



Standard Specification for Welded Wire Fabric Gabions and Gabion Mattresses (Metallic-Coated or Polyvinyl Chloride (PVC) Coated)¹

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1. Scope

1.1 This specification covers gabions and gabion mattresses produced from metallic-coated welded wire fabric, and metallic-coated wire for spiral binders, lacing wire, and stiffeners used to assemble the product. The metallic-coated fabric may be polyvinyl chloride (PVC) coated after fabrication. The spiral binders, lacing wire, and stiffeners may be PVC coated after metallic coating. Polyvinyl chloride hereinafter will be designated as PVC.

1.2 Welded wire fabric for gabions and gabion mattresses is produced in five styles, based on the kind of coating, as described in Section 4.

1.3 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.4 This specification references notes and footnotes which provide explanatory material. These notes and footnotes (excluding those in tables and figures) shall not be considered as requirements of this specification.

1.5 The following safety hazards caveat pertains only to the test methods portion, Section 13, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

A90/A90M Test Method for Weight [Mass] of Coating on Iron and Steel Articles with Zinc or Zinc-Alloy Coatings

¹ This specification is under the jurisdiction of ASTM Committee A05 on Metallic-Coated Iron and Steel Products and is the direct responsibility of Subcommittee A05.12 on Wire Specifications.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

A185/A185M Specification for Steel Welded Wire Reinforcement, Plain, for Concrete (Withdrawn 2013)³

A370 Test Methods and Definitions for Mechanical Testing of Steel Products

A428/A428M Test Method for Weight [Mass] of Coating on Aluminum-Coated Iron or Steel Articles

A641/A641M Specification for Zinc-Coated (Galvanized) Carbon Steel Wire

A809 Specification for Aluminum-Coated (Aluminized) Carbon Steel Wire

A853 Specification for Steel Wire, Carbon, for General Use

A856/A856M Specification for Zinc-5 % Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire

A902 Terminology Relating to Metallic Coated Steel Products

B117 Practice for Operating Salt Spray (Fog) Apparatus

D638 Test Method for Tensile Properties of Plastics

D746 Test Method for Brittleness Temperature of Plastics and Elastomers by Impact

D792 Test Methods for Density and Specific Gravity (Relative Density) of Plastics by Displacement

D1242 Test Methods for Resistance of Plastic Materials to Abrasion (Withdrawn 2003)³

D1499 Practice for Filtered Open-Flame Carbon-Arc Exposures of Plastics

D2240 Test Method for Rubber Property—Durometer Hardness

G23 Practice for Operating Light-Exposure Apparatus (Carbon-Arc Type) With and Without Water for Exposure of Nonmetallic Materials (Withdrawn 2000)³

3. Terminology

3.1 *Definitions*—Refer to Terminology A902 for general terminology relating to metallic-coated steel products.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *gabion, n*—a wire fabric container, uniformly partitioned, of variable size, interconnected with other similar containers, and filled with stone at the site of use, to form flexible, permeable, monolithic structures such as retaining

³ The last approved version of this historical standard is referenced on www.astm.org.