

## USER INFORMATION

Issue 2 Date: 10.06.2024

**A20D**

**2-Layer Garment Styles: Jacket ARC2022/20, Trousers ARC3002/20, Wrap round Apron ARC6001/20 & Hood ARCBN500/20, Bib & Brace Trousers ARC3003/20, Long Coat ARC2002/20 & Coveralls ARC3010/20 & ARC3015/20.**

### Intended Uses

In the design of this garment due respect has been paid to the basic health and safety requirements laid out in Annex II of the PPE Regulation (EU) 2016/425.

### EN 61482-2 intended use:

This garment has been designed to give a specified level of protection against the thermal hazards of an electric arc flash. The fabric was tested using EN IEC 61482-1-1:2019 'Open arc' test method.

The garment conforms with EN 61482-2:2020 "Live working – Protective clothing against the thermal hazards of an electric arc – Part 2: Requirements" It meets the following requirements:

ELIM – Arc Thermal Performance Value 38cal/cm<sup>2</sup>

ATPV – Arc Thermal Performance Value 42cal/cm<sup>2</sup>

### EN 1149-5 intended use:

This garment has been designed to avoid incendiary discharges in areas where there is a risk of ignition by electrostatic discharge, including in sensitive flammable atmospheres such as Air/Hydrogen. It may not prevent discharges capable of igniting an Oxygen enriched atmosphere. This garment is not intended to give protection against mains voltages.

The garment conforms to the requirements of EN 1149-5:2018, the material having been tested to EN 1149-3:2004.

### EN ISO 11612 intended use:

This garment has been designed to give a specified level of protection against accidental contact with flame and against certain forms of heat transfer.

Code Letter A1 – Limited Flame Spread (Face)

Code Letter B – Convective Heat (to Level B1)

Code Letter C – Radiant Heat (to Level C1)

It is not designed to protect against molten aluminum and iron splash (Code Letters D and E).

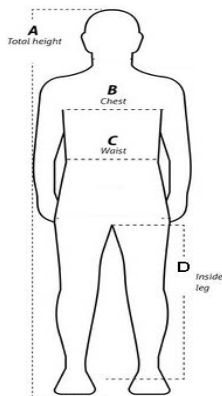
EN 61482-2:2020  
ELIM 38cal/cm<sup>2</sup>  
ATPV 42cal/cm<sup>2</sup>



EN 1149-5:2018  
EN 1149-3:2004



EN ISO 11612:2015  
A1 B1 C1



MTM & Out sizes upon request

Hood – one size only

|                           |           |           |          |            |             |          |         |         |          |         |
|---------------------------|-----------|-----------|----------|------------|-------------|----------|---------|---------|----------|---------|
| HEIGHT A                  | SHORT     | REG       | TALL     | XTALL      |             |          |         |         |          |         |
| HEIGHT (CM)               | 168-176   | 176-184   | 184-192  | 192-200    |             |          |         |         |          |         |
| APRON (ONE SIZE)          | WIDTH     | LENGTH    |          |            |             |          |         |         |          |         |
| APRON (CM)                | 144       | 110       |          |            |             |          |         |         |          |         |
| ORDER SIZE: B (CM)        | S         | M         | L        | XL         | 2XL         | 3XL      |         |         |          |         |
| LONG COAT                 | 122       | 127       | 132      | 137        | 142         | 147      |         |         |          |         |
| JACKET                    | 116       | 121       | 126      | 131        | 136         | 141      |         |         |          |         |
| ORDER SIZE: COVERALL      | S         | M         | L        | XL         | 2XL         | 3XL      |         |         |          |         |
| COVERALL B (CM)           | 129       | 134       | 139      | 144        | 150         | 155      |         |         |          |         |
| ORDER SIZE: COVERALL      | (S) 8-10  | (M) 12-14 | (L) 16   | (XL) 18-20 | (2XL) 22-24 | (3XL) 26 |         |         |          |         |
| COVERALL B (CM)           | 101       | 106       | 114      | 122        | 129         | 137      |         |         |          |         |
| BIB TROUSERS C WAIST (CM) | 96        | 101       | 106      | 111        | 116         | 133      |         |         |          |         |
| TROUSERS C WAIST (INS)    | 30        | 32        | 34       | 36         | 38          | 40       | 42      | 44      | 46       | 48      |
| TROUSERS C WAIST (CM)     | 75-79     | 80-84     | 85-89    | 90-94      | 95-99       | 100-104  | 105-109 | 110-114 | 115-119  | 120-124 |
| INSIDE LEG LENGTHS D (CM) | XSHORT-68 |           | SHORT-73 |            | REGULAR-78  |          | TALL-83 |         | XTALL-88 |         |

**Instructions for use:**

Environmental conditions and risks at the working site shall be considered prior to the use of this garment.

Deviations from the parameters in this document may result in more severe conditions;

Protective clothing shall be worn in the closed state;

Protective clothing according to this document is not intended to be used as electrical insulating protective clothing and does not provide protection against electrical shock;

Protective clothing that becomes contaminated with grease, oil, or flammable liquids or combustible materials should not be used;

Protective clothing should be cleaned when necessary;

Protective clothing that is damaged to the extent that its protective qualities are impaired (e.g. holes in the garment, not functioning closures) should not be used;

**Information to the user:**

Clothing must be worn as a suit; Apron & Hood to be worn in addition to suit with the same protection or above.

Other suitable additional protective equipment (helmet and face screen, gloves with cuffs, footwear boots) shall be used;

Other protective garments worn together with protective clothing and dirty protective clothing can reduce the protection;

Damaged garments should be repaired or replaced. In the event of tearing, such damaged clothing should not be repaired; repairing is only allowed in accordance with the manufacturer's instructions;

No undergarments or under layers should be used which melt under arc exposure, e.g. made of polyamide, polyester or acrylic fibres;

"The person wearing the electrostatic dissipative protective clothing shall be properly earthed. The resistance between the person's skin and earth shall be less than 108  $\Omega$ , e.g. by wearing adequate footwear on dissipative or conductive floors"

"Electrostatic dissipative protective clothing shall not be open or removed whilst in presence of flammable or explosive atmospheres or while handling flammable or explosive substances"

**If Applicable:**

"Touch and close fasteners shall not be opened when operating in hazard zones"

"Electrostatic dissipative protective clothing is intended to be worn in Zones 1, 2, 20, 21 and 22 (see EN 60079-10-1 and EN 60079-10-2) in which the minimum ignition energy of any explosive atmosphere is not less than 0,016 mJ"

"Electrostatic dissipative protective clothing shall not be used in oxygen enriched atmospheres, or in Zone 0 (see EN 60079-10-1) without prior approval of the responsible safety engineer"

"The electrostatic dissipative performance of the electrostatic dissipative protective clothing can be affected by wear and tear, laundering and possible contamination"

"Electrostatic dissipative protective clothing shall be worn in such a way that it permanently covers all non-complying materials during normal use (including bending movements)"

Earthed through contact between the main AS fabric and the skin, such as at the wearers neck and/or wrists for jackets & coveralls, or waistband for trousers.

**Care Instructions**

Domestic wash at 40°C  
No Bleaching  
Cool Iron  
Can be dry cleaned  
Tumble Dry (Low Heat)

**Repair Instructions**

Do not repair this garment using fabrics thread other than those of the same construction and flame retardant properties as used in the garment. The garment may be disposed of using normal methods for textile garments. There are no hazards from disposal by incineration or mechanical disruption.

**WARNING.** - Tears should not be repaired by the user. Any repair made using a flammable (not flameproof) thread and or heat reactivatable fabric that is likely to melt would be very dangerous in the event of exposure to flame. **Consult the manufacturer before attempting repair**

**Maintenance Instructions**

Store garments in a clean and dry environment, away from direct sunlight.

Transport the garment in the package provided.

**Notified Body:****Notified Body for CE marking:**

Shirley® Notified Body 2895, Port Tunnel Business Park, Office 13 Unit 21, Dublin 17, ROI. performed the EU type-examination (Module B).

The items are subject to the conformity assessment procedure Module D under surveillance of Shirley®, Notified Body 2895, Port Tunnel Business Park, Office 13 Unit 21, Dublin 17, ROI.

Further information on this garment can be obtained from Dale Techniche Ltd. at the location shown at the top of this page. Certificates of Conformity can be accessed by logging on to [www.daledoc.co.uk](http://www.daledoc.co.uk).