



Designation: F3596 – 22

Standard Specification for Wakeboards—Binding Mounting Area: Requirements for Locations for Thread Inserts and Thread Size for Non-Track Systems¹

This standard is issued under the fixed designation F3596; 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 requirements for wakeboard threaded insert spacing, thread specifications, threaded insert diameter and thread engagement for non-track wakeboard binding systems.

1.2 *Units*—The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered 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, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.4 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*

2. Referenced Documents

2.1 *ISO Standard:*²

ISO 68-1 ISO general purpose screw threads—Basic profile—Part 1: Metric screw threads

3. Terminology

3.1 *Definitions of Terms Specific to This Standard:*

¹ This specification is under the jurisdiction of ASTM Committee F27 on Snow and Water Sports and is the direct responsibility of Subcommittee F27.80 on Water Sports Equipment.

Current edition approved July 1, 2022. Published August 2022. DOI: 10.1520/F3596-22.

² Available from International Organization for Standardization (ISO), ISO Central Secretariat, Chemin de Blandonnet 8, CP 401, 1214 Vernier, Geneva, Switzerland, <https://www.iso.org>.

3.1.1 *countersink depth, n*—distance from the wakeboard top surface to the first thread of the insert.

3.1.2 *insert, n*—reusable commonly threaded attachment point permanently fixed in the wakeboard at the time of manufacture that is used to mount the bindings to the wakeboard.

3.1.2.1 *Discussion*—These are typically arranged in a pattern corresponding to a particular binding manufacturer's pattern.

3.1.3 *insert well depth, i, n*—distance within the insert well from the wakeboard top surface to the unobstructed bottom clearance of the binding-insert; see Fig. 1.

3.1.4 *screw thread engagement, e, n*—number of threads engaged by a standard screw in an insert; see Fig. 1.

4. Specifications for Design of Wakeboard Insert

4.1 Inserts shall have an M6x1, 6H class internal thread with standard tolerances in accordance with ISO 68-1.

4.2 The wakeboard design shall provide, for a minimum insert well depth, *i*, of 0.25 in. (6.35 mm), a minimum screw engagement, *e*, of 3.0 threads. The length of the screw shall allow a gap between the end of the screw and the bottom of the insert. The effective threaded depth of the insert shall be at least 0.25 in. (6.35 mm).

4.3 The maximum countersink depth, *c*, shall be 0.08 in. (2.5 mm).

5. Specifications for Design of Wakeboard Insert Location

5.1 There shall be a 6 ± 0.0625 in. (152.4 ± 1.5 mm) separation (center-to-center) between threaded inserts in the fore-aft direction of the wakeboard.

6. Keywords

6.1 mounting area; thread insert; wakeboard

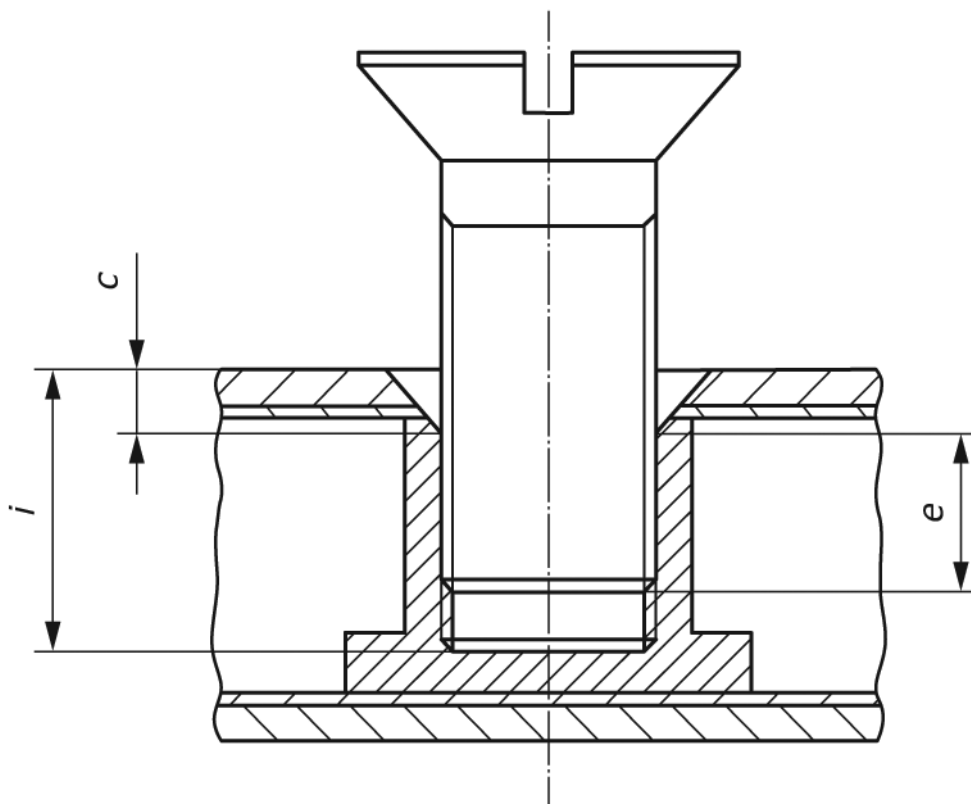


FIG. 1 Illustration of Screw Thread Engagement, Insert Well Depth, and Countersink Depth

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