

1711 – GABIONS

SECTION 1711

GABIONS

1711.1 DESCRIPTION

This specification covers gabion fabricated in accordance with this specification and as shown in the Contract Documents. Gabions manufactured from both twisted and welded wire are described here. Provide the type that is specified in the Contract Documents. If neither is specified, either may be provided.

1711.2 REQUIREMENTS

a. General. The following applies, regardless of the method of manufacture. Make the mesh openings with a maximum dimension less than 5 inches, and area less than 11 square inches, and a size less than the gabion or revet mattress rock to be used with the mesh.

b. Twisted Wire Mesh. Provide gabions and permanent fasteners, lacing, stiffeners and other assembly components that comply with ASTM A 975 with the following specific designations.

- (1) Provide Style 1 unless polyvinyl chloride (PVC) coating is specified.
- (2) If PVC coating is specified, provide Style 3.

c. Welded Wire Fabric. Provide gabions and permanent fasteners, lacing, stiffeners and other assembly components that comply with ASTM A 974 with the following specific designations.

- (1) Provide Style 2 (zinc coating after welding) unless polyvinyl chloride (PVC) coating is specified.
- (2) If PVC coating is specified, provide Style 5 made from Style 2 components.

1711.3 TEST METHODS

Test gabion materials according to the ASTM's cited in **subsection 1711.2**.

1711.4 PREQUALIFICATION

a. All material provided under this specification must be prequalified.

b. Manufacturers interested in prequalifying material under this specification must provide 1 gabion that are galvanized and 1 gabion that is PVC coated to the Engineer of Tests for laboratory testing and evaluation. Include samples of all fasteners used to assemble the units and incorporate them into a structure. Include test reports for the same type of units being submitted, a copy of all technical data, and a complete set of installation recommendations and instructions.

c. The submittals will be evaluated for compliance with this specification, and the manufacturer will be notified of the results.

d. The Bureau of Materials and Research will maintain a list of qualified materials and a file of installation instructions. Products will remain on the prequalified list as long as the field performance is satisfactory.

1711.5 BASIS OF ACCEPTANCE

Prequalification as specified in **subsection 1711.4**.

Receipt and approval of a Type C certification as specified in **DIVISION 2600** for each shipment. A shipment consists of all material arriving at the job site at substantially the same time.

Visual inspection at the job site for quality of workmanship and coatings, and for compliance to dimensions and dimensional tolerances.