

# Gabions Orbit

## Description

Gabions made out of electronic spot-welded steel wire grid blankets with welded mounds 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. Wire tensile strength 450N/mm<sup>2</sup>, mesh size 10 × 10 cm or 5 × 10 cm, steel insertion wands. Bracing by use of spacers, Ø5.0mm, lopsided with groove gudgeon to catch.

## Application

Gabions are a well-trying structure system, which is used for the construction of retaining walls and noise barriers. Gabions Orbit made out of electronic spot-welded steel wire grid blankets are filled with natural stones and raised as a high debitable construction. They can be exposed at the 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. Gabions 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 Surfaces

All steel parts BEZINAL-coated. Verification of the corrosion resistance at the minimum 1.000 h salt spray fog test.

Wire manufacturer ISO-Norm 9001 certified. Thickness of the steel wire 4.5mm, tensile strength 450N/mm, mesh size 10 × 10 cm (5 × 10cm), spacers 5.0mm, insertion wands 5.6mm

## Dimension

Specification	Unit	Data Sheet
		Length × Width × Height
<b>O211</b>	<b>m</b>	<b>2.0 × 1.0 × 1.0</b>
<b>O215</b>	<b>m</b>	<b>2.0 × 1.0 × 0.5</b>
<b>O255</b>	<b>m</b>	<b>2.0 × 0.5 × 0.5</b>
<b>O1511</b>	<b>m</b>	<b>1.5 × 1.0 × 1.0</b>
<b>O1515</b>	<b>m</b>	<b>1.5 × 1.0 × 0.5</b>
<b>O1555</b>	<b>m</b>	<b>1.5 × 0.5 × 0.5</b>
<b>O111</b>	<b>m</b>	<b>1.0 × 1.0 × 1.0</b>
<b>O115</b>	<b>m</b>	<b>1.0 × 1.0 × 0.5</b>
<b>O155</b>	<b>m</b>	<b>1.0 × 0.5 × 0.5</b>
<b>O555</b>	<b>m</b>	<b>0.5 × 0.5 × 0.5</b>

## Tender Specification

Gabions Orbit wire grids 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. 30cm 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 10×10cm, square mesh partition, wire thickness 4.50mm, all parts special aluminium galvanized "BENINAL" with a coating of 350g/m<sup>2</sup> at the minimum, Tensile strength at the minimum of 450N/mm<sup>2</sup>. Spacer wire Ø 5.0mm. At an assembly with straight front and back sides, it can be abdicated the side wall 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.

At the back side of the structure has to be fixed a filter steady geotextile out if not putrescible material as partition and filter element. Filling at the back of the gabion wall with suitable filling material. The local proportion has to be checked by the employee. Earthworks and creation if certificates for the inside and outside stability against collapse and working drawings will be aged separately. Information about the size e.g. 2.0×1.0 ×1.0m or 2.0 ×0.5×0.5m, stone species and background as well as forming and progress if the fugues and the inline to the slope and basement if 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 principle are at disposal.