

NFPA 70E Table 130.5(G)

Selection of Arc-Rated Clothing & Other PPE When the Incident Energy Analysis Method is Used

Incident energy exposure equal to 1.2 cal/cm² up to 12 cal/cm²

1. Arc-rated clothing with an arc rating equal to or greater than the estimated incident energy^a
2. Long sleeve shirt and pants or coverall or arc flash suit (SR)
3. Arc-rated face shield and arc-rated balaclava or arc flash suit hood (SR)^b
4. Arc-rated outerwear (e.g., jacket, parka, rainwear, hard hat liner) (AN)
5. Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with leather protectors (SR)^c
6. Hard hat
7. Safety glasses or safety goggles (SR)
8. Hearing protection
9. Leather footwear

Incident energy exposures greater than 12 cal/cm²

1. Arc-rated clothing with an arc rating equal to or greater than the estimated incident energy^a
2. Long sleeve shirt and pants or coverall or arc flash suit (SR)
3. Arc flash suit hood
4. Arc-rated outerwear (e.g., jacket, parka, rainwear, hard hat liner) (AN)
5. Heavy-duty leather gloves, arc-rated gloves, or rubber insulating gloves with leather protectors (SR)^c
6. Hard hat
7. Safety glasses or safety goggles (SR)
8. Hearing protection
9. Leather footwear

SR: Selection of one group is required.

AN: As needed.

^aArc ratings can be for a single layer, such as an arc-rated shirt and pants or a coverall, or for a flash suit or a multi-layer system if tested as a combination consisting of an arc-rated shirt and pants, coverall, and arc flash suit.

^bFace shields with a wrap-around guarding to protect the face, chin, forehead, ears, and neck area are required by 130.7(C)(10)(c). Where the back of the head is inside the arc flash boundary, a balaclava or an arc flash hood shall be required for full head and neck protection.

^cRubber insulating gloves with leather protectors provide arc flash protection in addition to shock protection. Higher class rubber insulating gloves with leather protectors, due to their increased material thickness, provide increased arc flash protection.