

Professional  
G a b i o n  
Manufacturer

# NOVA

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## Hexagonal Gabion Products

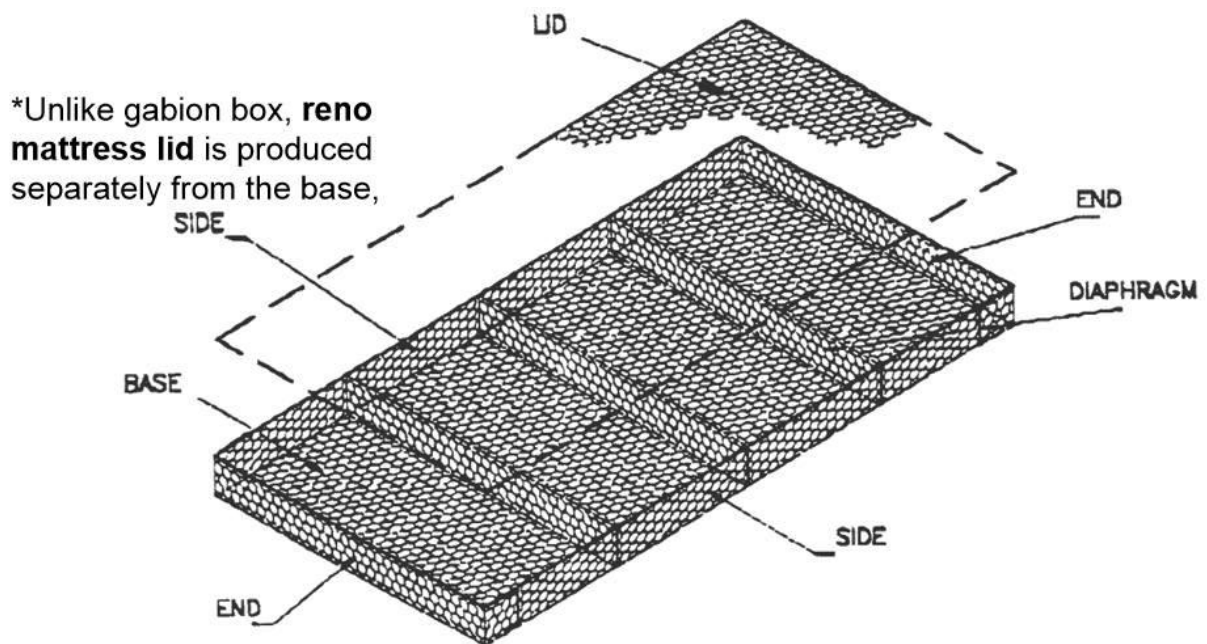
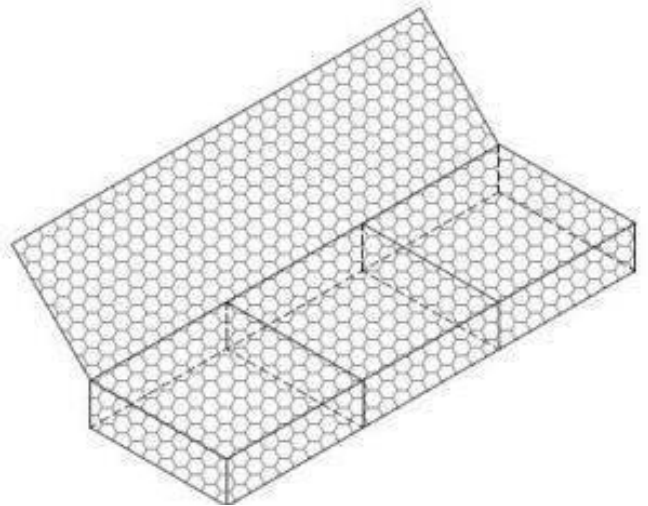


# Gabion Basket / Box

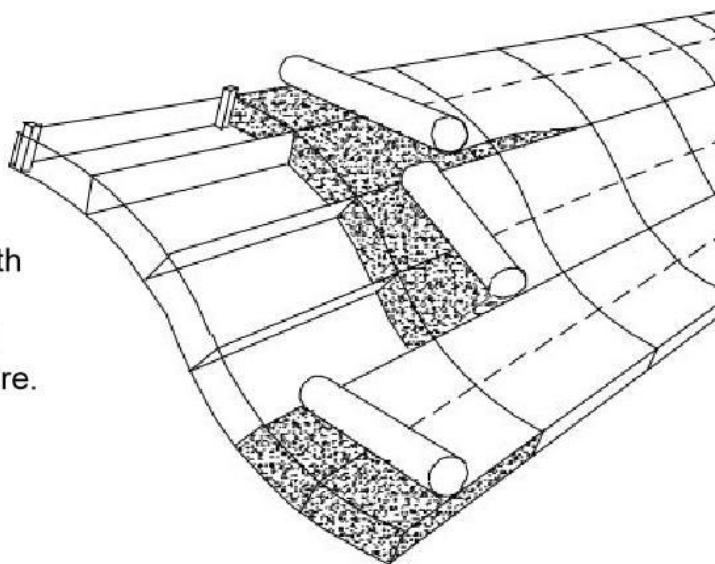
Reno Mattress is low profile gabion divided with internal partitions to form uniformly spaced cells.

The edges are reinforced with heavier gauge wire.

Reno mattress is commonly used for slope stabilization on steep hillsides, channel linings, and river bank erosion control.



When reno mattress is filled with stones, the lid of large piece is covered on the top, and is **tied with side meshes** by lacing wire.



# Reno Mattress

Typical dimensions of Reno mattresses -

Typical Revet Mattress Sizes (SI Units)				
Length, m	Width, m	Height, m	Number of Cells, each	Area, m <sup>2</sup>
3	2	0.17	3	6
4	2	0.17	4	8
3	2	0.23	3	6
4	2	0.23	4	8
3	2	0.3	3	6
4	2	0.3	4	8

Tolerance (prior to filling) - For length & width: within +/-5 %  
For height: within +/-10 %

## Application of Reno mattresses



# Sack Gabion

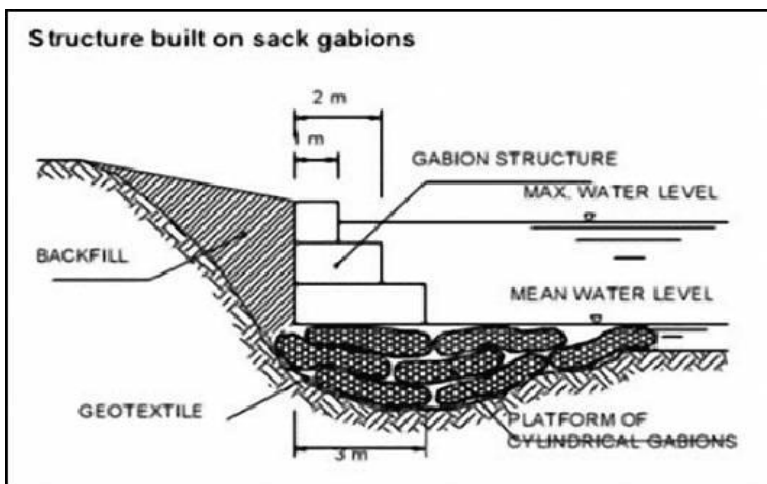
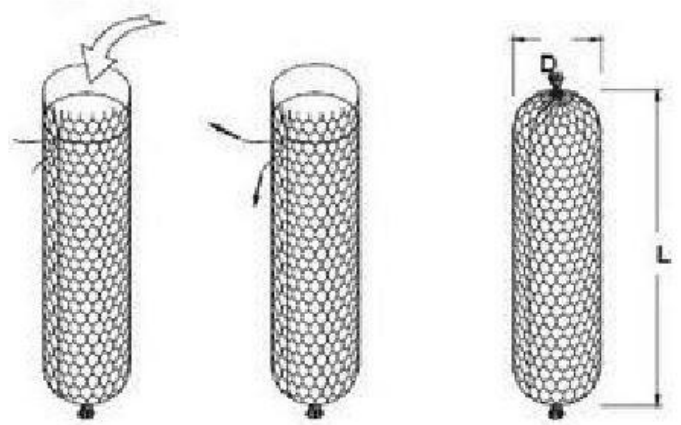
## Sack Gabion

It is used for the purpose of providing a firm platform in areas where poor founding conditions exist or founding occurs in the wet. It's cylindrical wire mesh baskets constructed of double twisted galvanized steel or with additionally a PVC coating. When filled with stones, sack Gabion can be used in river control and various emergency applications. Steel wires is inserted into sack gabion for reinforcement during the manufacturing to facilitate closing during installation. In order to reinforce the structure all mesh panel edges are selvedged with a wire having a greater diameter.

There are gaps between stones in sack gabion. It make the water seep through the structure, relieving the pressure, weaken the earth's shear strength. Meanwhile, It can save charge for traditional retaining drainage equipment, lower down the whole cost.

Typical Size of Sack Gabion

Length of cage (m)	Diameter of cage (m)	Volume (m <sup>3</sup> )	Weight of stone (ton)
1.8	0.6	0.54	0.8
2.7	0.6	0.8	1.2
1.8	0.9	1.2	1.8
2.7	0.9	1.8	2.7



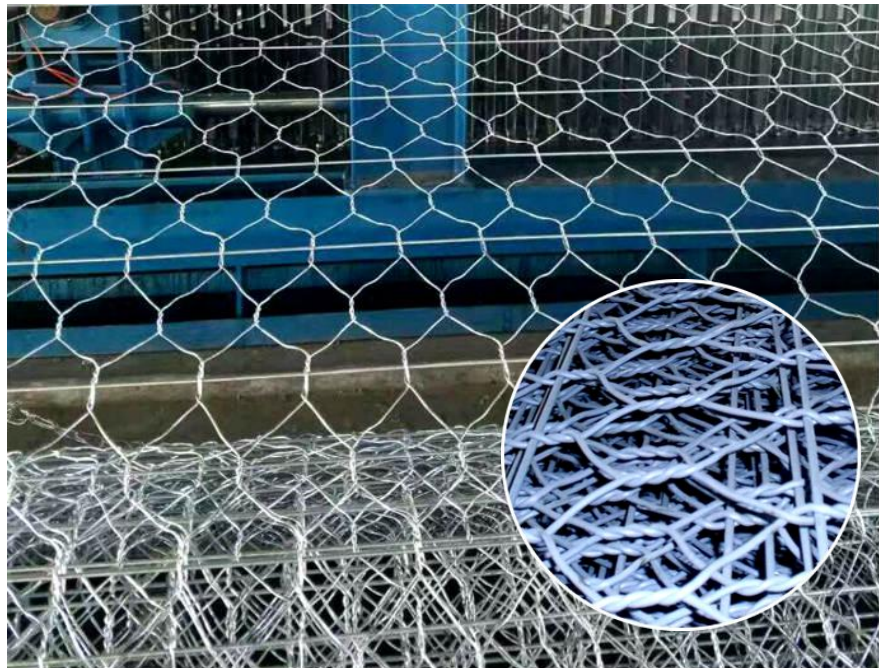
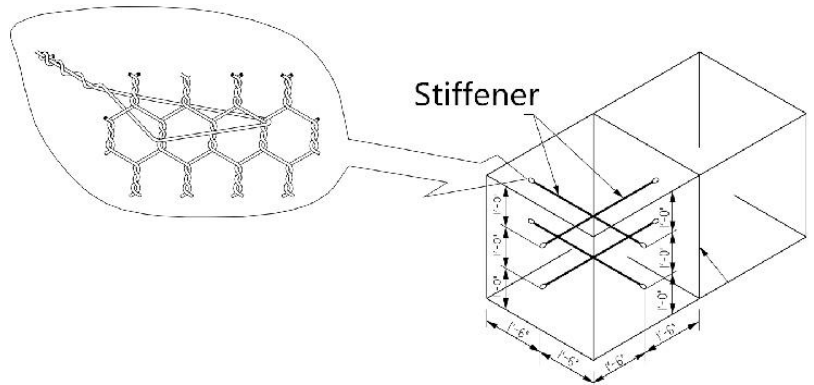
# NOVA Gabion - Reinforced Gabion

The reinforced gabion is mentioned that when we weave the wire mesh, in the direction of vertical or parallel, we add the same material wire as the hexagonal net.

The reinforced tensile strength of the tablets is greater than the normal hexagonal mesh. The diameter of the reinforced wire is generally not less than the edge wire.

Installed on the platform, especially when the tension is very high, it can absorb and fundamentally weaken the cracks.

The reinforced gabion is connected with a heavy hexagonal metal mesh after the box, the wire mesh penetrating into the ground as the reinforced grid of the box, making use of ground friction and mesh, it will produce better compatibility with the Environment .



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