



Designation: F1564 – 13 (Reapproved 2019)^{ε1}

Standard Specification for Structure-Mounted Insulating Work Platforms for Electrical Workers¹

This standard is issued under the fixed designation F1564; 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 (ϵ) indicates an editorial change since the last revision or reapproval.

^{ε1} NOTE—Note 1 was removed editorially in December 2019.

1. Scope

1.1 This specification covers the design testing of mechanical and electrical characteristics of structure-mounted insulating work platforms used by electrical workers.

1.2 Platforms covered by this specification are singleworker platforms not exceeding 9 ft (2.75 m) in length. Platforms designed to support more than one worker at a time are beyond the scope of this specification.

1.3 Non-insulating platforms are not within the scope of this specification.

1.4 The use and maintenance of this equipment are beyond the scope of this specification.

1.5 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.

1.6 The following safety hazards caveat pertains only to the test method portion, Section 9 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.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

¹ This specification is under the jurisdiction of ASTM Committee F18 on Electrical Protective Equipment for Workers and is the direct responsibility of Subcommittee F18.35 on Tools & Equipment.

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2. Referenced Documents

2.1 *ASTM Standards*:²

F711 Specification for Fiberglass-Reinforced Plastic (FRP) Rod and Tube Used in Live Line Tools

F819 Terminology Relating to Electrical Protective Equipment for Workers

3. Terminology

3.1 *Definitions*:

3.1.1 Refer to Definitions F819 for definitions of terms specific to this specification.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *design test*—a type of test made on a sample treated as representative of an industrial product. These tests will not be repeated in quantity production.

3.2.2 *discontinuities*—abrupt changes in surface that may trip an electrical worker or otherwise introduce a hazard to the worker (see 8.1).

3.2.3 *insulating distance*—the distance from the structure attachment point to the beginning of the work area of the platform.

4. Significance and Use

4.1 Insulating work platforms covered by this specification are designed to be used by electrical workers in conjunction with personal protective equipment while working on energized circuits. This shall include, but not be limited to:

4.1.1 Insulating gloves with protectors or insulating and insulated hotsticks, or both.

4.1.2 A fall protection device that does not compromise the electrical insulating protection of the platform.

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.

4.2 The test procedures in this specification provide an objective means of determining if a platform meets minimum electrical and mechanical specifications. The methods permit testing of major components of the platform under controlled conditions.

4.3 The test procedures utilize objective criteria for evaluation and may be discontinued at any time defects are found.

5. Ordering Information

5.1 Orders for platforms under this specification should include the following information:

- 5.1.1 Length,
- 5.1.2 Pivot or non-pivot attachment, and
- 5.1.3 Single-point or rail-type attachment for worker.

6. Manufacture and Marking

6.1 Each platform covered by this specification shall be marked clearly and permanently with the maximum working load in the position used as well as the name of the manufacturer, month and year of assembly, and the ASTM designation.

6.2 Each platform shall have a durable nonskid finish applied to the area of the platform on which the worker stands. This coating shall be nonconductive and shall permanently adhere to the surface.

7. Other Requirements

7.1 Each platform shall be free of areas that will trap water and debris that may impair the insulating effectiveness between the worker location and the structure attachment.

7.2 Each platform shall have a minimum overall length of 38 in. (96.52 cm) and an insulating distance of at least 12 in. (30.48 cm) from the structure attachment to a kick board or other warning device. See Fig. 1 for details.

7.2.1 Any brace poles or attachments bridging the insulating section of the platform shall have a minimum of 12 in. (30.48 cm) of insulating distance. (See Fig. 1.)

7.3 Platforms covered by this specification shall be rated at a minimum working load of 500 lb (226.8 kg) with a minimum safety factor of 2.5 in fiberglass-reinforced plastic (FRP) material and in metal brackets and associated loadbearing components when installed in the manufacturer's recommended configuration on the structure.

7.4 All FRP tubular supports, such as hand rails, support struts, tripods, etc. shall meet the specifications set forth in Specification F711.

7.5 All mounting hardware that is hand removable such as bolts and pins, shall be equipped with safety keepers.

8. Workmanship, Finish, and Appearance

8.1 Each platform shall be free of cracks, voids, or discontinuities in surface (except where, by design, the surface is discontinuous due to the installation of a kick board or other warning device).

8.2 All insulated surface areas providing electrical insulation and isolation of the work area from the structure shall be smooth for ease of cleaning.

9. Test Methods

9.1 Test each design of insulating work platform covered by this specification dielectrically and mechanically in accordance with the following procedures:

9.1.1 *Electrical Test:*

9.1.1.1 As shown in Fig. 2, the 12-in. (30.48-cm) insulating segment of the assembled platform shall withstand a 100-kV alternating-current (ac) potential for 5 min. Passing this test is indicated by the following: no flashover between electrodes;

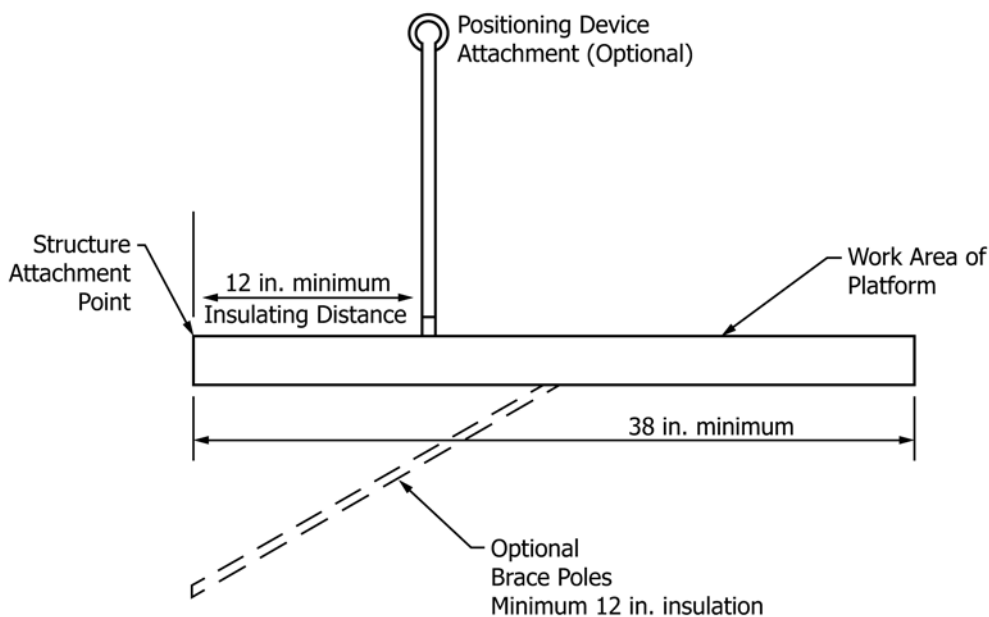


FIG. 1 Platform Requirements