



Reno Mattresses

All the physical and mechanical properties of Yuanxi Reno mattresses meet or exceed the requirements of ASTM A975-97.

The base section of the **Reno mattress** is divided into compartments and filled with stones at the project site. With lids secured, Reno mattresses form flexible, permeable, monolithic structures.

Materials:

Low- carbon steel wire, galvanized (divide into galvanized after weaving and galvanized before weaving), PVC plastic, stainless steel.

Variety:

[Sack gabion](#), [Gabion Mats](#) , [Reno mats](#), heavy Type Hexagonal wire mesh



Environmental Friendly

[Reno mattresses](#) are environmentally friendly products. The blending of Reno mattress structures into the environment is rapid and pleasing. The voids in the rockfill become progressively filled with silt, promoting vegetation growth which is essential to the preservation and maintenance of the ecological balance of the surrounding environment.

Flexibility

The woven mesh system has the capability of withstanding unexpected and/or localized stresses due to ground settlements and scour by deflection while maintaining its structural integrity.

Permeability



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The stone fill allows the water to seep through the structure while retaining the soil, therefore no additional drainage is required to relieve the hydrostatic pressures.

Cost Effective, Easy to Build

Reno mattress construction does not require skilled labor because they are very easy to build. Standard construction equipment can be used. Structures can be built in stages, if necessary, and baskets can be prefilled and launched to enable the installation under water. Site assistance is available from any Yuanxi area office.

Advantages and distinctions of Yuanxi Reno mattresses:

- This is a mattress shaped version of the gabion used mainly for erosion control when the retaining properties of box gabions are not required.
- Their 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.
- 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.

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	

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