

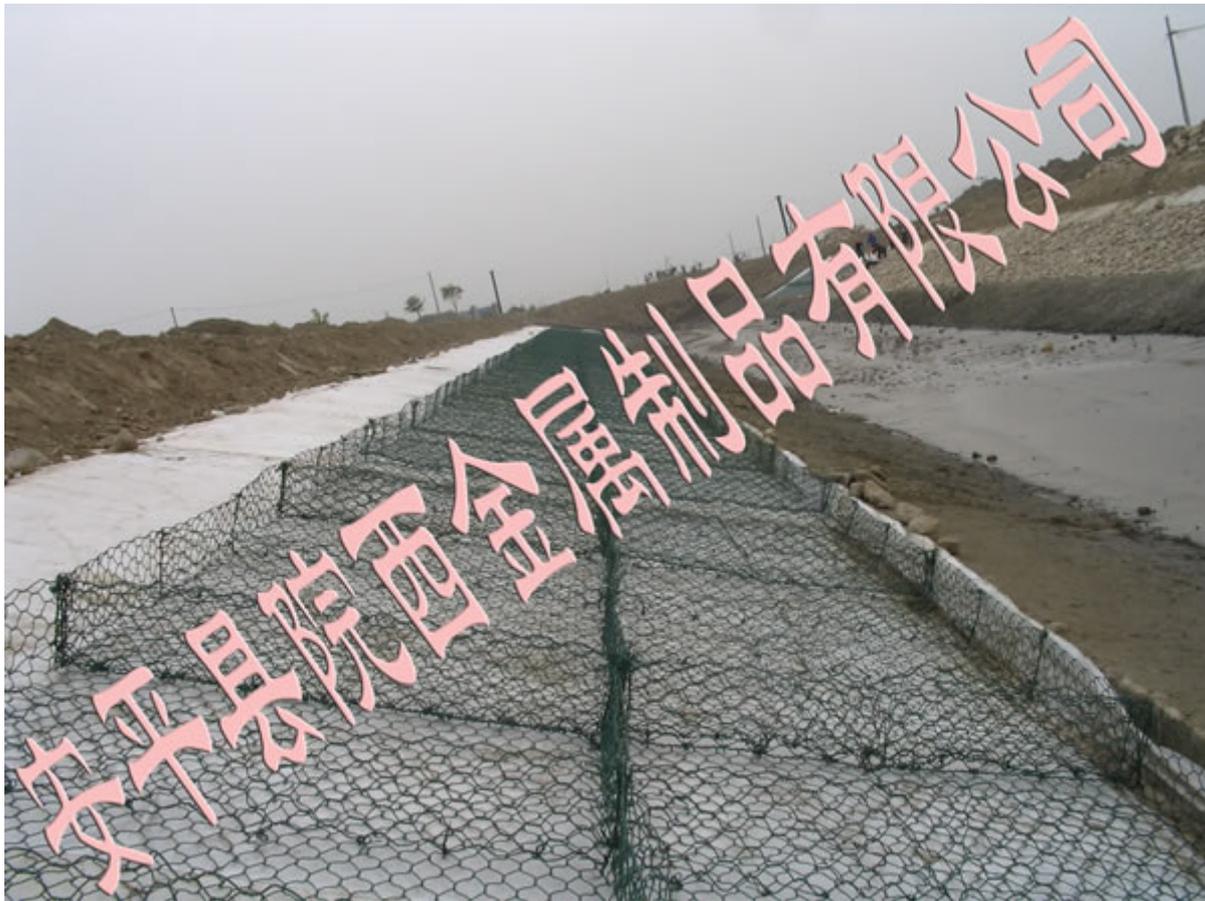


Gabion Mattresses

Gabion Mattresses are used for permanent erosion control in channels, streambanks, spillways and stable slopes from surficial erosion. The stone confinement within the units allows for higher shear stress resistance than the riprap.

The base is divided into compartments and filled with stones at the project site. With lids closed, Gabion Mattresses form flexible, permeable, monolithic structures. The 100 feet (30m) long units make its installation fast and economical.

Soil bioengineering techniques can be used to promote vegetation in the gabion mats to provide enhanced shear resistance.



Materials:

Low carbon steel wire, stainless steel wire, electro galvanized wire, hot-galvanized wire, heavily galvanized wire.



Weaving processing:

twisted before galvanized, weaving after galvanized

Feature:

Control and guide of water or flood
Flood bank or guiding bank
Preventing of rock breaking
Water and soil protection
Bridge protection
Strengthening structure of soil
Protection engineering of seaside area



Applications:

The gabion mattress or stone cage gabion is unfolded and laid on prepared ground. The kinks and creases in the boxes can be easily stamped out and leveled manually. The individual sheets are straightened flat and then systematically folded to form an exact rectangular shape. All the sides diaphragms are laced with lacing wire with lacing procedure. The boxes or group of laced boxes are positioned at the required location to match the structural design accurately.

Advantages of Gabion Mattresses:

- Gabion mat strength lies in their double twisted hexagonal mesh of steel wire which is reinforced by selvages of heavier wire running along the edges.
- The base section is divided into compartments to restrict the movement of stone and strengthen the structure.



Anping Yuanxi Metal Products Co.,Ltd

- The lid is supplied as a separate panel.
- The wire will not unravel even when cut.
- Assembly is easy, requiring no specialized labor and nearby rock is used for fill.
- Free drainage and 30-35% voids allow vegetation to grow.

Gabion Mattresses Sizes:

MATTRESS SIZE			DIAPHRAGM	TOLERANCE
LENGTH(M)	WIDTH(M)	HEIGHT(M)		
3.00	2.00	0.17-0.30	2	LENGTH $\pm 3\%$ WIDTH $\pm 5\%$ HEIGHT $\pm 5\%$
4.00	2.00	0.17-0.30	3	
5.00	2.00	0.17-0.30	4	
6.00	2.00	0.17-0.30	5	

Anping Yuanxi Metal Products Co.,Ltd

Add: Yuanxi Developing Zone, Anping, Hebei Province, China

TEL: 0086-318-7711307 / 7711017

FAX: 0086-318-7712895 / 7711307

E-mail: yxmetal@wirebelt.com.cn