, piles, and other site anomalies

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Benefits

- Simplified and standardized soil reinforcing strip
- Saves time and money on labour and material
- Versatile system easily accommodates obstructions and unique design or geometric constraints
- The ultimate soil reinforcement for all applications
- Fewer components simplify onsite quality control
- Install with minimal site preparation and work area
- Deliver extended design service life expectancies

Features

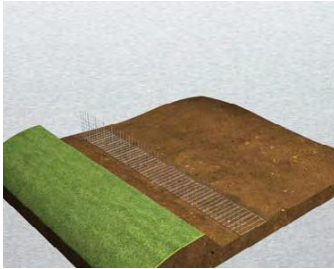
- Temporary or permanent applications up to 100+ years
- Suit any type of application with a variety of finishes
- Reach heights of over 30m
- Support substantial static and dynamic loads
- Resist seismic activity shock
- Made from durable galvanised steel
- Stabilize unpredictable landscapes



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Wire Walls

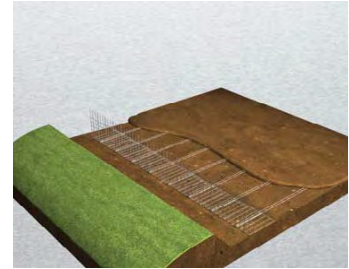
Wire Walls provide fast, flexible embankment protection for both temporary and permanent applications. They are quick and easy to erect for both permanent and temporary applications. Wire Walls easily accommodate curves, angles or steps, culverts, bridge piles or other site requirements. Ideal for staged construction of structural plate.



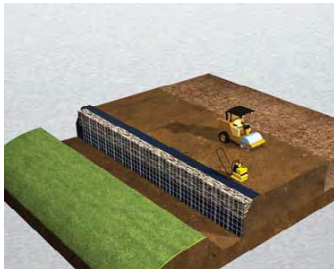
Starter wire face is installed on a compacted base.



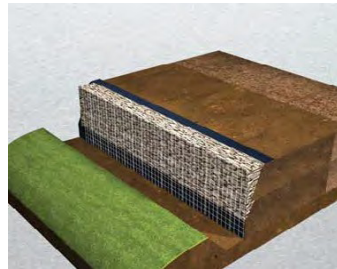
Grid-Strip™ Soil Reinforcement System added.



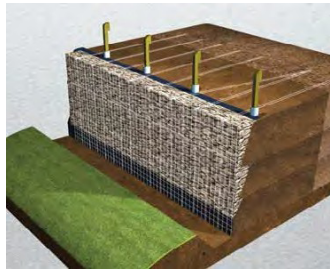
Backfill added over first course of reinforcement.



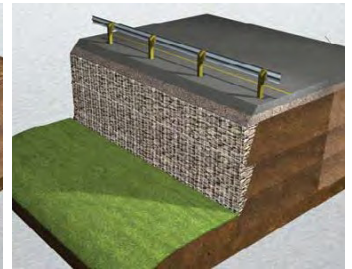
First fill lift with fabric and select stone above grade.



Repeat previous steps for additional lifts.



Grid-Strip™ System can skew around obstructions.



Then safety barrier and road surface added.

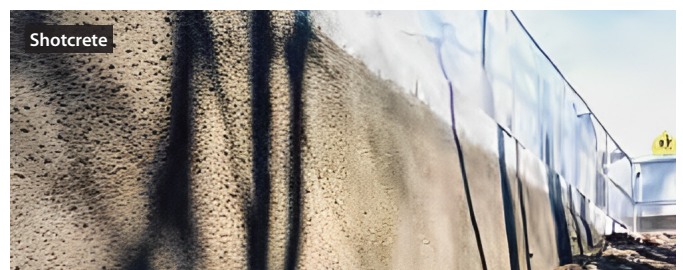
Finish Options

Wire Walls

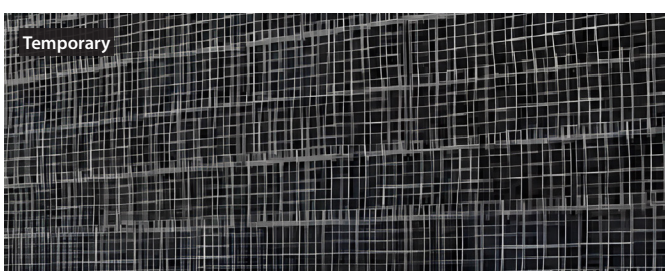
Wire Walls can be left 'natural', with exposed wire and select rock face or they can be designed to accept a variety of finishes, such as grass, vegetation and shotcrete. Temporary Wire Walls with black steel and filter fabric at the face are also available.



Natural Stone



Shotcrete



Temporary



Vegetated

About Us

Leader in Geosynthetics

Global Synthetics is a 100% Australian-owned company, proud to offer a complete range of high-quality geosynthetic products backed by over 200 years of combined staff experience in the industry.

We have supplied products to some of the largest recent infrastructure works in Australia. Global Synthetics provides major benefits to any geotechnical engineering project with the right products and our technical expertise.

Global Synthetics products are used in the following applications:

- Pavement Stabilisation
- Ground Improvement
- Soil Reinforcement and Retaining Structures
- Water Management
- Drainage Systems & Hydraulic Works
- Landfills
- Coastal Erosion Structures

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