

MAC.RO. SYSTEM - Rock Mesh® 30100
COMPOSITE CABLED WIRE MESH

Product Description

Rock Mesh 30100 composite mesh is particularly suitable for rockfall protection as a pinned or simple drapery system for surface or soil veneer slope stability. **Rock Mesh 30100** is a woven composite mesh system made of steel wire and steel wire ropes woven together during the manufacturing process of the hexagonal double twisted wire mesh.

The wire ropes are inserted longitudinally every 12 inches (300 mm) into the wire mesh in both directions. The transversal ropes are inserted within each double twisted mesh and are secured to the selvedge ropes during the manufacturing process. The **Rock Mesh 30100** forms a biaxial 12 inches (300 mm) x 39 inches (1000 mm) cable net grid within the mesh. (See figure 3)

The steel wire used for manufacturing the **Rock Mesh 30100** is heavily galvanized soft temper steel as per ASTM A641. The hexagonal wire mesh has traditionally been used in the production of gabions and is manufactured in accordance with ASTM A975. The double twist provides a high resistance to the thrust and impact of rocks without unravelling even in the event of individual wire breakages.



Figure 1

The tolerance on the opening of mesh 'D' being the distance between the axis of two consecutive twists, is according to ASTM A975

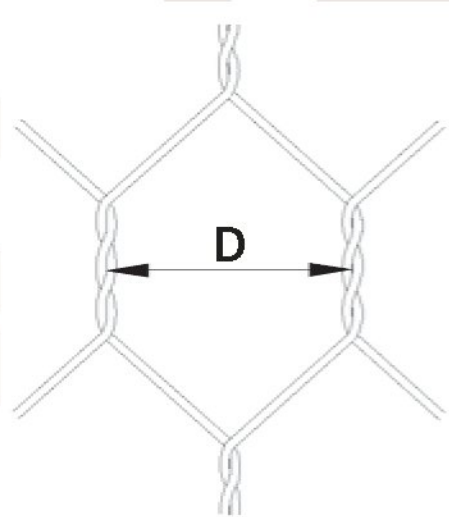


Figure 2

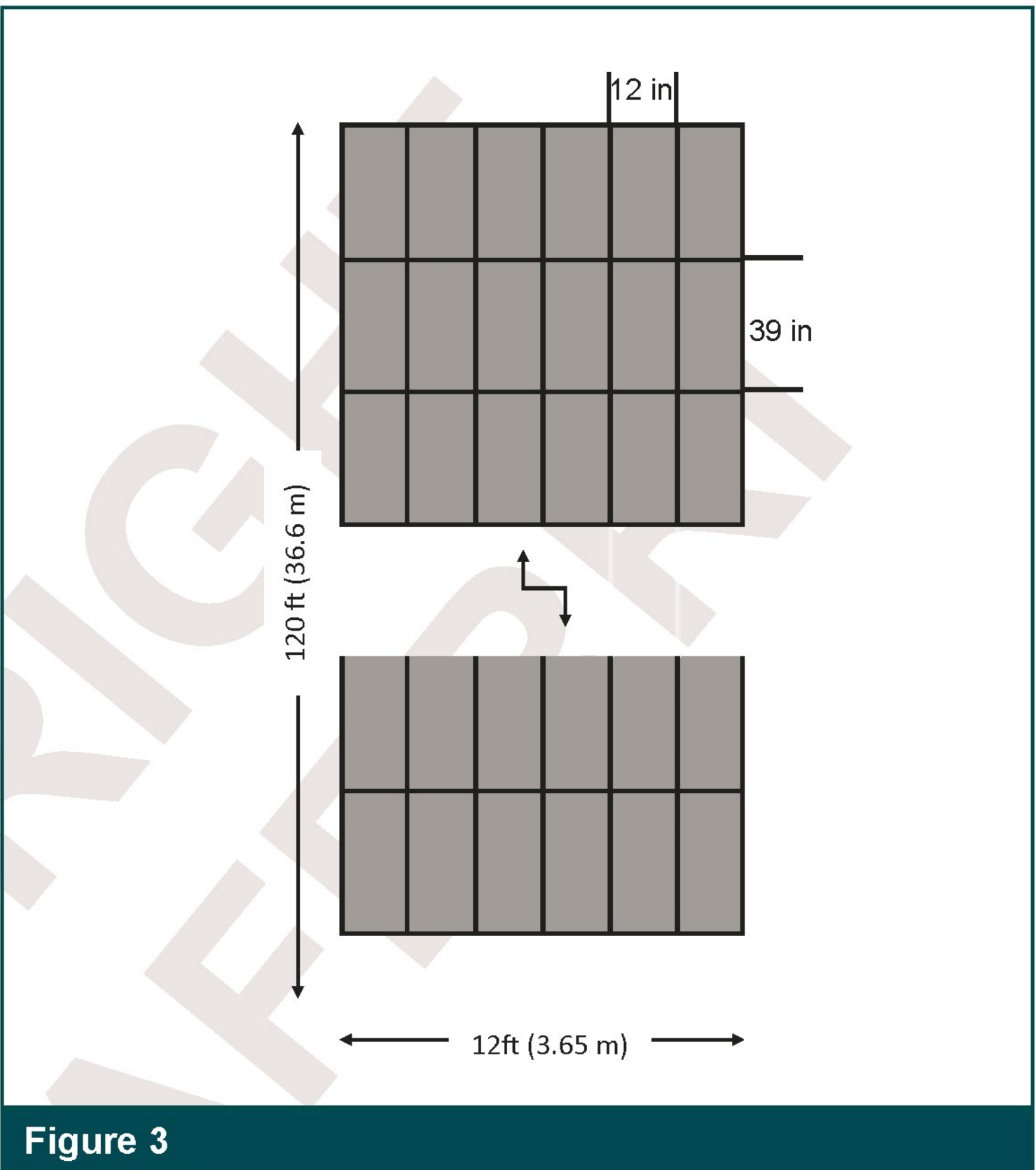


Figure 3

Wire

All tests on wire must be performed prior to manufacturing the mesh.

Tensile strength: wire used in the manufacturing of wire mesh shall have a maximum tensile strength of 75,000 psi (515 MPa) in accordance with ASTM A641/A641M. Wire tolerances (Table 3) are in accordance with ASTM A641/A641M.

Elongation: Elongation shall not be less than 12%, in accordance with ASTM 370. Test must be carried out on a sample at least 12 in. (25 cm) long.

Zinc Coating: minimum quantities of zinc shown at Table 3 meet the requirements of ASTM A641/A641M, Class III.

Adhesion of Zinc: the adhesion of the zinc coating to the wire shall be such that, when the wire is wrapped six turns around a mandrel having four times the diameter of the wire, it does not flake or crack when rubbing it with the bare fingers.

Maccaferri reserves the right to amend product specifications without notice and specifiers are requested to check as to the validity of the specifications they are using.

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