



Gabion Box are multiple twisted hexagonally woven galvanized or PVC coated steel wire mesh compartmented baskets with a rectangular box shape. The compartments are of equal dimension and are formed by internal diaphragms. The compartment is filled with natural stone and the diaphragms assure minimum stone migration within the basket. Thus providing even distribution of the stone even in abnormal conditions, and adding strength to the container to help retain its rectangular shape during the filling operation.

Applications:

- Control and guide of water or flood
- Flood bank or guiding bank
- Prevention of rock breaking
- Water and soil protection
- Bridge protection
- Strengthening structure of soil
- Protection engineering of seaside area
- Seaport engineering
- Isolation walls
- Protection of road

Advantage:

Flexibility: Flexibility is an important benefit of any gabion structure. The double-twist hexagonal mesh construction permits it to tolerate differential settlement without fracture. This property is especially important when a structure is on unstable soil conditions or in areas where scour from wave action or currents can undermine the toe of the structure and cause structural settlement.

Durability: Gabions support plant growth which provides a live coating for the wire mesh and stones, adding to their durability. Generally, the wire mesh is needed for the first few years of the structure's life; later the void between the stones is filled with soil, silt, and plant roots which act as a bonding agent for the stones.

Strength: Steel wire hexagonal mesh has strength and flexibility to withstand forces generated by water and earth masses, and the pervious nature of the gabion allows it to absorb and dissipate much of that energy. This is evident on coast protection installations where gabion structures remain effective long after a massive rigid structure fails. Additionally, the double twisted hexagonal mesh won't unravel if cut.



Permeability: Gabion walls are previous to water and stabilize slopes by the combined action of draining and retaining, precluding the development of hydrostatic pressure behind the gabion wall. Drainage is accomplished by gravity, as well as evaporation as the porous structure permits air circulation through it. As plant growth develops within the structure, the process of transpiration assists in removing moisture from the backfill – a much more efficient system than weep holes in standard masonry walls.

Low cost: Gabion systems are more economical than rigid or semi-rigid structures for the following reasons:

- It requires little maintenance
- Its installations does not require skilled labor and stone fill is available on site or from nearby quarries,
- It requires little or no foundation preparation, as the surface needs to be only reasonably level and smooth.
- Gabions are porous, requiring no costly drainage provision

Ecology: Gabions is an environmentally sensitive solution to slope stabilization. It has already been mentioned that stone fill is done with natural stones making the gabions, naturally porous allowing interaction between the land and the water table and also persuades deposition of soil in the smaller voids between the stone fill during drainage that again promote vegetation growth.

Aesthetics: Gabions supporting vegetation has already been discussed; in some case the vegetation growth is so intense, making the gabion structure invisible, and pleasant to look at. Again if additional effort is given during construction, the gabion can create really pleasing structure with or without vegetation. Unlike other types of materials such a modular block walls the gabion stones do not discolor due to drainage.

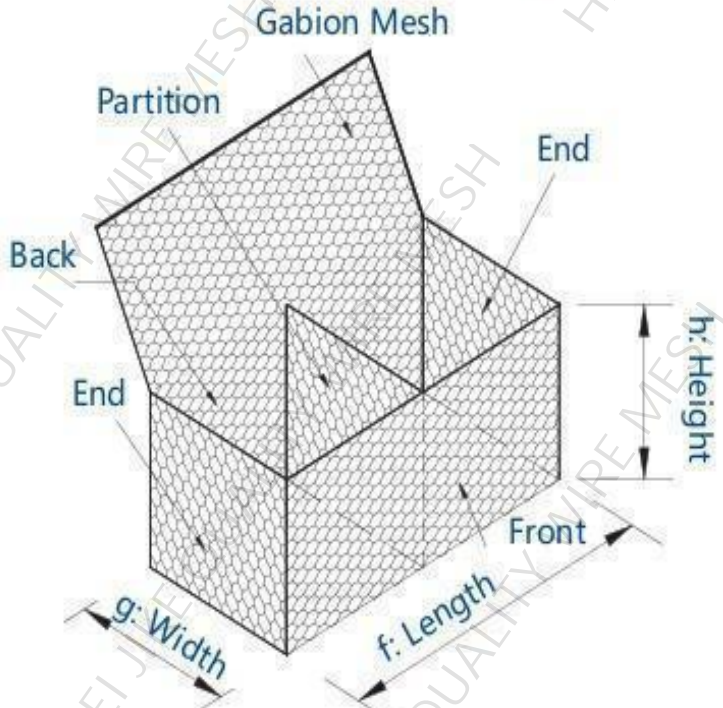
Specification:

galvanized, galfan, PVC coated wire
opening: 6*8cm,8x10cm,10*12cm
mesh wire :2.2mm,2.7mm,3.0mm

Gabion box is consist of rectangular units, fabricated from a double-twisted hexagonal mesh, filled with stones. In order to reinforce the structure, its edges with a wire having a thicker diameter than the mesh wire. Gabion boxes be divided into cells by diaphragms at every 1 meters.

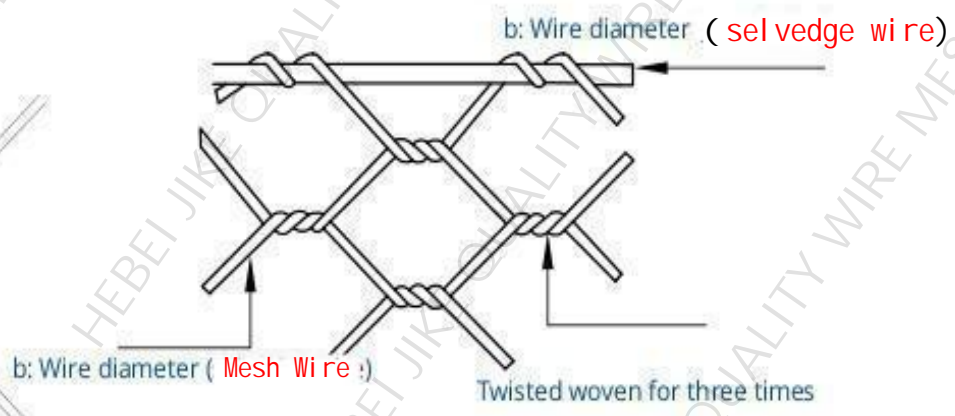
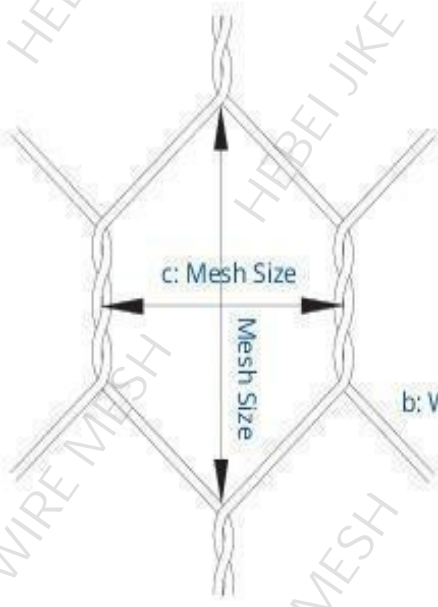


Gabion Mesh: **weaving method**



Required parameter

- a: Material
- b: Wire Diameter: mesh wire, selvedge wire, lacing wire
- c: Mesh Size
- d: Partition Spacing
- e: Anti-corrosion Treatment: Galvanized, Zinc-aluminium, PVC Coated
- f: Length
- g: Width
- h: Height





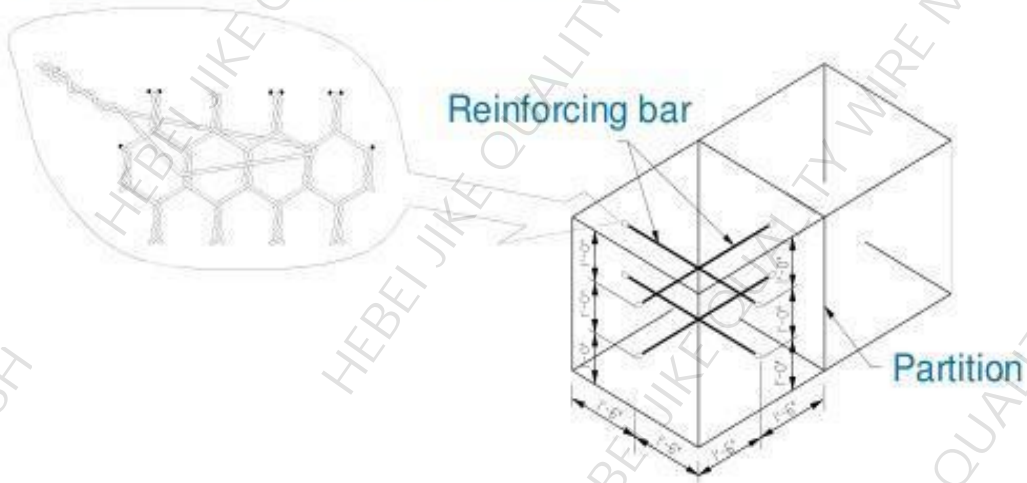
Connection between panels:



Connection between panels:



Reinforcing bar to be added in the vertical direction:



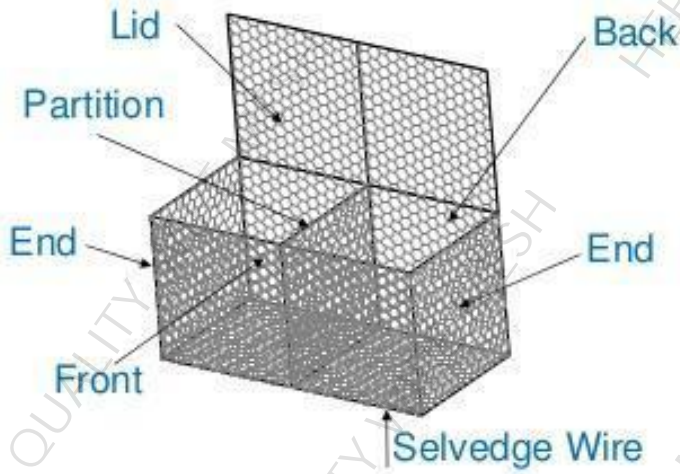
Connection type of reinforcing bars:



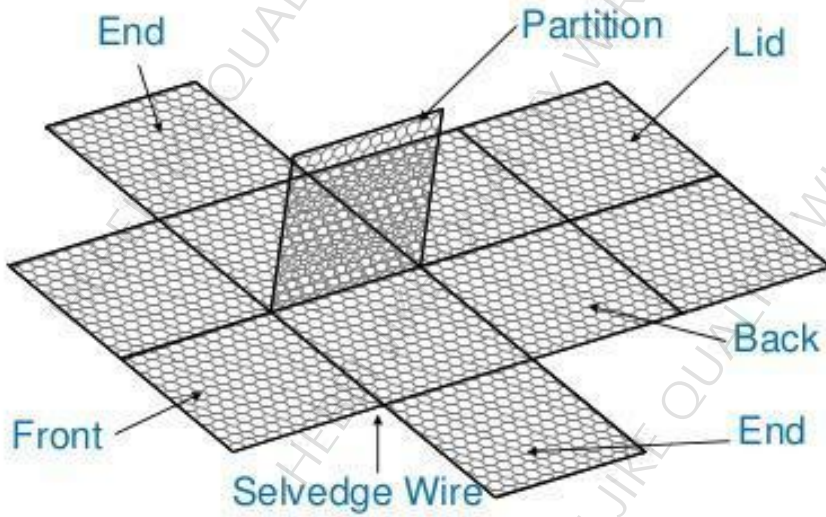


HEBEI JIKE TRADE CO.,LTD
ZHONGKE INDUSTRIAL PRODUCTS CO.,LTD
ADD:BAONENG CENTER,SHIJIAZHUANG,HEBEI,CHINA 050800
TEL/WECHAT/WHATSAPP:+86-15831931141 +86-19930751141
Email: janeliu@qualitywiremesh.com Web: www.qualitywiremesh.com

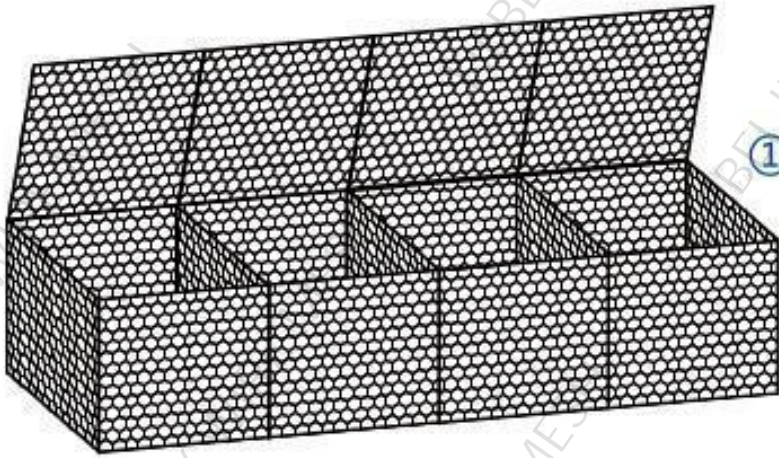
One style of gabion mesh: gabion box



① Gabion Box



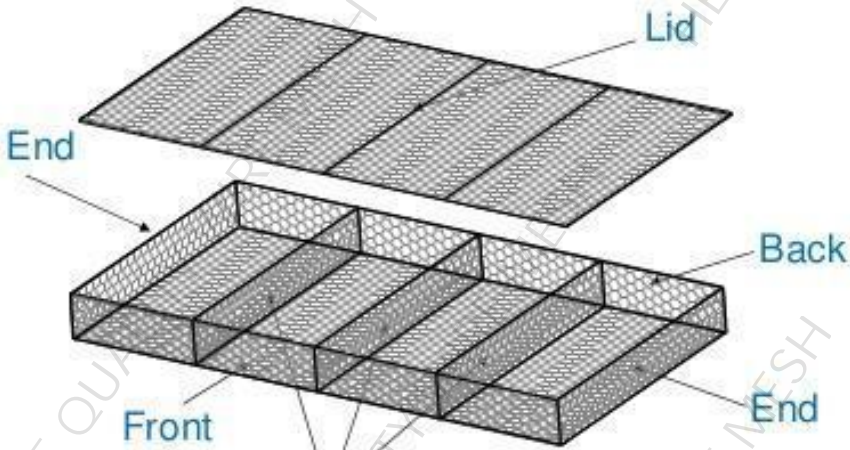
① Gabion box: unfolded



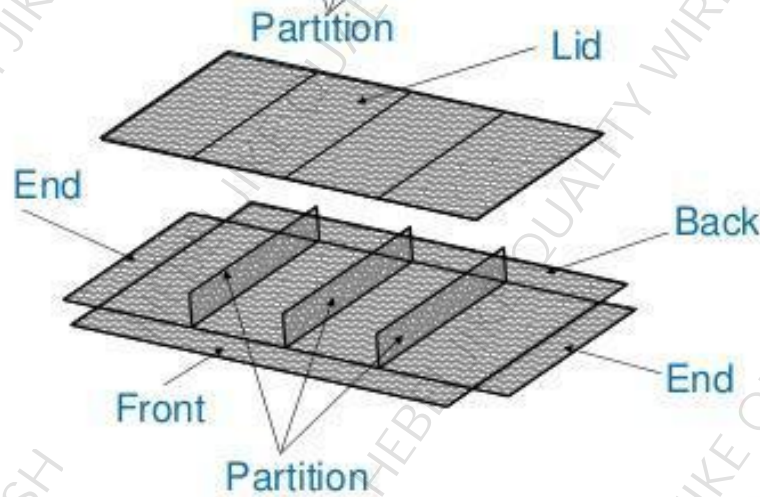
① Gabion box: assembled



The second style of gabion box: ② Reno Mattress



② Reno Mattress

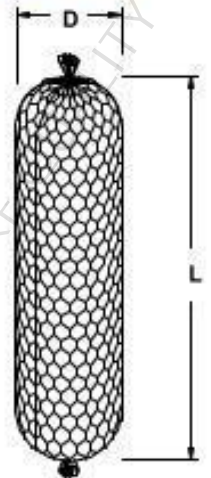


② Reno Mattress: unfolded



② Reno Mattress: assembled

The third style of gabion box: ③ Gabion Sack





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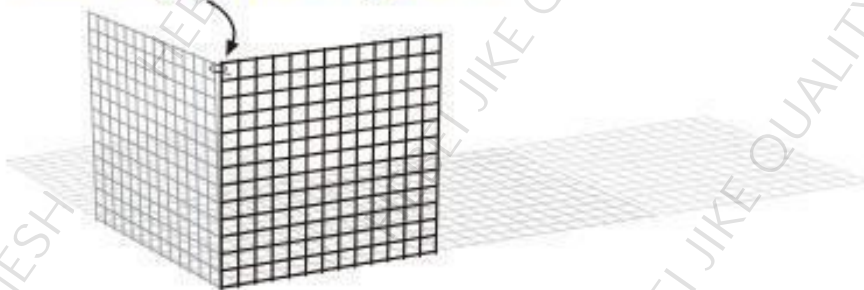
Gabion Mesh: **welded forms**

Required parameter

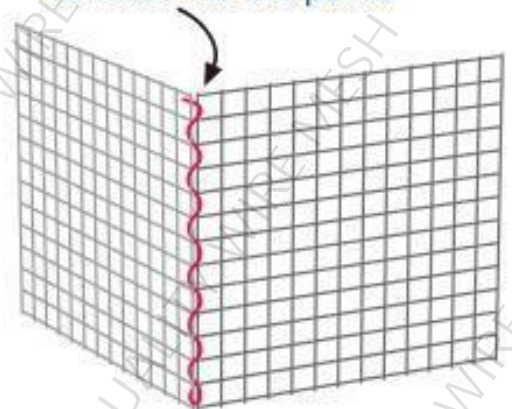
- a: Material
- b: Wire Diameter
- c: Wire Diameter of Binding Wire
- d: Aperture
- e: Length, Width, Height



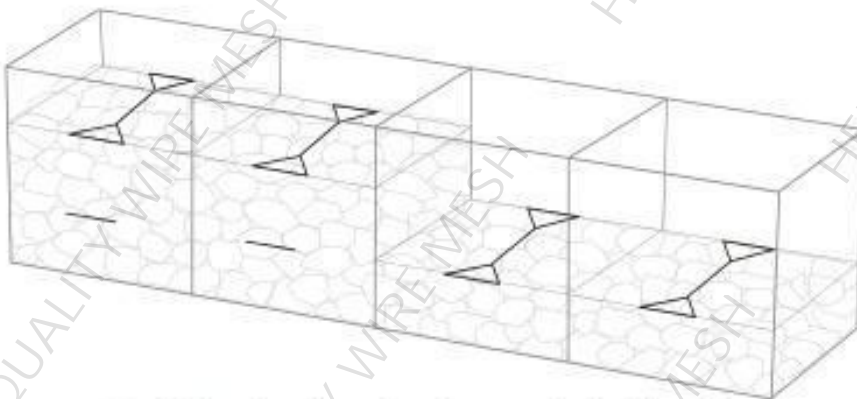
Assembly of welded gabions



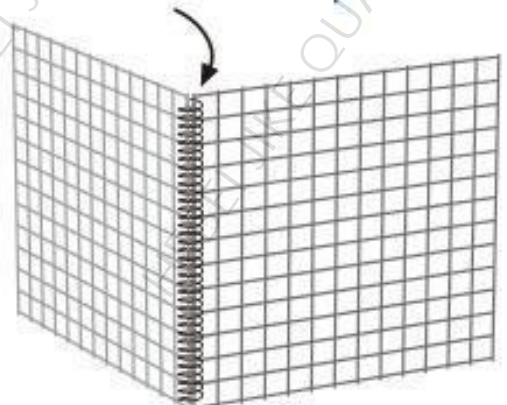
Connected by binding wires between the two panels



Connected by binding wires between the two panels

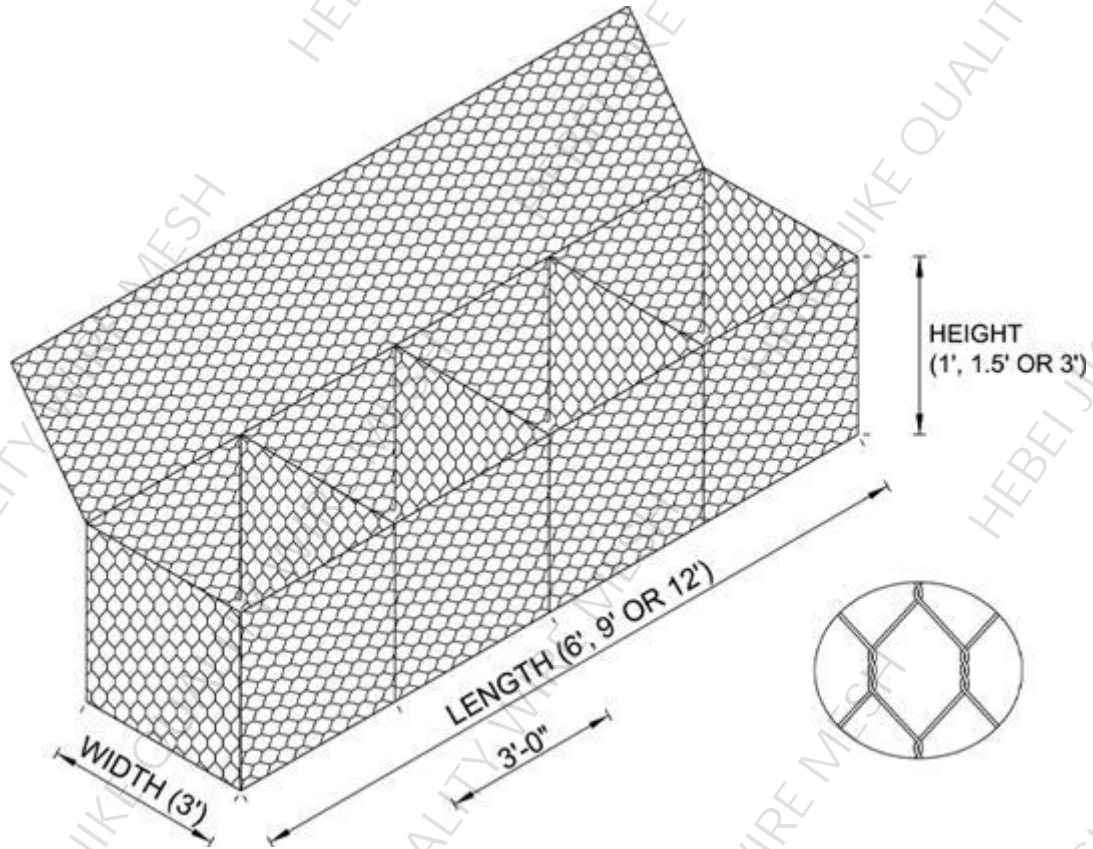


Reinforcing bar in the vertical direction





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| Products | mm | mm | mm |
|---------------------------------------|-----------|-----------|---------------------|
| wire diameter(galvanized/galfan coat) | 2.2mm | 2.7mm | 3.0mm |
| wire diameter(PVC coat) | 2.2/3.2mm | 2.7/3.7mm | 3.0/4.0mm |
| opening size | 6*8cm | 8*10cm | 10*12cm |
| standard | ASTM A975 | EN10223 | SANS675 |
| gabion boxes size | 1*1*1m | 2*1*1m | 2*1*0.5m 3*1*1m etc |



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