

HAS^{TEC}® - Gabion system

ORBIS



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Product Name

HASTEC® - Gabionen system ORBIS

Description

Gabions made out of electronic spot-welded steel wire grid blankets with welded mounds all around. Mounds tensile strength as well as the wire tensile strength. All parts are special aluminium galvanized (BEZINAL coating 95 % zinc, 5 % aluminium) corrosion-resistant according to DIN 50021 SS. Wire tensile strength 450 N/mm², mesh size 10 x 10 cm or 5 x 10 cm, steel wire Ø 4,5 mm, connection of the grid blankets with insertion wands. Bracing by use of spacers, Ø 5,0 mm, lopsided with groove gudgeon to catch.

Application

Gabions are a well-tryed structure system, which is used for the construction of retaining walls and noise barriers. HasTec gabions ORBIS made out of spot-welded steel wire grid blankets are filled with natural stones and raised as a high debitable construction. They can be exposed at the extreme of climatic conditions and temperature fluctuations. Gabions walls allow good water permeability and this facilitates a natural regulated drainage of water slopes. Inflation through humidity and water is prevented. The module principle guarantees a fast and simple assembly and it also reduces the material expenses. Only one insertion wand keeps concurrently the grids of two adjoined baskets together, therefore suffices the installation of a separation wall. There is no need of double-walls. Gabion walls are flexible, eco-friendly, long-lasting and describe an economic option to concrete walls and finished part walls. They assimilate unobtrusive in the surrounding landscapes.

Material and Surface

- ⇒ All steel parts BEZINAL-coated. Verification of the corrosion resistance at the minimum 1.000 h salt spray fog test (DIN 50021-SS).
- ⇒ Wire manufacturer ISO-Norm 9001 certified. Thickness of the steel wire 4,5 mm, tensile strength 450 N/mm², mesh size 10 x 10 cm (5 x 10cm), spacers 5,0 mm, insertion wands 5,6 mm

Dimensions

Length x width x height:	2,0 x 1,0 x 1,0 m	2,0 x 1,0 x 0,50 m	1,50 x 1,0 x 0,50 m
	2,0 x 0,50 x 0,50 m	1,50 x 1,0 x 1,0 m	1,50 x 0,50 x 0,50 m
	1,0 x 1,0 x 1,0 m	1,0 x 1,0 x 0,50 m	
	1,0 x 0,50 x 0,50 m	0,50 x 0,50 x 0,50 m	

Tender Specification

HASTEC® gabion system ORBIS wire grid tanks supply and install. Tank is made out of electronic spot-welded steel wire grid blankets with welded mounds all around, with partition for the fragmentation in 1,0 m chambers. Place the spacer in distance of 50 cm length and approx. 30 cm height. Connect the grid blankets among one another and the tank next to and about each other through the plug of the insertion wands through the mounds.

Material: Mesh size 10 x 10 cm, square mesh partition, wire thickness 4,50 mm, all parts special aluminium galvanized "BEZINAL" with a coating of 350 g/m² at the minimum. Tensile strength at the minimum of 450 N/mm². Spacer wire Ø 5,0 mm. At an assembly with straight front and back sides, it can be abdicated the side walls or at a multilayered assembly the cover and bottoms. The front sides, side walls or cover and bottoms have to be affiliated with each other.

Filling material: Front and view side with weatherproof and frost-resistant dry masonry wall out of natural stone, rock species background size The rest of the basket with broken rocks of the same species and background, size fill in with less cavity.

Dimension: L x W X H Height of the wall Inclination to the slope approx.

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 according to ZTVE StB and the "Instructions about support constructions out of concrete elements, block lamination and gabions 2003". The local proportion has to be checked by the employee. 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 x 1,0 x 1,0 m or 2,0 x 0,5 x 0,5 m, stone species and background 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.