



**Summary of Substantive Changes  
between the 2009 and 2014 editions of  
ANSI/ISEA Z358.1, “Emergency Eyewash and Shower Equipment”**

**Presented to the IAPMO Standards Review Committee on March 9, 2015**

**General:** The changes to this standard might have an impact on currently listed products. The substantive changes are:

- Added a new design requirement for emergency showers (see Section 4.1.5).
- Revised the maintenance requirements for self-contained units to specify that the flushing fluid level be visually checked weekly (see Sections 4.6.3, 5.5.3, 6.5.3, 7.5.3, and 8.2.4.3).
- Changed the maximum height of the flushing fluid flow pattern (see Sections 5.4.4, 6.4.4 and Illustration 9).

Section 4 Emergency Showers:

Section 4.1 Performance of Emergency Showers: Added a new design requirement for emergency showers as follows:

*4.1.5 Emergency showers shall be designed, manufactured and installed in such a manner that, once activated, they can be used without requiring the use of the operator’s hands.*

Sections 4, Emergency Showers; 5, Eyewash Equipment; 6, Eye/Face Wash Equipment; 7, Combination Units; and 8, Supplemental Equipment: Revised the maintenance requirement to include a weekly time interval for the visual check of the flushing fluid level for self-contained units as shown in the following example:

*4.6 Maintenance and Training:*

*4.6.3 Self-contained emergency showers shall be visually checked weekly to determine if flushing fluid needs to be changed or supplemented. Such inspection shall be conducted in accordance with manufacturer’s instructions.*

Section 5.4, Installation: Removed the additional location requirement for eyewash equipment for strong acid or strong caustic acid hazard as follows:

*5.4.2 Be in accessible locations that require no more than 10 seconds to reach. The eyewash shall be located on the same level as the hazard and the path of travel shall be free of obstructions that may inhibit its immediate use. ~~For a strong acid or strong caustic, the eyewash should be immediately adjacent to the hazard.~~ (See Appendix B5)*



Sections 5, Eyewash Equipment; and 6, Eye/Face Wash Equipment: Changed the maximum height of the flushing fluid flow pattern from 114.3 cm (45 in.) to 134.6 cm (53 in.) as shown in the following example:

#### 6.4 Installation

6.4.4 Be ~~positioned with~~arranged such that the flushing fluid flow ~~nozzles~~pattern as described in Section 5.1.8 is not less than 83.8 cm (33 in.) and no greater than ~~114.3 cm (45 in.)~~134.6 cm (53 in.) from the surface on which the user stands and 15.3 cm (6 in.) minimum from the wall or the nearest obstruction.

Figures:

Illustration 5, Non-Pressurized Self-Contained Eyewash: Added additional examples of self-contained eyewash units.

Illustration 9, Combination Unit: Changed the maximum height of the flushing fluid flow pattern from 114.3 cm (45 in.) to 134.6 cm (53 in.)

Illustration 10, Personal Wash Units: Added an additional example of a personal wash unit.