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# **Standard Method of Test for Bend Test for Bars for Concrete Reinforcement**

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**AASHTO Designation: T 285M/T 285-24<sup>1</sup>**

**Technically Revised: 2024**

**Editorially Revised: 2024**

**Technical Subcommittee: 4f, Metals**



**American Association of State Highway and Transportation Officials  
555 12<sup>th</sup> Street NW, Suite 1000  
Washington, DC 20004**

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1. SCOPE
- 1.1.

This method covers a bend test for evaluating the ductility of bars used for concrete reinforcement.
- 1.2.

The values stated in either SI units or inch-pound units are to be regarded separately as standard. The inch-pound units are shown in parentheses. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.
- 1.3.

*The quality of the results produced by this standard is 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 DOCUMENTS
- 2.1.

AASHTO Standards:

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M 31M/M 31, Deformed and Plain Carbon and Low-Alloy Steel Bars for Concrete Reinforcement

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M 322M/M 322, Rail-Steel and Axle-Steel Deformed Bars for Concrete Reinforcement

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M 339M/M 339, Thermometers Used in the Testing of Construction Materials

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R 18, Establishing and Implementing a Quality Management System for Construction Materials Testing Laboratories
- 2.2.

ASTM Standards:

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E1, Standard Specification for ASTM Liquid-in-Glass Thermometers

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E230, Standard Specification and Temperature-Electromotive Force (emf) Tables for Standardized Thermocouples

■

E2877, Standard Guide for Digital Contact Thermometers
- 2.3.

Other Standard:

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IEC 60584-1: 2013, Thermocouples - Part 1: EMF Specifications and Tolerances