



## Standard Guide for Reduction of Risk of Injury for Archery Overdraws<sup>1</sup>

This standard is issued under the fixed designation F 1363; 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 reappraisal. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reappraisal.

### 1. Scope

1.1 This guide covers the function of archery overdraws and suggests a limited number of geometric configurations that could decrease the potential risk of injury to the archer.

1.2 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. Terminology

2.1 *Definitions of Terms Specific to This Standard:*

2.1.1 *acceptable overdraw*—an acceptable configuration of an archery bow overdraw should provide partial or full containment for the arrow if the arrow becomes disengaged from the arrow rest.

2.1.2 *archery overdraw*—any design configuration, integral or added, that permits the extreme forward tip of an arrow to be drawn past the pivot point of the hand grip.

### 3. Significance and Use

3.1 This guide covers only the most obvious areas of overdraw safety.

3.2 This guide is not intended as a comprehensive analysis of the subject.

### 4. Arrow Containment

4.1 *Vertical Plane:*

4.1.1 In the vertical plane, Fig. 1 shows that increasing levels of arrow enclosure will provide increasing levels of arrow containment.

4.1.2 A higher degree of arrow containment may be achieved by the position in Fig. 1(D) than by that in Fig. 1(A).

4.2 *Horizontal Plane:*

4.2.1 It must be recognized that an arrow can be drawn past the support of the arrow rest, regardless of the type of bow and whether or not it has an overdraw. This condition is dependent on the length of the arrow and lies entirely within the control

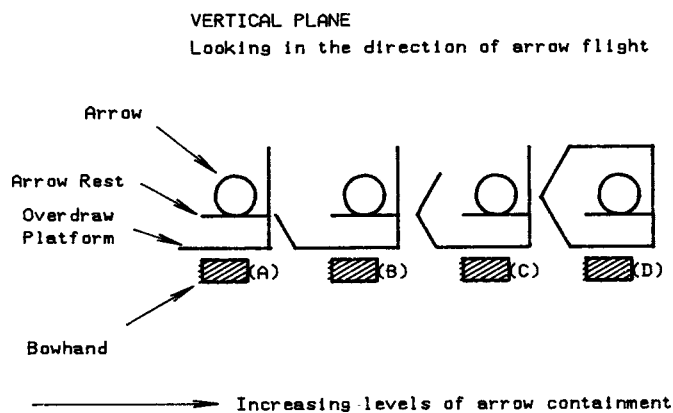


FIG. 1 Increasing Levels of Arrow Containment, Vertical Plane

of the individual archer. The length of the arrow must be selected so that the arrow will not be drawn past the arrow rest. It is generally possible, within functional limits, to provide some hardware design to further guard against the possible hazard from negligence on the part of the user.

4.2.2 The location of the arrow rest in relation to the aft end of overdraw is shown in Fig. 2.

4.2.3 An arrow rest placed at the extreme aft end of the overdraw (Fig. 2(C)) may allow the arrow to fall off the rest if an archer draws past his or her draw length.

4.2.4 The arrow rest location at the forward end of the platform is shown in Fig. 2(A). In this location the arrow disengagement from the rest should be contained by the platform to a greater degree than in Fig. 2(C).

4.3 *Arrow Containment Methods Without Full Enclosure of the Arrow:*

4.3.1 A relatively wide horizontal plate extending beyond the wrist and knuckles of the bow hand may provide adequate arrow containment if the arrow disengages from the rest (Fig. 3).

4.3.2 A relatively high vertical plate left of the arrow (for a right-handed archer) may provide adequate containment for an arrow raised upward from the arrow rest (Fig. 4).

4.3.3 It should be noted that most overdraw designs are a combination of Figs. 3 and 4 to some extent, and they provide various degrees of arrow containment.

### 5. Suggested Guidelines

5.1 *Vertical Plane:*

<sup>1</sup> This guide 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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