

## 6.2.6 Prescription Lens Mounting Qualification

For each type of lens retention system offered for sale, one set of 10 complete devices shall be tested. (6) High Velocity (4) High Mass (Sec. 9.11.3.1 Lens minimum thickness 2.0mm +0.2mm - 0.0mm thick at their thinnest point, and have plano power.)

For each lens retention system being qualified, one lens/coating combination (that has previously passed the Lens Material Qualification) shall be tested to the requirements of 6.2.6 –Prescription Lens Mounting Qualification. (10 frames are needed for each lens retention system being qualified)

### Lens retention systems are:

- Full rim eyewire frames that require bevel designs like a “safety V bevel and other lens bevels” for metal frames.
- Full rim eyewire frames that require bevel designs like a “safety V bevel and other lens bevels” for plastic frames.
- Grooved metal frame style (T-Eyewire)
- Grooved semi rimless with half metal rim and suspension cord mountings
- Three-piece rimless drill mount
- Any mounting that is configured differently than described above to secure the lens and that is design/process dependent such that it requires a different lens beveling process or mounting technique.

**Note:** All frames shall have the sideshields installed before sending them in for qualification testing.

### **\*All frames must meet section 5.2.5 Minimum Coverage Area**

The eyewire and lens shall cover in plane view an area of not less than 40 mm (1.57 in.) in width and 33 mm (1.30 in.) in height (elliptical) in front of each eye, centered on the geometrical center of the lens.

### **Frame Information:**

Frame manufacturers marking product with Z87-2+ must be able to show compliance to the following sections of the standard:

- 5.2 Physical Requirements
- 5.2.1 Drop Ball Impact Resistance
- 5.2.3 Ignition
- 5.2.4 Corrosion Resistance of Metal Components
- 5.2.5 Minimum Coverage Area
- 5.4 Markings
- 5.5.4 Frames for Replaceable or Removable Lenses
- 6.1.3 Lateral (Side) Coverage
- 6.2.2 High Mass Impact
- 6.2.3 High Velocity Impact
- 6.2.6 Prescription Lens Mounting Qualification

***\*Section 2.3.5 of ANSI Z87.1 – 2010 states: “The protector manufacturer shall provide test results to the purchaser upon request”.***

**ANSI Z87.1 – 2010 Rx Lens Mounting Qualification Form**



Company (To appear on report)	
Contact (To appear on report)	
Address	
Email	
Phone	
PO Number/Credit Card Number	

For each type of lens retention system offered for sale, one set of 10 complete devices (frames, lenses and appropriate coatings) shall be tested. Six (6) samples for high velocity and four (4) samples for high mass will be tested.

Lenses used must have previously passed the Material Qualification Requirements prior to mounting and testing for Lens Mounting Qualification.

All lenses mounted in frames must be 2.0 – 2.2 mm thick **at the thinnest point.**

<b>Frame Types</b>			
<b><i>Metal Frame Full Rim Eyewires</i></b>			
Frame Mfg		Frame Model	
<b><i>Plastic Frame Full Rim Eyewires</i></b>			
Frame Mfg		Frame Model	
<b><i>Grooved Metal Frame Style (T-Eyewire)</i></b>			
Frame Mfg		Frame Model	
<b><i>Grooved Semi-Rimless with Metal Rim &amp; Suspension Cord Mountings</i></b>			
Frame Mfg		Frame Model	
<b><i>Three-Piece Rimless Drill Mount</i></b>			
Frame Mfg		Frame Model	
<b><i>Any Other Mounting System Different Than Above (Specify System):</i></b>			
Frame Mfg		Frame Model	

**Note: This type testing shall be performed when any substantive change in production occurs that could affect the ability of the device to pass the tests.**

**Other Comments/Special Instructions:**

Sample Disposition: Return All Samples    Return Failed Samples    Destroy Samples

Report Type: Electronic (pdf File)    Hard Copy (\$35 Charge per Report)