



Head Protection



Respiratory Protection



Fire and Rescue Safety



Thermal Imaging

## ANSI Z87.1-2003 Q & A American National Standard for Occupational and Educational Eye and Face Protection

### Q. What are the significant changes in the revised standard?

A. Perhaps the most significant change affecting all eye and face protectors is the introduction of a two-level classification for impact protection. "Basic impact" lenses are tested to withstand the impact of a 1-inch ball dropped from 50 inches, plus a penetration test for plastic lenses. "High impact" lenses, and all frames, have to pass more stringent high mass and high velocity impact tests. There are changes in marking to indicate the level of impact protection. Minimum thickness requirements have been eliminated, except for non-plano lenses (2 mm).

### Q. How do these changes affect employers or employees?

A. Employers must now decide when they need basic or high impact protectors for their employees. ISEA recommends the use of only high impact protectors (Z87+) whenever eye protection is worn.

### Q. What do the markings mean?

A. The standard requires that all frames and lenses carry a manufacturer's mark or logo, as well as other markings to indicate the level of protection.



Faceshield visors are marked Z87 to indicate basic impact, or Z87+ to indicate high impact.

Other markings are "S" for special purpose lenses, and LIGHT, MEDIUM, DARK to indicate luminous transmittance of a faceshield window.

### Q. What level of classification do Bullard visors meet?

A. Bullard faceshield visors conform to ANSI Z87.1-2003 standard when used in combination with Bullard approved headgear or faceshield brackets under the following classifications by model number:

Model	Material	Classification
640	Acetate	Z87 Basic Impact Requirements
640G	Acetate	Z87 DARK Basic Impact Requirements
840M	Acetate	Z87 Basic Impact Requirements
840MH	Acetate	Z87 Basic Impact Requirements
840MX2	Acetate	Z87 Basic Impact Requirements
840MG	Acetate	Z87 DARK Basic Impact Requirements
860H	Acetate	Z87 Basic Impact Requirements
CS40	Acetate	Z87 Basic Impact Requirements
1040	Acetate	Z87 Basic Impact Requirements
840ME	Polyester	Z87 Basic Impact Requirements
680P	Polycarbonate	Z87+ High Impact Requirements
840P	Polycarbonate	Z87+ High Impact Requirements
840PX2	Polycarbonate	Z87+ High Impact Requirements
860P	Polycarbonate	Z87+ High Impact Requirements
880P	Polycarbonate	Z87+ High Impact Requirements
WS60PM	Polycarbonate	Z87+ High Impact Requirements
8S24	Mesh Screen	Z87 Basic Impact Requirements

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