

UK Military Uniform Project

- Garment Schematic Diagram

LOT 1: 3/4 Length Black Waterproof Jacket

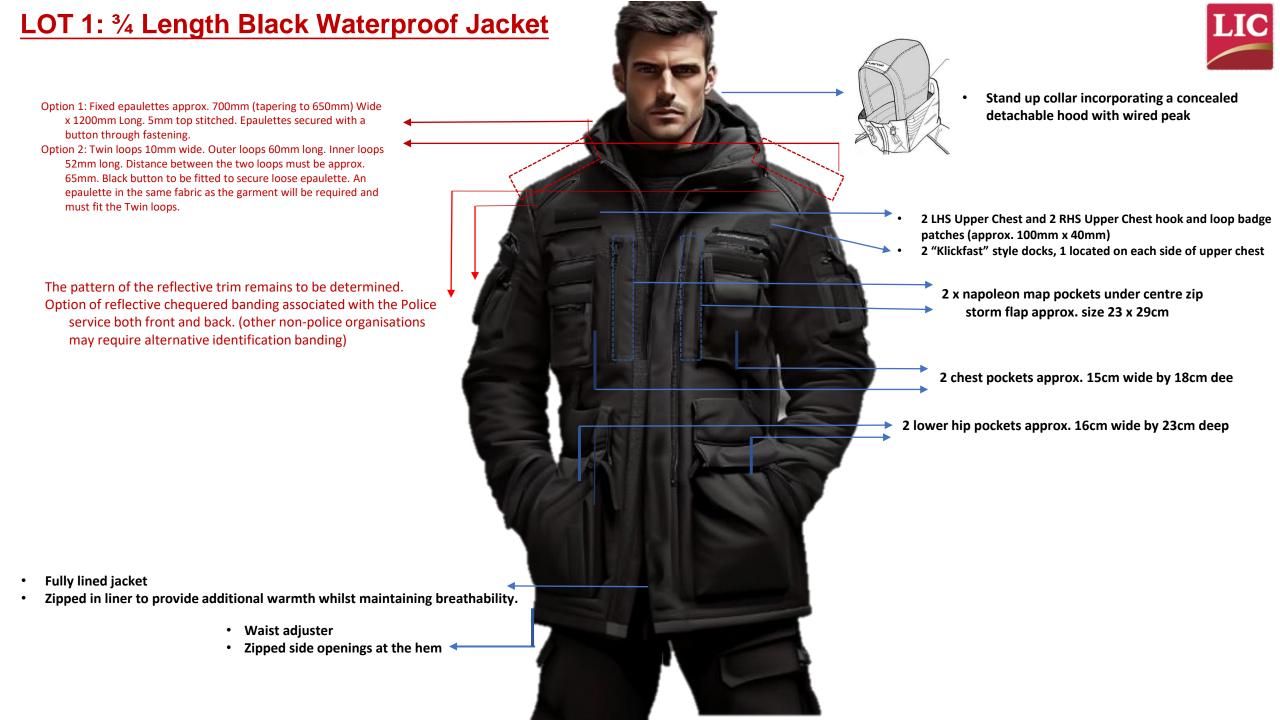


- 1.1. This black ¾ length waterproof jacket with a zipped in liner will be worn by uniformed officers and staff whilst undertaking a full range of operational duties and will form part of a layering system that aims to provide the wearer with comfort, warmth and keep them dry during long periods of exposure. It is therefore important that these garments complement this aim.
- 1.2. The ¾ Length Black Waterproof Jacket must conform to EN 343:2019 (class 4)

The key critical garment attributes must include:

- Colour All black. The shade of the fabrics must not change during production, storage, washing or during the life of the garment
- Windproof
- Waterproof
- · As Lightweight as possible
- · High level of breathability (maintained during wet weather)
- Freedom of movement whilst carrying out a wide range of duties

Garment Property	Test Standard	Requirement←
Protective Clothing - protection against rain←	EN 343:2019←	Class 4 (outer garment only)←
Physiological effects.← Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)←	EN ISO 11092:2014← R _{ct} (thermal)←	0.121±0.006 R _{ct} m²K/W (minimum) (liner only)←
Colour fastness←	EN ISO 105-B02:2014←	Meet requirement in the standard.←
Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting€	EN ISO 12945-2:2020←	≥ 4 at 2000 rubs (liner only)∈





Lot1: Black Waterproof Trouser

- 1.5. The black Waterproof Trouser will be worn by uniformed officers and staff whilst undertaking a full range of operational duties and will form part of a layering system that aims to provide the wearer with comfort and warmth. It is therefore important that these garments complement this aim.
- 1.6. This black waterproof trouser must conform to EN 343:2019 (class 4). The construction of the garment must provide maximum breathability whilst retaining the waterproof properties
- 1.7. The size roll must cover the general population and include short, regular and long options.
- **1.8** Colour All black. The shade of the fabrics must not change during production, storage, washing or during the life of the garment

Garment Property←	Test Standard←	Requirement←
Protective Clothing - protection	EN 343:2019←	Class 4←
against rain←	214 3 43.2013	Cluss 4
	ENLICO	Meet
<u>Colour</u> fastness [←]	EN ISO 105-B02:2014←	requirement in
	103-602.2014←	the standard.←

Lot1: Black Waterproof Trouser

• Two flap pockets symmetrically placed on the left and right sides

 The trouser legs with zipper openings are convenient for putting on and taking off boots.



LOT 2 : ³/₄ Length Hi-Vis Waterproof Jacket



- 2.1 This high visibility ¾ length waterproof jacket with a zipped in liner will be worn by uniformed officers and staff whilst undertaking a full range of operational duties, including working on high-speed roads and will form part of a layering system that aims to provide the wearer with comfort, warmth and keep them dry during long periods of exposure.
- 2.2 High level of breathability (maintained during wet weather)
- 2.3 Windproof WaterproofAs Lightweight as possibleHigh level of breathability (maintained during wet weather)Freedom of movement whilst carrying out a wide range of duties
- 2.4 High visibility yellow shade conforming to EN ISO 20471:2013+A1:2016(class 3)EN 343:2019 (class 4) and be suitable for use on high-speed roads.
- 2.5 The ¾ Length Hi-Visibility Waterproof Jacket must conform to EN ISO 20471:2013+A1:2016 (class 3) and EN 343:2019 (class 4) and be suitable for use on high-speed roads.

Garment Property	Test Standard←	Requirement←
Protective Clothing - protection against rain←	EN 343:2019€	Class 4 (outer garment only)←
High-visibility←	EN ISO 20471:2013 + A1:2016←	Class 3←
Physiological effects. Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)←	EN ISO 11092:2014← R _{ct} (thermal)←	0.121±0.006 R _{ct} m²K/W (minimum)← (<u>liner</u> only)←
<u>Colour</u> fastness←	EN ISO 105-B02:2014←	Meet requirement in the standard.←
Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting←	EN ISO 12945-2:2020←	≥ 4 at 2000 rubs←



Lot 2: Hi-Vis Waterproof Trouser



- 2.5. The Hi-Vis Waterproof Trouser will be worn by uniformed officers and staff whilst undertaking a full range of operational duties, including working on high-speed roads and will form part of a layering system that aims to provide the wearer with comfort and warmth. It is therefore important that these garments complement this aim.
- 2.6. This waterproof trouser must conform to EN ISO 20471:2013+A1:2016 (class 1) and EN 343:2019 (class 4) and must be suitable for use on high-speed roads. The construction of the garment must provide maximum breathability whilst retaining the waterproof properties
- 2.7. The size roll must cover the general population and include short, regular and long options.
- 2.10.Colour High visibility yellow shade option conforming to EN ISO 20471:2013+A1:2016 (class 1). The shade of the fabrics must not change during production, storage, washing or during the life of the garment

Garment Property	Test Standard←	Requirement←
Protective Clothing - protection against rain←	EN 343:2019←	Class 4←
High-visibility←	EN ISO 20471:2013 + A1:2016←	Class 1←
<u>Colour</u> fastness←	EN ISO 105-B02:2014←	Meet requirement in the standard.←

Lot 2: Hi-Vis Waterproof Trouser

• The trouser have elasticated waist feature





• The trouser have a compact carry bag.

High visibility yellow shade option conforming to EN ISO 20471:2013+A1:2016 (class 1).

The trouser legs with zipper openings are convenient for putting on
 and taking off boots.

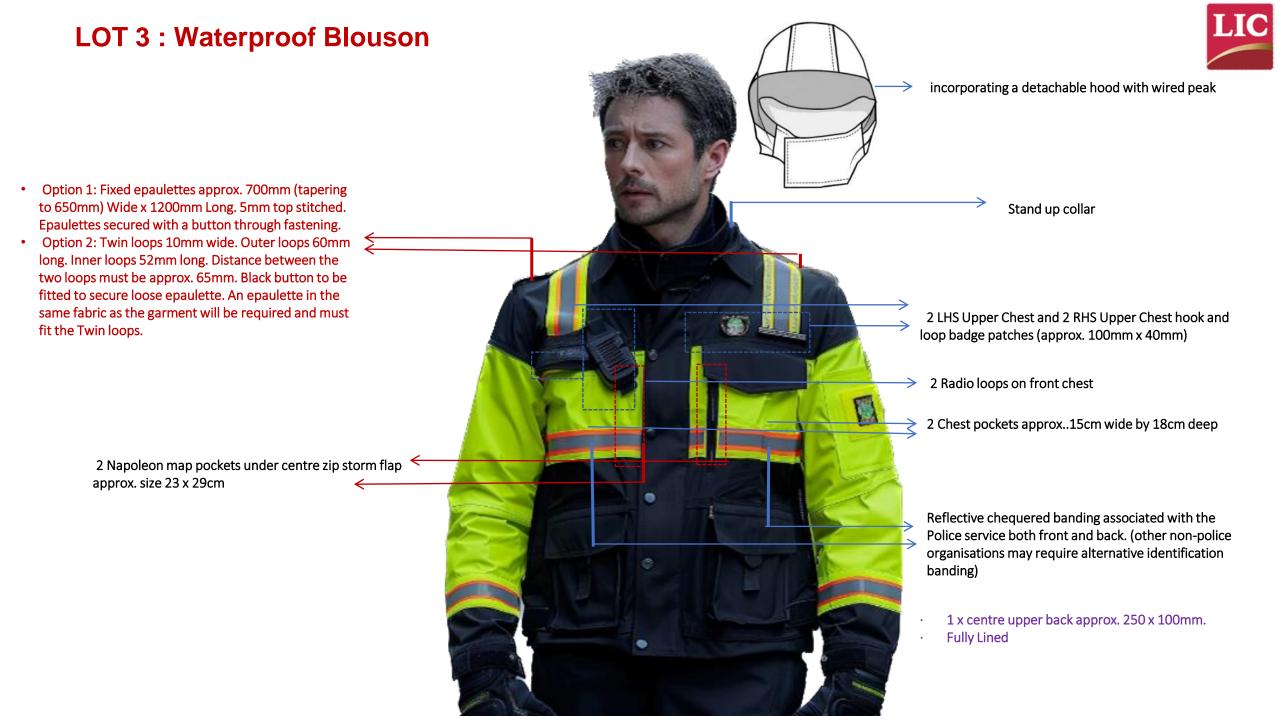
LOT 3: Waterproof Blouson

- LIC
- 3.1. The Waterproof Blouson must be available in both Hi-Vis Yellow and Black will be worn by uniformed officers and staff whilst undertaking a full range of operational duties, including working on high-speed roads and will form part of a layering system that aims to provide the wearer with comfort and warmth. It is therefore important that these garments complement this aim.
- 3.2. The high visibility blouson must conform to EN ISO 20471:2013+A1:2016 (class 3) and EN 343:2019 (class 4) and be suitable for use on high-speed roads. The construction of the garment must provide maximum breathability whilst retaining the waterproof properties.
- 3.3. The key critical garment attributes must include:
- Colours High visibility yellow shade option conforming to EN ISO 20471:2013+A1:2016. All black option must also be available. The shade of the fabrics must not change during production, storage, washing or during the life of the garment.
- Windproof
- Waterproof
- · As Lightweight as possible
- · High level of breathability (maintained during wet weather)

Freedom of movement whilst carrying out a wide range of duties

Ability to attach an optional zipped in liner. Blouson must be available to purchase with or without the liner.

Garment Property	Test Standard	Requirement
Protective Clothing - protection against rain	EN 343:2019	Class 4 (outer garment only)
High-visibility	EN ISO 20471:2013 + A1:2016	Class 3 (<u>Hi-Vis</u> Yellow option only)
Physiological effects. Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)	EN ISO 11092:2014 R _{ct} (thermal)	0.121±0.006 R _{ct} m ² K/W (minimum) (liner only)
Colour fastness	EN ISO 105-B02:2014	Meet requirement in the standard.
Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting	EN ISO 12945- 2:2020	≥ 4 at 2000 rubs (liner only)



Lot 4: Lightweight Hi-Vis Showerproof Jacket



- 4.1. This Lightweight Hi-Vis Showerproof Jacket is predominantly for use in summer months and will be worn by uniformed officers and staff whilst undertaking a full range of operational duties, including working on high-speed roads and will form part of a layering system that aims to provide the wearer with comfort. It is therefore important that these garments complement this aim.
- 4.2. The Lightweight Hi-Vis Showerproof Jacket must conform to EN ISO 20471:2013+A1:2016 (class 3) and EN 343:2019 (class 1) and be suitable for use on high-speed roads. The construction of the garment must provide maximum breathability whilst retaining the showerproof properties.
- 4.3. The key critical garment attributes must include:
- · Colours High visibility yellow shade option conforming to EN ISO 20471:2013+A1:2016. The shade of the fabrics must not change during production, storage, washing or during the life of the garment
- The Lightweight Hi-Vis Showerproof Jacket must have a compact carry bag.
- Windproof
- Showerproof
- Lightweight
- · High level of breathability (maintained during wet weather)

Freedom of movement whilst carrying out a wide range of duties

Garment Property	Test Standard	Requirement	
Protective Clothing -	EN 343:2019	Class 1	
protection against rain	LN 343.2019	Class 1	
High-visibility	EN ISO 20471:2013 +	Class 3	
High-visibility	A1:2016	Class 3	
Colour fastness	EN ISO 105-B02:2014	Meet requirement in the	
Colour lastiless	EN 130 103-002.2014	standard.	

Lot 4: Lightweight Hi-Vis Showerproof Jacket

incorporating a concealed detachable hood with wired

• Option 1: Fixed epaulettes approx. 700mm (tapering to 650mm) Wide x 1200mm Long. 5mm top stitched. Epaulettes secured with a button through fastening.

Option 2: Twin loops 10mm wide. Outer loops 60mm long. Inner loops 52mm long. Distance between the two loops must be approx. 65mm. Black button to be fitted to secure loose epaulette. An epaulette in the same fabric as the garment will be required and must fit the Twin loops.

Stand up collar Killetone

2 LHS Upper Chest and 2 RHS Upper Chest hook and loop badge patches (approx. 100mm x 40mm)

1 x centre upper back approx. 250 x 100mm

2 "Klickfast" docks, 1 located on each side of upper chest

Reflective chequered banding associated with the Police service both front and back. (other non-police organisations may require alternative identification banding)



Lot 5: Lightweight Hi-Vis Jacket



- 5.1. This Lightweight Hi-Vis Jacket is predominantly for use in summer months and will be worn by uniformed officers and staff whilst undertaking a full range of operational duties, including working on high-speed roads and will form part of a layering system that aims to provide the wearer with comfort and warmth. It is therefore important that these garments complement this aim.
- 5.2. The high visibility lightweight Jacket must conform to EN ISO 20471:2013+A1:2016 (class 3) and be suitable for use on high-speed roads. The construction of the garment must provide maximum breathability.
 - Lightweight
 - High level of breathability
 - Freedom of movement whilst carrying out a wide range of duties

Garment Property←	Test Standard←	Requirement←
High-visibility←	EN ISO	
	20471:2013 +	Class 3←
	A1:2016←	
<u>Colour</u> fastness	ENTICO	Meet
	EN ISO	requirement in
	105-B02:2014←	the standard.←





Reflective chequered banding associated with
the Police service both front and back. (other
non police organisations may require
alternative identification banding)

2 LHS Upper Chest and 2 RHS Upper Chest hook and loop badge patches (approx. 100mm x 40mm) and 1 x centre upper back approx. 250 x 100mm.

Lot 6: Multi-Functional Jacket



- 6.1. Currently police forces issue officers with a number of jackets working in conjunction with each other to provide the officer protection in a range of environments. BlueLight Commercial have set out the specification below to ask for options in order to solve this problem. This multi-functional jacket will be worn by uniformed officers and staff whilst undertaking a full range of operational duties. The jacket must provide the wearer with comfort, warmth and keep them dry during long periods of exposure. The proposed garment must have the ability to be worn independently or in its entirety, and it is therefore important that these garments look professional when worn together or independent of each other.
- 6.2. The winning bidders will work with BlueLight Commercial to develop this option further using innovation and design expertise.
- 6.3. The outer layer must conform to EN 343:2019 (class 4)

The key critical garment attributes of the outer option must include: All black

- Windproof
- Waterproof
- · As Lightweight as possible
- Freedom of movement whilst carrying out a wide range of duties

Garment Property←	Test Standard	Requirement←
Protective Clothing - protection against rain←	EN 343:2019€	Class 4 (outer garment only)
Physiological effects. Measurement of thermal and water-vapour resistance under steady-state conditions (sweating guarded-hotplate test)←	EN ISO 11092:2014← R _{ct} (thermal)←	0.121±0.006 R _{ct} m²K/W (minimum) (inner garment only only)←
<u>Colour</u> fastness←	EN ISO 105-B02:2014←	Meet requirement in the standard.←
Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting←	EN ISO 12945-2:2020€	≥ 4 at 2000 rubs (inner garment only)←





LIC

The key critical garment attributes of the inner option must include:

- Color All black. The shade of the fabrics must not change during production, storage, washing or during the life of the garment
- Inner garment must be both wearable independently and in conjunction with the outer garment
- Freedom of movement whilst carrying out a wide range of duties

Garment Property	Test Standard	Requirement←
Protective Clothing - protection	EN 242-2010/1	Class 4 (outer
against rain←	EN 343:2019←	garment only)⊖
Physiological effects. Measurement		0.121±0.006
of thermal and water-vapour	EN ISO	R _{ct} m ² K/W
resistance under steady-state	11092:2014←	(minimum)
conditions (sweating	R್ಞ (thermal)←	(inner garment
guarded-hotplate test)		only only)⊖
	ENTRO	Meet
Colour fastness←	EN ISO	requirement in
	105-B02:2014←	the standard.←
Textiles — Determination of fabric	EN ISO	≥ 4 at 2000
propensity to surface pilling, fuzzing		rubs (inner
or matting←	12945-2:2020←	garment only)↩

