

IS 16014: 2018 Mechanically Woven, Double-Twisted, Hexagonal Wire Mesh Gabions, Revet Mattresses, Rock Fall Netting, and Other Products for Civil Engineering Purposes (First Revision)

This standard provides specifications for Gabions, Revet Mattresses, Sack Gabions, Soil Reinforcement Facia units, and Rock Fall Netting made from double-twisted galvanized steel wire mesh.

These products are used extensively to protect land from erosion, channel lining, construction of earth retaining structures, erosion control, and other civil engineering applications in hilly areas, river beds, forest areas as well as near sea beds. These are produced with galvanized or polymer-coated steel wire to enhance its durability.

The standard specifies materials, classifications based on coating types (zinc or zinc alloy with/without polymer coating), and dimensions for each product. It also details the requirements for tensile strength, mesh size, and coating thickness along with the testing methods for physical and mechanical properties, including tensile strength and coating adhesion. Additionally, emphasis is also placed on quality control, marking for product identification, and safe handling.