

Hexagonal/Multiple Shielded Gabions

Description

Wire crushed stone made out of hexagonal/multiple shielded steel wire netting. The gabion has a high flexibility at a tensile strength of the wire netting of 4kN/m. Mesh size first –rate 8 × 10 cm, vertical, wire-Ø 3.0 mm ,marginal wire 3.9 mm. Version in thick galvanized at the minimum 275 g/m², galvanically coated or additional synthetically coated. All baskets with all side walls and partition walls each m.

Application

The high flexibility and resistance of the gabion permits activities in all directions without to break. This feature is especially important for structures in unstable grounds or in water buildings, if there are potholes caused by waves or streams, which could undercut the structure. Owing to the water permeability of the buildings out of gabions no hydrostatic pressure emerges. As the gabions allow the growth of the plants, they integrate unproblematic in the landscape and offer an attractive solution for the ecological landscaping and water engineering. At all fringes of the nets the gabions will be equipped with fringe and edge wires. As the bags are divided with partitions the brace of the building enlarges. This is very important, if the gabions are permanently set out heavy duty like water stream, wave action etc.

Efficiency

Gabions structures are economical for the following reasons:

- ⇒ Small cost of maintenance
- ⇒ The assembly easy, there is no need for specialized labour
- ⇒ The filling is mostly available on location in immediately proximity
- ⇒ Big operations at the foundation are not necessary. Only the footprint has to be proper smooth, if the underground is sustainable.
- ⇒ The gabions are able to drain, so it has not to lay out an expansive drainage.

Dimensions

Specification	Unit	Data Sheet
		Length × width × height
H411	m	4.0 × 1.0 × 1.0
H311	m	3.0 × 1.0 × 1.0
H211	m	2.0 × 1.0 × 1.0
H255	m	2.0 × 0.5 × 0.5
H1511	m	1.5 × 1.0 × 1.0
H115	m	1.0 × 1.0 × 0.5
H155	m	1.0 × 0.5 × 0.5

Tender Specification

Wire grid tank gabions supply and install. Tank is made out of a hexagonal reticulated wire netting, multiple mechanical shielded steel wire with edge and frame backup, with partition for the fragmentation in 1.0 chambers. Connection of the side walls, partition wall and cover in a distance of 50 cm length and approx. 30 cm height.

Material: Mesh size 8×10 cm, thickness of the wire 3.0 mm mesh process vertical, all parts are galvanized at the minimum $275\text{g}/\text{m}^2$, tensile strength at the minimum $430\text{N}/\text{mm}^2$, corrosion resistance at least 1.500 h salt spray fog test.

At the back side of the structure has to be fixed a filter steady geotextile out of not putrescible material as partition and filter element. Filling at the back of the gabion wall with suitable filling material. Earthworks and the creation of certificates for the inside and outside stability against collapse and working drawings will be aged separately. Information about the size e.g. $2.0 \times 1.0 \times 1.0$ m or $2.0 \times 0.5 \times 0.5$ m, stone species and backgrounds as well as forming and progress of the fugues and the incline to the slope and basement of composite of minerals (thickness, width, agglomeration level and so on) have to be introduced each execution by the operator. On request evidences of stability against collapse for the gabions structures can be provided, if the specific ground values and loads from the principal are at disposal.