Technical User Guide for Oberon ArcShield Faceshields
Applicable for all Standard and Deluxe Models

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Jim Pollard
Canadian Sales Manager
Oberon Company
(519) 939-3204
jim@oberoncompany.com
Technical Specifications & Requirements

- All arc-rated faceshields shall only be used with an arc rating that is suitable for the arc flash exposure.
- ArcShield arc ratings are located on a sticker on inside of the lower crown protector. Using any Oberon ArcShield without the lower crown is strictly prohibited.
- Compliant with the current editions of ASTM F2178 and ANSI Z87.1. Arc Flash test reports are summarized within the table below. ANSI Z87.1 is superior to CSA Z94.3.
- ”True Colour” Grey Infrared (IR) faceshields compared to Green IR alternatives allow full light spectrum visibility (all colours). As a medium density filter a grey lens provides perfect colour acuity so all wire colours are visible to the worker.
- Lens constructed with Polycarbonate material providing 99.9% UV protection.
- Deluxe model sold with “Scratch-Resistant” and permanent “Anti-Fog” coatings for optimal performance.
- Wrap-around guarding to protect the face, chin, forehead, ears, and front neck area.
- High impact rated per ANSI Z87.1+ (plus symbol indicates high impact models) for maximum protection from shrapnel, projectiles and flying debris.
- Hard hats sold (designated with “CC” in the faceshield part number) with Arcshields into Canada are CSA Z94.1 Type 1 Hard Cap.
- Use only approved hard hats for mounting faceshield. Select hard hats that include ratchet style suspensions to support the weight of the faceshield when in use (engaged position)
- Requires finger type adapters to fit into slotted hard hats.
- Adapters are designed for specific hard hat models and shall not be used on non-approved hard hats. Contact Jim Pollard for a cross over list of adapter types.
- No metal or conductive parts.

Recommendations

- Use nylon or canvas storage bag w/ drawstring closure for arc-rated faceshield with hard hat attached.
- Recommend dedicating hard hat to arc-rated faceshield to avoid constant need to install before each use.
- Arc-rated faceshields or arc flash suit hoods require approved safety glasses to be worn under the faceshield or arc flash suit hood for primary eye protection.
- Safety glasses or goggles shall be antifogging, anti-scratch and antistatic with 99.9% UV protection.
- Select shields with the highest amount of visual light transmission. Obtain the ANSI Z87.1 manufacture spectral scan when comparing different models.
- CSA Z462-15 Standard does not allow for the use of arc-rated goggles. Full face protection is required. Oberon's arc-rated faceshields comply with the full intention of every applicable Standard.
ASTM F2178 Test Report Summary

<table>
<thead>
<tr>
<th>Oberon ArcShield Model</th>
<th>Arc Rating (ATPV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey</td>
<td></td>
</tr>
<tr>
<td>21AGR8AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>8.1 cal/cm²</td>
</tr>
<tr>
<td>21AGR12AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>17 cal/cm²</td>
</tr>
<tr>
<td>Green</td>
<td></td>
</tr>
<tr>
<td>21ARC4AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>4.0 cal/cm²</td>
</tr>
<tr>
<td>21ARC8AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>8.4 cal/cm²</td>
</tr>
<tr>
<td>21ARC12AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>14 cal/cm²</td>
</tr>
</tbody>
</table>

**Care, Use and Maintenance**

- Always hold faceshield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.
- Always activate anti-fog coatings before use by holding the inside of the faceshield close to your mouth and exhaling on the entire surface.
- Clean using mild soap and warm water.
- Fingerprints can be removed using a soft cloth from sunglasses or touch screens.
- Cleaning wipes used for respiratory equipment and anti-bacterial disinfectant spray can be used on the inside of the hard hat and suspension components to comply with OH&S requirements to clean and disinfect before use when sharing PPE.
- Solvents shall not be used.
- For drying, a soft lint-free cloth is the best choice.
- To avoid scratches, never use a paper towel or untreated paper.
- Never use anti-fog solutions or wipes on faceshield with anti-fog coatings. Mixing the two solutions together would be irreversible damage the faceshield.
- Store the ArcShield using an Oberon nylon or canvas storage bag.

**How to Wear (Don/Doff)**

How to Don (reverse order for doffing instructions)
1. Remove the ArcShield & Hard hat from the storage bag.
2. Perform pre-use inspection & checks.
3. Open ratchet suspension (turn counter clockwise).
4. Position the hard hat with ArcShield on top of your head.
5. Reach around your head using your hand and tighten the ratchet (turn clockwise).
6. Operate the ArcShield by holding the hard hat with one hand, and lifting or lowering the ArcShield with the other hand.

*TIP: Always hold faceshield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.*
Pre-Use Inspection & Checks

- Check the faceshield visibility, inspect for excessive scratching. If visibility is impaired or the shield is cracked or damaged remove from use (replace with appropriate lens).
- Manually adjust the shield mounting mechanism (adapters) to ensure wing nuts are firmly in place, do not over tighten or the shield won’t be able to operate correctly.
- Inspect adapters for cracks or damage, ensure fingers are locked into hard hat slots
- Check hard hat slots and inspect for cracks that could allow the adapter to slip out
- Ensure the nuts and bolts fastening a lower chin guard (double crown) are tight before use.

ArcShield Replacement Parts Diagram