



HY-TEN GABION SOLUTIONS
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PVC Gabion 700 system

Gabions shall comply with the following specifications

MANUFACTURE	<p>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.</p> <p>Gabions:-to be factory assembled with stainless steel clips connecting side panels and diaphragms to the base panel.</p>
MESH SIZE	<p>Mesh openings shall be square of nominal dimension of 76.2mm on the grid.</p>
MESH WIRE	<p>Nominal wire diameter shall be 3.0mm for the body of the gabion and 3.8mm for the exposed face mesh and rear mesh panel, all to BS 1052</p>
DIAPHRAGMS	<p>Diaphragms are to be a maximum of 700mm between centres on the exposed faces of the gabions.</p>
DEFORMATION CO-EFFICIENT	<p>The maximum deformation coefficient is to be 0.25 for the unsupported mesh facing.</p>
CORROSION PROTECTION	<p>Wire shall be galvanised to BSEN 10244-2;2001 and additionally coated with fusion bonded Green PVC after welding nominally 0.25mm radial thickness.</p>
JOINTING	<p>Gabions shall be provided with lacing wire for all joints. Lacing wire shall be of nominal wire diameter 2.2mm with an extruded PVC sheathe of nominal thickness 0.5mm for final jointing.</p>
ROCKFILL	<p>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 100mm - 100mm.</p>
CONSTRUCTION	<p>All rockfill shall be packed tightly to minimize voids and the rockfill on the exposed face of the gabion is to be hand packed.</p> <p>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 and mid point horizontally on 0.7m deep units.</p> <p>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.</p>