
Standard Method of Test for Weight and Diameter for Carbon-Steel for Steel Wire and Welded Wire Reinforcement for Concrete

AASHTO Designation: TP 138-20 (2022)¹

First Published: 2020

Reviewed but Not Updated: 2022

Technical Subcommittee: 4f, Metals



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1. SCOPE

- 1.1. This test method covers procedures for determining the unit weight and diameter of steel wire and welded wire reinforcement, plain and deformed, for conformance with [M 336M/M 336](#). A representative specimen of wire is tested to determine its diameter and/or unit weight. The tests herein described are used to determine the minimum properties of the wire in the product manufacturing specifications where indicated. Variations in testing methods are to be avoided and standard methods of testing are to be followed to obtain reproducible and comparable results.
- 1.2. The results determined by this test method shall be expressed in inch-pound units except as indicated.
- 1.3. *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.*
- 1.4. *The quality of the results produced by this standard are dependent on the competence of the personnel performing the procedure and the capability, calibration, and maintenance of the equipment used. Agencies that meet the criteria of [R 18](#) are generally considered capable of competent and objective testing/sampling/inspection/etc. Users of this standard are cautioned that compliance with [R 18](#) alone does not completely assure reliable results. Reliable results depend on many factors; following the suggestions of [R 18](#) or some similar acceptable guideline provides a means of evaluating and controlling some of those factors.*

2. REFERENCED STANDARDS

- 2.1. AASHTO Standards:
- [M 336M/M 336](#), Steel Wire and Welded Wire, Plain and Deformed, for Concrete Reinforcement
 - [R 18](#), Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories