

## Arc Flash Protection Accessories



### 1. Scope

This standard covers the requirements for garment accessories related to personal arc flash protection.

This standard applies to the Seattle City Light (SCL) stock numbers cited in Section 6. Arc flash suits are outside the scope of this standard.

### 2. Application

Arc flash garment accessories are worn with arc flash suits to protect employees from known arc flash hazards and maintain state and federal compliance.

Balaclavas (sock hoods), Stock No. 013236, are intended to be used in conjunction with arc flash goggle, Stock No. 013237, to result in a system that offers an Arc Thermal Performance Value (ATPV) of 27 cal/cm<sup>2</sup> (ASTM 2178 test method).

Employees must be trained prior to using arc flash suits and accessories. Contact SCL Safety, Health, and Wellness (SHaW) for details.

Detailed application and procedural information may be found in SCL Safety Standard SHW 08, Arc Flash Electrical Safety Standard.

Arc flash accessories are considered reusable.

Arc flash suits are covered in Material Standard 4013.29.

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### 3. Industry Standards

Arc flash accessories shall meet the applicable requirements of the latest revision of the following industry standards:

**ANSI Z87.1**; Practice for Occupational and Educational Eye and Face Protection

**ASTM F2178**; Standard Test Method for Determining the Arc Rating and Standard Specification for Eye or Face Protective Products

**NFPA 70E**; Standard for Electrical Safety in the Workplace

### 4. Packaging

Arc flash accessories shall be packaged to prevent damage during shipping, handling, and storage.

Each standard package shall be legibly marked with the following information:

- Manufacturer identification
- Product description
- Manufacturer catalog number
- Quantity



Each shipping container shall be marked with:


- Seattle City Light purchase order number

### 5. Issuance

Stock unit: EA

### 6. Approved Manufacturers

Stock No.	Description	Manufacturer	Part No.	
013236	Carbon Kevlar balaclava (sock hood). 6-oz., double-layer balaclava made from knit material of carbon Kevlar fiber.  Designed with a slightly longer bib for additional arc protection, as well as a contoured eyehole that can be worn over or under the nose for maximum comfort without compromising safety.	National Safety Apparel, Inc.	H62RK	
013237	Medium energy arc goggle. Fits cap-style and full-brim safety helmets.  <b>Color:</b> Black frame with blue bezel <b>Lens:</b> Optically correct dual layer lens. Outer polycarbonate lens is hard coated and the inner propionate lens is anti-fog treated. Tested to the requirements of ASTM F2178. <b>Frame:</b> Silicone. Fits over most prescription safety and sun protective spectacles. Bezel includes protective nose shield. <b>ATPV Rating:</b> Meets performance specifications of NFPA 70E-2004 @ 38 Cal/Cm <sup>2</sup> and ANSI Z87.1. Tested under ASTM F2178. <b>Weight:</b> 7.23 oz	Paulson International	Model 510-ARC-SN 38	

Stock No.	Description	Manufacturer	Part No.	
013562	PrismShield Plus balancing face shield with full-brim assembly <b>Lens material:</b> polycarbonate <b>Lens color:</b> bronze <b>Lens thickness:</b> 0.09 in <b>Specialty coatings:</b> anti-fog, anti-scratch <b>Arc Thermal Performance Value (ATPV):</b> 12 cal/cm <sup>2</sup> <b>Weight:</b> 0.95 lb <b>Dimensions:</b> 10.5 in (H) x 8 in (D) x 13.5 in (W) <b>Flashlight attachment slots:</b> 2	Honeywell/ Salisbury	AS1200FB-PP	
013238	ArcShield face shield kit for full-brim helmets. Includes Nano Particle Arc Shield, permanently attached chin protector, mounting bracket, and instructions. <b>Lens material:</b> plastic/chemical alloy <b>Arc Thermal Performance Value (ATPV):</b> 27 cal/cm <sup>2</sup> <b>Weight:</b> 13 oz <b>Lens color:</b> light green	Paulson International	ARC-S <sup>2</sup> K3-12	
013497	Face shield storage bag for arc flash gear. Cotton fleece. Dimensions: 10 in dia. x 20 in (H) Closes with pull cord tip and cord lock. "Arc Flash Protection" on front with black lettering.	Chicago Protective Apparel	SW-SB	

## 7. Tests and Test Reports

Test data that establishes compliance with the requirements of this material standard shall be provided upon request.

## 8. References

**SCL Material Standard 4013.29;** "Arc Flash Suits"

**SCL Safety Standard SHW 08;** "Arc Flash Electrical Safety Standard;" November 15, 2017

## 9. Sources

**Shipek, John;** SCL Standards Supervisor, subject matter expert, and originator of 4013.31

[www.nsamfg.com](http://www.nsamfg.com)

[www.paulson-international.com](http://www.paulson-international.com)