

Oberon is an **ISO 9001** accredited manufacturing facility and is actively involved in the **ASTM and ANSI Standards** development process as participating members on several technical committees. All of Oberon's products have been manufactured in accordance with every applicable Standard. Not only does Oberon help write these Standards, we lead by example in our research, product development, laboratory testing and manufacturing processes.

NFPA 70E and CSA Z462 Standards

The National Fire Protection Association and the Canadian Standards Association address the required elements of corporate electrical safety program, including training, engineering controls, work methods, and ultimately the personal protective apparel as the last line of defense for worker safety.

European Standards

The European Economic Area or EAA has standards for health, safety, and environmental protection. All products sold into the EAA must meet these standards and should be CE marked by the manufacturer to signify these European Standards are met.

ANSI Standards

The American National Standards Institute oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel.

ASTM Standards

The American Society of Testing and Materials (ASTM) F18 Committee has developed standards covering the manufacturing, testing, care and use of arc flash PPE. Oberon's products have been certified using the most current version of every applicable ASTM testing standard and are in compliance with the overarching performance standard, ASTM F1506.



ARC FLASH PERSONAL PROTECTION (PPE) CATEGORIES

The National Fire Protection Association (NFPA) uses four Arc Flash PPE Categories to classify ranges of arc flash hazards, and the corresponding requirements for PPE. The categories are one of the methods used in the current NFPA 70E standard to inform workers about the protection they need while working on energized equipment. CSA Z462 recently added an Arc Flash PPE Category 5 for equipment with potential incident energy levels up to 75 cal/cm².

Each category includes a minimum arc rating value for the required PPE. This value is determined by the PPE manufacturer, and indicates the protection provided by the equipment (in cal/cm²) as the point where a worker would have a 50% probability of receiving a 2nd degree skin burn.

PPE CATEGORY 1

Arc-Rated Clothing

- AR long-sleeve shirt and pants or arc-rated coverall
- AR face shield or arc flash suit hood
- AR jacket, parka, rainwear or hard hat liner

Protective Equipment

- Hard hat
- Safety glasses or safety goggles
- Hearing protection
- Heavy-duty leather gloves
- Leather footwear

Minimum Arc Rating

4 cal/cm²



PPE CATEGORY 2

Arc-Rated Clothing

- AR long-sleeve shirt and pants or arc-rated coverall
- AR rated suit hood or arc rated face shield & balaclava
- AR jacket, parka, rainwear or hard hat liner

Protective Equipment

- Hard hat
- Safety glasses or safety goggles
- Hearing protection
- Heavy-duty leather gloves
- Leather footwear

Minimum Arc Rating

8 cal/cm²



PPE CATEGORY 3

Arc-Rated Clothing

- AR long-sleeve shirt, pants, and hood or arc rated coverall and hood
- AR suit consisting of hood, coat, bib overalls, or hood and coveralls
- AR gloves
- AR jacket, parka, rainwear or hard hat liner

Protective Equipment

- Hard hat
- Safety glasses or safety goggles
- Hearing protection
- Heavy-duty leather gloves
- Leather footwear

Minimum Arc Rating

25 cal/cm²



PPE CATEGORY 4

Arc-Rated Clothing

- AR long-sleeve shirt, pants, and hood or arc-rated coverall & hood
- AR suit consisting of hood, coat, bib overalls, or hood & coveralls
- AR gloves
- AR jacket, parka, rainwear or hard hat liner

Protective Equipment

- Hard hat
- Safety glasses or safety goggles
- Hearing protection
- Heavy-duty leather gloves
- Leather footwear

Minimum Arc Rating

40 cal/cm²



PPE CATEGORY 5

Arc-Rated Clothing

- AR long-sleeve shirt, pants, and hood or arc-rated coverall & hood
- AR suit consisting of hood, coat, bib overalls, or hood & coveralls
- AR gloves
- AR jacket, parka, rainwear or hard hat liner

Protective Equipment

- Hard hat
- Safety glasses or safety goggles
- Hearing protection
- Heavy-duty leather gloves
- Leather footwear

Minimum Arc Rating

75 cal/cm²

100 cal/cm²

140 cal/cm²



**Energized electrical work over 40 cal/cm² requires an incident energy analysis to be performed. Once this analysis has been done the appropriate PPE can be selected from the chart above by matching the calculated incident energy level with the corresponding PPE.*

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