

ANSI/OPEI B71.4-2012

American National Standard

*for Commercial Turf Care Equipment –
Safety Specifications*



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ANSI/OPEI B71.4-2012

Revision and redesignation of
ANSI B71.4-2004

American National Standard
for Commercial Turf Care Equipment –
Safety Specifications

Sponsor

Outdoor Power Equipment Institute (OPEI)

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American National Standards Institute, Inc.

American National Standard

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Foreword (This foreword is not part of American National Standard ANSI/OPEI B71.4-2012.)

This standard is a revision and redesignation of American National Standard for Commercial Turf Care Equipment - Safety Specifications, ANSI B71.4-2004. The first edition of this standard was approved and published by the American National Standards Institute in 1980. It has been revised five times since initial publication, including this revision.

The present revision was prepared by the Outdoor Power Equipment Institute (OPEI) Subcommittee on Commercial Turf Care Equipment as part of OPEI's continuing work on standards.

The effective implementation date of this standard shall be two (2) years after the approval date and shall apply to all products built after that date. Manufacturers may also certify to this standard anytime after the approval date.

A summary of the principal changes included in this revision is as follows:

- Changed format of standard to harmonize with ANSI B71.1
- Broadened scope of ROPS requirements for ride-on machines
- Removed lateral upset test
- Added specific force for guards used as steps
- Changed stability test to last tire off for lift-off
- Hot surface requirements revised to use ISO cones
- Revised guarding requirements for operator location and rotating engine screens

Consensus for this standard was achieved by the use of the Canvass Method. There are three annexes in this standard. Annexes A, B, and C are informative and are not considered part of this standard.

Suggestions for improvement of the standard will be welcome. They should be sent to the Outdoor Power Equipment Institute, 341 South Patrick Street, Alexandria, VA 22314 or www.opei.org.

The following organizations recognized as having an interest in the standardization of safety requirements for power lawn mowers, land and garden tractors, and lawn tractors were contacted prior to the approval of this revision of the standard. Inclusion in the list does not necessarily imply that the organization concurred with the submittal of the proposal to ANSI.

Alamo Group
Ariens Company
American Society of Agricultural and Biological Engineers (ASABE)
Brickman Group, LTD.
Briggs & Stratton Corporation
Christopherson, Herman P. (independent consultant)
Consumers Union
Consumer Product Safety Commission (CPSC)
Gruenberger, Lawrence M. (independent consultant)
Husqvarna
Kubota Tractor Corporation
MTD Products, Inc.
Scag Power Equipment, Inc.
SGS Consumer Testing Services
Underwriters Laboratories Inc. (UL)
ValleyCrest Landscape Companies

American National Standard

for Commercial Turf Care Equipment – Safety Specifications

Part I General

1 Scope

The safety specifications given in this standard are for powered (a) pedestrian-controlled machines, (b) ride-on machines and (c) implements for use with pedestrian and ride-on machines intended for marketing as commercial turf care equipment and that are customarily used by hired operators. Equipment covered may consist of two or more components that are functionally connected and may be produced by different manufacturers. Specific requirements are established in the standard for reel, rotary, and flail mowers as well as power rakes because of their prevalence, but this standard is intended to apply to all types of commercial turf care equipment. Each functional component shall conform to each section of this standard as it logically applies. Additionally, this standard applies to all aftermarket parts, attachments and accessories. Any manufacturer of aftermarket parts, attachments, implements, and accessories is responsible for ensuring compliance to this standard. Safety specifications in this standard apply only to a configuration of attachments, implements, and accessories approved by their respective manufacturers.

These specifications are not intended to apply to:

- turf care equipment that is designed primarily for personal use by a consumer in or around a permanent or temporary household or residence;
- equipment that is designed primarily for agricultural purposes; and
- equipment that is designed primarily for cutting grass and other growth on highways and is designed for operation with agricultural/industrial tractors.

The effective implementation date of this standard shall be two (2) years after the approval date and shall apply to all products built after that date. Manufacturers may also certify to this standard anytime after the approval date.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this American National Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this American National Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ANSI Z535.4-2007, *Product safety signs and labels*

ANSI/ASAE S279.14-JUL2008, *Lighting and marking of agricultural equipment on highways*¹

ANSI/SAE J517-OCT2007, *Hydraulic hose*

ANSI/SAE J1163-DEC2006, *Determining seat index point*

ANSI/SAE J1362-JAN2007, *Graphical symbols for operator controls and displays on off-road self-propelled work machines*

¹ ANSI standards available from the American National Standards Institute, 25 West 43rd St., New York, NY 10036; (212) 642-4900; www.ansi.org