

ANSI/ISEA

110-2009

American National Standard
For Air-Purifying Respiratory
Protective Smoke Escape Devices

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**American National Standard for
Air-Purifying Respiratory Protective Smoke Escape Devices**

Secretariat

International Safety Equipment Association

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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/ISEA 110-2009)

The Respiratory Protective Escape Devices (RPED) Group of the International Safety Equipment Association has developed this standard to provide design guidance in the form of a detailed set of performance requirements and testing procedures for manufacturers of hooded air-purifying respiratory protective smoke escape devices (ARPED or RPED). Such devices are intended to be used by persons escaping from fire-generated products of combustion. RPEDs provide head, eye, and respiratory protection from particulate matter, eye irritants, carbon monoxide, and other toxic gases commonly produced by fire.

This revision updates methodologies and procedures to provide criteria that will allow testing laboratories to generate reproducible results, while at the same time removing restrictive language that could impede the testing process. In consultation with testing laboratories, the Consumer Products Safety Commission and the NIOSH National Personal Protective Technologies Laboratory, the revision includes language to ensure that user needs are being met with the addition of criteria for ocular leakage, changes in sizing parameters based on current anthropomorphic studies and to give consideration to current and emerging technologies in RPED product development.

Suggestions for the improvement of this standard are welcome. They should be sent to the ISEA, 1901 N. Moore Street, Suite 808, Arlington, VA 22209 or by email to isea@safetysafetyequipment.org.

This standard was processed and approved using consensus procedures prescribed by the American National Standards Institute. The following organizations were contacted prior to the approval of this standard. Inclusion in this list does not necessarily imply that the organization concurred with the submittal of the proposed standard to ANSI.

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