

ANSI B71.4-2004

# American National Standard

*for Commercial Turf Care Equipment –  
Safety Specifications*

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**ANSI B71.4-2004**  
Revision and redesignation  
of ANSI/OPEI B71.4-1999

American National Standard  
for Commercial Turf Care Equipment -  
Safety Specifications

Secretariat  
**Outdoor Power Equipment Institute, Inc.**

Approved February 24, 2004  
**American National Standards Institute, Inc.**

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**Foreword** (This foreword is not part of American National Standard ANSI B71.4-2004.)

This standard is a revision of *American National Standard for Commercial Turf Care Equipment - Safety Specifications*, ANSI/OPEI B71.4-1999. The first edition of this standard was approved and published by the American National Standards Institute in 1980. It has been revised four 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.

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

- Addition of definition and requirements for Stand-on Machines and Sulky units
- Changes to the temperature requirements for hot surfaces
- Changes to the safety sign requirements to allow for no-text signs
- Addition of stability requirements for machines with grass catchers
- Harmonization of pressurized components requirements with ISO Standards
- Changed stability requirements for zero-turn machines with ROPS
- Harmonization of thrown objects text criteria with ISO/CEN standards

Consensus for this standard was achieved by the use of the Canvass Method.

There are four annexes in this standard. Annexes A, B, C, and D 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.

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.

American Consulting  
American Nursery & Landscape  
American Society of Agricultural Engineers  
Deere & Company  
McCanse Consulting  
SGS US Testing Company, Inc.  
Texas Tech University  
Textron Golf, Turf & Specialty  
The Toro Company  
Underwriters Laboratories, Inc.

## American National Standard

# for Commercial Turf Care Equipment – Safety Specifications

## 1 Scope

The safety specifications in this standard apply to powered pedestrian-controlled, towed, 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. 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 provided by the original equipment manufacturer and others. Any manufacturer of aftermarket parts, attachments and accessories is responsible for ensuring compliance to this standard.

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.

## 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 Z535.4-2002, *Product safety signs and labels*

ANSI/ASAE S279.10-OCT98, *Lighting and marking of agricultural equipment on highways*

ANSI/SAE J517-FEB98, *Hydraulic hose*

ANSI/SAE J1163-AUG97 (RMAY00), *Determining seat point index*

ANSI/SAE J1362-JUL97, *Graphical symbols for operator controls and displays on off-road self-propelled work machines*

ANSI/UL 73-1998, *Standard for safety for motor-operated appliances*

ASAE S217.11-DEC91, *Three-point free-link hitch attachment of implements to agricultural wheeled tractors*<sup>1)</sup>

ASAE S278.6-DEC84, *Attachment of implements to agricultural wheel tractors equipped with quick attaching coupler for three-point free-link hitch*

ASAE S318.11-MAR95, *Safety for agricultural field equipment*

<sup>1)</sup> ASAE standards are available from the American Society of Agricultural Engineers, 2950 Niles Road, St. Joseph, MI 49085-9569.