

REQUEST FOR QUOTE

Title:	ANSI/ISEA Z358.1 Drench Shower Performance Review
Requester:	<p>International Safety Equipment Association (ISEA) 1901 N. Moore Street, Suite 808 Arlington, VA 22209 <i>Point of Contact</i> Cristine Fargo, Vice President, Operations & Technical Services Phone: 703-525-1695 cfargo@safetysafetyequipment.org</p>
Project Objective:	<p>The International Safety Equipment Association (ISEA) would like to conduct research on the current requirements in the ANSI/ISEA Z358.1 standard, specific to emergency showers (drench showers). Such data will be used to guide the association on the proper performance requirements drench showers.</p>
Specific Project Scope	<p>Reference documents ANSI/ISEA Z358.1-2014, <i>American National Standard for Emergency Eyewash and Shower Equipment</i></p> <p>ISEA Emergency Eyewash and Shower Equipment Selection, Installation and Use Guide</p> <p>Project shall be limited only to evaluation of Section 4.1 of ANSI/ISEA Z358.1-2014</p> <ol style="list-style-type: none"> 1. Evaluate the performance requirements of drench showers in section 4.1 of the ANSI/ISEA Z358.1-2014 standard to ensure these measures are suitable for rinsing hazardous materials from a victim's body. <p>Validate the following subsections of ANSI/ISEA Z358.1-2014 or provide recommendations for improvement if required.</p> <ol style="list-style-type: none"> a. §4.1.2 Flushing fluid at a minimum of 75.7 liters per minute (20 gpm) for 15 minutes b. §4.1.3 Flushing fluid column at least 208.3 cm (82 in.) and not more than 243.8 cm (96 in.) from surface on which user stands c. §4.1.4 Spray pattern minimum diameter 50.8 cm (20 in.) at 152.4 cm (60 in.) above surface on which user stands d. §4.1.4 Center of spray pattern at least 40.6 cm (16 in.) from obstruction

	<ol style="list-style-type: none"> 2. Define the following subsections of ANIS/ISEA Z358.1-2014 for which quantifiable parameters are not currently provide and which require additional performance detail. <ol style="list-style-type: none"> a. §4.1.1 Flushing fluid velocity low enough to be non-injurious to the user b. §4.1.4 Flushing fluid substantially dispersed throughout the pattern 3. Provide evidence, data, or research findings to substantiate any recommendations or new definitions 4. Consider actions the user can perform to most effectively use the drench shower.
Deliverables	<p>A detailed report shall be provided that includes the following:</p> <ol style="list-style-type: none"> 1. Description of methodology used and data results that either support the subsections of ANSI/ISEA Z358.1-2014; or provide new data that supports a recommended change for any of these sub-sections in ANSI/ISEA Z358.1 – 4.1 (1a – 1d in project scope as described above) 2. Recommendations with supporting data that would better define subsections of ANSI/ISEA Z358.1 – 4.1 that are ambiguous. (2a –2b in project scope as described above) 3. Recommendation on actions the user can perform to effectively use the drench shower.
Key Dates:	<p>Written quote, project timeline and date for delivery of final product should be sent to ISEA by October 15, 2019.</p>
Ownership:	<p>The project information will be the ownership of the ISEA and cannot be reprinted in part or whole without the approval of the ISEA.</p>