



TERRA AQUA INC.

TERRA AQUA SACK GABION SPECIFICATION

SCOPE:

The Terra Aqua Sack Gabion is made of a single panel of double twisted hexagonal wire mesh. The mesh wire shall be mechanically anchored to a larger selvedge or perimeter wire.

SACK GABION ASSEMBLY:

1. Bend the gabion mesh panel so that the two sides meet to form a cylinder.
2. Where the two sides form a seam, take the lacing wire provided and lace the seam the full length of the panel connection alternating single double loops through every mesh opening. Close the bottom of the sack gabion by pulling on both ends of the lacing wire together. Secure the two ends of the lacing wire.
3. Upend the sack gabion into a vertical position and press the bottom against the ground to flatten it and to form the sack into a cylinder shape then fill with required stone fill and place into position.

NOTES:

To make a sack gabion with the opening on the side, proceed as before except where the ends and sides are only laced together for 400mm – 500mm from each end leaving the central portion open. After filling the sack gabion with stone, lace the remaining portion of the seam closed and place into position.

MINIMUM STRENGTH REQUIREMENTS FOR SACK GABION MESH

TEST DESCRIPTION	GALVANIZED/GALFAN	PVC COATED MESH
Tensile strength of mesh Parallel to wire twist:	3500 lbs/ft	2900 lbs/ft
Tensile strength of mesh Perpendicular to wire twist:	1800 lbs/ft	1400 lbs/ft
Connection to selvedge:	1400 lbs/ft	1200 lbs/ft
Punch strength of mesh:	6000 lbs/ft	5300 lbs/ft

Galv. GABION MESH MATERIAL DATA:

Galv. GABION MESH PANEL:

- mesh opening: 3-1/4" by 4-1/2" or 8cm by 10cm
- diameter of mesh wire: 0.118"
- diameter of selvedge wire: 0.150"
- diameter of lacing wire: 0.087"
- zinc coating of wire: finish 5 class 3 zinc coating – ASTM A-641 tested in accordance with ASTM A370-92
- tensile of wire: soft temper in accordance with ASTM A641-92
- weight of zinc coating of wire: shall be determined by ASTM A-90
- wire diameter of 0.120 inches shall have a weight of zinc coating of: 0.85 oz/sf
- wire diameter of 0.150 inches shall have a weight of zinc coating of: 0.90 oz/sf
- wire diameter of 0.087 inches shall have a weight of zinc coating of: 0.85 oz/sf
- grade of zinc coating of wire: high grade or special high grade in accordance with ASTM B-6, Table 1
- uniformity of coating: shall be determined by ASTM A-239
- elongation: not less than 12% in accordance with ASTM A370-92

All of the above wire dimensions are subject to a tolerance limit of 0.004" in accordance With ASTM A-641

All Terra Aqua Gabion material is manufactured according to ASTM A975-20 guidelines for Double Twisted Hexagonal Mesh Gabions.

ASTM A975-20

TERRA AQUA GABIONS, INC.
1415 N. 32ND STREET
FORT SMITH, AR. 72904
800-736-9089