SPECIFICATION FOR THE SUPPLY AND DELIVERY OF A HEAD PROTECTION SYSTEM FOR THE PUBLIC ORDER POLICING UNIT (POP): SOUTH AFRICAN POLICE SERVICE

SPECIFICATION NUMBER: SAPS 323293/2024



SOUTH AFRICAN POLICE SERVICE POPS HEAD PROTECTION SYSTEM

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SCOPE OF THE REQUIREMENT

The specification requires for the supply and delivery of a head protection system for the Public Order Policing unit (POP), South African Police Services.

This specification covers the material, general design and performance requirements for head protections systems for members of the Public Order Policing Unit of the South African Police Service.

IMPORTANT NOTICE!

- Attention is drawn to the detailed specification technical requirements herein.
- The SAPS requires that all columns in the specification document must be completed. If a specific column cannot be completed, a detailed explanation must be provided. The SAPS then use discretion to either accept or reject the explanation or deviation.
- No materials shall be supplied by the SAPS.
- Digital images/Illustrations/drawings in the specification are not scaled and are for guidance only.
- The SAPS takes no responsibility whatsoever for the violation of any patent rights.
- Attention is drawn to the possible requirement of an identification type and/or method of labeling in or onto the end-product or any part of the product as requested in the specification.
- The specification includes normative references to guide the product quality standards to which the product must adhere, and it refers to the latest edition of each standard as far as possible. The bidder is strongly encouraged to take steps to ensure the use and standards of the most recent editions of the norms and standards documents referred to in the specification.
- Indicate only **Comply** or **Not comply** in the "*State:*" box. No "X" or "√" indications shall be allowed.

2. DEFINITIONS AND ABBREVIATIONS

For the purpose of this specification the following definitions shall apply:

Acceptable:	Acceptable to the South African Police Service
Comfort padding:	Material that will assist in providing comfort
Chin cup:	Cup mounted on the webbing harness in which the wearer's chin fits
Harness/retention system:	Complete assembly of components which causes the helmet to stay in position on the wearer's head, including all adjustment mechanisms and comfort enhancers
Head protection system:	Fully assembled complete system
Nominal:	Subject to the tolerances normal to good manufacturing practice
SANS:	South African National Standard
Outer shell:	Hard outer case of the helmet
Protective padding:	Material that will serve the purpose to absorb impact energy

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NO	DESCRIPTION	STRICTLY ONLY STATE: COMPLY OR NOT COMPLY BELOW
1.	**SCOPE OF TACTICAL FLASHLIGHT REQUIREMENTS**	
1.1.	**Product overview/parts**	
1.1.1.	Helmet with adjustable visor and detachable back neck curtain.	STATE:
1.1.2.	Full face mask that can be attached to the helmet on the outside.	STATE:
1.1.3.	Two (2) replaceable canister filters for protection against teargas.	STATE:
1.1.4.	Note: Wireless communication system (still to be introduced).	STATE:
2.	**CLIENT FURNISHED MATERIALS**	
2.1.	No materials will be supplied by the South African Police Service.	STATE:
2.2.	All materials used for the manufacture of the head protection system shall be non-toxic and non-irritant.	STATE:
2.3.	The components given below shall be applied in such a way as to ensure that they comply with the relevant performance requirements as given in section 10 (individual components as well as complete system, as relevant).	STATE:
2.4.	**Outer shell**	
2.4.1.	To be manufactured from impact resistant ABS (Acrylonitrile Butadiene Styrene).	STATE:
2.4.2.	Material to be such that it shall not undergo reduction in protective ability under the influence of ageing or during the circumstances of use to which the helmet is normally subjected.	STATE:
2.4.3.	Have a matt finish and such that it shall not peel or crack for the full service life of the helmet.	STATE:
2.4.4.	Colour to be an acceptable dark navy blue as agreed upon between the SAPS and the supplier.	STATE:
2.4.5.	Colour No. 192c "Oxford blue" of CKS 129 "Colours for textiles" shall serve as a guideline.	STATE:
2.5.	**Inner shock-absorbing structure**	
2.5.1.	Acceptable form-fitting, shock absorbing protective polystyrene pad.	STATE:
2.5.2.	Such that it shall be fit for purpose in order to comply with the relevant performance requirements as given in section 10.	STATE:
2.6.	**Lining fabric**	

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2.6.1.	To be an acceptable breathable synthetic fabric with a moisture management system.	STATE:
2.6.2.	To comply with the performance requirements as given in 10.1.5 colour to be black.	STATE:
2.7.	**Foam**	
2.7.1.	To be acceptable closed cell foam.	STATE:
2.7.2.	Density and thickness to be such as to be fit for purpose.	STATE:
2.7.3.	Colour to be charcoal.	STATE:
2.8.	**Neck curtain material**	
2.8.1.	To be an acceptable PVC material with appropriate backing cloth that shall not tear, crack or become brittle with ageing.	STATE:
2.8.2.	Colour to be an acceptable match to the colour of the outer shell (or black).	STATE:
3.	**METAL COMPONENTS**	
3.1.	All fittings that facilitate adjustment of the webbing harness on the inside of the helmet shall be of metal. No alternatives shall be considered.	STATE:
3.2.	All metal components shall be electroplated to prevent corrosion.	STATE:
3.3.	To be smooth and free from burrs and sharp edges.	STATE:
3.4.	Such that it shall neatly accommodate the webbing with which it is used.	STATE:
3.5.	**Rivets**	
3.5.1.	Acceptable heavy duty metal rivets.	STATE:
3.6.	**Press studs**	
3.6.1.	Acceptable heavy duty metal press studs of the male and female type.	STATE:
3.7.	**Touch and close fastener**	
3.7.1.	To comply with the requirements of SANS 1823 "Touch and close fasteners".	STATE:
3.7.2.	Width to be appropriate for where it is used colour to be black.	STATE:
3.8.	**Chin pad cover fabric**	
3.8.1.	To be an acceptable brushed synthetic fabric with wicking.	STATE:
3.8.2.	To comply with the relevant performance requirements as given in 10.1.5.	STATE:
3.8.3.	Colour to be black.	STATE:
3.9.	**Webbing**	
3.9.1.	To comply with the requirements as given in table 1.	STATE:
3.9.2.	Colour to be black.	STATE:
3.9.3.	To be soft to the degree that it shall not chafe the face of the wearer.	STATE:
3.9.4.	Breaking and tensile strength to be such that it shall be fit for purpose in order to comply with the performance requirements as given in section 10.	STATE:
3.10.	**Visor material**	

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3.10.1.	Polycarbonate of minimum thickness 2 mm.	STATE:
3.10.2.	Transparent without any tint.	STATE:
3.10.3.	Such that it shall not distort the vision of the wearer.	STATE:
3.10.4.	To be scratch proof.	STATE:
3.10.5.	To have a non-glare and anti-misting coating to minimize fogging and enhance visibility.	STATE:
3.11.	**Threats**	
3.11.1.	To comply with relevant requirements of SANS 1362 "Sewing threads".	STATE:
3.11.2.	Colour to be black.	STATE:
3.11.3.	**Sewing thread:**	
3.11.3.1.	Continuous filament thread, ticket No 40	STATE:
3.12.	**Protective bag outer material**	
3.12.1.	To consist of 93% meta-aramid fiber, 5 % para-aramid fibers and 2% Electrostatic charge dissipative fibers	STATE:
3.12.2.	Colour to be black	STATE:
4.	**WORKMANSHIP**	
	The head protection system shall be:	
4.1.	Made with first-class workmanship throughout.	STATE:
4.2.	of uniform and acceptable make, colour and finish.	STATE:
4.3.	**The head protection system shall be free from:**	
4.3.1.	Defects that affect their appearance or may affect their serviceability (or both).	STATE:
4.3.2.	Cracking.	STATE:
4.3.3.	Marks, spots and stains incurred in the making-up.	STATE:
4.4.	**Seams and stitches shall be:**	
4.4.1.	Smooth and uniform	STATE:
4.4.2.	Free from twists, pleats and puckers	STATE:
4.4.3.	Sufficiently extensible to avoid seam cracking and undue shrinkage in use	STATE:
4.5.	**Ends of sewing shall be:**	
4.5.1.	Trimmed and loose threads removed	STATE:
4.5.2.	Back-tacked if unsecured (at least 5 mm)	STATE:
4.6.	**Points not defined in the specification that requires assessing at inspection:**	
4.6.1.	Defects (as given in Annex B) shall not exceed the specified maxima when assessed according to the sampling plan as given in Annex C	STATE:
4.7.	**Sizes and dimensions**	

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4.7.1.	The helmet (outer shall) shall be supplied in a single shell size, but with multiple headband and inner lining combinations to facilitate adjustment to make provision for sizes 52 to 62.	STATE:
4.8.	**Design requirements**	
4.8.1.	The head protection system shall be of a design that ensures comfortable wearing by men and women based on a singular shell design with multiple head band and/or inner lining geometries	STATE:
4.8.2.	Each head protection system shall consist of the following main components:	STATE:
4.8.3.	Helmet (see 9.2)	STATE:
4.8.4.	Full face mask (see 9.3)	STATE:
4.8.5.	Two replaceable filter canisters for protection against teargas (see 9.4) - communication system (see 9.5)	STATE:
4.9.	**Helmet**	
4.9.1.	Each helmet shall consist of the following main elements	STATE:
4.9.2.	A hard outer shell (see 9.2.1)	STATE:
4.9.3.	Inner shell consisting of the following (see 9.2.4).	STATE:
4.9.3.1.	➢ Protective padding/inner shock-absorbing structure.	STATE:
4.9.3.2.	➢ Comfort padding/inner liner.	STATE:
4.9.10.	Adjustable headband (see 9.2.5).	STATE:
4.9.11.	Adjustable webbing chin strap harness (see 9.2.6).	STATE:
4.9.12.	To comply with the performance requirements as specified in 10.1.	STATE:
4.9.13.	Applied adhesives shall not affect the performance parameters of the helmet.	STATE:
4.9.14.	All sewing shall be done using lockstitches throughout.	
4.10.	**Outer shell**	
4.10.1.	NOTE: All holes, perforations and fittings attached to the outer shell shall be such that it shall not cause the helmet to lose its integrity.	STATE:
4.10.2.	Made from materials as specified in 6.2.	STATE:
4.10.3.	Shall have a spherical shape.	STATE:
4.10.4.	Have sufficient ventilation holes on the sides/and or back to ensure comfortable wearing.	STATE:
4.10.5.	The total area of such ventilation holes shall not be less than 150 mm2 and not more than 450 mm2.	STATE:
4.10.6.	Sufficient clearance shall exist between the wearer's head and shell sides as to facilitate the wearing of a communication piece.	STATE:
4.10.7.	A black rubber edge trim shall be affixed to the circumference of the outer	STATE:

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	edges of the shell.	
4.10.8.	To be fitted with a permanently attached visor (see 9.2.2.).	STATE:
4.10.9.	The compulsory fitting/attachments to the exterior of the shell shall be as given in figure 11.	STATE:
4.10.10.	The compulsory fittings/attachment to the interior of the shell shall be as figure 11.	STATE:
4.11.	**Visor**	
4.11.1.	Shall be made from materials as given in 6.1.	STATE:
4.11.2.	Be an acceptable bubble shape visor.	STATE:
4.11.3.	To be incrementally adjustable to facilitate at least three adjustment positions in addition to the fully open and fully closed position.	STATE:
4.11.4.	Both sides of the visor shall be fitted with a ratchet system to prevent the visor from moving out of position.	STATE:
4.11.5.	A rubber seal shall be fitted along the top edge of the visor to ensure that fluids (e.g. rain) do not enter between the helmet and the visor from the top side.	STATE:
4.11.6.	Such that when a full face mask 9see9.3) with attached filter is worn, the visor shall remain adjustable and shall be able to acceptably open and close the mask.	STATE:
4.12.	**Neck curtain**	
4.12.1.	Made from neck curtain material (see 6.6), lined with the same material and interlined with a layer of acceptable closed-cell foam to result in a nominal finished thickness of 10 mm.	STATE:
4.12.2.	Finished neck curtain shall be of such length as to encompass a minimum of 30 % of the helmet circumference.	STATE:
4.12.3.	To be detachable for easy replacement/cleaning purposes.	STATE:
4.12.4.	Neck curtain to fasten on the inside neck area of the outer shell.	STATE:
4.12.5.	A minimum of four press studs (see 6.6.3) shall be used on the neck curtain and corresponding sections shall be attached to the outer shell.	STATE:
4.12.6.	The neck curtain shall be designed in such a way that after attachment to the shell, it shall protrude a minimum depth of 12 cm from beyond the bottom edge of the helmet (see figure 11).	STATE:
4.13.	**Inner shell**	
4.13.1.	Designed in such a way that it shall not exert pressure on specific points of the wearer's head.	STATE:
4.13.2.	Consist of a protective pad and a comfort head cradle.	STATE:
4.13.3.	The protective pad shall be made from materials as specified in 6.3 that shall contribute to the absorption of kinetic energy during impact.	STATE:

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4.13.4.	The protective pad shall be covered by breathable lining materials (see 6.4) and shaped and formed to fit the outer shell impeccably.	STATE:
4.13.5.	In addition to the protective pad, there shall be a floating adjustable mesh Head cradle that shall be designed in such a way as to enable full functionality of the moisture management system and provide sufficient comfort by means of padding/foam.	STATE:
4.13.6.	The internal vertical clearance between the shell and head cradle, when adjusted to a proper fit and regardless of head size, shall not be less than 20 mm.	STATE:
4.14.	**Adjustable head band**	
4.14.1.	Made from materials as given in 6.x.	STATE:
4.14.2.	To be interlined with webbing to provide sufficient strength.	STATE:
4.14.3.	To form part of a system that shall enable the head band to be adjusted.	STATE:
4.14.4.	Head band to be of acceptable width to ensure maximum comfort.	STATE:
4.14.5.	To be secured to the inside of the helmet by at least six (6) attachment points.	STATE:
4.14.6.	To be fitted with touch and close fastener to facilitate quick release and easy adjustment.	STATE:
4.14.7.	Adjustable webbing chin strap harness.	STATE:
4.15.8.	All cut ends of the webbing shall be heat sealed to prevent fraying.	STATE:
4.15.9.	Webbing shall be as given in 6.9.	STATE:
4.15.10.	To be adjustable at two points (minimum).	STATE:
4.15.11.	The webbing harness shall only be freed by deliberate action only.	STATE:
4.15.12.	Length to be such that it shall make provision for adjustment.	STATE:
4.15.13.	Attachment mechanisms of the webbing harness to be properly secured to the shell at the back and sides.	STATE:
4.15.14.	To incorporate a chin cup that shall be manufactured from a soft moulded inflexible material that shall be covered by material as specified in 6.8	STATE:
4.15.15.	Chin cup position to be adjustable, but once the desired position has been determined, it shall be secured in that position and shall not slide to another position without deliberate action	STATE:
4.15.16.	Fitted with an attachment strap that shall fasten to the belt of the wearer	STATE:
4.15.17.	The Strap to be 20 mm wide webbing	STATE:
4.15.18.	Permanently attached to the helmet and situated between the shell and the chin strap on the side	STATE:
4.15.19.	To be adjustable by means of touch and close fastener	STATE:
4.15.20.	Strap to be of minimum finished length 32 cm, folded onto itself, resulting in a loop that fastens by means of touch and close fastener	STATE:

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4.16.	**Full face mask**	
4.16.1.	To have a U-shaped seal, silicone flange designed for a long shelf life and silicone expiratory valve	STATE:
4.16.2.	To have an adjustable strap and hook system to enable quick attachment to the helmet anchor points	STATE:
4.16.3.	to comply with the performance requirements as specified in 10.2.	STATE:
4.17.	**Filters**	STATE:
4.17.1.	To be fully compatible with the full-face mask, helmet and visor.	STATE:
4.17.2.	Two canisters shall be supplied together with each head protection system ordered.	STATE:
4.17.3.	To comply with the performance requirements as specified in 10.3.	STATE:
4.18.	**Communication system**	
4.18.1.	To be fully compatible with the full-face mask, helmet and visor.	STATE:
4.18.2.	An acceptable blue tooth communication system with the following attributes: SAPS to supply requirements.	STATE:
4.19.	**Protective bag**	
4.19.1.	Each head protection system shall be delivered in a protective textile bag (see 12.1.1):	STATE:
4.19.1.1.	Made from materials as given in 6.12.	STATE:
4.19.1.2.	To be padded to provide protection against any form of damage while in transit.	STATE:
4.19.1.3.	To have a draw-string closure.	STATE:
4.19.1.4.	Of such size as to neatly accommodate all components.	STATE:
5.	**PERFORMANCE REQUIREMENTS**	
5.1.	**Helmet**	
5.1.1.	The head protection system shall be able to ensure that the force transmitted during shock does not exceed 5.0 kN when tested in accordance with paragraph 6.6 of SANS 1397/EN 397 "Industrial safety helmets".	STATE:
5.2.	**Full face mask**	
5.2.1.	To comply with the requirements of SANS 50136/EN 136: "Respiratory protective devices, Full face masks. Requirements, testing, marking" to offer acceptable respiratory protection in combination with the attributes as given in table 2.	STATE:
5.3.	**Filters**	
5.3.1.	The canister filters used for the full-face mask shall provide sufficient protection against tear gas and comply with the requirements.	STATE:

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5.3.2.	The particles filtering of the canister filter shall be level P3 of BS EN 143: 2000, "Respiratory protective devices. Particle filters. Requirements, testing, marking" (high efficiency filter 99.95%).	STATE:
5.4.	**Mass**	
5.4.1.	The nominal mass of a fully assembled helmet (helmet with attached visor, inner protective linings and neck curtain) shall be 1355g when weighed on a calibrated mass balance at room temperature.	STATE:
5.4.2.	Textile component performance requirements.	STATE:
5.4.3.	Have a minimum colour fastness rating 4 to light when tested in accordance with SANS 105-B02/ISO 105-B02 "Textiles Tests for colour fastness Part B02: Colour fastness to artificial light: Xenon arc fading lamp test".	STATE:
5.4.4.	Have a minimum colour fastness rating of 4 to perspiration when tested in accordance with SANS 105-E04/ISO 105-E04, Textiles for colour fastness. Part E04: Colour fastness to perspiration.	STATE:
5.4.5.	Have a minimum colour fastness rating of 4 to water when tested in accordance with SANS 105-E01/ISO 105-E01, Textiles Tests for colour fastness Part E01: Colour fastness to water.	STATE:
5.5.	**Markings and labelling of each helmet**	
5.5.1.	The following information shall be printed on a label and/or embossed on the inside of the shell surface in legible and indelible block letters of height at least 3 mm and such that it shall outlast the product: • Manufacturer's name • Year of manufacture • Size or size range • Batch number	STATE:
5.6.	**Packing of helmets and accessories**	
	The head protection system (consisting of the helmet with integrated communication system, full face mask and two canister filters) shall be:	
5.6.1.	Delivered in a commercially dry condition.	STATE:
5.6.2.	So packed that they will not be damaged in transit or in storage.	STATE:
5.6.3.	Packed in the textile bag (see 9.6) together with the relevant amount of silica gel sachets.	STATE:
5.6.4. 5.6.4.1	Unless otherwise specified in the order or contract, acceptably packed for transportation in acceptable bulk containers that comply with the following: Coffin type boxes with a base and lid.	 STATE:
5.6.4.2	Double sided corrugated board boxes.	STATE:

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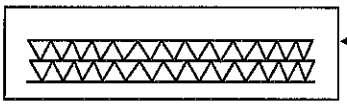
5.6.5.	Diagram of board  ← double-sided corrugated	STATE:
5.7.	**Contents of bulk container:**	
5.7.1.	Total mass of packed bulk containers shall not exceed 25 kg.	STATE:
5.7.2.	Only head protection systems of the same size designation to be packed together in a bulk container.	STATE:
5.7.3.	Each bulk container shall contain the same amount of head protection systems (per consignment).	STATE:
5.7.4.	The number of head protection systems packed in a bulk container shall always be a factor of five, e.g. 5, 10 (according to the supplier's discretion).	STATE:
5.7.5.	Different sizes shall not be packed together in a bulk container. The last bulk container of each specific size, per consignment, may contain quantities that deviate from the prescribed amount of head protection Systems. If this is the case, the supplier will mark the container clearly with a visible red sticker at each outer end of the lid for easy identification.	STATE:
5.8.	**Bulk containers**	
	Each bulk container shall have a label securely attached to the outside. This label shall be visible when the containers are stacked and shall provide the information in legible and indelible markings as follows:	
5.8.1.	• The manufacturer's name or trademark or both	STATE:
5.8.2.	• The order number or contract number	STATE:
5.8.3.	• The item description (designation)	STATE:
5.8.4.	• The quantity of the item	STATE:
5.8.5.	• The size designation of the item	STATE:
5.8.6.	• The year of manufacture	STATE:
5.8.7.	• The Item Control Number (ICN)	STATE:
5.8.8.	• The invoice number(s)	STATE:
5.8.9.	• The total mass of the packed container	STATE:
5.8.10.	• The SABS Inspection Certificate Number	STATE:
5.9.	**Additional marking**	
5.9.1.	When so required by the South African Police Service, Supply Chain Management, helmets, full face masks, filters, bags, communication system, containers (or any combination of these) to bear information	STATE:

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	additional to that specified above, e.g. the inclusion of bar-coded item labels OR any other marking methods utilized/introduced by the SAPS.	
5.10.	**NORMATIVE REFERENCES**	
5.11.	The following standards contain provisions which, through reference in this text, constitute provisions standards of items mentioned of this specification. All standards are subject to revision and since any reference to a standard is deemed to be a reference to the most recent edition of that standard, parties to agree to standards based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards applicable to standards below. Information on currently valid national and international standards may be obtained from the South African Bureau of Standards (SABS).	
5.11.1.	➢ AATCC method 20, Fiber analysis: Qualitative. ➢ BS EN 14387:2004+A1:2008: Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking. ➢ BS EN 143:2000: Respiratory protective devices. Particle filters. Requirements, testing, marking. ➢ CKS 129: Colours for textiles. ➢ ISO 17025:2005: General requirements for the competence of testing and calibration laboratories. ➢ SANS 105-B02/ISO 105-B02: Textiles: Tests for colour fastness, Part B02: Colour fastness to artificial light: Xenon arc fading lamp test. ➢ SANS 105-E01/ISO 105-E01: Textiles: Tests for colour fastness, Part E01: Colour fastness to water. ➢ SANS 105-E04/ISO 105-E04: Textiles: Tests for colour fastness, Part E04: Colour fastness to perspiration. ➢ SANS 1362: Sewing threads. ➢ SANS 1397/EN 397: Industrial safety helmets. ➢ SANS 1823: Touch and close fasteners. ➢ SANS 5488: Width of ribbons and other narrow fabrics. ➢ SANS 50134/EN 134: Respiratory protective devices. Nomenclature of components. ➢ SANS 50135/EN 135: Respiratory protective devices. List of equivalent terms. ➢ SANS 50136/EN 136: Respiratory protective devices. Full face masks requirements, testing, marking.	STATE:
6.	**Deviation from specification requirements**	
	Should the bidder deviate from any of the technical requirements within	

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	the specification, must it be clearly indicated as such below. The SAPS has the right to accept or to reject the alternative offer/deviation indicated by the bidder.	

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Table 1 – Webbing requirements

1	2	3	4
Property	**Requirement**	**SANS number (unless otherwise indicated)**	**STATE: COMPLY OR NOT COMPLY**
Composition, %	All continuous filament polyester	AATCC 20	STATE:
Thickness, mm	1.0 ± 0.1	Physical analysis	STATE:
elvedge	Lockstitch	5488	STATE:
Width, mm, min	20		STATE:

Table 2 - Technical requirements for the full face mask

1	2	3	4
Aspect	**Unit**	**Requirement**	**State: Comply or not comply only**
Inhalation resistance tested at 30 litres/minute	mbar	Maximum 0.50	
Inhalation resistance tested at 95 litres/minute	mbar	Maximum 1.50	
Inhalation resistance tested at 160 litres/minute	mbar	Maximum 3.0	
CO_2 in the inner mask	%	< 1	
Field of vision	%	>75	

7. DIGITAL ILLUSTRATIONS/IMAGES

The head protection system parts depicted in the images/illustrations below only serves as examples of a suitable type of item required, but not does not limit the required item and alternatives similar to the specification requirement and may be deemed acceptable, if the final product is accepted by the SAPS.

Figure 1 – Example of typical side views of helmet and visor





Figure 2 – Example of typical front view of helmet and visor



Figure 3 – Example of typical back view of helmet and neck curtain



Figure 4 – Example of typical inside view of helmet



Figure 5 – Example of typical detachable neck curtain



Figure 6 – Example of typical face mask



Figure 7 – Example of typical helmet and face mask integration



Figure 8 – Example of typical canister filter for protection against teargas



Figure 9 – Example of typical protective carry bag for head protection system



Figure 11 – Compulsory fitting on the interior of the helmet (image is an example of a suitable helmet)

