



Provisional Standard Specification for Shelter, Electrical Equipment, Lightweight¹

This provisional standard is issued under the fixed designation PS 138; the number immediately following the designation indicates the year of original adoption.

1. Scope

1.1 This document covers two types of lightweight electrical equipment shelters designed for transport on both the 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 the standard. The values given in parenthesis are for information only.

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.*

1.5 Provisional standards² achieve limited consensus through approval of the sponsoring committee.

2. Referenced Documents

2.1 ASTM Standards:

E 1851 Test Method for Electromagnetic Shielding Effectiveness of Durable Rigid Wall Relocatable Structures³

E 1925 Specification for Engineering and Design Criteria for Rigid Wall Relocatable Structures³

2.2 Commercial Standard:

SAE-AS8090 Equipment, Towed Aerospace Ground, Mobility⁴

2.3 Federal Standard:

FED-STD-595 Colors Used in Government Procurement

2.4 Military Standards:

MIL-STD-209 Slings and Tiedown Provisions for Lifting and Tying Down Military Equipment⁵

MIL-STD-810 Environmental Test Methods and Engineering Guidelines⁵

MIL-STD-1366 Transportability Criteria⁵

MIL-C-53072 Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection⁵

2.5 Military Handbook:

MIL-HDBK-1791 Designing for Internal Aerial Delivery in Fixed Winged Aircraft⁵

2.6 The American Conference of Governmental Industrial Hygienists (ACGIH):

Threshold Limit Values⁶

2.7 Drawings:

17-1-8565 Extension Kit, Pintle⁷

17-1-8584 Mounting Kit Shelter To HMMWV⁷

17-2-0035 Interface Control Drawing for, Shelter, Electrical Equipment, Lightweight, Types I and III⁷

13228E1639 Standard Camouflage, Pattern For Shelter, Lightweight, Multipurpose⁷

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.

3.2 Physical Performance Requirements:

3.2.1 *Weight and Payload*—The shelter weight and payload capacity of each shelter type shall be as listed in Table 1. The maximum shelter weight listed does not include the weight of the Mounting Kit and Pintle Extension and their attaching hardware. The shelter shall be capable of accepting the payload distribution specified in the contract or purchase order (see 6.2). The Contractor shall fashion an appropriate simulated payload design to be used for all testing. This payload design shall be approved by the procuring agency prior to its use in any test.

¹ This provisional 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. Current edition approved July 10, 2003. Published August 2003.

² Provisional standards exist for two years subsequent to the approval date.

³ *Annual Book of ASTM Standards*, Vol 04.11.

⁴ Available from Society of Automotive Engineers (SAE), 400 Commonwealth Dr., Warrendale, PA 15096-0001.

⁵ Available from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

⁶ Available from the ACGIH, 1014 Broadway, Cincinnati, OH 45202.

⁷ Available from U.S. Army Soldier Systems Center-Natick, ATTN: AMSSB-RCP-C (N), Natick, MA 01760-5018.