# MSA Declaration of Conformity

In Accordance with ANSI/ISEA 125-2014.

IAC-03-008 - Z04  Rev 1

**Statement of Conformity:** MSA declares that the V-Gard® Arc Visors is in conformity with the requirements of ANSI/ISEA Z87.1-2010

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Model / Part Numbers Covered</th>
</tr>
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<tbody>
<tr>
<td>IAC-03-008</td>
<td>10115847, 10118480</td>
</tr>
</tbody>
</table>

These arc visors meet the requirements of ASTM F2178-12 (ref. NFPA 70E-2015, PPE Category 2) when worn in combination with the following V-Gard Frames, Helmets, and Chin Protectors: MSA Part Numbers: 10121266, 10121267, 10121268, 10116627, 10116628, 10124426, 10115730, 10115821, 10115822, 10116552, 10154604, 10154622, 10115827, 10115828 and V-Gard Cap (Med) (475358), Smoothdome (10074067), Topgard Cap (475385), and V-Gard Hat (475369) as applicable.

**ANSI/ISEA 125-2014 conformity assessment method:**

- [x] Level 1
- [x] Level 2

For Level 2, information about ISO 17025-accredited facility in which the product was tested:

- [x] The test facility is an independent 3rd Party

- [ ] The test facility is owned or partially owned by an entity within supplier's corporate structure, or within the manufacturing stream for this product, including subcontractors

<table>
<thead>
<tr>
<th>Report</th>
<th>Test Facility Used</th>
<th>Test Facility Document #</th>
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<tbody>
<tr>
<td>1</td>
<td>Intertek</td>
<td>G100617274CRT-009</td>
</tr>
<tr>
<td>2</td>
<td>MSA - Internal Lab</td>
<td>Slotted Hat Frame CTQ Scorecard</td>
</tr>
<tr>
<td>3</td>
<td>Intertek</td>
<td>G102116388CRT-037</td>
</tr>
</tbody>
</table>

For additional information about this product(s), please contact MSA Customer Service at 1-800-MSA-2222. When requesting information, please reference model number(s).

Quality Assurance: [Signature]

Date: 1/27/2016
## Performance Details

**Revision 1**

<table>
<thead>
<tr>
<th>Report</th>
<th>Standard and Product Requirements</th>
<th>Results</th>
<th>Pass / Fail</th>
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</table>
| 5.1.1 (9.1) | Optical Quality  
Lenses shall be free of stræe, bubbles, waves, and other visible defects which would impair their optical quality | No defects                                                             | Pass        |
| 5.1.4 (9.4, 9.5) | Refractive Power, Astigmatism, Resolving Power, Prism and Prism Imbalance for Pano Protectors  
For faceshield windows,  
Resolving power = Pattern 20  
Prism ≤ 0.37Δ  
Vertical Imbalance ≤ 0.37Δ  
Base-In Imbalance ≤ 0.125Δ  
Base-Out Imbalance ≤ 0.75Δ | Resolving power = Pattern 20  
Prism ≤ 0.37Δ  
Vertical Imbalance ≤ 0.37Δ  
Base-In Imbalance ≤ 0.125Δ  
Base-Out Imbalance ≤ 0.75Δ | Pass        |
| 5.2.3 (9.7) | Ignition  
Protectors shall not ignite or continue to glow once the heated rod is removed | No ignition or afterglow                                                 | Pass        |
| 6.1.3 (9.10) | Lateral (Side) Coverage  
Impact-rated protectors shall provide continuous lateral coverage (i.e no openings greater than 1.5 mm in diameter) from the edge of the lens to a point not less than 10 mm posterior to the corneal plane and not less than 10 mm above or below the horizontal plane centered on the eyes of the headform | Continuous coverage                                                   | Pass        |
| 6.2.2 (9.11) | High Mass Impact  
The complete device shall be capable of resisting an impact from a pointed projectile. A complete device shall fail if any of the following occurs, piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained | No fracture, penetration, etc                                           | Pass        |
| 6.2.3 (9.12) | High Velocity Impact  
The complete device shall be capable of resisting impact from a 6.35 mm diameter steel ball travelling at 91 44 m/s. No contact with the eye of the headform is permitted as a result of the impact. A complete device shall fail if any of the following occurs, piece fully detached from inner surface, fracture, penetration of the rear surface, lens not retained, the unaided eye observes any piece adhering to the contact paste, or observes contact paste on the projectile or device | No fracture, penetration, contact with the eye, etc                    | Pass        |
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<th>Description</th>
<th>Result</th>
</tr>
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| 6.2.4  (9.13) | Penetration Test  
Lenses for all complete devices shall be capable of resisting penetration by a weighted needle. A complete device shall fail if any of the following occurs: piece fully detached from inner surface, fracture, penetration of rear surface, lens not retained | No penetration | Pass |
| 7.1.2  (9.2) | Transmittance of Clear and Filter Lenses  
Plano and prescription lenses shall comply with Tables 6-10 of ANSI Z87.1-2010, and the notes that follow in the standard for clear and filter lenses. They shall be marked per Table 4a of the standard. Clear lenses shall have a luminous transmission of not less than 85% | Meets L1, 7 and U6 requirements | Pass |
| 7.1.5  (9.2) | Variations in Luminous Transmittance  
The ratio of two measured transmittances shall not be less than 0.90 nor more than 1.11 | No fracture, penetration, contact with the eye, etc | Pass |
| 8.1.2  (9.16.2) | Droplet and Splash (Faceshields)  
The laser beam shall not make direct contact with any point on the eye-region rectangle without first being intercepted by the faceshield | Laser beam intercepted by faceshield before contact within the eye-region rectangle | Pass |