



Designation: E 1975 – 01

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

This standard is issued under the fixed designation E 1975; 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.

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 the standard. The values given in parentheses are for information only.

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:

- C 272 Test Method for Water Absorption of Core Materials for Structural Sandwich Constructions²
- C 273 Test Method for Shear in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores²
- D 1621 Test Method for Compressive Strength of Rigid Cellular Plastics³
- D 1622 Test Method for Apparent Density of Rigid Cellular Plastics³
- D 2842 Test Method for Water Absorption of Rigid Cellular Plastics⁴
- E 864 Practice for Preparation of Aluminum Alloys to be Adhesively Bonded in Honeycomb Shelter Panels⁵
- E 1730 Specification for Rigid Foam for Use in Shelter Sandwich Panel Cores⁵
- E 1749 Terminology Relating to Rigid Wall Relocatable Shelters⁵
- E 1773 Practice for Sealing Rigid Wall Tactical Shelters with Polysulfide Based Sealants⁵
- E 1794 Specification for Adhesive for Bonding Foam Cored

Sandwich Panels (200°F Elevated Humidity Service), Type II Panels⁵

E 1801 Practice for Adhesive Bonding of Aluminum Facings in Foam and Beam Type Shelters⁵

E 1851 Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures⁵

E 1925 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures⁵

2.2 Federal Air Regulation (FAR):

FAR 25.853 Compartment Interior⁶

2.3 Military Standards:

MIL-W-6858 Welding Resistance: Aluminum, Magnesium, Non-Hardening Steels or Alloys, Nickel Alloys, Nickel Alloys, Heat-Resisting Alloys and Titanium Alloys; Spot and Seam⁷

MIL-M-13231 Marking of Electronic Items⁷

MIL-F-14072 Finishes for Ground Electronic Equipment⁷

MIL-DTL-55507 Shelter, Electrical Equipment, (With or Without Equipment), Packaging of⁷

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes⁷

MIL-STD-202 Test Methods for Electronic and Electrical Component Parts⁷

MIL-STD-252 Classification of Visual and Mechanical Defects for Equipment, Electronic, Wired, and Other Devices⁷

MIL-STD-810 Environmental Engineering Considerations and Laboratory Tests⁷

MIL-STD-1235 Single and Multilevel Continuous Sampling Procedures and Tables for Inspection by Attributes⁷

MIL-STD-1595 Qualification of Aircraft, Missile and Aerospace Fusion Welders⁷

2.4 Drawings:

SC-D-36423 Hold Down Assembly⁸

SC-C-36424 Cable Assembly⁸

SC-C-200154 Keeper⁸

SM-D-450462 Panel Assembly, Emergency Exit⁸

SM-C-450466 Air Filter⁸

SM-C-555515 Shock Mount⁸

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 Rigid Wall Relocatable Structures.

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² Annual Book of ASTM Standards, Vol 15.03.

³ Annual Book of ASTM Standards, Vol 08.01.

⁴ Annual Book of ASTM Standards, Vol 08.02.

⁵ Annual Book of ASTM Standards, Vol 04.11.

⁶ Available from Flight Standards Service, Federal Aviation Administration, 800 Independence Ave., SW, Washington, DC 20591.

⁷ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.

⁸ Available from U.S. Army Natick Research, Development, and Engineering Center, Attn: SSCNC-WST, Natick, MA 01760-5018.