



Standard Specification for Shelter, Electrical Equipment S-250/G¹

This standard is issued under the fixed designation E1974; 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.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers one type of lightweight field and mobile rigid wall shelter designed for transport by cargo truck, fixed or rotary winged aircraft, by rail, and ship, designated as Shelter, Electrical Equipment S-250/G.

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

1.3 The following safety hazards caveat refers only to the test methods portion of this specification. *This standard does not purport to address the safety concerns, if any, associated with its use. It is the responsibility of the user of the 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

- C273 Test Method for Shear Properties of Sandwich Core Materials
- D1621 Test Method for Compressive Properties of Rigid Cellular Plastics
- D1622 Test Method for Apparent Density of Rigid Cellular Plastics
- D2842 Test Method for Water Absorption of Rigid Cellular Plastics
- E1370 Guide for Air Sampling Strategies for Worker and Workplace Protection
- E1749 Terminology Relating to Rigid Wall Relocatable Shelters
- E1773 Practice for Sealing Rigid Wall Tactical Shelters with Polysulfide Based Sealants

¹ This specification is under the jurisdiction of ASTM Committee E06 on Performance of Buildings and is the direct responsibility of Subcommittee E06.53 on Materials and Processes for Durable Rigidwall Relocatable Structures.

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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.

E1800 Specification for Adhesive for Bonding Foam Cored Sandwich Panels (160°F Elevated Humidity Service), Type I Panels

E1801 Practice for Adhesive Bonding of Aluminum Facings in Foam and Beam Type Shelters

E1851 Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures

E1925 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures

2.2 Commercial Standards:³

SAE AMS-W-6858 Welding, Resistance: Spot and Seam

2.3 Federal Air Regulation (FAR):⁴

FAR 25.853 Compartment Interior

2.4 Military Standards:⁵

MIL-F-14072 Finishes for Ground Based Electronic Equipment

MIL-DTL-55507 Shelter, Electrical Equipment (With or Without Equipment), Packaging of

MIL-STD-252 Wired Equipment, Classification of Visual and Mechanical Defects

MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests

MIL-STD-2219 Fusion Welding for Aerospace Applications

MIL-STD-13231 Marking of Electronic Items

2.5 Drawings:⁶

DL-SM-B-563500 Shelter, Electrical Equipment, S-250/G

DL-SM-B-649950 Modification Kit, EMI, MK-1092/G

DL-SM-B-650123 Shelter, Electrical Equipment, S-250/G (Shielded)

SM-D-208679 Outer Door Assembly

SM-D-208682 Inner Door Assembly

SM-C-435904 Keeper

SM-C-435937 Nameplate

SM-B-563559 Adhesive

³ Available from AMS Publications, Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, <http://www.sae.org>.

⁴ Available from Flight Standards Service, Federal Aviation Administration (FAA), 800 Independence Ave., SW, Washington, DC 20591, <http://www.faa.gov>.

⁵ Available from Standardization Documents Order Desk, DODSSP, Bldg. 4, Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, <http://www.dodssp.daps.mil>.

⁶ Available from US Army Natick Soldier Center, ATTN: AMSRD-NSC-CP-CS, Kansas Street, Natick, MA 01760-5018.