



Standard Test Method for Weighing a Backpacking or Mountaineering Tent¹

This standard is issued under the fixed designation F 1934; 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 approval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

1. Scope

1.1 This test method covers requirements for weighing and marking tents for use in the sports of backpacking and mountaineering.

1.2 This standard may contain test methods that do not entirely simulate real life situations. The test methods are designed to give reproducible results in a laboratory and, thereby, a means for product comparison.

1.3 *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 limitations prior to use.*

1.4 The values stated in SI units are to be regarded as the standard. Inch-pound units appearing in parentheses are for information only.

2. Referenced Documents

- 2.1 *ASTM Standards:*
E 4 Practice for Load Verification of Testing Machines²

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

3.1.1 *minimum tent weight, n*—the combined weight of the tent body, tent fly (if applicable), and tent poles.

3.1.2 *packaged tent weight, n*—the weight of the tent package as it is for sale to a customer, including the tent body, fly, and poles, as well as any other items that may be included, such as: tent stakes, seam sealers, guy lines, instructions, stuff sack, etc.

3.1.3 *tent, n*—a portable shelter made primarily of fabric weighing less than 102 g/m² (3 oz/y²), designed to be carried by the occupants while backpacking or mountaineering.

4. Summary of Test Method

4.1 Representative samples of tents are weighed on a calibrated scale. If a prototype tent is used for testing the results must state that a prototype was used.

5. Significance and Use

5.1 The minimum and packaged weight of a tent are properties used by consumers to evaluate tents. The weight may also be used for specifications, manufacturing standards, and quality control.

6. Apparatus

- 6.1 *Calibrated Scale*, within the weight range of the tent.

7. Sampling, Test Specimens, and Test Units

7.1 Tent test specimens shall be new and in unused condition, selected randomly from a production lot of a given model of tent. They shall conform in all respects to the manufacturer's specifications for the model to be tested. A quantity of five tents is required.

8. Calibration and Standardization

8.1 Test equipment is to be in compliance with Practices E 4 and other requirements specific to the equipment.

9. Conditioning

9.1 Tests may be completed under ambient conditions. In cases of dispute, test samples shall be conditioned in accordance with 9.2.

9.2 Erect and dry the tent samples in an atmosphere with a relative humidity of <10 % for a minimum of 24 h; then, place the tent samples in an atmosphere of 50 ± 5 % relative humidity, 20 ± 2°C for a minimum of 72 h. Tests may then be done outside the conditioning room, but the temperature shall be 23 ± 5°C, the tests shall begin within 5 min of removal from conditioning, and be completed within 4 h.

10. Procedure

10.1 *Minimum Tent Weight*—Place the tent body, rain fly (if provided), and poles on the calibrated scale. Record the average of the five tents weighed to the nearest gram.

10.2 *Packaged Tent Weight*—Place the individual tent, complete with all accessories and packaging as sold, on a calibrated scale. Record the average of the five tents weighed to the nearest gram. Also record complete list of items and quantities.

¹ This test method is under the jurisdiction of ASTM Committee F-8 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.22 on Camping Softgoods.

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² *Annual Book of ASTM Standards*, Vol 03.01.