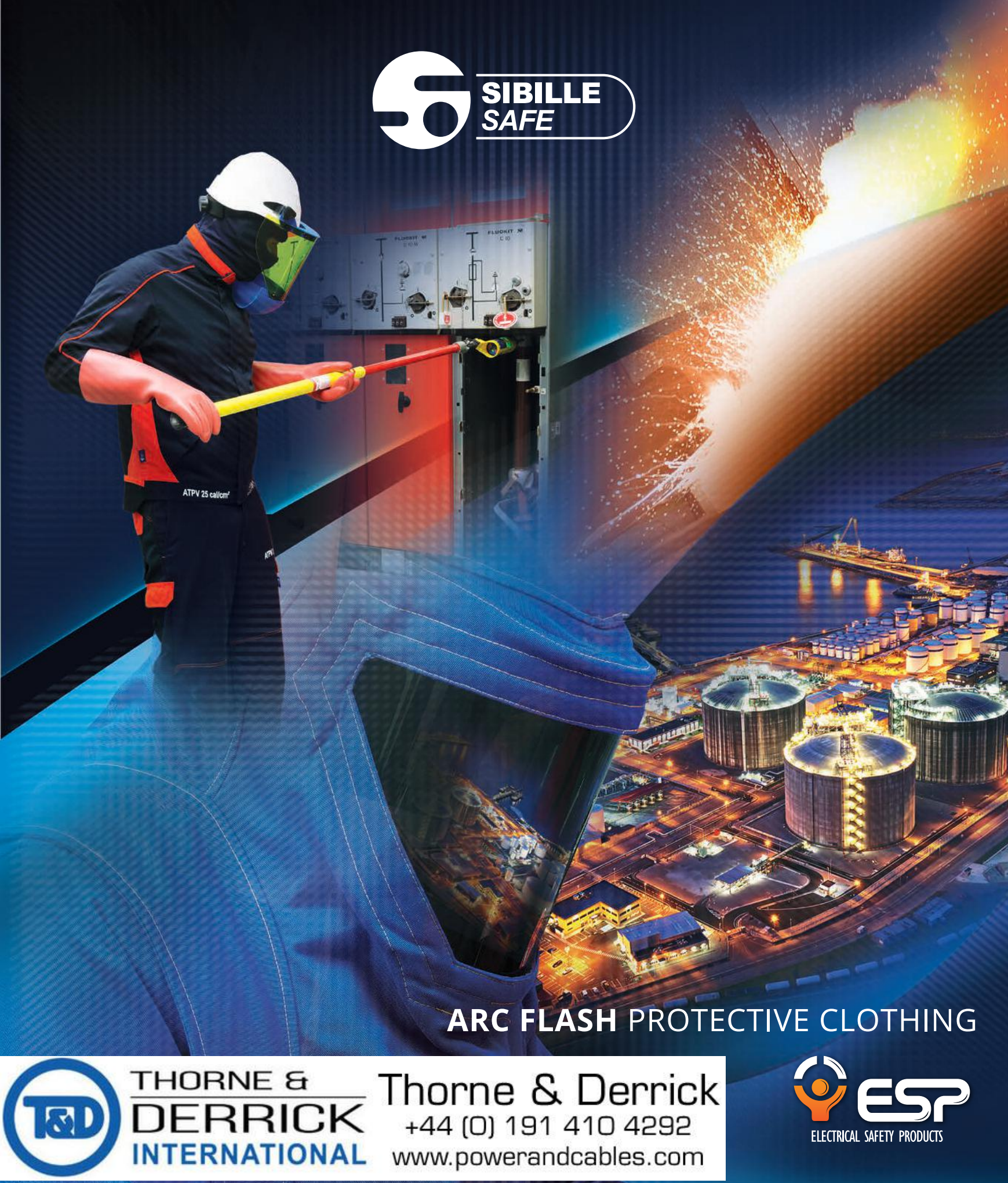

SIBILLE
SAFE
ATPV 25 cal/cm²
ARC FLASH PROTECTIVE CLOTHING
THORNE &
DERRICK
INTERNATIONAL
Thorne & Derrick
+44 (0) 191 410 4292
www.powerandcables.com
ESP
ELECTRICAL SAFETY PRODUCTS

Sibille Safe designs and manufactures personal and collective protective equipment for electrical workers.

exp

ert in electrical safety

Sibille Safe is part of the Electrical Safety Products (ESP) division, which brings together a number of facilities that produce and market electrical protection equipment.

Sibille Safe thus benefits from the expertise in electrical safety of all the companies within the division, and is in a position to offer products that are best adapted to both the expectations of customers and the requirements in the field.

As a result, **Sibille Safe is a major player in the field of arc flash protection**, and has access to the latest market information to offer its customers the most efficient solutions.

Sibille Safe is a member of the international arc flash standardisation group (International Electrotechnical Commission, TC78, WG15) and thus takes part in the design, monitoring and development of standards relating to arc flash hazards.

WE BUILD SOLUTIONS
FOR SAFETY AND PERFORMANCE

arc Flash hazards

An arc-flash is the result of an electric short circuit conducted by the air. It is a violent eruption of thermal energy from a source of electricity, which can lead to serious or even irreversible burns and injuries. Arc flash hazards become an essentiel concern when the rated voltage of the installation is greater than 220 Volts.

THERMAL ENERGY GENERATED BY AN ARC FLASH

> It is expressed in calories/cm²,

> 1 cal/cm² is equivalent to exposing a finger to a lighter flame for a second,

> With only 1.2 cal/cm², individuals can suffer from second-degree burns,

> Standard non fire-retardant work clothing can ignite from energy levels of 2 calories/cm².

> Thermal radiation can reach 19 000°C, or three times the heat of the sun.

Applicable legislation and standards

Our range addresses the requirements for clothing that protects from the thermal hazards of electric arcs according to applicable international standards.

The performance of clothing to protect from electrical arcs may be qualified using two test methods, depending on the zone of influence :

IEC 61482-2 :
GENERAL REQUIREMENTS

TEST METHODS

IEC 61481-2
Open arc method

Determination of the ATPV rating of clothing stated in calories/cm²
(American principle)

IEC 61482-1-2
Box test method

Determination of the protection class of the clothing depending on the level of intensity of the electrical installation, according to two classes:
Class 1 (4 kA during 0,5 s at 30 cm)
Class 2 (7 kA during 0.5 s at 30 cm)
(European principle)

In the USA, the national fire protection association (NFPA) uses four categories to classify the arc flash risk.

The principle of categories is the method used in NFPA 70E to inform users about the protection they need while working on or near live equipment.

The aim is to be protected from the risk of second-degree burns.

Hazard Risk Category (HRC)	1	2	3	4
ATPV = Arc Thermal Performance Value (expressed in cal/cm²)	4	8	25	40

NB : experience has shown that in some situations, the incidence of thermal energy can exceed 40 cal/cm².

effective protection

STEP 1:
Measuring the thermal energy impact of each system

> Approved organisations are responsible for analysing the risk by measuring the energy impact of electrical structures and systems. Our role is to suggest protective solutions depending on the type of work and the energy impact level defined earlier on in the process.

> Once the risk has been analysed, the employer will become aware of the energy impact of the system and we can then offer guidance for selecting the appropriate equipment.

STEP 2:
Defining the use of the protective clothing

> **Prolonged use or occasional use?**

We can offer an arc flash clothing range that is organised on the basis of how the garments are to be used. The Daily Wear range includes work clothing for prolonged use and the Switching Wear range is designed for specific use with ATPV ratings above 40 cal/cm².

> **Indoor or outdoor use?**

Use in outdoor environments may come with additional needs, such as high visibility to show the position of the operator in difficult conditions.
Working in outdoor environments may require the use of arc flash clothes that also offer protection from the cold and rain.

Characteristics of fabrics used

Aramid fibre fabrics

These fabrics are produced using fibres with inherent properties that make them naturally flame-resistant, with no chemical treatment

> Flame resistance is not affected by cleaning

> The fibres have high abrasion resistance

Modacrylic blends

Flame-retardant treatment has been incorporated into the chemical solution that has led to the creation of this fibre. When blended with other fibres (cotton, polyester, antistatic etc.), it makes it possible to make soft flame-retardant fabric.

> Soft and breathable

> Extended lifespan

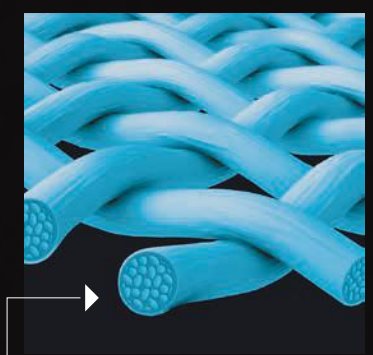
Surface treatment of cotton based fabric

A chemical compound is applied to the fibre or fabric at the end of the manufacturing process in order to make it less flammable. The chemical treatment is activated by intense heat that produces combustion-inhibiting gases.

> High value for money

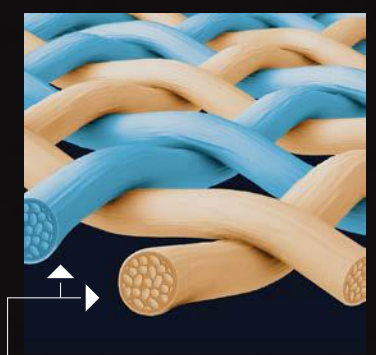
> Comfort of cotton

ARAMID



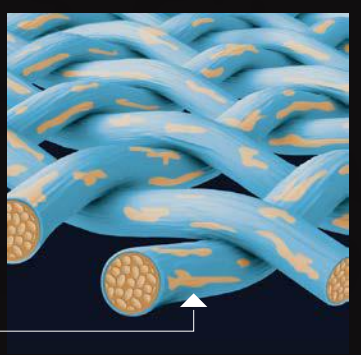
Inherently flame resistant fibres

MODACRYLIC BLENDS



Combination of intrinsic and non-intrinsic fibres

TREATED COTTON



Surface treatment that gives the fibre flame-retardant properties

Multiple Risks

Alongside the arc flash risk, our new range of clothing addresses multiple-risk standards. You will find below a summary of the standards and symbols used.

IEC 61482-2 :

Clothing for protection from thermal hazards of electrical arcs. The performance of the clothing may be qualified regarding two test methods:
- The open arc method determines the incidence of thermal energy expressed in calories/cm².
- The box test method determines the class of protection of the garment depending on the level of intensity of the electrical installation.

EN 1149-5:

Protective clothing with electrostatic properties (material performance and design requirements). It offers protection from static electricity and reduces the risk of sparking.

EN 13034:

Protective clothing against liquid chemicals. Use for low risks: possible exposure to a small volume of chemical.

EN ISO 11611:

Protective clothing for use in welding and allied processes. It protects the wearer from small splashes of melting metal, and brief contact with flames while welding or doing similar work - class 1 (lower level of heat projection).

N ISO 11612:

Clothing to protect against heat and flame. Protection from brief contact with heat and flames.
The heat may be convection heat, radiant heat, splashes of melted metal or a combination thereof.

EN ISO 20471:

Protective clothing for personnel working on foot on roads on the occasion of road works or a temporary hazard, which makes them visible by day and by night when lit by headlights.

Our clothing range

In order to guide you and make your choice easier, we have organised our range into two broad families depending on the use made: extended use or occasional use.

DAILY WEAR family

This family includes work clothing for daily use for a prolonged time, with an ATPV rating from 10 cal/cm² up to 41 cal/cm².

The Daily Wear family includes two clothing groups:

The Comfort range is an entry level range that is very comfortable and functional and carefully finished, and cuts no corners in terms of protection.
These garments are made of fabric blends that make them breathable and soft.

The Premium range of clothing uses more sophisticated fabrics. These include a selection of technical fabrics that make the clothing lasts longer, and better resist both washing and abrasion.

SWITCHING WEAR family

This family includes full protection suits designed for specific use in switching operations with a significant arc flash risk, with an ATPV rating above 40 cal/cm².

Tip

To identify what you need, each garment bears the following indications:
- its **ATPV rating expressed in calories/cm²**, according to standard IEC 61482-1-1
- its **protection class** according to standard IEC 61482-1-2

DAILY WEAR

SWITCHING WEAR

PREMIUM	COMFORT	PREMIUM	COMFORT	COMFORT	PREMIUM		
							
			DOUBLE CERTIFICATION FABRIC + GARMENT	DOUBLE CERTIFICATION FABRIC + GARMENT		DOUBLE CERTIFICATION FABRIC + GARMENT	DOUBLE CERTIFICATION FABRIC + GARMENT
AFHV8 **8 cal/cm2**	AFCOM10 **10 cal/cm2**	AFPRO12 **12 cal/cm2**	AFSIB12 **12 cal/cm2**	AFSIB25 **25 cal/cm2**	AFPRO41 **41 cal/cm2**	ARC40 **40 cal/cm2**	ARC53 **53 cal/cm2**

CLASS 1 | CLASS 2

SIBILLE SAFE

Daily Wear | Premium

Class 1

8 cal/cm²

AFHV8

Arc flash high visibility class 1, ATPV 8 cal/cm² Jacket and trousers or coverall

IEC 61482-2

EN ISO 11612

EN ISO 20471

EN ISO 11611

EN 1149-5

EN 13034

Use

AFHV8 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 8 cal/cm².

These suits are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFHV8 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Composition
  50% polyester, 27% modacrylic,
  22% cotton, 1% antistatic fibres,
  355 g/m²
- Flame retardant and antistatic
- Colours : navy blue / orange
- **This fabric combines the cooling properties of eucalyptus fibres and the high performance of modacrylic in the presence of electrical arcs.**

Description

• Jacket

High collar closed with presss studs, zip fastener with flap closed by press studs, 2 chest loops, longer back, adjustable cuffs, retroreflective tapes

• Trousers

Elasticated waist closed by button, zip fly, high back, kneepad pockets, retroreflective tapes

• Coverall

High collar closed with presss studs, double non-metallic zip fastener with flap closed by press studs, 2 chest loops, elasticated waist, kneepad pockets, adjustable cuffs, retroreflective tapes

Pockets

• Jacket

2 chest pockets and 2 low double entry pockets with flap closed by press studs, 1 inner pocket closed by press stud.

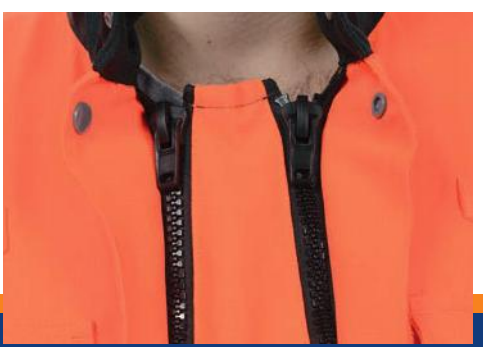
• Trousers

2 slant pockets, 2 cargo pants and 1 rear pocket closed by press studs

• Coverall

2 chest pockets, 2 waist pockets, 1 rule pocket and 1 rear pocket with flap closed by press studs

High visibility garment in accordance with EN ISO 20471



Double non-metallic zip fastener

AFHV8

Class 1 | **ATPV 8 cal/cm²**

USER BENEFITS

- **High visibility and arc flash garments**
- Garments free of metal : zipper and press studs in plastic material
- Vest with longer back and high-back pants for optimal protection
- Coverall with double zip fastener on the entire length of the garment : easy to put on even over regular clothing

Reference	Description	Sizes
AFHV-VES8	Arc flash high visibility jacket class 1, ATPV 8 cal/cm²	XS to 3XL
AFHV-PAN8	Arc flash high visibility trousers class 1, ATPV 8 cal/cm²	XS to 3XL
AFHV-COM8	Arc flash high visibility coverall class 1, ATPV 8 cal/cm²	XS to 3XL

Complete the item of your choice with the required size,
*Example: AFHV-VES8 - **XL** for an XL size jacket.*

Please enquire for sizes above 3XL.

Please see page 25 for kneepads

These high-visibility garments are also available in fluorescent yellow/grey with 15 cal/cm² ATPV rating.
Please enquire for more information.

Premium

COMFORT	★★★★☆	SOFTNESS	★★★★★
LIFESPAN	★★★★★	BREATHABILITY	★★★☆☆

DAILY WEAR

SIBILLE SAFE

Daily Wear | COMFORT

Class 1

10 cal/cm²

AFCOM10

Arc flash class 1, ATPV 10 cal/cm²
Coverall with retroreflective tapes

IEC 61482-2

EN ISO 11612

EN ISO 11611

EN 1149-5

EN 13034

Use

AFCOM10 coveralls offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 10 cal/cm².

These garments are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFCOM10 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Composition
  79% cotton, 20% polyester,
  1 % antistatic fibre,
  260 g/m²
- Flame retardant and antistatic
- **This fabric contains natural and manmade fibres, and combines the comfort of cotton with the ease of care of polyester. It offers high resistance to wear, tearing and abrasion. It also has ideal washing behaviour.**

Description

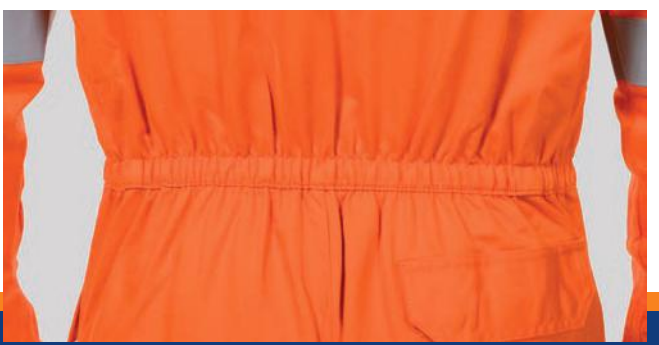
• **Coverall**

High collar, double non metallic zip fastener with flap closed by press studs, elasticated waist, kneepad pockets, adjustable cuffs, retroreflective tapes

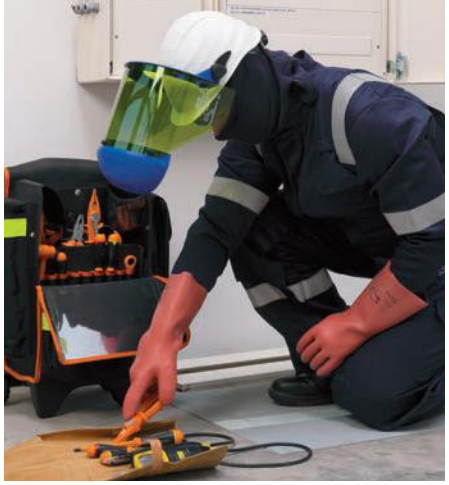
• **Pockets**

1 chest pocket, 2 waist pockets, 1 rule pocket and 1 rear pocket with flap closed by press studs

High collar and double non-metallic zip fastener



Elasticated waist



AFCOM10

Class 1 | **ATPV 10 cal/cm²**

USER BENEFITS

- **Double zip fastener on the entire length of the garment : easy to put on even over regular clothing**
- Garments free of metal
- Reflective tapes to keep the operator visible in all conditions
- Excellent wear and tear resistance
- Coverall available in 3 different colours

Reference	Description	Sizes
AFCOM10-OR	**Orange** arc flash overalls class 1, ATPV 10 cal/cm²	XS to 3XL
AFCOM10-BL	**Blue** arc flash overalls class 1, ATPV 10 cal/cm²	XS to 3XL
AFCOM10-GR	**Grey** arc flash coverall class 1, ATPV 10 cal/cm²	XS to 3XL

Please see page 25 for kneepads

Complete the item of your choice with the required size,
*Example: AFCOM10-OR - **XL** for an XL size coverall.*

Please enquire for sizes above 3XL.

Comfort

COMFORT	★★★★★	SOFTNESS	★★★★☆
LIFESPAN	★★★☆☆	BREATHABILITY	★★★★☆

DAILY WEAR

SIBILLE SAFE

Daily Wear | Premium

Class 1

12 cal/cm²

AFPRO12

Arc flash class 1, ATPV 12 cal/cm² Jacket and trousers or coverall with retroreflective tapes

IEC 61482-2

EN ISO 11612

EN ISO 11611

EN 1149-5

EN 13034

Use

AFPRO12 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 12 cal/cm².

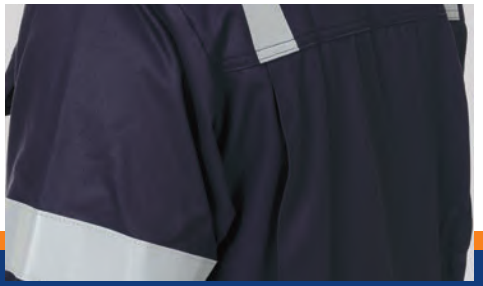
These garments are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFPRO12 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Composition
  54% modacrylic, 45% Lyocell,
  1% antistatic fibre, 300 g/m²
- Flame retardant and antistatic
- **This fabric combines the cooling properties of eucalyptus fibres and the high performance of modacrylic in the presence of electrical arcs.**

Double entry pockets



Gussets on the back

Description

• Jacket

High collar closed by press studs, zip fastener with flap closed by press studs, 2 chest loops, gussets on the back, longer back, adjustable cuffs, retroreflective tapes

• Trousers

Elasticated belt closed by button, zip fly, high back, kneepad pockets, retroreflective tapes

• Coverall

High collar closed by press studs, zip fastener with flap closed by press studs, 2 chest loops, gussets on the back, elasticated back, adjustable cuffs, kneepad pockets, retroreflective tapes

Pockets

• Jacket

1 chest pocket and 2 low double entry pockets with flap closed by press studs, 1 inner pocket closed by press stud

• Trousers

1 cargo pocket, 1 rule pocket, 1 rear pocket with flap closed by press studs, 2 slant pockets

• Coverall

1 chest pocket, 2 waist pockets, 1 cargo pocket, 1 rear pocket and 1 rule pocket with flap closed by press studs

AFPRO12

Class 1 | **ATPV 12 cal/cm²**

USER BENEFITS

- **Comfortable and breathable : absorbs 50% of moisture more than cotton**
- Garment free of metal : zip fastener and press studs in plastic material
- Retroreflective tapes to keep the operator visible in all conditions
- Gussets on the back for comfort

Reference	Description	Sizes
AFPRO-VES12	Arc flash jacket with retroreflective tapes class1, ATPV 12 cal/cm²	XS to 3XL
AFPRO-PAN12	Arc flash trousers with retroreflective tapes class1, ATPV 12 cal/cm²	XS to 3XL
AFPRO-COM12	Arc flash coverall with retroreflective tapes class1, ATPV 12 cal/cm²	XS to 3XL

Complete the item of your choice with the required size,
Example: AFPRO-VES12 - ***XL*** *for an XL size jacket.*

Please enquire for sizes above 3XL.

Please see page 25 for kneepads

Premium

COMFORT ★★★★☆ SOFTNESS ★★★★★

LIFESPAN ★★★★☆ BREATHABILITY ★★★★☆

DAILY WEAR

SIBILLE SAFE

Daily Wear | COMFORT

Class 1

12 cal/cm²

AFSIB12

Arc flash Sibille Safe class 1, ATPV 12 cal/cm² Jacket and trousers or coverall

IEC 61482-2

EN ISO 11612

EN ISO 11611

EN 1149-5

EN 13034

Use

AFSIB12 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 12 cal/cm².

These garments are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFSIB12 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Composition
  79% cotton, 20% polyester,
  1% antistatic fibre,
  300 g/m²
- Flame retardant and antistatic
- Colour : navy blue
- **This fabric contains natural and manmade fibres, and combines the comfort of cotton with the ease of care of polyester. It offers high resistance to deformation, wear, tearing and abrasion. It also has ideal washing behaviour.**

Description

• Jacket

High collar closed by press studs, non-metallic zip fastener with flap closed by press studs, adjustable cuffs, longer back

• Trousers

Elasticated belt closed by button, zip fly, high back, knee reinforcements

• Coverall

High collar closed by press studs, 2 slant pockets, 1 cargo pocket, 1 rule pocket and 1 rear pocket with flap closed by press studs

Pockets

• Jacket

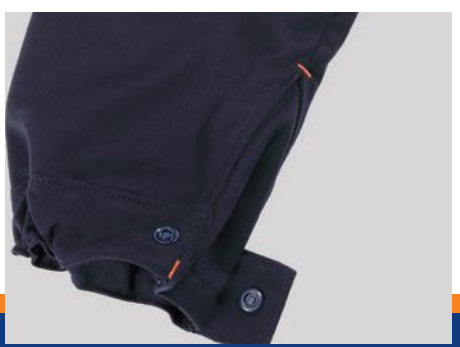
2 low pockets with flap closed by press studs

• Trousers

1 cargo pocket, 1 rule pocket and 1 rear pocket with flap closed by press studs, 2 slant pockets

• Coverall

1 cargo pocket, 1 rule pocket and 1 rear pocket with flap closed by press studs, 2 slant pockets



Adjustable cuffs

High back and double seams

USER BENEFITS

- **Comfortable and breathable garment**
- Modern and stylish design
- Garment free of metal : zip fasteners and press studs in plastic material
- Non-deformable and easy to clean

FABRIC AND DOUBLE CERTIFICATION GARMENT

AFSIB12

Class 1 | ATPV 12 cal/cm²

HIGH COLLAR CLOSED BY PRESS STUDS

HI-BACK TROUSERS & LONGER BACK JACKET FOR OPTIMAL PROTECTION

STANDARD PICTOGRAMS VISIBLE ON THE GARMENT

ADJUSTABLE CUFFS

KNEE REINFORCEMENTS

Reference	Description	Sizes
AFSIB-VES12	Arc flash jacket Sibille Safe class 1, ATPV 12 cal/cm²	XS to 3XL
AFSIB-PAN12	Arc flash trousers Sibille Safe class 1, ATPV 12 cal/cm²	XS to 3XL
AFSIB-COM12	Arc flash coverall Sibille Safe class 1, ATPV 12 cal/cm²	XS to 3XL

Complete the item of your choice with the required size,
Example: AFSIB-VES12 - **XL** *for an XL size jacket.*

Please enquire for sizes above 3XL.

Comfort

COMFORT	★★★★★	SOFTNESS	★★★★☆
LIFESPAN	★★★☆☆	BREATHABILITY	★★★★☆

DAILY WEAR

SIBILLE SAFE

Daily Wear | COMFORT

Class 2

25 cal/cm²

AFSIB 25

Arc flash Sibille Safe class 2, ATPV 25 cal/cm² Jacket and trousers or coverall

IEC 61482-2

EN ISO 11612

EN ISO 11611

EN 1149-5

EN 13034

Use

AFSIB25 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 25 cal/cm².

These garments are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFSIB25 clothing are suitable for use in explosive atmospheres (ATEX)

Fabric

- Double layer fabric410 g/m²
- Composition : 35 % modacrylic, 30% cotton, 20% viscose, 14% para-aramid, 1% antistatic fibre
- Flame retardant and antistatic
- Colours : navy blue / orange
- **This fabric combines the inherent properties of aramid and the comfort of cotton.**

Description

• Jacket

High collar closed by press studs, zip fastener with flap closed by press studs, adjustable cuffs, longer back

• Trousers

Elasticated belt closed by button, zip fly, high back, knee reinforcements

• Coverall

High collar closed by press studs, zip fastener with flap closed by press studs, adjustable cuffs, knee reinforcements

Pockets

• Jacket

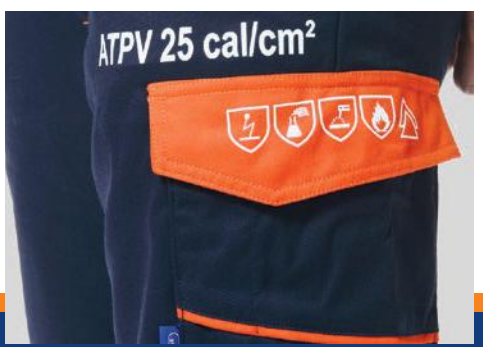
2 low pockets with flap closed by press studs

• Trousers

1 cargo pocket and 1 rule pocket with flap closed by press studs, 2 slant pockets with flap

• Coverall

1 cargo pocket and 1 rule pocket with flap closed by press studs, 2 slant pockets with flap



Standard pictograms and ATPV visible on the garment

High collar closed by press studs

AFSIB 25

Class 2 ATPV 25 cal/cm²

FABRIC AND GARMENT DOUBLE CERTIFICATION

USER BENEFITS

- **Excellent weight/performance ratio while being very comfortable**
- Careful and elegant design
- Garment free of metal : zip fasteners and press studs in plastic material
- Comfortable and breathable garment

HIGH COLLAR CLOSED BY PRESS STUDS

HI-BACK TROUSERS & LONGER BACK JACKET FOR OPTIMAL PROTECTION

ORANGE YOKES TO DIFFERENTIATE CLASS 1 FROM CLASS 2

KNEE REINFORCEMENTS

Reference	Description	Sizes
AFSIB-VES25	Arc flash jacket Sibille Safe class 2, ATPV 25 cal/cm²	XS to 3XL
AFSIB-PAN25	Arc flash trousers Sibille Safe class 2, ATPV 25 cal/cm²	XS to 3XL
AFSIB-COM25	Arc flash coverall Sibille Safe class 2, ATPV 25 cal/cm²	XS to 3XL

Complete the item of your choice with the required size,
Example: AFSIB-VES25 - ***XL*** *for an XL size jacket.*

Please enquire for sizes above 3XL.

Comfort

COMFORT	★★★★☆	SOFTNESS	★★★☆☆
LIFESPAN	★★★★★	BREATHABILITY	★★★☆☆

DAILY WEAR

SIBILLE SAFE

Daily Wear | Premium

Class 2

41 cal/cm²

AFPRO41

Arc flash class 2, ATPV 41 cal/cm²
Nomex® jacket and trousers

IEC 61482-2

EN ISO 11612

EN ISO 11611

EN 1149-5

Use

AFPRO41 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 41 cal/cm².

These garments are designed for prolonged use throughout the day, and are recommended for operators working on or close to live electrical installations.

AFPRO41 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Double layer fabric 410 g/m²
- Outside fabric composition : 75% Nomex®, 13 modacrylic, 10.5% cotton, 1.5% antistatic fibre
- Flame retardant and antistatic
- Colours : dark blue / red
- **Nomex® fabric is intrinsically flame-resistant and has high thermal protection properties, while being the lightest in the market.**

Description

• Jacket

High collar closed by press studs, zip fastener with flap closed by press studs, adjustable cuffs, 2 chest loops, gussets on the back, longer back

• Trousers

Elasticated belt closed by button, zip fly, high back

Pockets

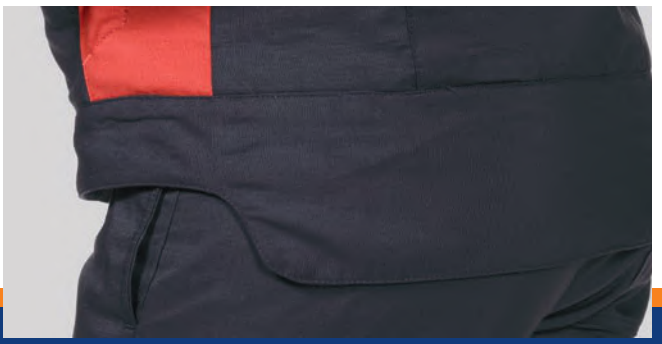
• Jacket

2 low pockets with flap closed by press studs, 1 inner pocket

• Trousers

2 cargo pockets and 1 rear pocket with flap closed by press studs, 2 slant pockets

Triple stitch detailing on chest



Jacket with longer back

AFPRO41

Class 2 | ATPV 41 cal/cm²

HIGH COLLAR CLOSED BY PRESS STUDS

GUSSETS ON THE BACK

ADJUSTABLE CUFFS

STANDARD PICTOGRAMS VISIBLE ON THE GARMENT

USER BENEFITS

- **Double layer aramid-based fabric inherently flame retardant**
- Best performance for weight in the market
- Lightweight, supple and comfortable clothing
- Garment free of metal : zip fasteners and press studs in plastic material

Reference	Description	Sizes
AFPRO-VES41	Arc flash Nomex® jacket class 2, ATPV 41 cal/cm²	XS to 3XL
AFPRO-PAN41	Arc flash Nomex® trousers class 2, ATPV 41 cal/cm²	XS to 3XL

Complete the item of your choice with the required size,
*Example: AFPRO-VES41 - **XL** for an XL size jacket.*

Please enquire for sizes above 3XL.

Premium

COMFORT ★★★☆☆ SOFTNESS ★★★☆☆

LIFESPAN ★★★★★ BREATHABILITY ★★☆☆☆

DAILY WEAR

SIBILLE SAFE

Switching Wear

Class 2

40 cal/cm²

ARC40

DOUBLE CERTIFICATION FABRIC AND GARMENT

Arc flash Sibille Safe, ATPV 40 cal/cm²
Jacket, bib and brace overalls and hood

EN 1149-5

IEC 61482-2

EN ISO 11612

Use

ARC40 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 40 cal/cm².

These suits are recommended for specific operations with significant arc flash risks, such as switching in an electrical substation.

ARC40 clothing are suitable for use in explosive atmospheres (ATEX).

Fabric

- Double layer Indura Ultrasoft® fabric : 88% cotton and 12% nylon
- **The fabric makes use of the high abrasion resistance of nylon on the outside, which extends the life of the garment, while the cotton fibres make it more comfortable to wear.**

Description

• Long jacket

High collar to cover the neck entirely on all sides, non-metallic zip fastener with flap closed by press studs, elasticated cuffs

• Bib and brace overalls

Length adjustment with the braces.

• Hood

Integral hood incorporating :
- a protective helmet with adjustment made by ratchet
- an arc flash face shield with an ATPV rating of 40 cal/cm² with anti-fogging treatment. The face shield is in accordance with standard ASTM F2178.

USER BENEFITS

- Refined design studied for an optimal protection in the context of specific operations.
- The Switching Wear range relies on full protection of all the parts of the body. The joins between the different garments overlap : even while moving, all the parts of the body are protected.
- Faceshield in accordance with standard ASTM F2178
- May be worn above work clothing

Reference	Description	Sizes
ARCVES40	Arc flash jacket Sibille Safe, ATPV 40 cal/cm²	XS to 2XL
ARCSAL40	Arc flash bib and brace overalls Sibille Safe, ATPV 40 cal/cm²	XS to 2XL
ARCGAN40	Arc flash gloves Sibille Safe, ATPV 40 cal/cm²	XS to 2XL
ARCCOI40	Arc flash hood Sibille Safe, ATPV 40 cal/cm²	1 size fits all

Complete the item of your choice with the required size,
Example: ARCVES40 - ***XL*** *for an XL size jacket.*

Please enquire for sizes above 2XL.

COMFORT ★★★☆☆ SOFTNESS ★★☆☆☆

LIFESPAN ★★★★☆ BREATHABILITY ★★★☆☆

SIBILLE SAFE

Switching Wear

Class 2

53 cal/cm²

ARC53

Arc flash Sibille Safe ATPV 53 cal/cm²
Jacket, bib and brace overalls and hood

FABRIC AND DOUBLE CERTIFICATION GARMENT

IEC 61482-2

EN ISO 11612

Use

ARC53 garments offer protection from the thermal effects of short circuit electrical arcs, with an ATPV that does not exceed 53 cal/cm².

These suits are recommended for specific operations with significant arc flash risks, such as switching in an electrical substation.

Fabric

- Double layer Indura Ultrasoft® fabric : 88% cotton and 12% nylon
- **The fabric makes use of the high abrasion resistance of nylon on the outside, which extends the life of the garment, while the cotton fibres make it more comfortable to wear.**

Description

• Long jacket

High collar to cover the neck entirely on all sides, non-metallic zip fastener with flap closed by press studs, elasticated cuffs

• Bib and brace overalls

Length adjustment with the braces.

• Hood

Integral hood incorporating :
- a protective helmet with adjustment made by ratchet
- an arc flash face shield with an ATPV rating of 53 cal/cm² with anti-fogging treatment. The face shield is in accordance with standard ASTM F2178

USER BENEFITS

- Refined design studied for an optimal protection in the context of specific operations.
- The Switching Wear range relies on full protection of all the parts of the body. The joins between the different garments overlap : even while moving, all the parts of the body are protected.
- Faceshield in accordance with standard ASTM F2178
- May be worn above work clothing

Reference	Description	Sizes
ARCVES53	Arc flash jacket Sibille Safe, ATPV 53 cal/cm²	XS to 2XL
ARCSAL53	Arc flash bib and brace Sibille Safe, ATPV 53 cal/cm²	XS to 2XL
ARCGAN53	Arc flash gloves Sibille Safe, ATPV 53 cal/cm²	XS to 2XL
ARCCOI53	Arc flash hood Sibille Safe, ATPV 53 cal/cm²	1 size fits all

Complete the item of your choice with the required size,
Example: ARCVES53 - **XL** *for an XL size jacket.*

Please enquire for sizes above 2XL.

COMFORT ★★★★☆ SOFTNESS ★★☆☆☆

LIFESPAN ★★★★☆ BREATHABILITY ★★★☆☆

Additional products

TC402B – TC402B24

Electrician helmet with integrated arc flash face shield

Electrician helmet incorporating a green tinted face shield with anti-fogging and anti-scratching treatment, with a chin guard

Reference	Description
TC402B	Electrician helmet with integrated arc flash face shield, ATPV 8.4 cal/cm²
TC402B24	Electrician helmet with integrated arc flash face shield, ATPV 24 cal/cm²

TC4712 – TC4725

Electrician helmet equipped with a lift-up arc flash face shield

Electrician helmet with a shield holder with a lift-up green-tinted arc flash face shield, with a chin guard.

Reference	Description
TC4712	Electrician helmet with arc flash face shield, ATPV 12 cal/cm²
TC4725	Electrician helmet with arc flash face shield, ATPV 25 cal/cm²

ARCCAG12 – ARCCAG24

Arc flash balaclava

Arc flash balaclava for use along with an electrician helmet with face shield

Reference	Description
ARCCAG10	Arc flash balaclava, ATPV 12.1 cal/cm²
ARCCAG24	Arc flash balaclava, ATPV 24 cal/cm²

AFHV-PARKA AFPRO-PARKA

Arc flash parkas class 2

The parkas will offer ideal protection from the cold and the elements, at the same time keeping the worker safe from the thermal effects of a short circuit electrical arc. Two models available: a high-visibility model in accordance with standard EN 20741 and a special cold-weather model with a warm lining.

Reference	Description	Colour	Sizes
AFPRO-PARKA	Arc flash parka class 2, cold and wet weather	Blue	S to 3XL
AFHV-PARKA	Arc flash parka class 2, high visibility	Fluorescent yellow/ blue	S to 3XL

CRYOVEST

High performance cooling vest

High-performance cooling vest for protection from the heat risk, intended for operators who do physical work in an ambient temperature above 28 °C. Prolonged use: up to 2 hours in extreme conditions (> 50 °C)

Reference	Description	Sizes
CRYOVEST	Cooling vest	S to 6XL
CRYOVEST -HV	High visibility cooling vest	S to 6XL

GCA-41

Composite insulating gloves with arc flash protection

Insulating gloves in composite materials with class 2 arc flash protection. Three-in-one gloves: electrical, arc flash and mechanical protection (does away with the need for leather over gloves). Each pair of gloves is supplied with a pair of cotton mittens for dexterity and hygiene.

Reference	Class	Max operating voltage	ATPV	Sizes
GCA0-41	0	1 000V A	71,6 cal/cm²	7 to 12
GCA2-41	2	17 000V AC	74,5 cal/cm²	8 to 12
GCA3-41	3	26 500V AC	73,2 cal/cm²	8 to 12
GCA2-41	4	36 000V AC	87,7 cal/cm²	8 to 12

GENPOLY

Kneepads for work

Protective kneepads in polyethylene to be used along with our trousers with kneepad pockets, in accordance with standard EN 14404 + A1: 2010 level 1.

Reference	Description	Sizes
GENPOLY	Kneepads for work, 100% polyethylene	One size fits all

C99-ISOL

Safety shoes with insulating soles, up to 20 KV

High or low safety model, free from metal, with dielectric sole rated for up to 20 KV in dry environments.

Reference	Description	Sizes
C99B-ISOL	Low safety shoes with insulating soles, up to 20 kV	38 to 47
C99H-ISOL	High safety shoes with insulating soles, up to 20 kV	38 to 47

CTI-125

Non-metallic textile belt 80/125

Textile belt in non-metallic strapping, 40 mm wide. Closure and adjustment with automatic plastic buckle

Reference	Description	Waist size min/max
CTI-125	Non-metallic textile belt 80/125	80/125 cm

S510

PPE carry bag in rigid canvas

Carry bag designed especially for transporting PPE. Special side pocket for shoes, so as to leave the rest of the equipment clean.

Reference	Description	Outer dimensions
S510	PPE carry bag in rigid canvas	700 x 310 x 320 mm

Size correspondence

Please take appropriate measurements and refer to the tables to select the correct size.

Daily Wear range

TROUSERS

Size to order	XS		S		M		L		XL		XXL		3XL		4XL		5XL	
EU size	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
Waist (cm)	68 to 72	73 to 76	77 to 80	81 to 84	85 to 88	89 to 92	93 to 96	97 to 100	101 to 104	105 to 108	109 to 112	113 to 116	117 to 120	121 to 124	125 to 128	129 to 132	133 to 136	137 to 140

JACKET / OVERALLS

Size to order	XS		S		M		L		XL		XXL		3XL		4XL		5XL	
Neck size (cm)	35 to 36		37 to 38		39 to 40		41 to 42		43 to 44		45 to 46		47 to 48		49 to 50		51 to 52	
EU size	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
Chest size (cm)	78 to 80	81 to 84	85 to 88	89 to 92	93 to 96	97 to 100	101 to 104	105 to 108	109 to 112	113 to 116	117 to 120	121 to 124	125 to 128	129 to 132	133 to 136	137 to 140	141 to 144	145 to 148

Switching Wear range

Size to order	S		M		L		XL		XXL		3XL		4XL	
Bib and brace	36	38	40	42	44	46	48	50	52	54	56	58	60	62
Jacket	46	48	50	52	54	56	58	60	62	64	66	68	70	72
Chest (cm)	90-97		98-105		106-113		114-121		122-129		130-137		138-145	
Waist (cm)	70-77		78-85		86-93		94-101		102-109		110-118		119-127	
Height (cm)	170-175		176-181		182-187		188-194		188-194		190-196		190-196	

Personnalisation

Clothing personalised for your image

In order to reinforce the brand image of your company, we have several personalisation options:

- Addition of the logo of your company by fire-resistant transfer or embroidery
- Choice of the fabric colour, number of pockets, addition or removal of reflective tapes

Please enquire for more information about personalisation options.

SFE international ESP DIVISION

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