



Rocks shall range between 100 mm and 200 mm. The range in sizes may allow for a variation of 5% oversize and/or 5% undersize rock, provided it is not placed on the exposed surface. In all cases, the oversize rock shall not be larger than 250 mm, and the undersize rock shall not be smaller than 50 mm. Rock shall be placed in 300 mm lifts for 1 m high gabion units, and 250 mm for 0,5 m high units. The fill layer shall never be more than 300 mm higher than any adjoining cell (Figure 7). Care shall be taken when placing the stone to ensure that the PVC coating of the wire is not damaged. After a layer of rock has been placed in the cell, sufficient hand manipulation of the rock shall be performed to minimize voids and achieve a maximum density of the rock in the gabion. The rock in exposed vertical faces shall be hand placed to reduce voids in the outer face. Stiffeners or internal cross ties shall be installed connecting the front and back faces of any supported or exposed face at the vertical third points for a 1 m high gabion unit, as the cell is being filled (Figure 5). Gabion units installed at the wall ends, having two exposed sides, shall also include a set of cross ties installed perpendicularly to the lateral exposed face. For 0,5 m high baskets when used as revetment, stiffeners or internal cross ties are not required. When more than one vertical layer of gabions is installed, units shall be overfilled to approximately 25 to 40 mm to allow for natural settlement. The top surface shall be smoothly levelled, minimising voids. Ensure that diaphragm tops are easily accessible for connecting.

Closing

After the rock has been levelled and the voids minimised, fold the lid down and pull edges of the panels together. It should require a light stretching using an appropriate closing tool (Figure 10) or lid closer in order to bring the two gabion pieces together. Care shall be taken that the mesh is not deformed or the coating on the wire damaged. The projecting selvedge wire of the lid shall be wrapped two complete turns around the selvedge wire or edge wire on the sides. The lid shall be tightly tied along all edges, ends and tops of diaphragms. Adjacent lids may be tied or attached simultaneously. All projecting sharp ends of wire shall be turned in on the completed gabion structure.

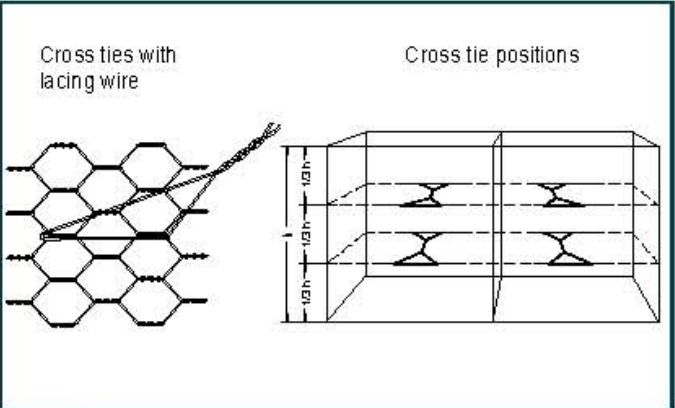


Figure 5

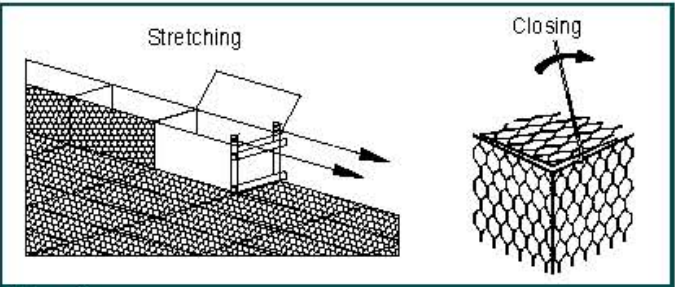


Figure 6

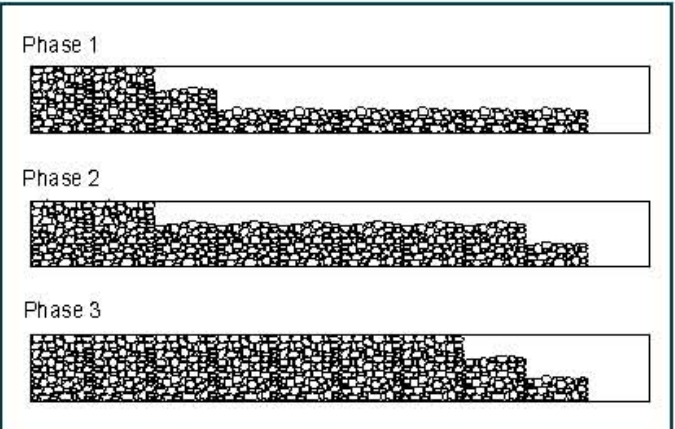


Figure 7

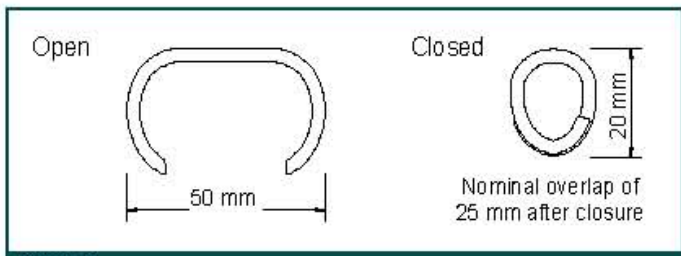


Figure 9

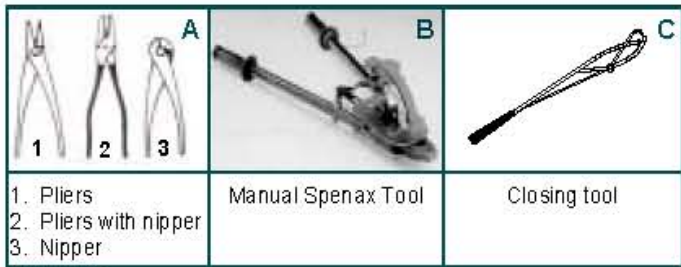


Figure 10

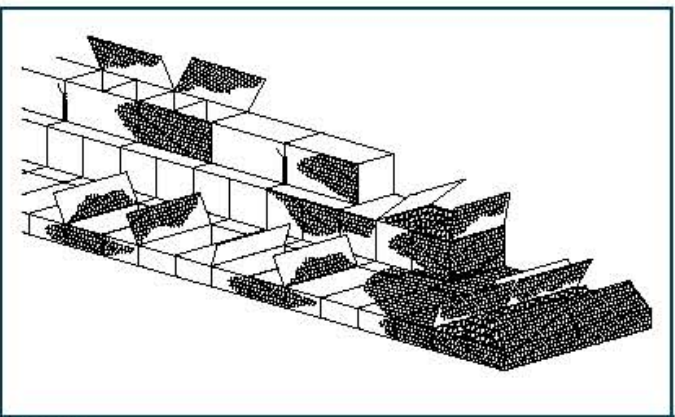


Figure 8

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