



## Standard Test Method for Boat Barriers<sup>1</sup>

This standard is issued under the fixed designation F2766; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This test method is intended to provide a means of evaluating the performance of Boat Barriers and through that evaluation provide a certification of performance in the form of an ASTM International Impact Rating for Boat Barriers to be used in the design and specification of Boat Barriers. In addition to the Impact Rating, testing under this standard requires the determination and reporting of the maximum deformation of the barrier during testing to further aid in appropriate barrier selection.

1.2 This test method provides a range of small surface motor boat impact condition levels and penetration performance levels to select boat barriers appropriate for use at potentially threatened onshore port facilities, offshore facilities, and floating assets.

1.3 This test method is designed to test and evaluate the stopping capabilities of boat barriers at the point of impact and the moments subsequent to impact of a small surface motor boat.

1.4 This test method is not intended to be used for the testing criteria of floating “lines of demarcation” or similar items or technologies that do not make claims of “boat or small surface motor boat” stopping capabilities.

1.5 Governing agencies may adopt those performance levels in this test method that satisfy their specific needs and assign certification ratings for small surface motor boat stopping barriers based on the tests and test methodologies described in this test method.

1.6 Many test parameters are standardized to arrive at common small surface motor boat types and masses, enhance test realism and replications, and produce uniform rating designations.

1.6.1 Compliance with these rating designations establishes a measure of performance but does not render any boat barrier invulnerable to motor boat penetration. Caution should be

exercised in interpreting test findings and projecting results to other hypothetical conditions.

1.7 Product design/certification in this test method only addresses the ability of the barrier to withstand the impact of the test motor boat. It does not represent an endorsement of the product/design or address its operational suitability.

1.8 *Units*—The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.9 *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 SAE Standard:<sup>2</sup>

SAE J-211/2 Instrumentation for Impact Test—Part 2: Photographic Instrumentation

#### 2.2 ISO Standard:<sup>3</sup>

ISO 17025 General Requirements for the Competence of Testing and Calibration Laboratories

#### 2.3 Federal Standard:<sup>4</sup>

46 CFR 24.10-1 Shipping: Chapter 1—Coast Guard, Department of Homeland Security—Part 24: General Provisions—Definitions

### 3. Terminology

#### 3.1 Definitions:

3.1.1 *accredited independent testing laboratory, n*—testing laboratory accredited to perform the referenced testing procedures by a nationally recognized accrediting agency in accordance with ISO 17025 and led by a test director; an accredited independent testing laboratory shall have access to the apparatus, facilities, personnel, and calibrated instruments that

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<sup>2</sup> Available from SAE International (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, <http://www.sae.org>.

<sup>3</sup> Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.

<sup>4</sup> Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.