Designation: F 2120 – 01

An American National Standard

Standard Practice for Testing Treestand Load Capacity[1]

This standard is issued under the fixed designation F 2120; 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 practice provides guidance for testing the load capacity of treestands.

1.2 The values stated are in inch-pound units and are to be regarded as the standard.

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.*

2. Referenced Documents

2.1 *ASTM Standards:*

F 2125 Test Method for Treestand Static Stability[2]

F 2126 Test Method for Treestand Static Load Capacity[2]

F 2127 Test Method for Treestand Adherence[2]

F 2128 Test Method for Treestand Repetitive Loading Capability[2]

3. Terminology

3.1 The terminology and definitions in the referenced documents are applicable to this practice.

3.2 *Definitions:*

3.2.1 *backbar*—the adjustable component of a climbing treestand or handclimber that engages the tree to provide support.

3.2.2 *climbing treestand*—a treestand that provides both the means to ascend the tree, and allow the user to remain at a desired elevation.

3.2.3 *handclimber, or climbing aid*—a device to assist climbing with a climbing treestand. A structure that allows the user to support his weight when lifting a climbing treestand with his legs.

3.2.4 *non-climbing, fixed position or hang-on treestand*—a treestand that is secured to the tree at the elevation where it is used. (The user usually ascends the tree by some means and then lifts the treestand to the desired position and secures it for use.)

3.2.5 *platform*—the horizontal structural area of a treestand on which the user stands and/or places his feet.

3.2.6 *treestand*—a device designed to be affixed to a tree or its branches so as to permit an individual to sit or stand thereon for the purpose of attaining an elevated position from which to observe, photograph or hunt.

4. Summary of Practice

4.1 This practice provides guidelines for the selection of tests for the evaluation of the load capacity of treestands in accordance with manufacturer's capacity rating, particularly for quality assurance and adequacy of safety factors including:

NOTE 1—4.1.2 and 4.1.3 may be combined into a single test.

4.1.1 Static load test.

4.1.2 Stability test.

4.1.3 Adherence test.

4.1.4 Repetitive loading test.

NOTE 2—Climbing treestands only.

4.1.5 In the event of a repetitive load failure, manufacturer is to submit two additional stands for testing for final acceptance.

5. Significance and Use

5.1 This practice is provided to develop and maintain uniformity in practices for the evaluation of the load capacity of treestands, particularly with regard to quality assurance and safety factors.

5.2 It is emphasized that the use of these procedures will not alter the validity of data determined with specific test methods, but provides guidance in the interpretation of test results (valid or invalid) and guidance in the selection of a reasonable test procedure in those instances where no standard exists today.

6. Selection of Test Procedures

6.1 The following methods are recommended for individual units and situations:

6.1.1 An individual test unit of the specified model shall be selected at random.

6.1.2 The test unit shall first be visually inspected for any flaws, defects, missing parts, etc. and any discrepancies so noted. The test unit shall also be checked, and so noted, to assure that instructions are included with the unit.

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[1] This practice is under the jurisdiction of ASTM Committee F08 on Sports Equipment and Facilities and is the direct responsibility of Subcommittee F08.16 on Archery Products.

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[2] *Annual Book of ASTM Standards*, Vol 15.07.