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Standard Specification for Shelter, Electrical, Equipment S-280/G[1]

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 Constructions[2]

C 273 Test Method for Shear in Flatwise Plane of Flat Sandwich Constructions or Sandwich Cores[2]

D 1621 Test Method for Compressive Strength of Rigid Cellular Plastics[3]

D 1622 Test Method for Apparent Density of Rigid Cellular Plastics[3]

D 2842 Test Method for Water Absorption of Rigid Cellular Plastics[4]

E 864 Practice for Preparation of Aluminum Alloys to be Adhesively Bonded in Honeycomb Shelter Panels[5]

E 1730 Specification for Rigid Foam for Use in Shelter Sandwich Panel Cores[5]

E 1749 Terminology Relating to Rigid Wall Relocatable Shelters[5]

E 1773 Practice for Sealing Rigid Wall Tactical Shelters with Polysulfide Based Sealants[5]

E 1794 Specification for Adhesive for Bonding Foam Cored Sandwich Panels (200°F Elevated Humidity Service), Type II Panels[5]

E 1801 Practice for Adhesive Bonding of Aluminum Facings in Foam and Beam Type Shelters[5]

E 1851 Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures[5]

E 1925 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures[5]

2.2 *Federal Air Regulation (FAR):*

FAR 25.853 Compartment Interior[6]

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 Seam[7]

MIL-M-13231 Marking of Electronic Items[7]

MIL-F-14072 Finishes for Ground Electronic Equipment[7]

MIL-DTL-55507 Shelter, Electrical Equipment, (With or Without Equipment), Packaging of[7]

MIL-STD-105 Sampling Procedures and Tables for Inspection by Attributes[7]

MIL-STD-202 Test Methods for Electronic and Electrical Component Parts[7]

MIL-STD-252 Classification of Visual and Mechanical Defects for Equipment, Electronic, Wired, and Other Devices[7]

MIL-STD-810 Environmental Test Methods[7]

MIL-STD-1235 Single and Multilevel Continuous Sampling Procedures and Tables for Inspection by Attributes[7]

MIL-STD-1595 Qualification of Aircraft, Missile and Aerospace Fusion Welders[7]

2.4 *Drawings:*

SC-D-36423 Hold Down Assembly[8]

SC-C-36424 Cable Assembly[8]

SC-C-200154 Keeper[8]

SM-D-450462 Panel Assembly, Emergency Exit[8]

SM-C-450466 Air Filter[8]

SM-C-555515 Shock Mount[8]

SM-B-563756 Sealer[8]

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[1] This specification is under the jurisdiction of ASTM Committee E-16 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.