



GABIONS & MATTRESSES
ROCK NETTING
WOVEN MESH
WELDED MESH



Intermesh

www.intermesh.co.uk

GABIONS

Gabions are gravity retaining walls consisting of a series of stone filled rectangular boxes, the mass of which is designed to resist the earth pressure. These rectangular boxes are formed from panels of wire, either triple twisted woven or welded mesh, and incorporate internal diaphragms and bracing wire to enhance stability.

MATTRESSES

Mattresses are similar in construction to gabion baskets but are larger in area and thinner in depth. Mattresses are primarily used on slopes for erosion and scour protection. They are laid with their diaphragms facing across the slope or across the direction of water flow so that they hold the mass of stone filling in place at regular intervals.

ROCK NETTING

Rockfall netting is made of a continuous roll of 'triple twisted' mesh which can be wired together to form a curtain to control the fall of loose rock and to encourage stabilisation of the rock face by promoting vegetation. Unlike chain link mesh, this strong triple twist will not unravel should one of the mesh wires break.



WOVEN MESH

Woven Mesh is 'triple twisted' mesh framed by thicker selvedge wires, manufactured to comply with BS1052:1980. The triple twist weaving of the wire prevents unravelling.

Wire is galvanised in accordance with BS EN 10244-2:2001.

PVC-U coating (minimum thickness of 0.5mm) can be supplied where specified after galvanising and before weaving.

Life Expectancy of PVC-U coated woven mesh in any dry land retaining walls is considered to be 120 years.

STANDARD WOVEN MESH SIZES

Standard Mesh Dimensions XxY	Wire Diameter (mm)	Overall wire Diameter (mm)	Selvedge Wire Diameter (mm)
GALVANISED			
60 X 80	2.2	-	2.7
80 X 100	2.7	-	3.4
PVC COATED (GREY)			
60 X 80	2.0	3.0	2.7/3.7
80 X 100	2.7	3.7	3.4/4.4

Other sizes and diameters available on request

WELDED MESH

Welded Mesh is manufactured from cold drawn steel wire, electrically welded at each intersection. Welded mesh is more rigid and creates a more uniform finish when erected, and is more appropriate where tight tolerances are required to the finished profile.

Wire used in manufacture of the mesh conforms to BS1052:1980 and is either Alu Zinc coated or galvanised to BS EN 10244-2:2001.

Polymer coating (grey or green depending upon wire specification) provides extra protection, longer life and is applied after galvanising.

STANDARD WELDED MESH SIZES

Standard Mesh Dimensions XxY (mm - nominal)	Wire Diameter (mm - nominal)	Overall wire Diameter (mm - nominal)
ALUMINIUM ZINC		
75 X 75	3.0	-
75 X 75	4.0	-
75 X 75	4.5	-
75 X 75	5.0	-
POLYMER COATED		
75 X 75	3.0	3.3

Other sizes and diameters available on request



STANDARD GABION SIZES

GABION BOXES - BOTH WOVEN AND WELDED MESH		
Length (m)	Depth (m)	Height (m)
1.0	0.5 or 1.0 or 1.5	0.5 or 1.0
2.0	0.5 or 1.0 or 1.5	0.5 or 1.0
3.0	1.0	0.5 or 1.0
4.0	1.0	0.5 or 1.0

Other sizes and diameters available on request

STANDARD MATTRESS SIZES

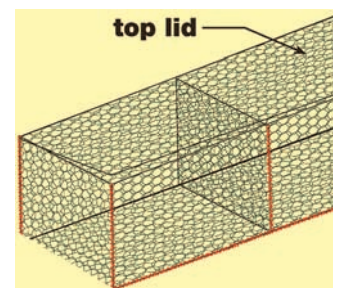
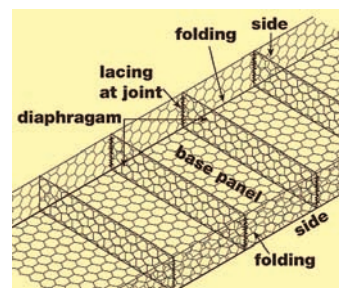
MATTRESSES - WOVEN MESH		
Length (m)	Width (m)	Thickness (m)
3.0	2.0	0.17 or 0.23 or 0.30
6.0	2.0	0.17 or 0.23 or 0.30
MATTRESSES - WELDED MESH		
Length (m)	Width (m)	Thickness (m)
3.0	2.0	0.15 or 0.225 or 0.30
6.0	2.0	0.15 or 0.225 or 0.30

Other sizes and diameters available on request

STANDARD ROCK NETTING SIZE

STANDARD ROCK NETTING SPECIFICATION: 80 X 100 X 2.7/3.7mm	
Length (m)	Width (m)
25.0	2.0

Other sizes and diameters available on request



Quality Assurance: Meshes are manufactured under factory controlled quality assured procedures.

Certification: Independent accreditation, including BBA certification, is available on many of our products.

Delivery: Supplied flat packed for ease of transportation.

Availability: Substantial stock ensures quick turnaround from order to delivery.

Installation: Woven mesh supplied with lacing wire for site assembly. Welded mesh supplied with a combination of helicals and / or lacing wire. Alternative fixings using Alu Zinc or Stainless Steel C Rings are also available.

PROVEN STRENGTH AND RELIABILITY



Wire mesh gabions have been used in civil engineering projects for over 100 years and their ability to perform well in a variety of applications has earned them the respect of Civil Engineers throughout the world. With many old projects acting as testament to their durability and long term strength, their popularity

continues to increase. With environmental issues now of more concern than in the past, gabions offer a more natural solution to previously designed concrete walls and channels. Gabions are a highly cost effective construction material which are straightforward to install and maintain.

ADVANTAGES OF USING WIRE MESH GABIONS



- Low cost alternative to concrete or masonry structures.
- **Simple installation.**
- Blends easily and harmoniously with the natural surroundings.
- **Naturally permeable.**
- Can withstand unpredicted settlement without loss of stability.
- **Low maintenance, damage is easily repaired.**

COMPLETE SERVICE



INTERMESH CAN PROVIDE A COMPLETE SERVICE:

- Supply only to clients own design and specification (installation instructions supplied).
- Design and supply only (construction drawings and installation instructions supplied).
- Installation using our experienced installation teams or nominated installers nationwide.
- Fixing Equipment – Pneumatic clipping tools are available for hire or purchase, supplied with Alu Zinc or Stainless Steel clips.
- Planting bags can be supplied and installed for landscaping purposes, if required.



Intermesh is a trading division of Keller Ltd.

Registered Office: Keller Ltd, Oxford Road, Ryton on Dunsmore, Coventry CV8 3EG Company registration number 485692.

Design: Krage Design.

Harcourt House, Royal Crescent,
Cheltenham, Gloucestershire GL50 3DA.
Tel: 01242 702290 Fax: 01242 702292
Email: mail@intermesh.co.uk
Website: www.intermesh.co.uk