



Standard Specification for Shelter, Electrical Equipment, Lightweight¹

This standard is issued under the fixed designation E2377; 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 two types of lightweight electrical equipment shelters designed for transport on the M1152A1, M1152A1 with B2 Armor Kit, M1037, and M1097 High Mobility Multipurpose Wheeled Vehicle (HMMWV). These shelters are transported by rail, air, marine and highway when mounted or dismounted from their vehicles.

1.2 *Classification*—The shelters will be of the following types, as specified (see 6.2).

1.2.1 *Type I*—Shelter, Electrical Equipment, Lightweight (w/o Tunnel, 17-2-0035-1).

1.2.2 *Type III*—Shelter, Electrical Equipment, Lightweight, Modified, General Purpose (w/ Tunnel, 17-2-0035-3).

1.3 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.

1.4 The following safety hazards caveat pertains only to the test required portion, Section 4, 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 requirements prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

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

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.

Current edition approved Oct. 1, 2010. Published October 2010. Originally approved in 2003 as PS 138 - 03. Last previous edition approved in 2004 as E2377 – 04. DOI: 10.1520/E2377-10.

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.

2.2 Commercial Standard:³

SAE-AS8090 Equipment, Towed Aerospace Ground, Mobility

2.3 Federal Standard:⁴

FED-STD-595 Colors Used in Government Procurement

2.4 Military Standards:⁴

MIL-STD-209 Slings and Tiedown Provisions for Lifting and Tying Down Military Equipment

MIL-STD-810 Environmental Test Methods and Engineering Guidelines

MIL-STD-1366 Transportability Criteria

MIL-C-53072 Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection

2.5 Military Handbook:⁴

MIL-HDBK-1791 Designing for Internal Aerial Delivery in Fixed Winged Aircraft

2.6 ACGIH Documents:⁵

Threshold Limit Values

2.7 Drawings:⁶

17-1-8565 Extension Kit, Pintle

17-1-8584 Mounting Kit Shelter To HMMWV

17-2-0035 Interface Control Drawing for, Shelter, Electrical Equipment, Lightweight, Types I and III

13228E1639 Standard Camouflage, Pattern For Shelter, Lightweight, Multipurpose

3. General Requirements

3.1 *First Article*—When specified (see 6.3), a sample shall be subjected to first article inspection in accordance with 4.1.1. A first article is defined as a preproduction or an initial production sample consisting of one or more of each type of completed shelters.

³ Available from SAE International (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001, <http://www.sae.org>.

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

⁵ Available from American Conference of Governmental Industrial Hygienists, Inc. (ACGIH), 1330 Kemper Meadow Dr., Cincinnati, OH 45240, <http://www.acgih.org>.

⁶ Available from Shelter Technology, Engineering & Fabrication Directorate, U.S. Army Natick Soldier RD&E Center, ATTN: RDNS-ST, Kansas Street, Natick, MA 01760-5018, <http://www.natick.army.mil>.