

# Personal Protective Equipment (PPE) User Manual

Version 1.0

# UV BLOCKx254 by EFSEN

**UV BLOCKx254** is a series of personal protective equipment (PPE), specifically designed to protect people operating UVC disinfection lamps.

**UV BLOCKx254** is designed by renowned Danish designer Bitte Kai Rand, Copenhagen, Denmark. The clothes are light and comfortable to wear. Further, the textile has an added UV treatment that significantly enhances the degree of UVC protection, allowing people to safely operate UVC disinfection lamps.

## Product description

UV BLOCKx254 PPE is a set of protective clothes, specifically designed to protect the operator of UVC disinfection lamps against ultraviolet (UV) irradiation in the wavelength 254 nanometers. UV BLOCKx254 is the recommended PPE when operating unshielded UV units, to offer protection of the skin against harmful irradiation.

## Protection level

The product has been certified according to EN ISO 13688:2013 to block UV light in the 254 nanometers range, by PPE specialists SGS Fimko Ltd., Topeliuksenkatu 41b, FI-00250 Helsinki, Finland. Reference EU Type-Examination Certificate 0598/PPE/200853 (See last page).

## The Package

The package includes 3 units:

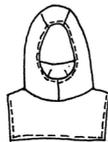
- 1 one-size apron with option to expand length
- 1 one-size hood
- 1 set of one-size, long-sleeved gloves with option to expand length



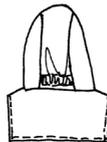
Apron Front



Apron Back



Hood Front



Hood Back



Glove Front



Glove Back

## User Instructions

For correct use of the product, please follow these instructions:

- 1 Start by putting on the apron and tighten the ribbon in a knot in front.

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**EXTEND LENGTH**

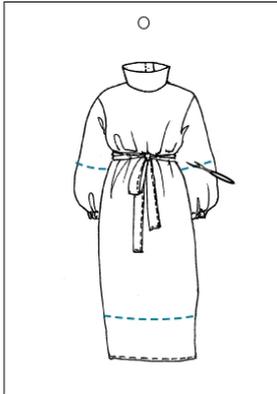
Size of garment can be adjusted to fit XS - XXL

If necessary the length of the garment can be increased.  
Inside the garment there is a blue seam which can be unstitched.

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When the seam is removed the sleeves and body length will be increased.

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**2** Put on the long-sleeved gloves next, making sure that arms are fully covered by the apron and/or the gloves. Extending length of apron and sleeves is possible, by removing the stitches illustrated on the sketch.

**3** Finally, put on the hood for protection of head and neck.

**4 NB!** Operators must also wear a protective UVC blocking faceshield when operating unshielded UVC units. UVC blocking faceshield is not provided in the UV BLOCKx254 package. Shoes, not sandals, must be worn to protect feet from UVC light. Please contact [efsen@efsen.dk](mailto:efsen@efsen.dk) regarding CE certified UVC blocking faceshields.

## Maintenance



**UV BLOCKx254**  
by **EFSEN**

Skovlytoften 5 - 2840 Holte  
[www.efsen.dk](http://www.efsen.dk) - +45 4565 0260

UV-C Protective Suit  
Model UVBlock254

**CE** EN 13688  
EN 410

Stoff/Fabric/Stoff/Tyg/Kangas/  
Tissu/Tela/Tessuto:  
70% Bomuld/Cotton/Baumwolle/  
Kantoeen/Bomull/puuwilla/  
Coton/algodón/Cotone  
30% Polyamid/Polyamide/  
Polyamid/Poliaamida/Poliamide



Designed in Denmark

Produceret i Kina/made in China/  
Gemaakt in China/Hergestellt in  
China/Producersad i Kina/Valmistettu  
Kiina/ Fabriqué En Chine/  
Hecho en China/Fatto in China

## Expiration date

There is no expiration date on wash and wear data for the UV BLOCKx254 PPE. Wash and wear may eventually lead to the need for replacement. Follow our website [www.uvcbyefsen.com](http://www.uvcbyefsen.com) for reports and wash and wear data.

## Production

The product has been manufactured by Bitte Kai Rand & Co. for EFSEN UV & EB TECHNOLOGY, [www.uvcbyefsen.com](http://www.uvcbyefsen.com)

# EU TYPE-EXAMINATION CERTIFICATE

## 0598/PPE/200853

**Product** Protective clothing against artificial UV-C radiation

**Model/Type** UV-C Protective Suit, model UVBlock 254

**Trade mark** EFSEN

**Certificate Holder / Manufacturer** Efsen UV & EB Technology A/S  
Skovlytoften 33, DK-2840 Hølte, Denmark

This product complies with the applicable essential health and safety requirements of Regulation (EU) 2016/425 and standard(s) mentioned below

**Standard(s)** EN ISO 13688:2013

**Additional information** Material tested for transmission in the wavelength range 240-400 nm according to EN 410:2011. The effective total irradiance  $E_{\text{eff}}$  0.00147 W/m<sup>2</sup>, tolerable maximum daily exposure value 5.7 hours

**Validity** This certificate is valid until 26 January 2026.  
Certificate Issue 1. Certified since 27 January 2021.

**Date of issue** 27 January 2021

**SGS Fimko Ltd**

**Signature**

  
Minna Torenus  
Specialist

  
Erja Tammela  
Senior Specialist

The full details of the assessment are given in Certification report No. 0598/PPE/200853/R.  
SGS Fimko Ltd is a Notified Body (0598) according to the Personal Protective Equipment Regulation (EU) 2016/425.

