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HY-TEN SYSTEM 700 GABION SPECIFICATIONS

- MANUFACTURE:** Gabions shall be manufactured from hard drawn steel wire formed into bi-axial mesh grid by electrically welding the cross wires at every intersection.
- Gabions are factory assembled with stainless steel clips connecting side panels and diaphragms to the base panel and the lid to the rear panel.
- MESH SIZE:** The mesh size shall be square and of a nominal size of 76.2mmx76.2mm 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 centers on the exposed faces of the gabions. Diaphragms are set at 686mm centers within the unit and at maximum of 1372mm across the width
- CORROSION PROTECTION:** Wire shall be triple life (95% zinc 5% aluminum) coated.
- JOINT ASSEMBLY:** Joints will be made with lacing wire and helical binders for the site assembly, lacing wire shall be a nominal wire diameter of 2.2mm and the helical binders of a nominal diameter of 4.0mm
- Fill Material:** 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 – 150mm.
- CONSTRUCTION:** All rock fill shall be packed tightly to minimize voids and the rock fill on the exposed face of the gabion is to be hand packed.
- Internal windlass bracing ties 2, per 1 square meter at 1/3rd points vertically and mid-point horizontally on 1m deep units, and at mid height and mid-point horizontally on 0.5m deep units.
- Adjacent units to be joined by continuous lacing on the vertical and the horizontal joints at front and rear of coursing joints.
- Units shall be filled such that the mesh lid bears onto the rock fill. The lids shall be wired down on all joints and across the diaphragms.