



Standard Specification for Shelter, Electrical, Equipment S-280/G¹

This standard is issued under the fixed designation E1975; 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 reappraisal. A superscript epsilon (ε) indicates an editorial change since the last revision or reappraisal.

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

1. Scope

1.1 This specification covers one type of lightweight field and mobile shelter designed for transport by cargo truck, fixed or rotary winged aircraft, by rail, and ship, as Shelter, Electrical Equipment S-280/G (see 15.5).

1.2 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.

1.3 The following safety hazards caveat refers only to the test methods described in 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/C273M Test Method for Shear Properties of Sandwich Core Materials
- D1621 Test Method for Compressive Properties of Rigid Cellular Plastics
- D1622/D1622M Test Method for Apparent Density of Rigid Cellular Plastics
- D2842 Test Method for Water Absorption of Rigid Cellular Plastics
- E631 Terminology of Building Constructions
- E864 Practice for Surface Preparation of Aluminum Alloys to Be Adhesively Bonded in Honeycomb Shelter Panels
- E1730 Specification for Rigid Foam for Use in Structural Sandwich Panel Cores

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.

E1749 Terminology Relating to Rigid Wall Relocatable Shelters

E1773 Practice for Sealing Rigid Wall Tactical Shelters with Polysulfide Based Sealants

E1794 Specification for Adhesive for Bonding Foam Cored Sandwich Panels (200°F Elevated Humidity Service), Type II 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
SAE AMS-STD-1595 Qualification of Aircraft, Missile, and Aerospace Fusion Welders

2.3 Federal Air Regulation (FAR):⁴

FAR 25.853 Compartment Interior

2.4 Military Standards:

MIL-F-14072 Finishes for Ground Electronic Equipment⁵

MIL-DTL-55507 Shelter, Electrical Equipment, (With or Without Equipment), Packaging of⁵

MIL-STD-202 Electronic and Electrical Component Parts⁵

MIL-STD-252 Wired Equipment, Classification of Visual and Mechanical Defects for Equipment, Electronic, Wired, and Other Devices⁵

MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests⁵

MIL-STD-1916 DOD Preferred Methods for Acceptance of Product⁶

MIL-STD-2219 Fusion Welding for Aerospace Applications⁶

MIL-M-13231 Marking of Electronic Items⁵

³ Available from AMS Publications, SAE International (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 DLA Document Services, Building 4/D, 700 Robbins Ave., Philadelphia, PA 19111-5094, <http://quicksearch.dla.mil>.

⁶ Available from US Army Natick Soldier Systems Center, ATTN: AMSRD-NSC-CP-CS, Kansas Street, Natick, MA 01760-5018, <http://www.army.mil/natick>.