Zhuoda Gabion

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Gabions shall comply with the following specifications

MANUFACTURE   Gabions shall be manufactured from a hard drawn steel wire formed into a bi-axial mesh grid by electrically welding the cross wires at every intersection.

Gabions:-to be factory assembled with stainless steel clips connecting side panels and diaphragms to the base panel.

MESH SIZE   Mesh openings shall be square of nominal dimension of 76.2mm on the grid.

MESH WIRE   Nominal wire diameter shall be 3.0mm for the body of the gabion and 4.0mm for the exposed face mesh and rear mesh panel, all to BS 1052

DIAPHRAGMS   Diaphragms are to be a maximum of 700mm between centres on the exposed faces of the gabions.

DEFORMATION CO-EFFICIENT   The maximum deformation coefficient is to be 0.25 for the unsupported mesh facing.

CORROSION PROTECTION   Wire shall be triple life (95% zinc 5% aluminium) coated.

JOINTING   Gabions shall be provided with helicals 3.0mm wire diameter for vertical joints and lacing wire / helicals for horizontal joints. Lacing wire shall be of minimum wire diameter 2.2mm (all in accordance with the corrosion specified) for final jointing.

ROCKFILL   Gabion fill shall be a hard durable and non frost susceptible (rock or stone type) having a minimum dimension not less than the mesh opening and a maximum dimension of 200mm.

CONSTRUCTION   All rockfill shall be packed tightly to minimize voids and the rockfill on the exposed face of the gabion is to be hand packed.

Internal windlass bracing ties (formed from the lacing wire) 2 per 1sqm at 1/3rd points vertically and mid point horizontally on 1m deep units and at mid height at mid point horizontally on 0.7m deep units.

Units shall be filled such that the mesh lid bears onto the rock fill. The lid shall be wired down on all joints and across the diaphragms.