

# HIGH VISIBILITY SAFETY APPAREL

## TYPE R CLASS 3

Must incorporate a minimum of 1240 in<sup>2</sup> of background material and 310 in<sup>2</sup> of retroreflective materials.

## TYPE R CLASS 2

Must incorporate a minimum of 775 in<sup>2</sup> of background material and 201 in<sup>2</sup> of retroreflective materials.

## TYPE O CLASS 1

Must incorporate a minimum of 217 in<sup>2</sup> of background material and 155 in<sup>2</sup> of retroreflective materials.

## CLASS E SUPPLEMENTAL

Must incorporate a minimum of 465 in<sup>2</sup> of background material and 109 in<sup>2</sup> of retroreflective materials.

**Table 1. Minimum Areas of Visible Materials**

| Garment Type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Performance Class | Background Material                          | Retroreflective or Combined-Performance Materials | Minimum Width Reflective Material |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------|---------------------------------------------------|-----------------------------------|
| Type O<br>Off-road and<br>Non-Roadway Use                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Class 1           | 217in <sup>2</sup><br>(0.14m <sup>2</sup> )  | 155in <sup>2</sup><br>(0.10m <sup>2</sup> )       | 1in. (25mm)                       |
| Type R<br>Roadway and<br>Temporary Traffic<br>Control Zones                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Class 2*          | 775in <sup>2</sup><br>(0.50m <sup>2</sup> )  | 201in <sup>2</sup><br>(0.13m <sup>2</sup> )       | 1in. (25mm)<br>1.38in. (35mm)     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Class 3**         | 1240in <sup>2</sup><br>(0.80m <sup>2</sup> ) | 310in <sup>2</sup><br>(0.20m <sup>2</sup> )       | 1in. (25mm)<br>2in. (50mm)        |
| Type P<br>Emergency<br>and Incident<br>Responders and<br>Law Enforcement<br>Personnel                                                                                                                                                                                                                                                                                                                                                                                                                                      | Class 2           | 450in <sup>2</sup><br>(0.29m <sup>2</sup> )  | 201in <sup>2</sup><br>(0.13m <sup>2</sup> )       | 1in. (25mm)<br>2in. (50mm)        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Class 3           | 775in <sup>2</sup><br>(0.50m <sup>2</sup> )  | 310in <sup>2</sup><br>(0.20m <sup>2</sup> )       | 1in. (25mm)<br>2in. (50mm)        |
| Supplemental Items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Class E           | 465in <sup>2</sup><br>(0.30m <sup>2</sup> )  | 109in <sup>2</sup><br>(0.07m <sup>2</sup> )       | 1in. (25mm)<br>2in. (50mm)        |
| <p>*For the smallest size in Type R, Class 2, a minimum of 0.35 m<sup>2</sup> (540 in<sup>2</sup>) of background material may be used to accommodate small-sized workers. All subsequent larger sizes must use 0.50 m<sup>2</sup> (775 in<sup>2</sup>).</p> <p>**For the smallest size in Type R, Class 3, a minimum of 0.65 m<sup>2</sup> (1000 in<sup>2</sup>) of background material may be used to accommodate small-sized workers. All subsequent larger sizes must use 0.80 m<sup>2</sup> (1240 in<sup>2</sup>).</p> |                   |                                              |                                                   |                                   |



**EN 343**

**EN343** is the European standard that applies to garments worn in adverse weather conditions. This standard specifies requirements and test methods applicable to the materials and seams of protective clothing against the influence of precipitation (e.g. rain, snowflakes), fog and ground humidity.



**EN 342**

**EN342** is the European standard that applies to garments worn in cold environments. This standard specifies requirements and test methods for the performance of clothing ensembles (i.e two-piece suits/coveralls) for protection against the effects of cold environments equal to or below -5°C (23°F).