

## WEBWALL

### Soil Walls

Cost savings and a more sympathetic surface finish can be achieved with the **WEBWALL** retaining system. **WEBWALL** is ideal in situations with weak foundation soils. Site won material can be used as fill so reducing cart away costs. The retaining structure is formed from horizontal layers of **WEBWALL** placed and filled one on top of another. The front face can be grassed or planted to create a very environmentally acceptable finish. **WEBWALL** system is designed to retain moisture required for the plant growth. Walls over 2 metre high are constructed as reinforced soil walls by using strips of **ABGRID** or **ABTEX** reinforcement geotextile behind the **WEBWALL** panels.

#### •Construction

**WEBWALL** is a honeycomb structure of Polymer strips securely interlocked at the joints with nylon. It is folded flat for transport and expanded on site.

#### •Applications

Noise barriers, retaining walls, steep slopes, blast bunds, etc.

#### •Design

Our Technical Department can offer advice and design proposals for the most economic use of the material\*. Design assistance is provided for selection, detailing and installation at no charge to the specifier or end user.

#### •Colour

Black with dark green front face.

#### •Chemical Resistance

**WEBWALL** has excellent chemical resistance to a wide range of chemicals normally found in the ground. We will be pleased to advise on specific substances.

#### •Supply

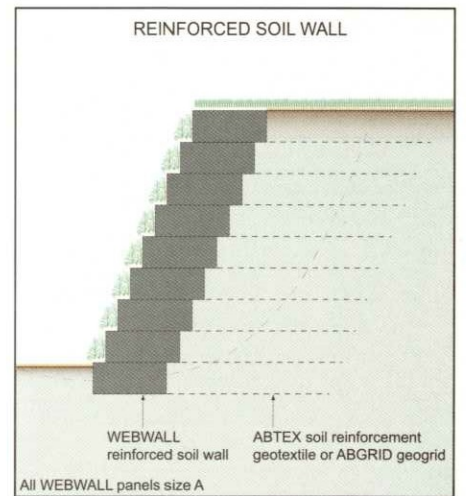
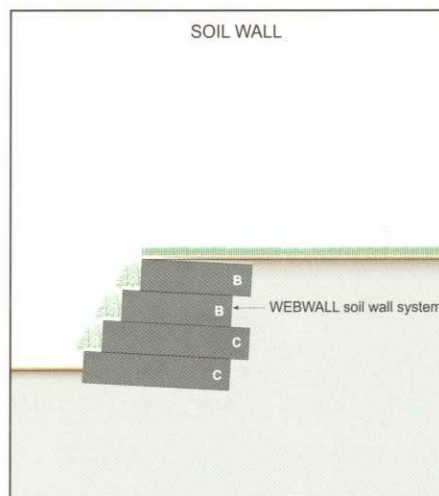
Standard **WEBWALL** height is 500mm or 250mm. Standard panel length is 4.0m when expanded. Standard panel widths 1.0m, 1.5m, and 2.0m when expanded. Special lengths can be manufactured. For transport the collapsed dimension is 6.0 m x 0.10 m x depth.

#### •Health and safety

**WEBWALL** does not present a health hazard. No special precautions are necessary.

#### •Fixing

See separate leaflet.



Panel height	250mm	500mm
Material	HDPE	HDPE
Web thickness	1.2mm	1.2mm
Colour	Black with dark green front strip	
Effective cell diameter	500mm	500mm
Cell area	0.2m <sup>2</sup>	0.2m <sup>2</sup>
Temperature Range	-30° to 60°C	-30° to 60°C
Material Tensile Strength	24 kN/m	24 kN/m
Seam Tensile Strength	3.5 kN	7.0 kN
U.V. Stability	Excellent	Excellent
Standard Pin Length/Diameter	500 mm/18mm	1000 mm/18mm
Life Expectancy (inc. joints)	120 years	120 years
Max Slope Angle (Gravity Wall)	90°	90°
Max Slope Angle (Reinforced Soil Wall)	68°	73°

Note: Special properties can be defined for specific schemes.

Panel type	A	B	C
Panel width	1.0	1.5	2.0
Panel length	4.0	4.0	4.0
Panel height (m)	500	500	500
Cell diameter (mm)	500	500	500
No of cells across width 2		3	4
Panel height (m)	250	250	250
Cell diameter (mm)	500	500	500
No of cells across width 2		3	4



(\* Important note: All information in this leaflet is offered as a guide to engineers for design assessments. Site specific engineering design should be carried out after site investigation has provided all the necessary information. The assessment of suitable safety factors in relation to each particular project must always remain the responsibility of the design engineer.

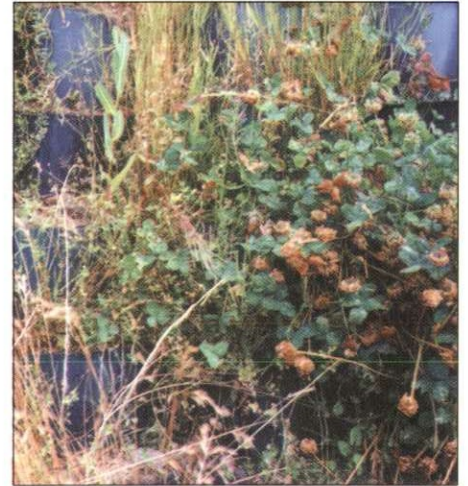
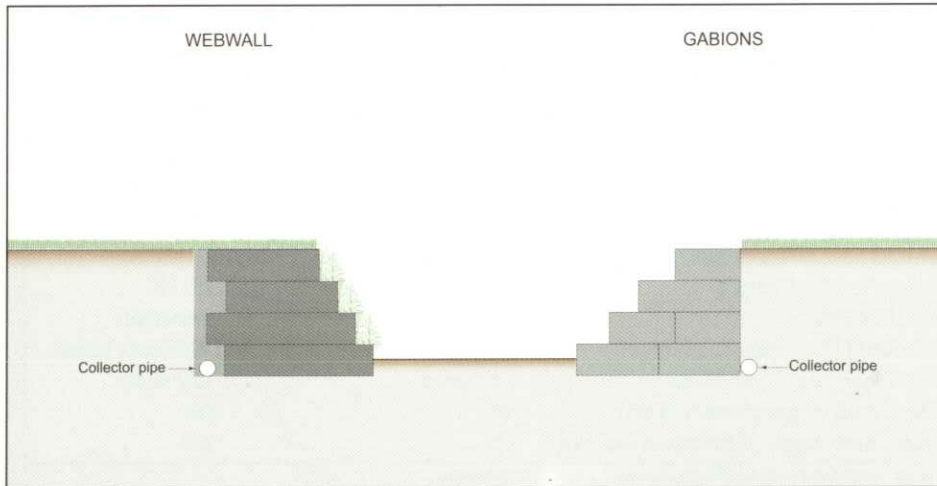
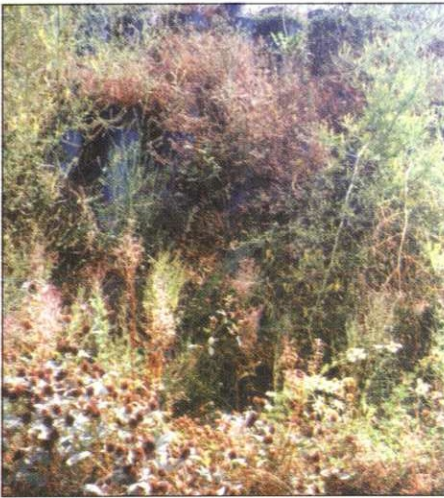
## COST COMPARISON

Webwall offers many cost advantages over traditional rock filled gabions. Initial material costs are lower as there is no requirement for expensive imported stone.

There is no additional cost of dumping unwanted fill as excavated material can be reused within the Webwall.

Labour charges are significantly lower as the Webwall can be mechanically filled and compacted. Gabions require hand packing of the imported stone.

Finally the front face of the webwall can be planted to provide a more natural 'green' appearance.



	<i>Webwall System</i>	<i>Rock Filled Gabions</i>
Lower cost materials	✓	✗
Low labour costs	✓	✗
Plantable 'green' face	✓	✗
Fast installation	✓	✗
Expensive stone handpacking	✗	✓
Expensive imported rock fill	✗	✓
Cost of dumping exported fill	✗	✓
Construction plant costs	✓	✓



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