



Standard Guide for Personal Protective Equipment for the Handling of Flat Glass¹

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1. Scope

1.1 This guide covers the minimum requirements for proper personal protective equipment (PPE) for the safe handling of flat glass.

1.2 *Purpose*—When engineering, administrative, and work practice controls are not feasible, the remaining hazard must be controlled with personal protective equipment (PPE). This guide will provide direction on what PPE should be utilized. Following this guidance will help to minimize the possibility or severity of injuries or both to personnel while working with or in the vicinity of flat glass.

1.3 Nothing in this guide shall be interpreted as requiring any action that violates any statute or requirement of any federal, state, or other regulatory agency.

1.4 This guide may be used by employers and employees. The required PPE shall be evaluated on a regular basis to determine suitability.

1.5 *Units*—The values stated in either SI units or inch-pound units are to be regarded separately as standard. The values stated in each system may not be exact equivalents; therefore, each system shall be used independently of the other. Combining values from the two systems may result in nonconformance with the standard.

1.6 *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. Referenced Documents

2.1 ASTM Standards:²

C162 Terminology of Glass and Glass Products

E1542 Terminology Relating to Occupational Health and Safety

F1494 Terminology Relating to Protective Clothing

F1790 Test Method for Measuring Cut Resistance of Materials Used in Protective Clothing

2.2 Other Standards:

ANSI/ISEA 105 American National Standard for Hand Protection Selection Criteria³

EN 388 Protective Gloves Giving Protection from Mechanical Risks⁴

3. Terminology

3.1 *Definitions*—For additional definitions and terms relating to this guide, please refer to Terminologies **C162**, **E1542**, and **F1494**.

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *flat glass, n*—general term covering glass in its annealed state, such as sheet glass, lite of glass, float glass, various forms of rolled glass, and raw products derived from glass.

3.2.1.1 *Discussion*—This definition is not intended to apply to heat-tempered or laminated glass products. With heat-tempered or laminated glass products, defer to your local risk assessment.

3.2.2 *lite, n*—another term for a pane or piece of glass. Sometimes spelled “light” in the industry literature, but spelled “lite” in this text to avoid confusion with light as in “visible light.”

4. Significance and Use

4.1 The goal of this guide is to aid in the selection of PPE for the handling of glass that will best protect the affected employee from the remaining hazards identified in the local hazard assessment process.

4.2 This guide assumes that a proper hazard assessment has been conducted, the hazards have been mitigated to the greatest extent possible by non-PPE means (engineering, administrative

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

³ Available from the International Safety Equipment Association, 1901 N. Moore St., Arlington, VA 22209-1762.

⁴ Available from American National Standards Institute (ANSI), 25 W. 43rd St., 4th Floor, New York, NY 10036, <http://www.ansi.org>.