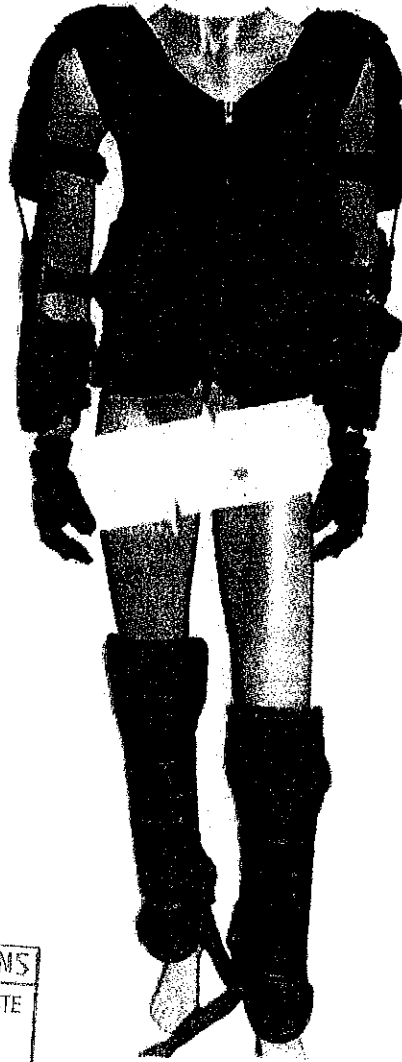


**PRIVATE SPECIFICATION**

Prepared for the  
**South African Police Service**




**Body Protection System, Public Order Policing (POP)**



**SUID-AFRIKAANSE POLISIEDIENS**  
AFDELING: OPERASIONELE REAKSIE DIENSTE  
OPENBARE ORDE POLISIERING: HK  
  
2021-09-27  
  
DIVISION: OPERATIONAL RESPONSE SERVICES  
PUBLIC ORDER POLICING: HQ  
**SOUTH AFRICAN POLICE SERVICE**

**SAPS 2583/21**  
**Version 02.1 / SEPTEMBER 2021**

  
MAJOR GENERAL  
Component Head: Public Order Policing  
ZIM Mkhwanazi



## 1. Scope

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

**NOTE 1:** Attention is drawn to clause 16.3 regarding the possible inclusion of bar-coded markings.

**NOTE 2:** Attention is drawn to the Compulsory Compliance Declaration. The bidder must indicate in writing with a **YES** for compliance with the requirements and a **NO** for non-compliance with the requirements in the relevant column of every specification field. Failure to do this will be interpreted as **NO** and will result in the disqualification of the bid.

## 2. Definitions

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

**Acceptable:** Acceptable to the South African Police Service  
**Nominal:** Subject to the tolerances normal to good manufacturing practice  
**SANS:** South African National Standard

## 3. Product overview and Item Control Numbers

Each body protection system shall consist of the components as given in table 1 which shall be worn together as an ensemble and be fully compatible with each other.

Table 1 – Components and Item Control Numbers of body protection system

1 List of Items	2 Item description	3 Item Control Number	4 COMPLY	
			YES	NO
Jacket	Jacket, Body Protection System, W/Shoulder padding, One size Fits All	8470T05020055		
Arms shield, Left	Pad, Arm, Body Protection System, One Size Fits All	8470T05020059		
Arm shield, Right				
Leg shield, Left	Pad, Leg, Body Protection System,	8470T05020060		
Leg shield, Right				
Radio pouch	Pouch, Body Protection System	8470T05051824		
Left lower front pouch				
Right lower front pouch				
Face mask back pouch				
Pair of gloves	Gloves, Leather, Personal Protective Equipment	8415T05030474		

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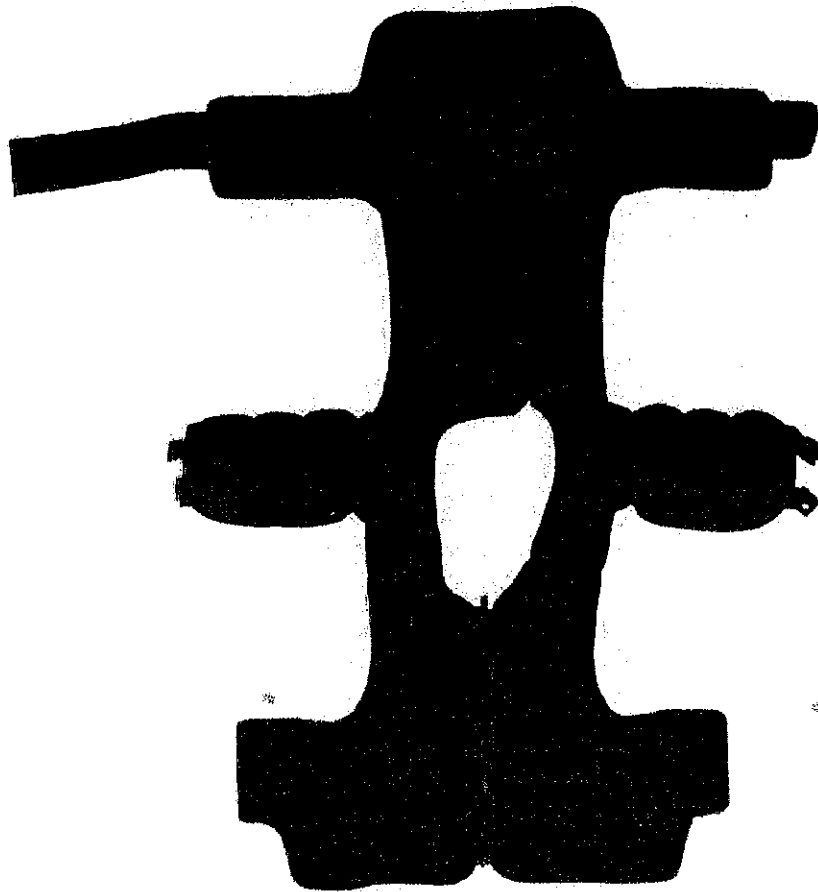
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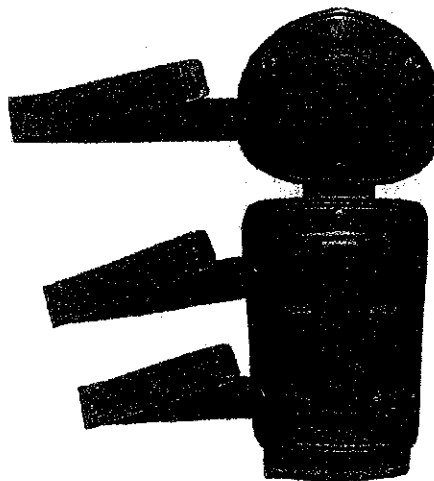
**4. Digital Images**

*The body protection system depicted in the images in this private specification is an example of a suitable type, but not limited to what will be deemed as acceptable.*



**Figure 1 – Example of typical jacket**

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**Figure 2 – Example of typical arm protection shield**

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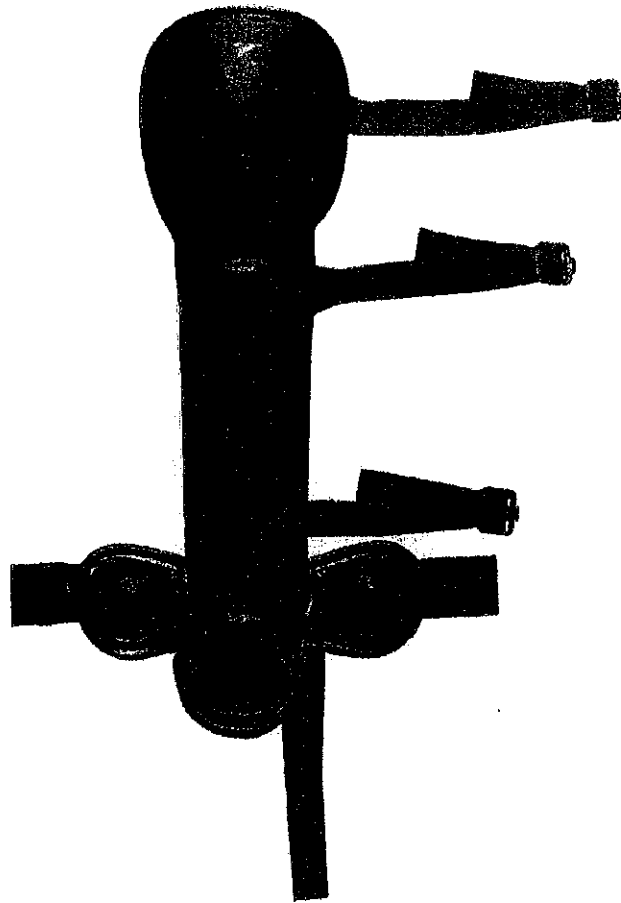
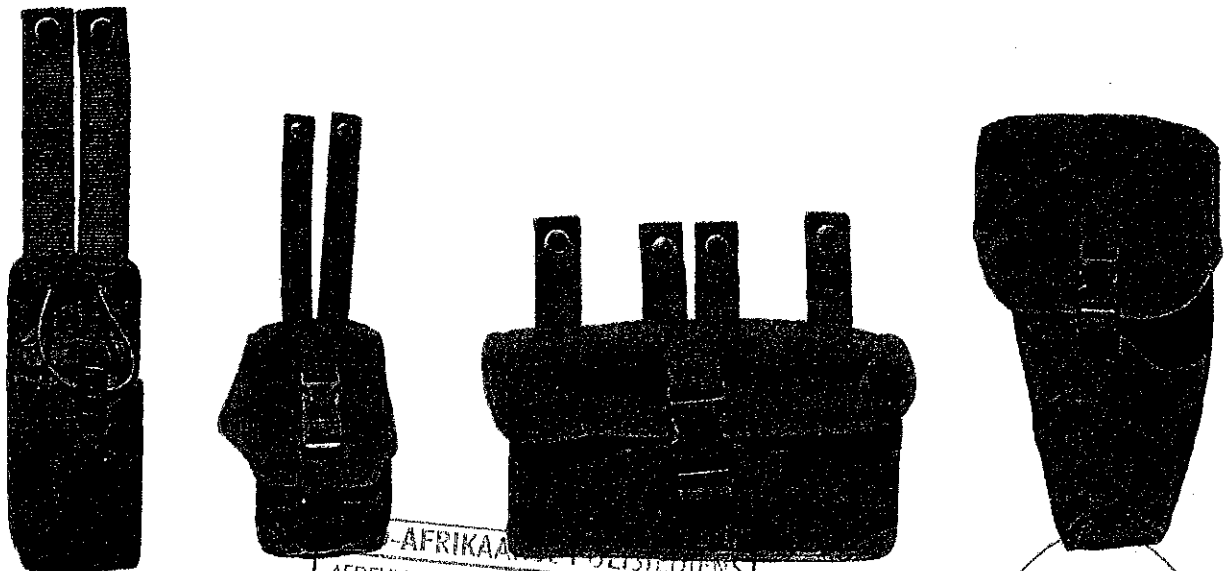


Figure 3 - Example of typical leg protection shield



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Figure 4 - Example of typical detachable pockets

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Figure 5 - Example of typical back hand view of gloves

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Figure 6 - Example of typical palm side of glove

**5. Client Furnished Materials**

No materials will be supplied by the South African Police Service.	Yes	No

**6. Component requirements**

6.1 General	Yes	No
all materials used for the manufacture of the body protection system shall be non-toxic and non-irritant		
<b>6.2 Jacket outer material</b>		
◆ made from inherent flame retardant synthetic fibres		
◆ to consist of 93% meta-aramid fibre, 5 % para aramid fibres and 2% electrostatic charge dissipative fibres		
◆ nominal finished mass of 260 g/m <sup>2</sup> when tested in accordance with ISO 3801 "Textiles – Woven fabrics – Determination of mass per unit length and mass per unit area		
◆ examples of suitable outer materials are Nomex® Comfort <sup>1</sup> and Kermel®		
◆ to comply with the relevant requirements for performance class C, Category 1 of SANS 1423-1 "Performance requirements for textile fabrics of low flammability Part 1: Apparel fabrics"		
◆ colour to be black		
◆ have a minimum colour fastness rating of 5 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"		
◆ have a minimum colour fastness rating of 4 to perspiration when		

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<sup>1</sup> These trade names are given for the convenience of users of this private specification and do not constitute an endorsement by the South African Police Service of the products named. Equivalent products may be used if they can be shown to lead to the same results.

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tested in accordance with SANS 105-E04/ISO 105-E04, "Textiles – Tests for colour fastness – Part E04: Colour fastness to perspiration		
◆ 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 "have a water repellent finish		

6.3 Protective pad lining fabric	Yes	No
◆ to be an acceptable breathable synthetic fabric with a moisture management system with a soft handle and anti-microbial finish		
◆ have a minimum colour fastness rating of 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		
◆ have a minimum colour fastness rating of 4 to perspiration when tested in accordance with SANS 105-E04/ISO 105-E04, "Textiles – Tests for colour fastness – Part E04: Colour fastness to perspiration"		
◆ 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"		
◆ colour to be black		
6.4 Moulded protection sectional units	Yes	No
◆ acceptable reinforced material that can be moulded and able to withstand excessive force		
◆ the mechanical properties of the material used shall exceed the requirements given in table 2		

Table 2 – Performance requirement of moulded protection sectional units

1	2	3
Property	Requirement	Test method
Tensile strength, MPa, min.	12	ISO 6892-1
Elongation, %, min.	400	ISO 6892-1

6.5 Elastic webbing	Yes	No
◆ to comply with the requirements for type 1 of SANS 142 "Narrow elastic fabrics and strips"		
◆ colour to be black		
◆ has an expansion capability of at least 80%		
6.6 Touch and Close fastener	Yes	No
◆ to comply with the requirements of SANS 1823 "Touch and close fasteners"		
◆ colour to be black		

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◆ various widths		
◆ flammability requirements to comply with performance class C, Category 1 of SANS 1423-1 "Performance requirements for textile fabrics of low flammability Part 1: Apparel fabrics"		
<b>6.7 Slide fasteners</b>	<b>Yes</b>	<b>No</b>
◆ to comply with the requirements for performance class C fasteners of SANS 1822 "Slide fasteners"		
◆ two-way open end		
◆ elements to be of brass		
◆ colour to be black		
<b>6.8 Binding</b>	<b>Yes</b>	<b>No</b>
◆ acceptable webbing		
◆ width to be such that it is fit for purpose		
◆ to be able to withstand the same washing and drying procedures as specified for the outer material		
◆ colour to be black		
<b>6.9 Foam</b>	<b>Yes</b>	<b>No</b>
◆ to be acceptable closed cell foam		
◆ density and thickness to be such as to be fit for purpose		
<b>6.10 Coated PVC material</b>	<b>Yes</b>	<b>No</b>
◆ to be an acceptable fire retardant coated PVC material with appropriate backing cloth that shall not tear, crack or become brittle with ageing		
◆ colour to be black		
<b>6.11 Metal components</b>		
<b>6.11.1 General (applicable to all metal components)</b>	<b>Yes</b>	<b>No</b>
◆ all metal components shall be electroplated to prevent corrosion		
◆ to be smooth and free from burrs and sharp edges		
◆ such that it shall neatly accommodate the webbing with which it is used (as relevant)		
<b>6.11.2 Rivets</b>	<b>Yes</b>	<b>No</b>
◆ acceptable heavy duty metal rivets		
<b>6.11.3 Press studs</b>	<b>Yes</b>	<b>No</b>
◆ acceptable heavy duty metal press studs of the male and female type		
<b>6.11.4 D-rings and spring clips</b>		
◆ acceptable D-rings and spring clips suitable for use on gloves		
◆ spring clips of nominal length 25 – 30 mm		
<b>6.12 Webbing</b>	<b>Yes</b>	<b>No</b>
◆ to comply with the requirements as given in table 3		
◆ colour to be black		
◆ to comply with the relevant requirements for performance class C, Category 1 of SANS 1423-1 "Performance requirements for textile fabrics of low flammability Part 1: Apparel fabrics"		

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Table 3 – Webbing requirements

1 Property	2 Requirement	3 SANS number (unless otherwise indicated)	4 COMPLY	
			YES	NO
Composition, % .....	All continuous filament polyester	AATCC 20		
Thickness, mm .....	1.0 ± 0.1			
Selvedge .....	Lockstitch	Physical analysis		
Width, mm .....	20, 25, 35, 50	5488		

6.13 Moulded plastics adjustment fittings/buckles	Yes	No
◆ made from virgin plastics		
◆ not to become brittle with age and to outlast the garment		
◆ such that it shall neatly accommodate the adjustment straps with which it is used		
◆ colour to be black		
6.14 Jacket and pouch lining material	Yes	No
◆ to be an acceptable black polyester rip-stop lining fabric with a water repellent finish and high abrasion resistance		
◆ have a minimum colour fastness rating of 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"		
◆ have a minimum colour fastness rating of 4 to perspiration when tested in accordance with SANS 105-E04/ISO 105-E04, "Textiles – Tests for colour fastness – Part E04: Colour fastness to perspiration"		
◆ 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"		
6.15 Leather for gloves	Yes	No
◆ be full grain, inorganically-tanned bovine leather		
◆ be pigment-finished on the grain side (without obscuring the		
◆ natural grain) to a uniformly acceptable black colour		
◆ be free from defects that may affect its appearance or its serviceability, or both		
◆ be soft and pliable, of uniform texture and shall not be loose grained or pipy, hard or bony		
◆ after preparation in accordance with SANS 5616 "Preparation of samples (leather, elastomeric material and other footwear materials)", comply with the requirements of table 4		

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Table 4 — Requirements for leather

1 Property	2 Requirement	3 SANS number (unless otherwise indicated)	4 COMPLY	
			YES	NO
pH value, min. ....	3,3	4045 <sup>a</sup>		
Difference between pH values, max .....	0,7			
Thickness, mm, min. ....	1,0	2589		
Grease content (on a moisture-free basis), g/kg ...	50 – 100	5618		
Chromic oxide content <sup>b</sup> (on a grease and moisture-free basis), g/kg, min. ....	35	5398-1		
Shrinkage temperature °C, min. ....	100	3380		
Resistance to perspiration .....	No sign of brittleness	5628 <sup>c</sup>		
Extension, %, min. ....	15 with no signs of grain cracking	5639 <sup>d</sup>		
<b>Tensile strength and elongation at break</b>		5636		
Tensile strength, MPa, min. ....	15			
Elongation at break, %, min. ....	65			
Strength at right angles to stitch perforations, N/cm of width, min. ....	40	23910		
Resistance to to-and-fro rubbing, rating, min.		6080		
<b>Grain side</b>				
After 10 dry cycles .....	4			
After 50 wet cycles .....	4			
Colour fastness to water spotting after 16 h recovery, rating, % min. ....	4	105-E07		

- <sup>a</sup> Report the first reading and the difference between the two readings.
- <sup>b</sup> Applicable if chrome tanned.
- <sup>c</sup> Examine the dry test specimen for signs of brittleness after one cycle.
- <sup>d</sup> Tested on the dried perspiration test specimen under a pressure of 200 kPa.

6.16 Protective foam for gloves	Yes	No
◆ to be injection moulded foam/rubber padding		
◆ suitable example is polyurethane		
6.17 Mesh lining fabric	Yes	No
◆ an acceptable polyester air mesh type material with a soft handle suitable		
◆ mass to be such as to be fit for purpose		
◆ have approximately 46 holes per 2 cm <sup>2</sup> (given for guidance)		
◆ to comply with the same colour fastness requirements as specified for the jacket lining (see 6.14)		
◆ colour to be black		

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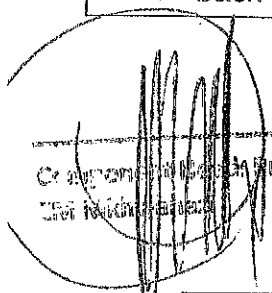
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<b>6.18 Threads</b>		
<b>6.18.1 General</b>	<b>Yes</b>	<b>No</b>
◆ to comply with relevant requirements of SANS 1362 "Sewing threads"		
◆ colour to be black		

<b>6.18.2 Sewing thread for jacket, protective pads and pouches</b>	<b>Yes</b>	<b>No</b>
◆ continuous filament thread, 100% Aramid fibres		
<b>6.18.3 Sewing thread for gloves</b>	<b>Yes</b>	<b>No</b>
◆ to comply with requirements as given in paragraph 4.3 of SANS 1297:2015 "Leather gloves"		

<b>7. Workmanship</b>
-----------------------

<b>The body protection system shall be:</b>	<b>Yes</b>	<b>No</b>
◆ made with first-class workmanship throughout		
◆ of uniform and acceptable make, colour and finish		
◆ <b>The body protection system shall be free from:</b>	<b>Yes</b>	<b>No</b>
◆ defects, that affect their appearance or may affect their serviceability (or both)		
◆ cracking		
<b>Seams and stitches shall be:</b>	<b>Yes</b>	<b>No</b>
◆ smooth and uniform		
◆ free from twists, pleats and puckers		
◆ sufficiently extensible to avoid seam cracking and undue shrinkage in use		
<b>Seams and stitches shall be:</b>	<b>Yes</b>	<b>No</b>
◆ smooth and uniform		
<b>Ends of sewing shall be:</b>	<b>Yes</b>	<b>No</b>
◆ trimmed and loose threads removed		
◆ back-tacked if unsecured (at least 5 mm)		

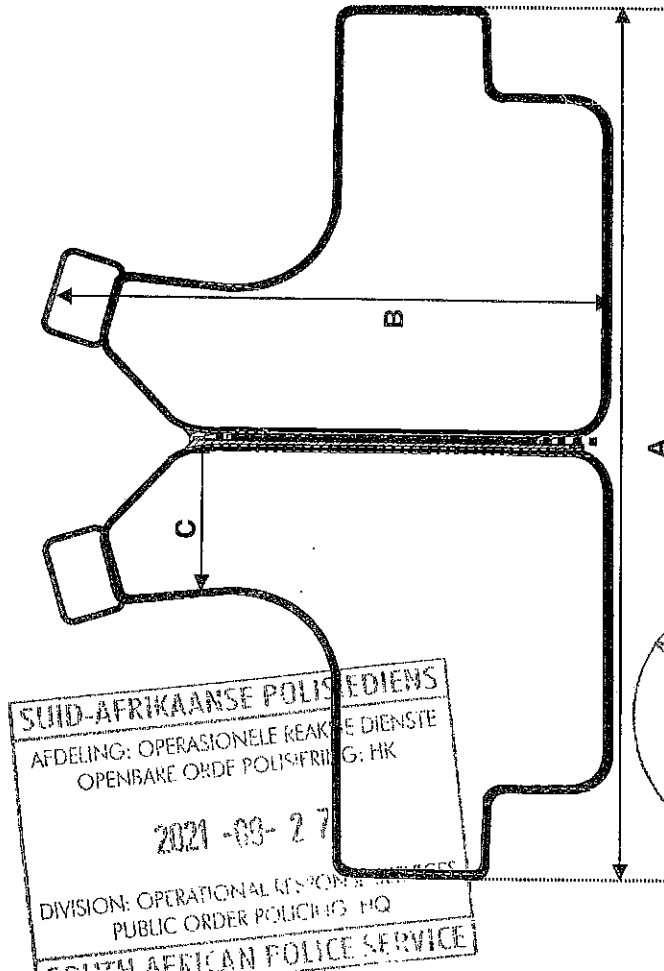
  
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**SIZE AND DIMENSIONS**

	YES	NO



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Measuring point	Description	Nominal finished measurement in cm	COMPLY	
			YES	NO
Front panel width: A	Measure across the width from the one side edge to the other	72 cm		
Front length: B	Measure in a straight line from the centre point at the shoulder to the bottom hem of the jacket	64 cm		
1/2 front chest width: C	Measure across the half front chest at approximately the top edge of the slide fastener	17 cm		

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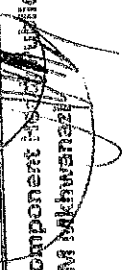
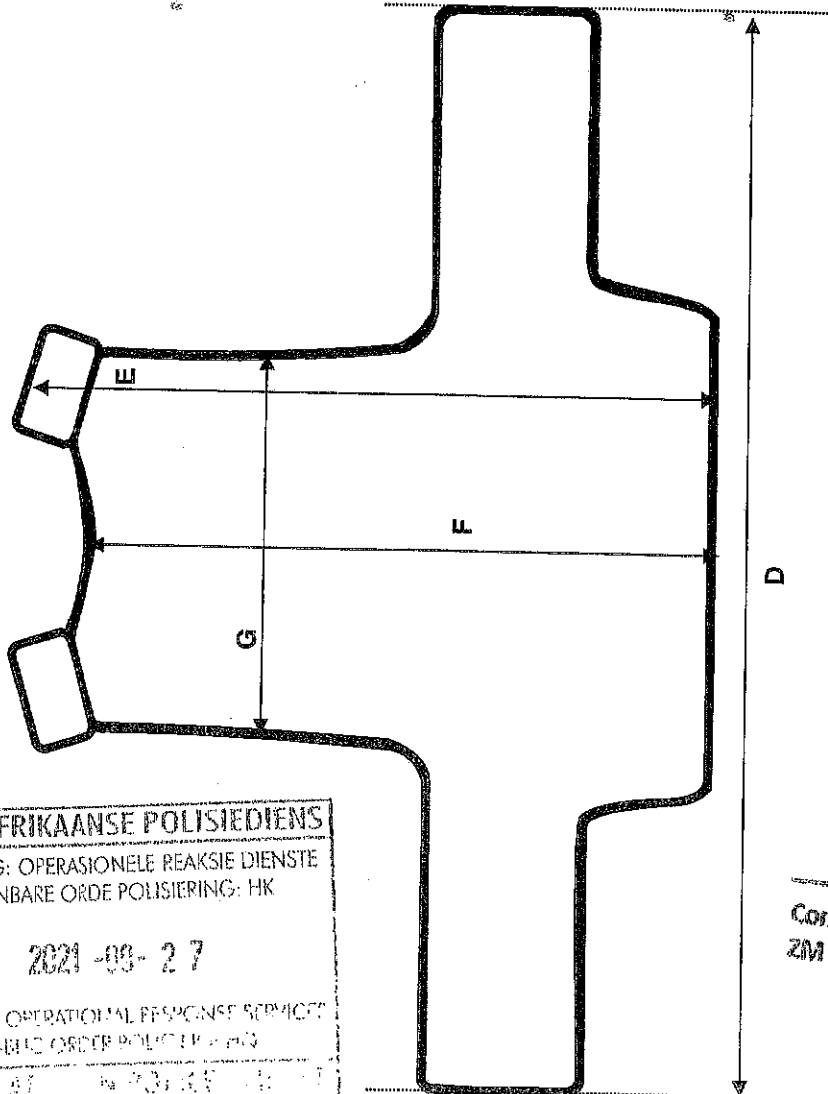


Figure 7 – Nominal finished outer dimensions of the jacket fronts



Measuring point	Description	Nominal finished measurement in cm	COMPLY	
			YES	NO
Back panel width: D	Measure across the width from the one side edge to the other	84 cm		
Back length: E	Measure in a straight line from the centre point at the shoulder to the bottom hem of the jacket	68 cm		
Centre back length: F	Measure in a straight line from the centre back neck point to the bottom hem of the jacket	57 cm		
Upper back width: G	Measure across the back width approximately in the centre of the back armhole	32 cm		

Figure 8 – Nominal finished outer dimensions of the back jacket

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Table 5 – Glove sizes

1 Glove size	2 Comparative sizes (to serve as guideline – NOT TO BE USED ON LABELS)	3 Hand circumference of wearer, mm <sup>1</sup>	4 COMPLY	
			YES	NO
4	XXX-SMALL	108		
4,5		121		
5	XX-SMALL	135		
5,5		148		
6	X-SMALL	162		
6,5		175		
7	SMALL	189		
7,5		202		
8	MEDIUM	216		
8,5		229		
9	LARGE	243		
9,5		256		
10	X-LARGE	270		
10,5		283		
11	2X-LARGE	297		

<sup>1</sup> These measurements shall also correspond with the width of the finished gloves when measured in accordance with the relevant method in table 6 and multiplied by two.

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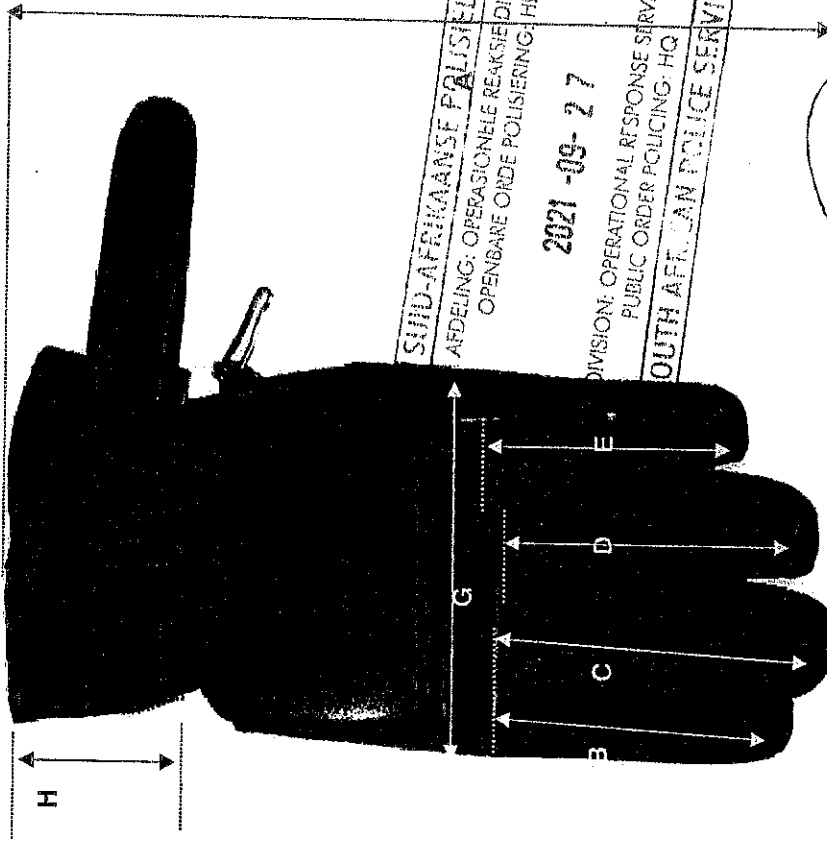
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Table 6 – Measuring points of gloves.

1	2
MEASURING POINT	DESCRIPTION
All measurements shall be taken while the glove is relaxed (not stretched), except the width.	
A	Overall length Measure from the tip of the second finger to the outer cuff edge of the glove.
B	Length of index finger Measure from the base (base of seam between index finger and second finger) to the tip of the finger.
C	Length of second finger Measure from between the base (base of seam between index finger and second finger) of the index and second fingers to the tip of the second finger.
D	Length of third finger Measure from between the base (base of seam between second finger and third finger) of the second and third fingers to the tip of the third finger.
E	Length of fourth (little) finger Measure from between the base of the third and fourth fingers to the tip of the fourth finger.
F	Length of thumb Measure from the base of the thumb gusset to the tip of the thumb (see diagram on following page)
G	Width <sup>1</sup> Flatten the glove as to eliminate any wrinkles and that the palm and back are brought together. Just below knuckle level, grasp the side edges of the glove between the thumb and index finger of each hand and stretch the glove as far as possible without causing any damage to it. While so stretched, and making allowance for the thickness of the leather, measure to the nearest 5 mm, and on the back of the glove, its width at knuckle level.
H	Cuff length Measured from the elastic webbing to the edge of the cuff.

<sup>1</sup> The actual size of the glove shall be determined as follows:  
Multiply the width (following the procedure "G" above) by two, divide by 27 and determine the nearest half glove size.



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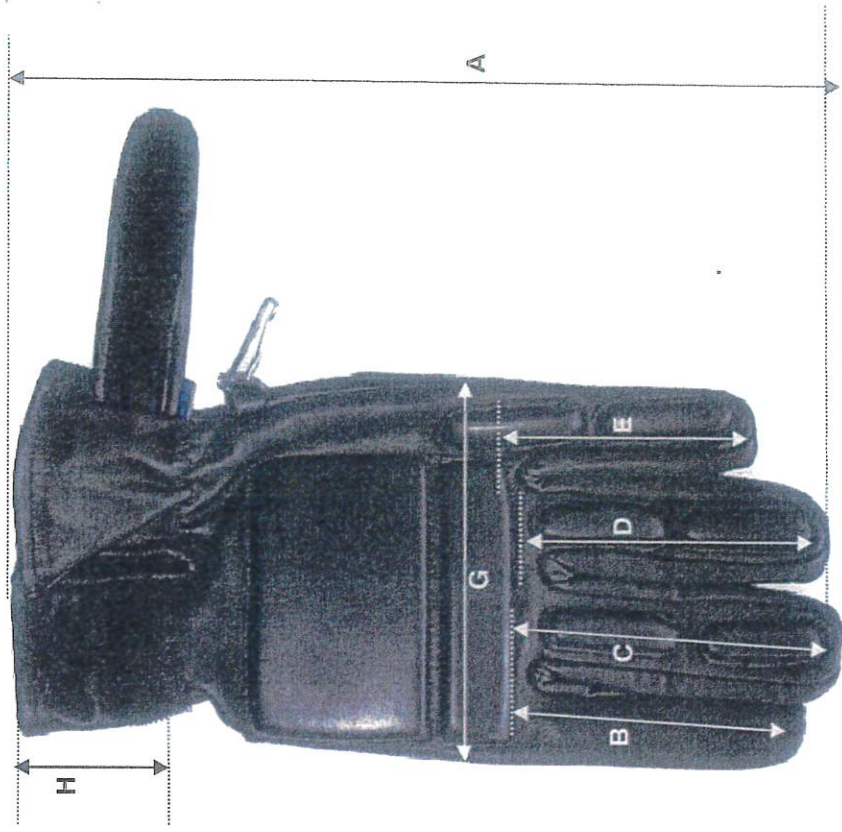


Table 7 — Dimensions on finished size 9 glove and graded on the other sizes

1	2
Measuring point	Measurement in mm
A	255
B	90
C	102
D	94
E	76
F	90
G	121.5
H	50 <sup>1</sup>

<sup>1</sup> This measurement shall be applicable to all sizes.

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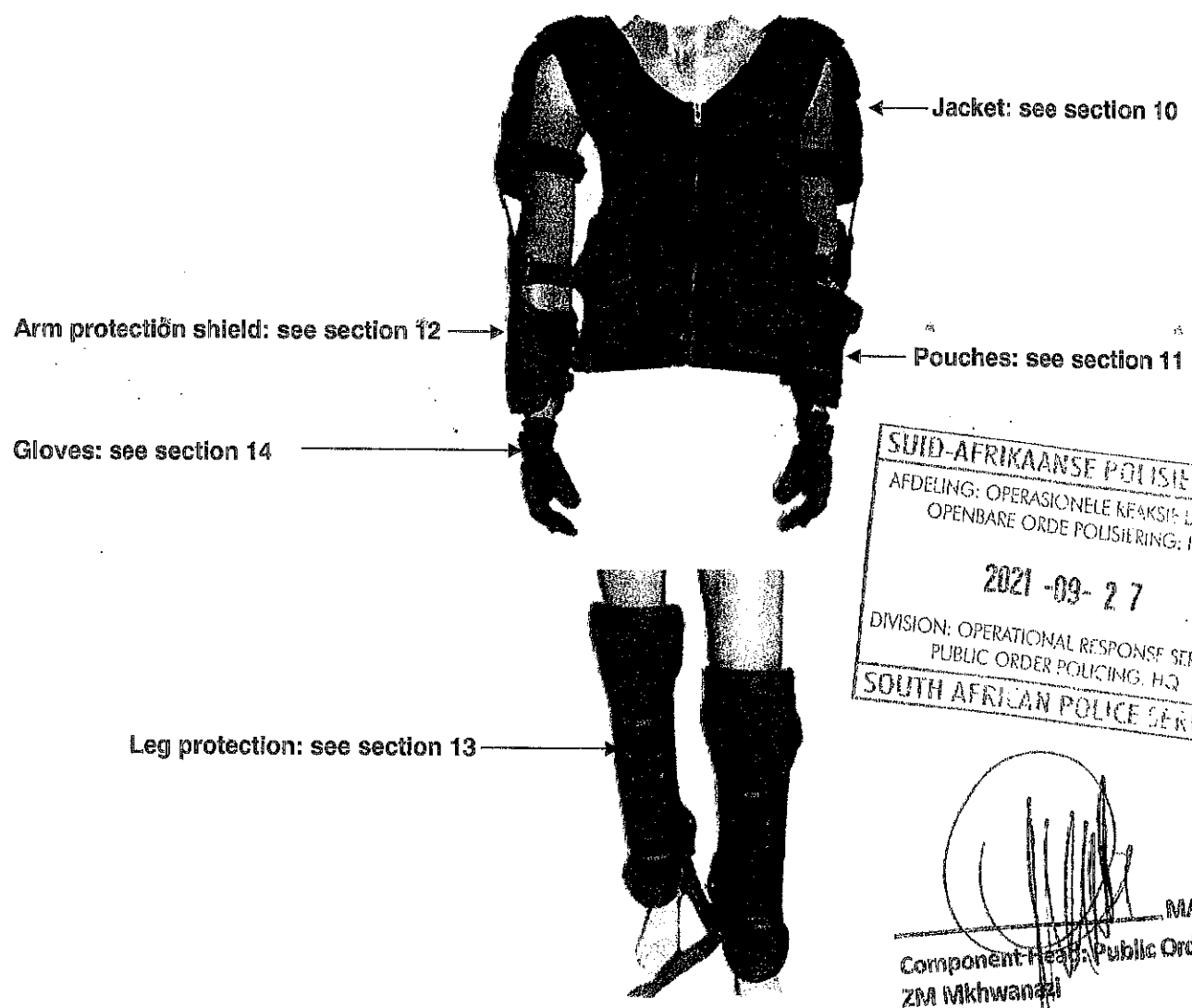
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**9. Design requirements**

9.1	General	YES	NO
◆	the body protection system shall be of such a design that it shall provide the maximum protection and comfort for men and women		
◆	to be such that the full ensemble shall comply with the performance requirements as specified in section 15		
◆	each body protection system shall consist of the following main components <ul style="list-style-type: none"> <li>- jacket (see section 10)</li> <li>- four detachable pouches (see section 11)</li> <li>- two arm protection shields (see section 12)</li> <li>- two leg protection shields (see section 13)</li> <li>- a pair of protective gloves (see section 14)</li> </ul>		



**Figure 9 – Identification of main components of body protection system**  
 (image is only an example of a suitable system)

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<b>10.</b>	<b>Jacket</b>
------------	---------------

10.1 General	YES	NO
◆ each jacket shall consist of the following main elements two front panels (see 10.2) one back panel (see 10.3) two shoulder panels with laid-on moulded protective sectional units that shall function as impact absorption buffers (see 10.4)		
◆ the outer edges of the front panels, back panels and shoulder panels shall be bound with binding		
◆ be adjustable and supplied in one size		
◆ have a front slide fastener closure		
◆ front panels and back panel shall be attached to the shoulder panel in such a way that the bottom edges of the shoulder panels shall overlap the shoulder edges of the front and back panel respectively to be properly secured with stitching as well as bar-tacks		

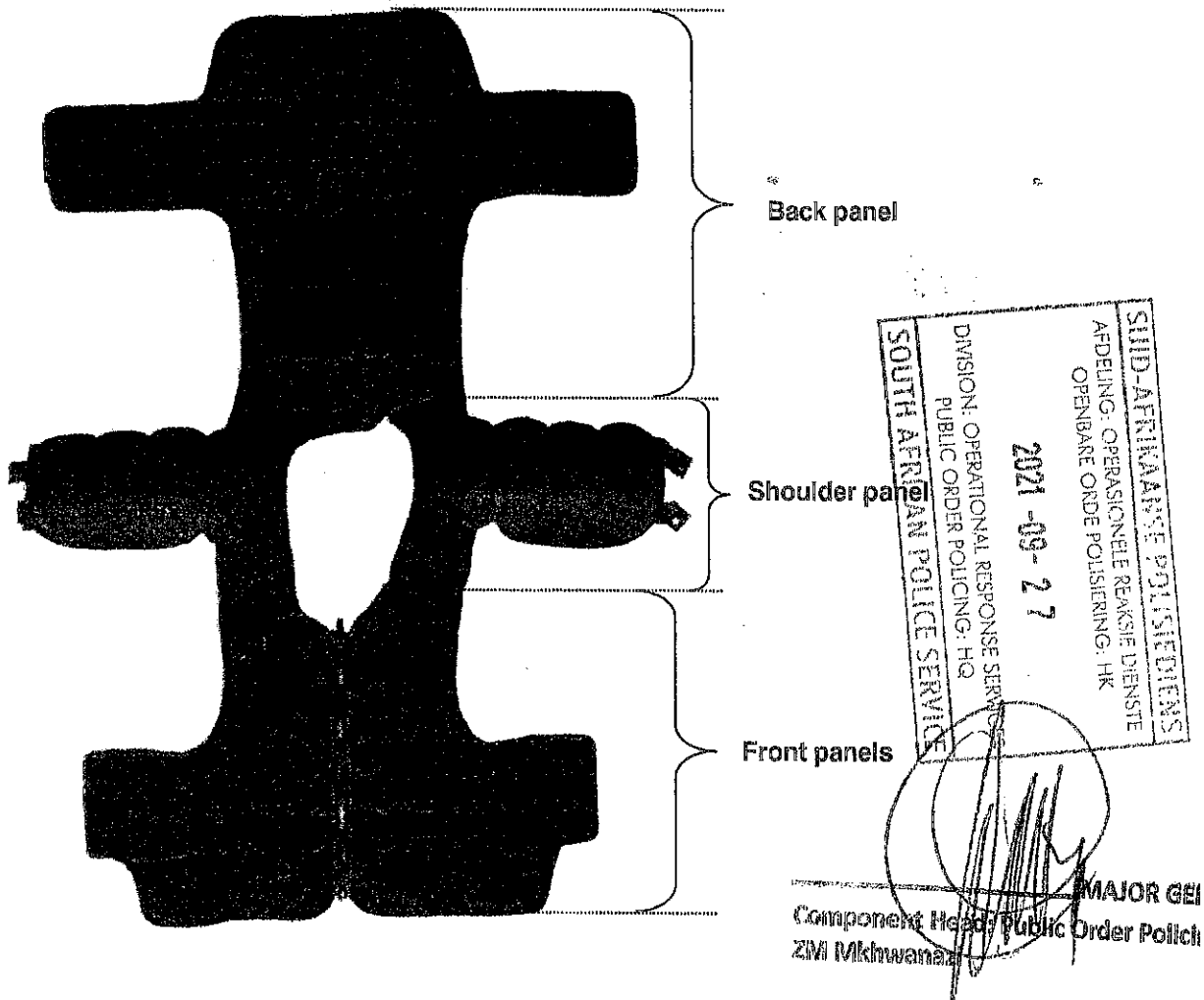


Figure 10 – Identification of jacket panels (image to serve as an example only)

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10.2 Front panels of jacket		YES	NO
10.2.1 Each outside front panel shall be			
◆	made from jacket outer material as specified in 6.2		
◆	such that side edges are not sewn to the back panel side edges		
◆	such that side edges are cut with extensions to facilitate adjustment		
◆	fitted with a stinger of a slide fastener (see 6.7) <ul style="list-style-type: none"> <li>- positioned behind the bound front edges of each front</li> <li>- sewn down with two rows of stitching along the front edge</li> <li>- to extend from the gorge seam to the bottom edge of the jacket</li> <li>- be vertically bar-tacked at the top and bottom edges of the stringer</li> </ul>		
◆	fitted with at least four horizontal lengths of webbing <ul style="list-style-type: none"> <li>- laid on top of outer material layer</li> <li>- to extend from the front edges to the outer side edges</li> <li>- raw edges to be covered by the binding along the outer edges of the jacket</li> <li>- attached to the fronts by means of several vertical bar-tacks along the full length of each strip <ul style="list-style-type: none"> <li>➢ bar-tacks to be spaced at appropriate intervals as to neatly accommodate the fastening mechanisms on the back of all the relevant pouches (see section 11)</li> <li>➢ bar-tacks to extend along the full depth of the webbing strips</li> </ul> </li> <li>- appropriately spaced to acceptably accommodate the pouch attachment</li> </ul>		

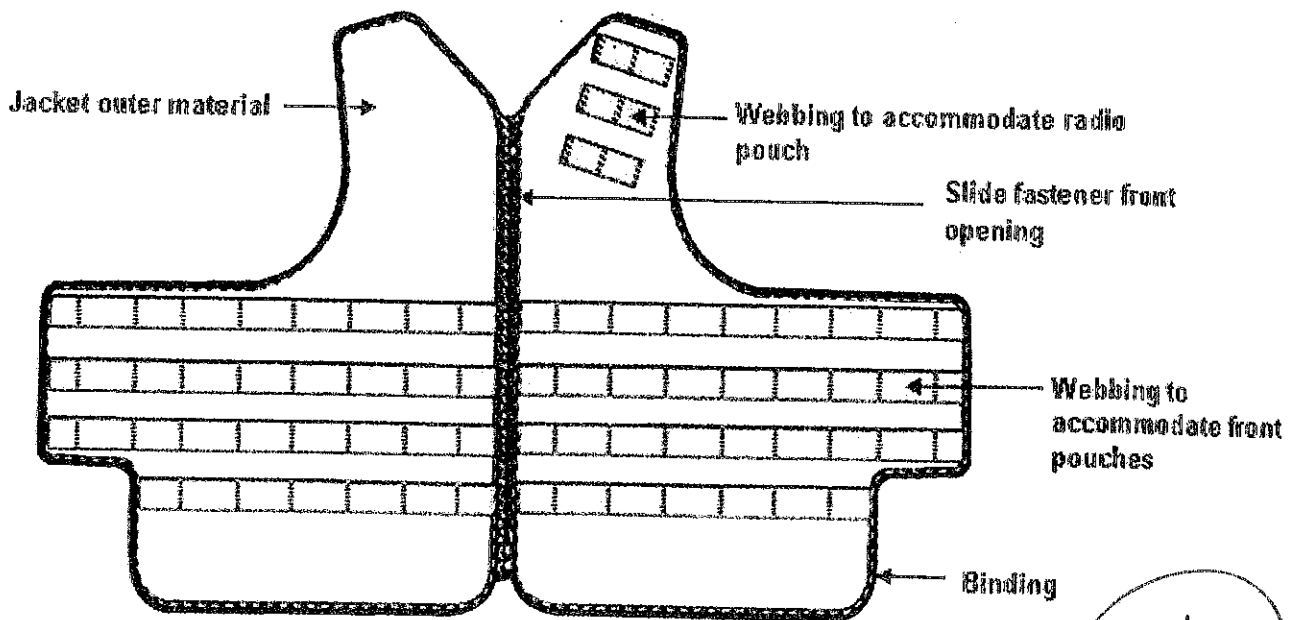


Figure 11—Compulsory design elements on the front panels

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<b>10.2.2 Each left outside front shall be:</b>	<b>YES</b>	<b>NO</b>
<ul style="list-style-type: none"> <li>◆ fitted with three additional lengths of webbing             <ul style="list-style-type: none"> <li>- laid on top of outer material layer</li> <li>- of finished length and positioned in such a way that it shall neatly accommodate the attachment straps of the radio pouch (see 11.2)</li> <li>- cut edges to be heat-sealed</li> <li>- each strip shall be secured with bar-tacks</li> <li>- positioned in the upper chest area</li> </ul> </li> </ul>		

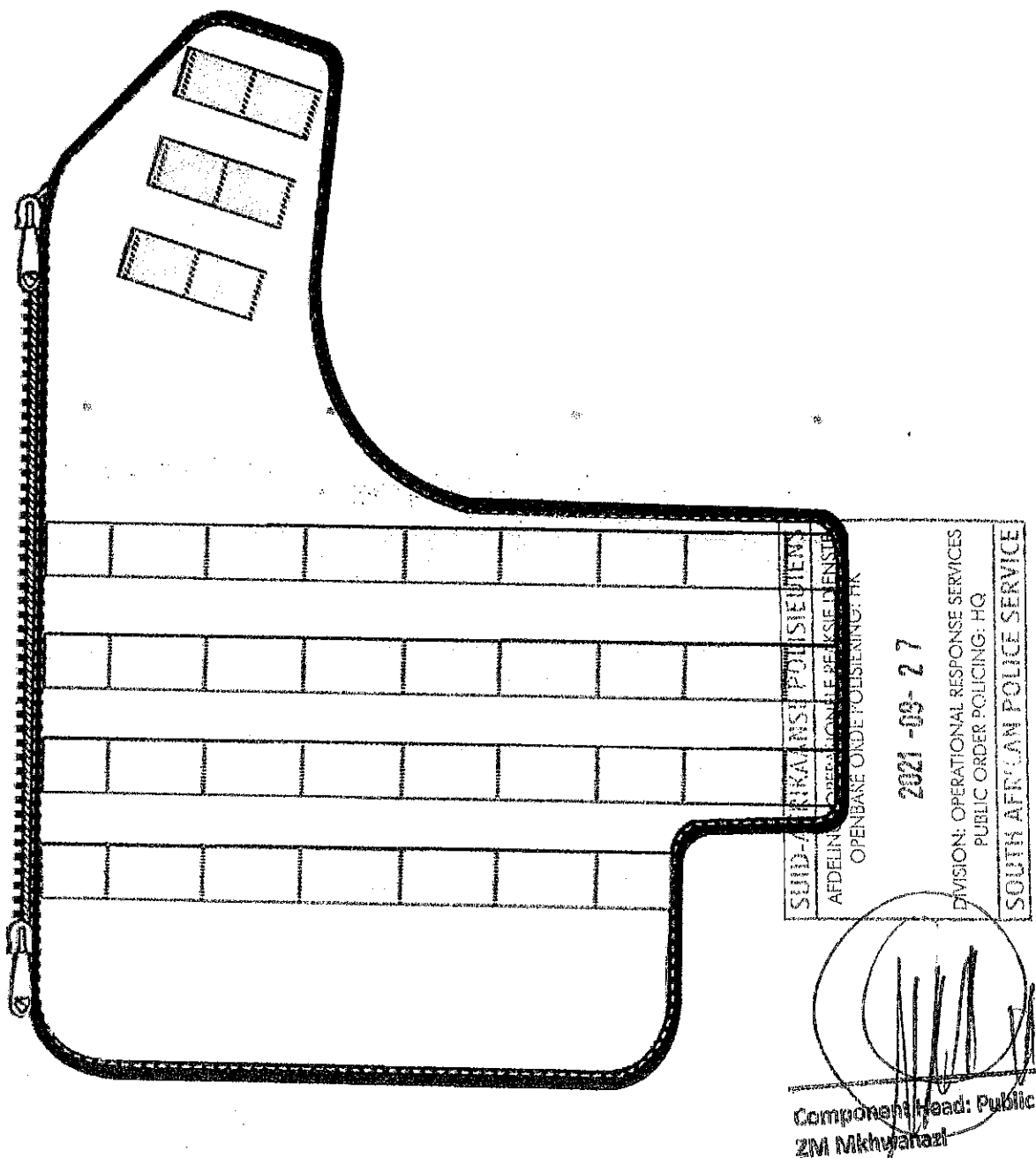


Figure 12 – Example of typical face side of left front panel

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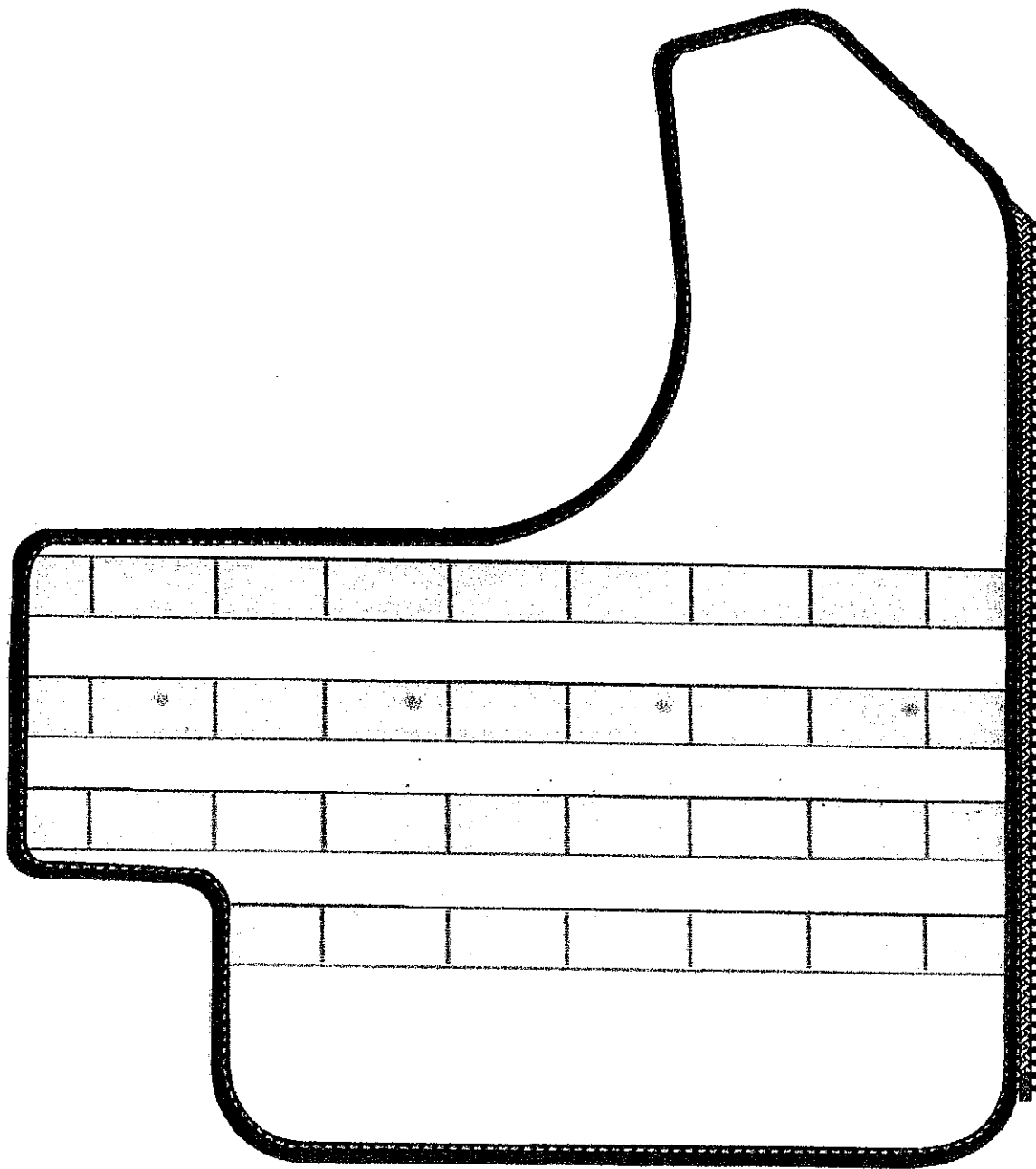
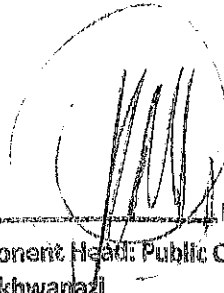


Figure 13 Example of typical face side of right front panel

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10.2.3 Each inside front panel shall be:	YES	NO
◆ lined with jacket lining material as given in 6.14		
◆ fitted with a belt retaining loop (to keep integrated waist belt on back panel in position) <ul style="list-style-type: none"> <li>- of webbing</li> <li>- positioned and of such length as to neatly accommodate the adjustable waist belt</li> <li>- cut ends to be heat-sealed to prevent fraying</li> <li>- properly secured</li> </ul>		
◆ fitted with touch and close fastener on the inside to facility adjustment		

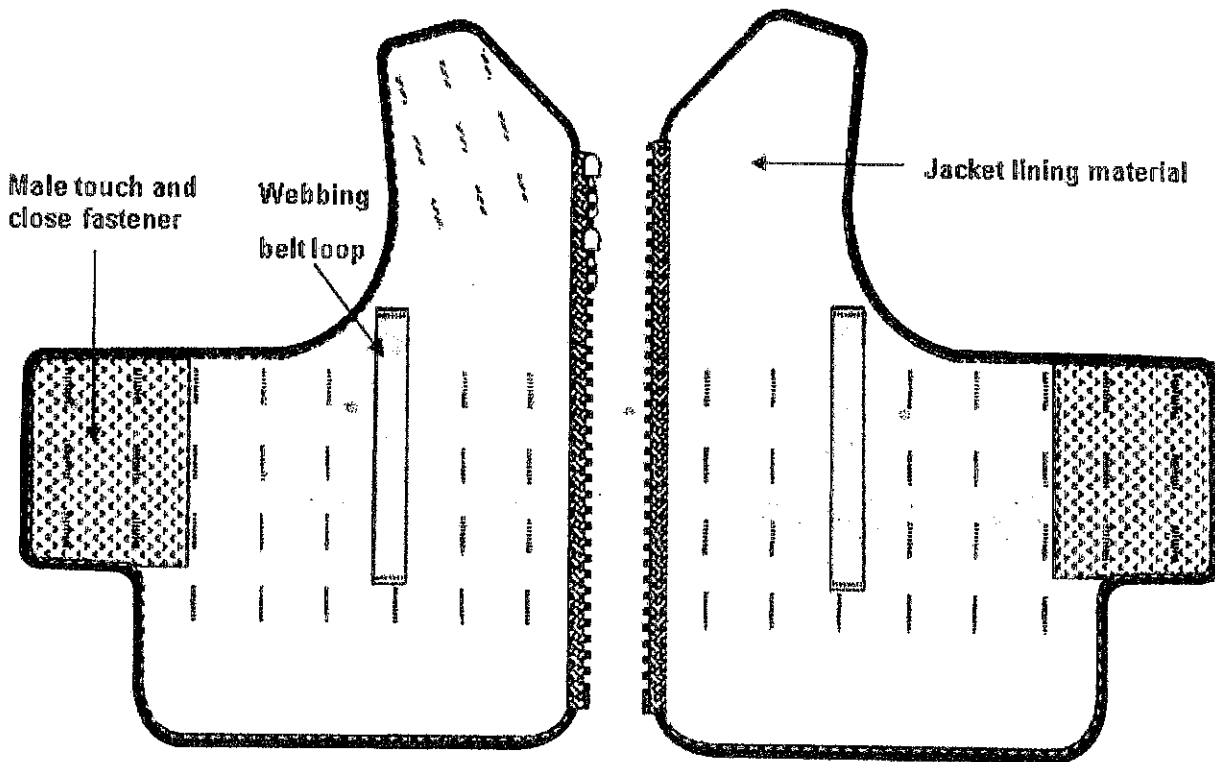


Figure 14 – Example of typical inside view of front panels

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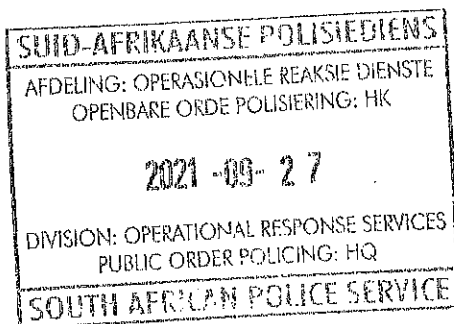
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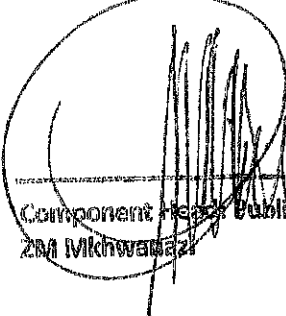
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10.3 Back panel of jacket		
10.3.1 The face side of the back panel shall be:	YES	NO
◆ made from jacket outer material as specified in 6.2		
◆ such that side edges are cut with extensions to facilitate adjustment		
◆ fitted with a length of webbing on the upper back <ul style="list-style-type: none"> <li>- laid on top of outer material layer and to serve as reinforcement for the extraction strap on the inside of the back panel</li> </ul>		
◆ fitted with touch and close fastener patches <ul style="list-style-type: none"> <li>- in corresponding positions to the fastener on the front side panels</li> </ul>		
◆ fitted with at least four horizontal lengths of webbing which shall be bar-tacked <ul style="list-style-type: none"> <li>- bar-tacks to be spaced at appropriate intervals as to neatly accommodate the fastening mechanisms on the back of the relevant pouches (see section 11)</li> <li>- bar-tacks to extend along the full depth of the webbing strips</li> <li>- appropriately spaced to acceptably accommodate the pouch attachment</li> </ul>		

10.3.2 Each inside back panel shall be:	YES	NO
◆ lined with jacket lining material (see 6.14) and optional mesh lining (see 6.17)		
◆ fitted with a webbing extraction strap <ul style="list-style-type: none"> <li>- sewn through all layers</li> <li>- all attachment stitchings of the extraction strap shall penetrate all layers of the back panel, including the reinforcement webbing strip positioned on the outside upper back</li> <li>- have a handle loop of appropriate length</li> </ul>		
◆ fitted with an adjustable waist belt <ul style="list-style-type: none"> <li>- to consist of two adjustable lengths of elastic webbing (see 6.5), i.e. a left and right section</li> <li>- properly secured</li> <li>- of nominal finished length as given in figure 17 (before adjustment)</li> <li>- fitted with touch and close fastener to facilitate adjustment</li> </ul>		



  
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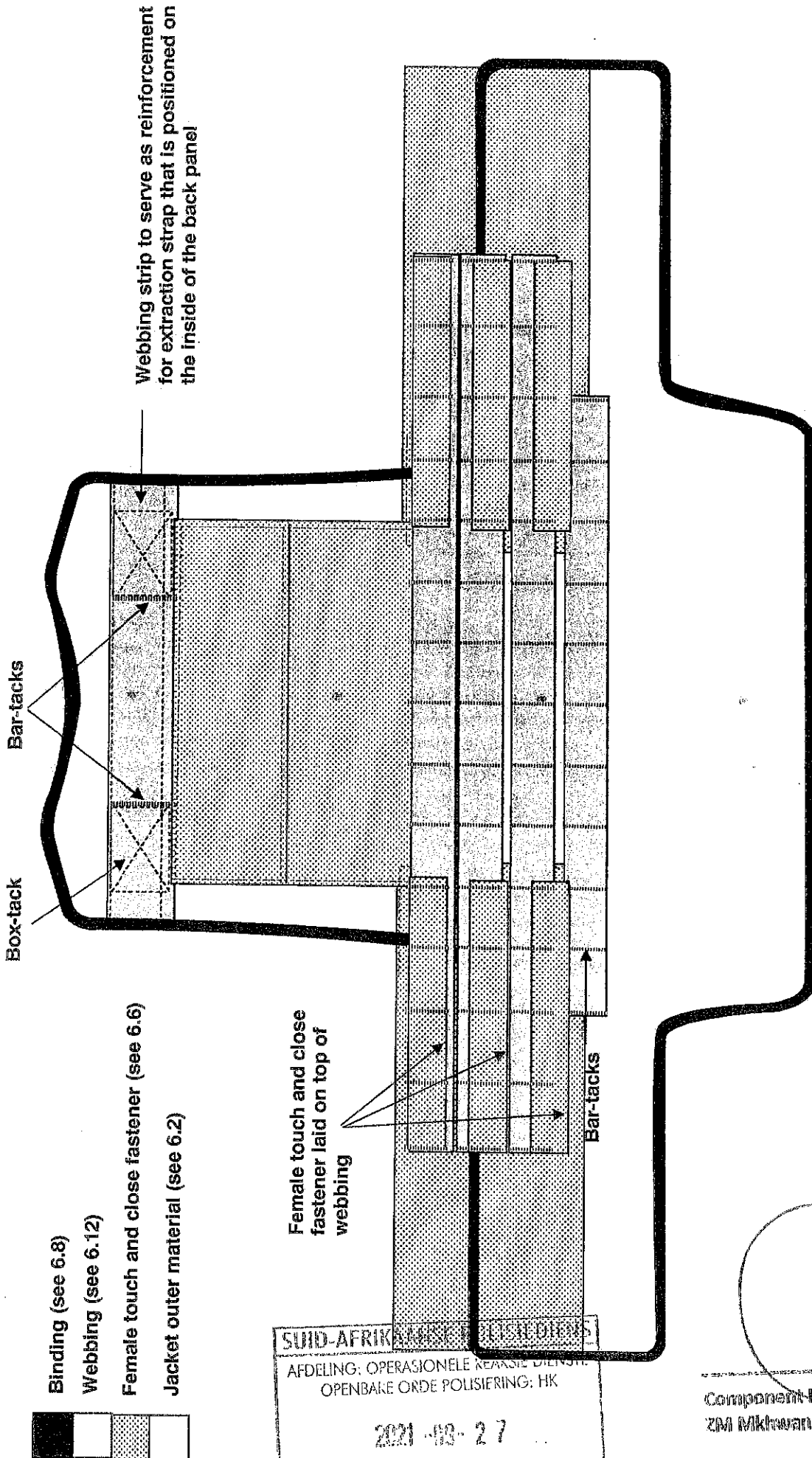


Figure 15 – Example of typical face side of back panel

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- Binding (see 6.8)
- Webbing (see 6.12)
- Female touch and close fastener (see 6.6)
- Jacket outer material (see 6.2)

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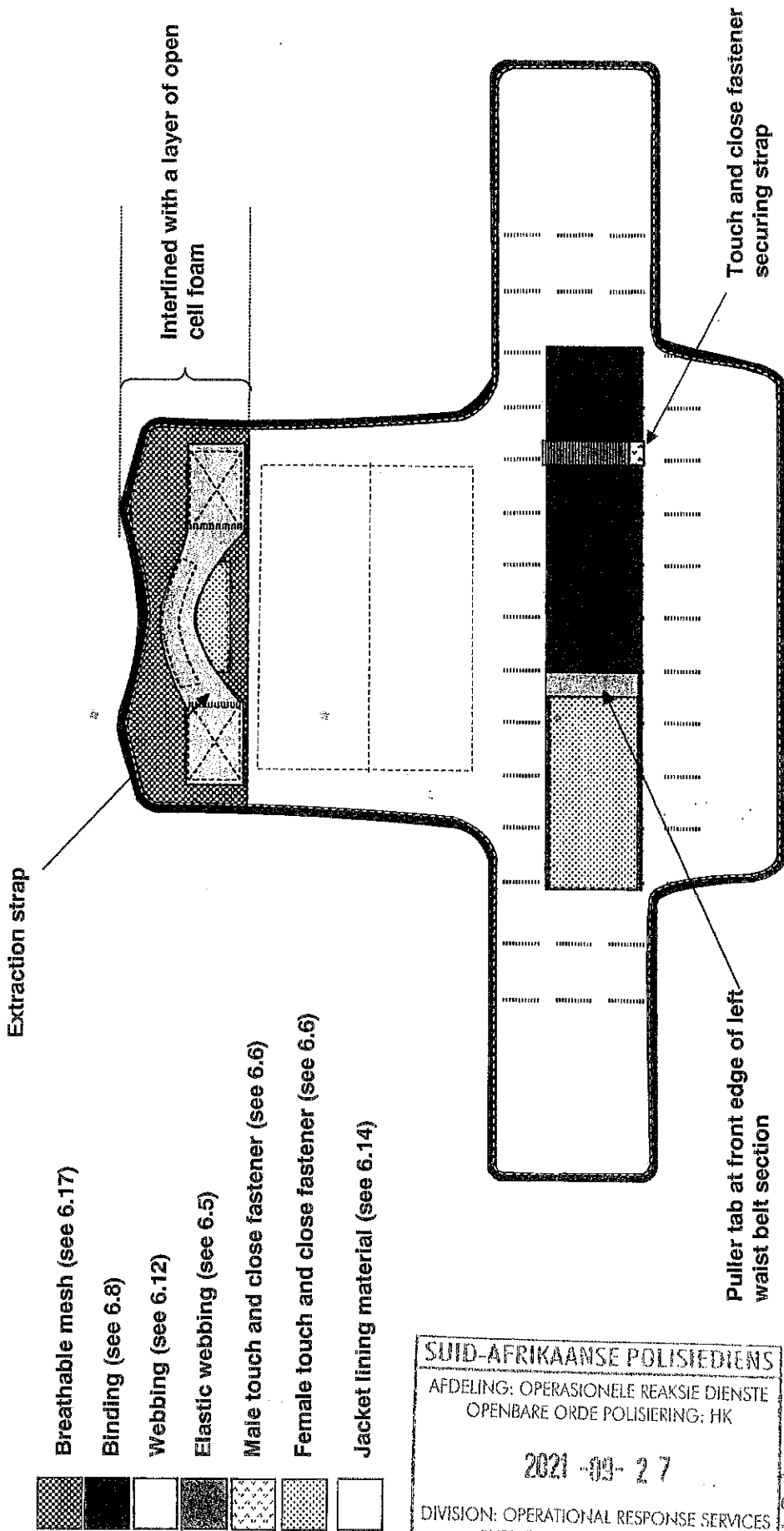


Figure 16 – Example of typical inside view of back panel (waist belt fastened)

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





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-  Breathable mesh (see 6.17)
-  Binding (see 6.8)
-  Webbing (see 6.12)
-  Elastic webbing (see 6.5)
-  Male touch and close fastener (see 6.6)
-  Female touch and close fastener (see 6.6)
-  Jacket lining material (see 6.14)

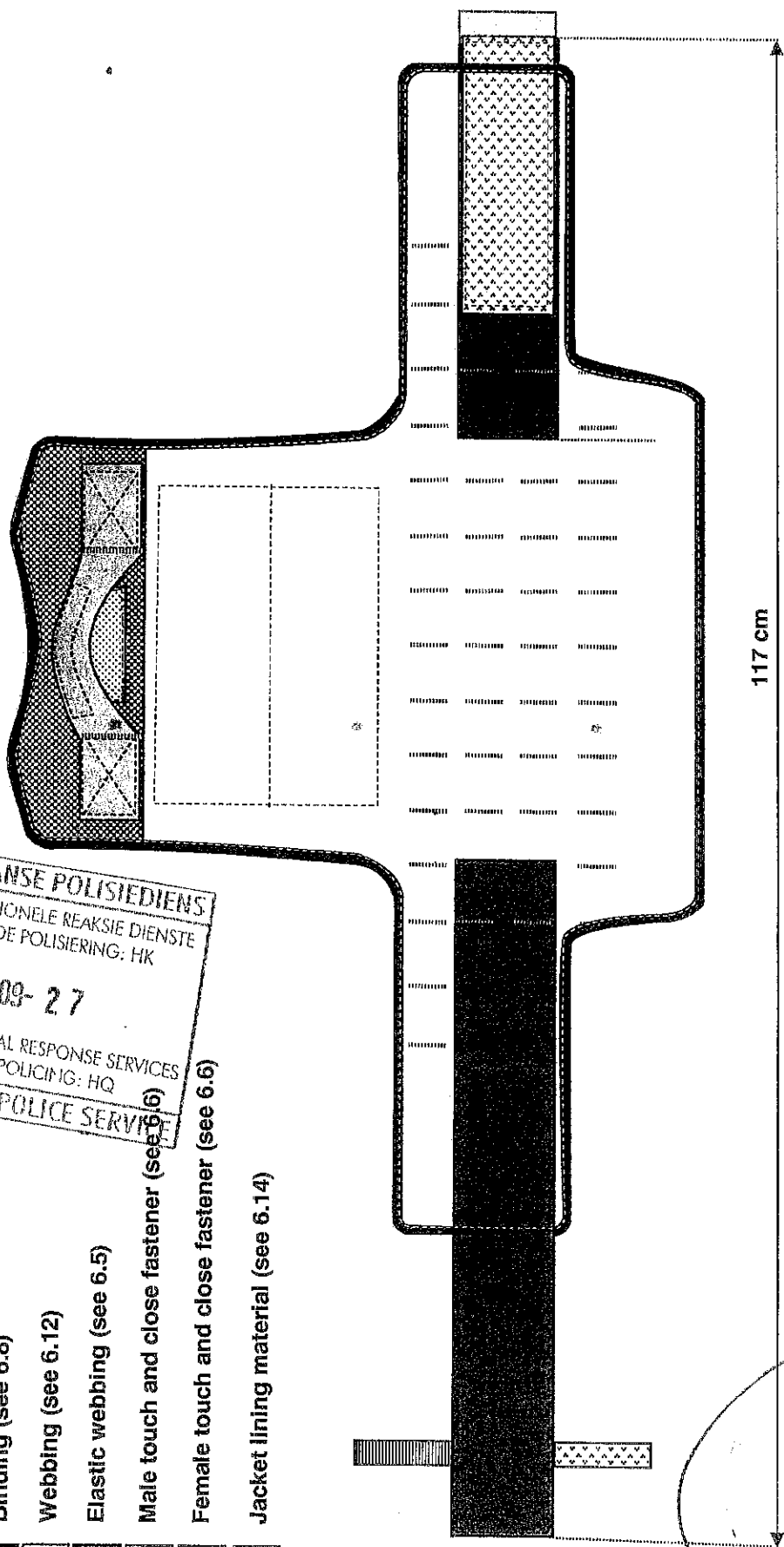


Figure 17 – Example of typical inside view of back panel (waist belt loose)

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10.4 Shoulder panel of jacket		
10.4.1 General	YES	NO
◆ each shoulder panel shall be made from jacket outer material as specified in 6.2		
◆ each shoulder panel shall be) correspond with the pattern and shape of the shoulder panel and result in a minimum thickness of 8 mm for complete textile pad area when worn		
◆ each shoulder panel shall be interlined with closed cell foam that shall		
◆ suggested material layering shall be as given in figure 19		
◆ shoulder panels shall be shaped as to give protection to the shoulder and bicep		

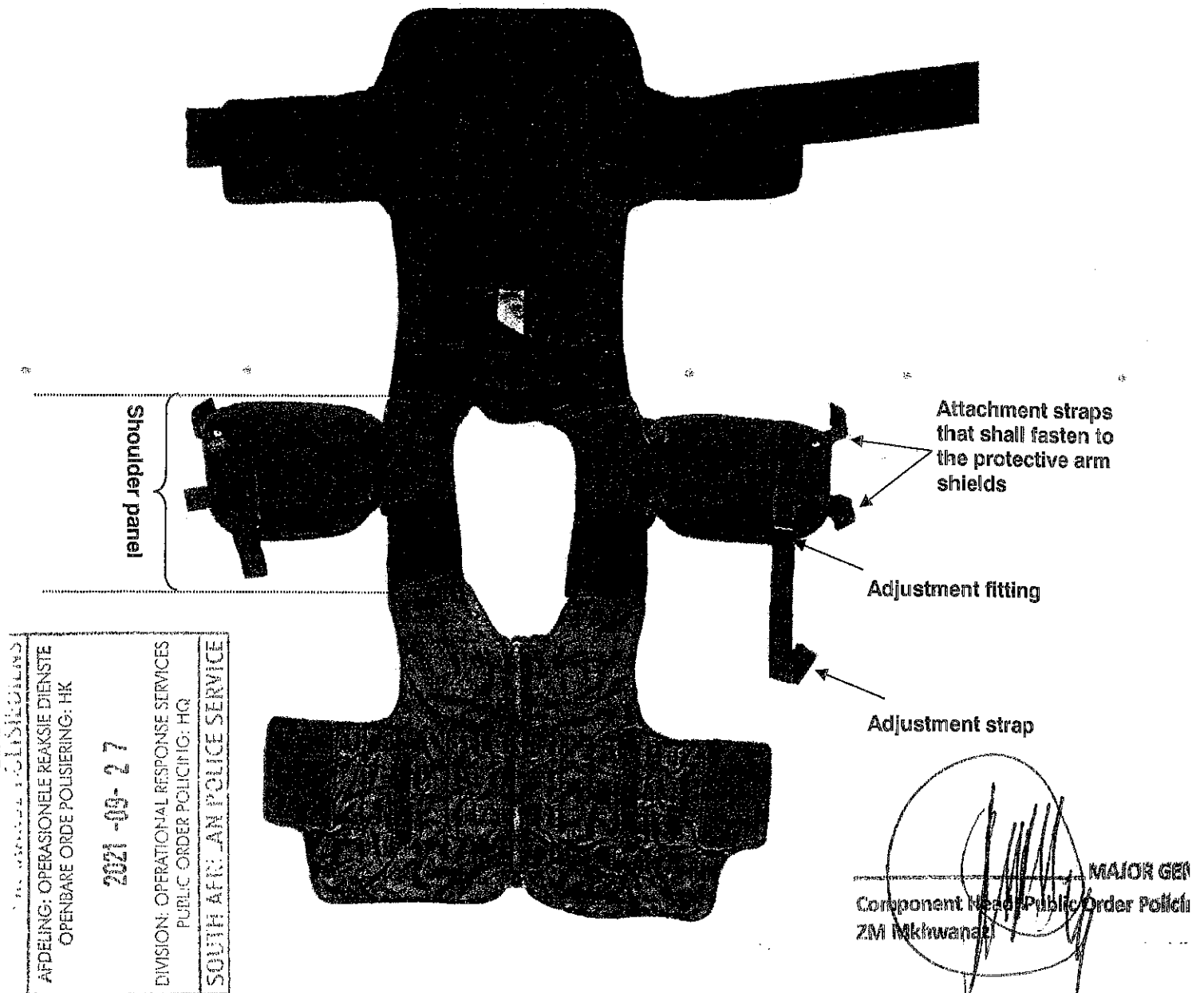


Figure 18 – Example of typical inside view of jacket, identifying the elements on the underside of the shoulder panels

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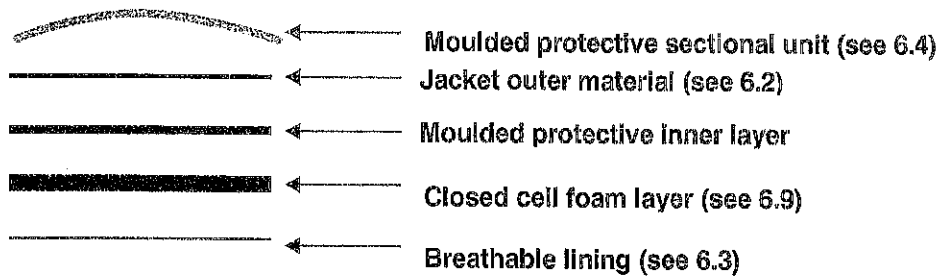


Figure 19 – Example of typical layering for the shoulder panels

10.4.2 Each underside of the shoulder panel shall be:	YES	NO
<ul style="list-style-type: none"> <li>◆ fitted with at least one adjustable strap               <ul style="list-style-type: none"> <li>- of webbing</li> <li>- of such length to accommodate all sizes</li> <li>- cut ends to be heat-sealed</li> <li>- free end of strap to be either folded and stitched or fitted with a moulded end</li> <li>- strap to be fitted with laid-on lengths of touch and close fastener to facilitate adjustment</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>◆ fitted with an acceptable adjustment fitting               <ul style="list-style-type: none"> <li>- positioned in such a way that it shall neatly accommodate the adjustable webbing strap</li> </ul> </li> </ul>		

10.4.3 Each upper side of the shoulder panel shall be:	YES	NO
<ul style="list-style-type: none"> <li>◆ fitted with modular moulded protective sectional units (see 6.4)               <ul style="list-style-type: none"> <li>- moulded protective sectional units shall overlap each other in such a way that it shall allow the arm to move without restriction and without exposing the area it is intended to protect</li> <li>- moulded protective units to be attached to the shoulder panels through all layers by means of heavy duty rivets or stitchings (as appropriate)</li> </ul> </li> </ul>		
<ul style="list-style-type: none"> <li>◆ fitted with at least two connecting straps that shall securely fasten to the protective arm shields (see 12.2)</li> </ul>		

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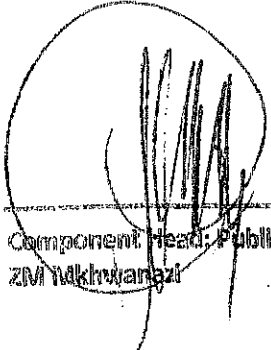
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## 11. Detachable pouches

11.1 General	YES	NO
<ul style="list-style-type: none"> <li>◆ minimum of four detachable pouches shall be supplied               <ul style="list-style-type: none"> <li>– one radio pouch (see figure 20 for example)</li> <li>– one lower left front pouch (see figure 21 for example)</li> <li>– one lower right front pouch (see figure 22 for example)</li> <li>– one back pouch to house the full face mask (see figure 23 for example)</li> </ul> </li> </ul>		
◆ made from jacket outer material (see 6.2) and lined with lining as given in 6.14		
◆ all outer cut edges to be bound with binding		
◆ all pouches to be fitted with drainage holes at the base of the pouch drainage holes to be either embroidered eyelets or metal eyelets to have a minimum opening size of 12.5 mm <sup>2</sup> and maximum of 20 mm <sup>2</sup>		
◆ all pouches shall have pocket flaps that shall fasten with quick release buckles on the outside (except the radio pocket)		
◆ where required, the pockets shall have additional webbing straps on the inside to secure the position of the contents of the pouch		
<ul style="list-style-type: none"> <li>◆ the back panel of each pouch shall be fitted with two to four webbing straps (depending on the size of pouch) that are properly secured               <ul style="list-style-type: none"> <li>– back panel webbing straps shall facilitate the attachment and detachment of the pouches to and from the horizontal webbing strips of the jacket</li> <li>– back panel straps shall be threaded through the horizontal webbing strips on the front and back panels and secured with press stud fastener onto the body of the pouch</li> </ul> </li> </ul>		
11.2 Radio pouch	YES	NO
◆ of approximate dimensions as given in figure 20		
◆ an example of a typical radio pocket is given in figure 20		

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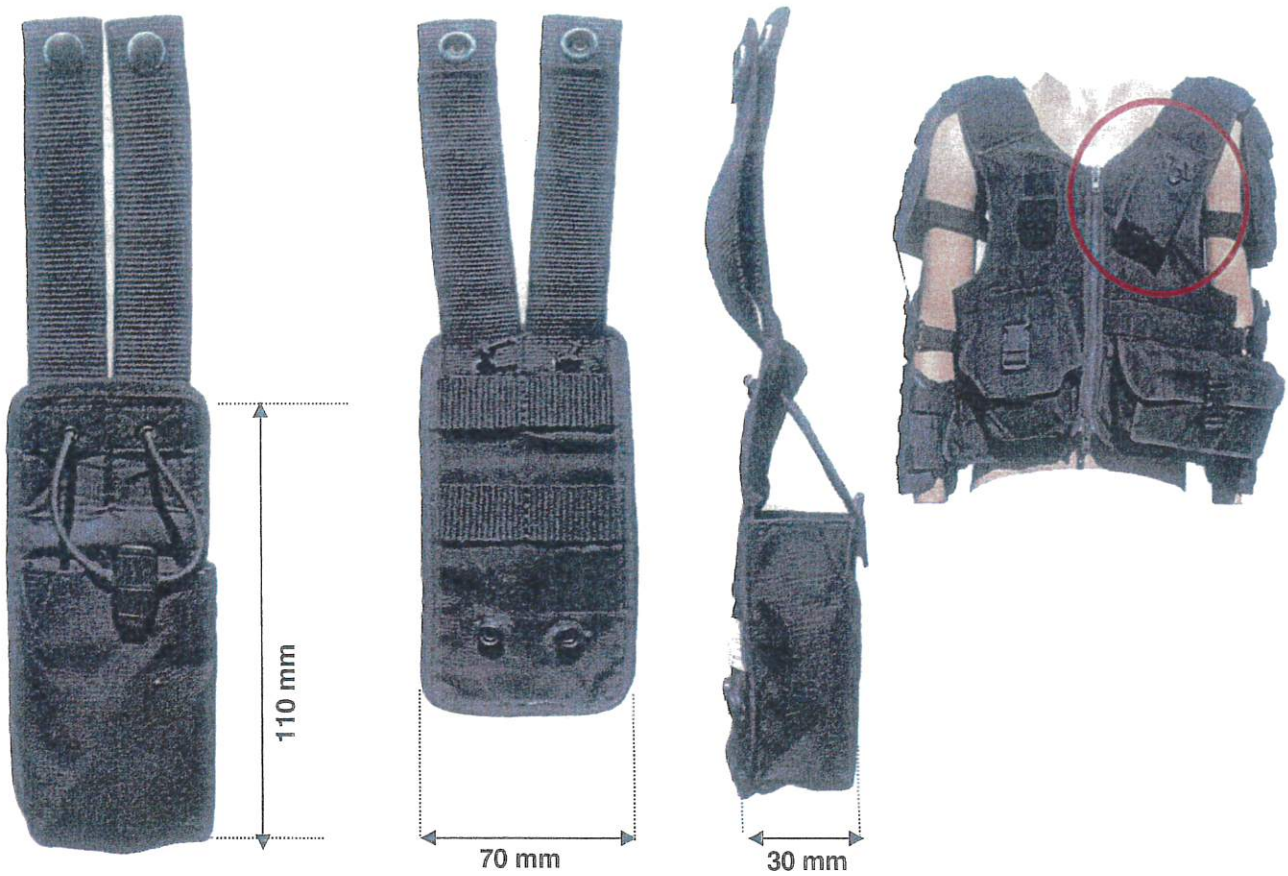


Figure 20 – Approximate dimensions of typical radio pouch (not limited to the design as given above)

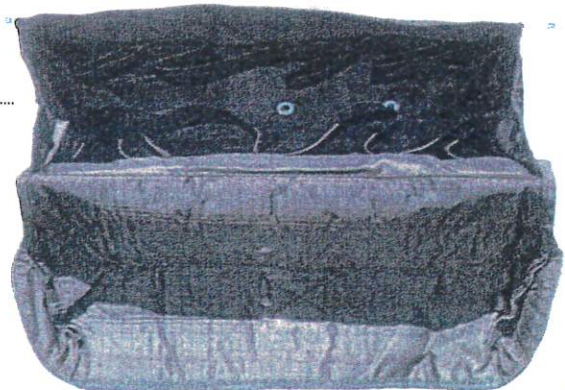
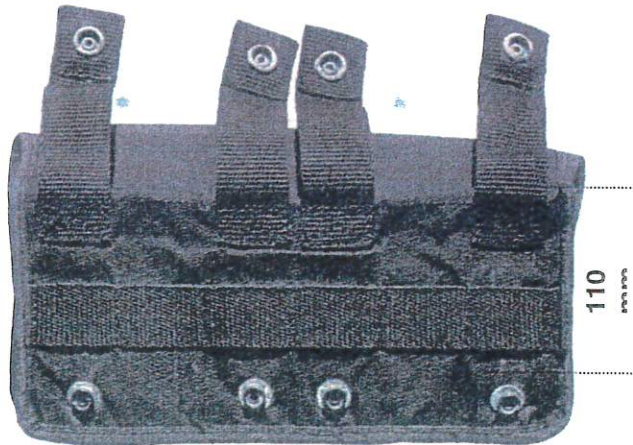
11.3 Lower left front pocket	YES	NO
◆ of approximate dimensions as given in figure 21		
◆ an example of a typical design is given in figure 21		
◆ fitted with elastic webbing loops on the inside of the pouch		
◆ construction and attachment mechanism at back to be such that the pouch can carry contents of up to 1 kg without tearing or detaching		

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**Figure 21 – Approximate dimensions of typical lower left pouch (not limited to the design as given above)**

  
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11.4 Lower right front pocket	YES	NO
of approximate dimensions as given in figure 22		
◆ an example of a typical design is given in figure 22		
◆ construction and attachment mechanism at back to be such that the pouch can carry contents of up to 1 kg without tearing or detaching		

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Figure 22 – Approximate dimensions of typical lower right pouch  
(not limited to the design as given above)

11.5 Face mask pouch (back pouch)	YES	NO
◆ of approximate dimensions as given in figure 23		
◆ an example of a typical design is given in figure 23		
◆ construction and attachment mechanism at back to be such that the pouch can carry a full face mask without tearing or detaching		

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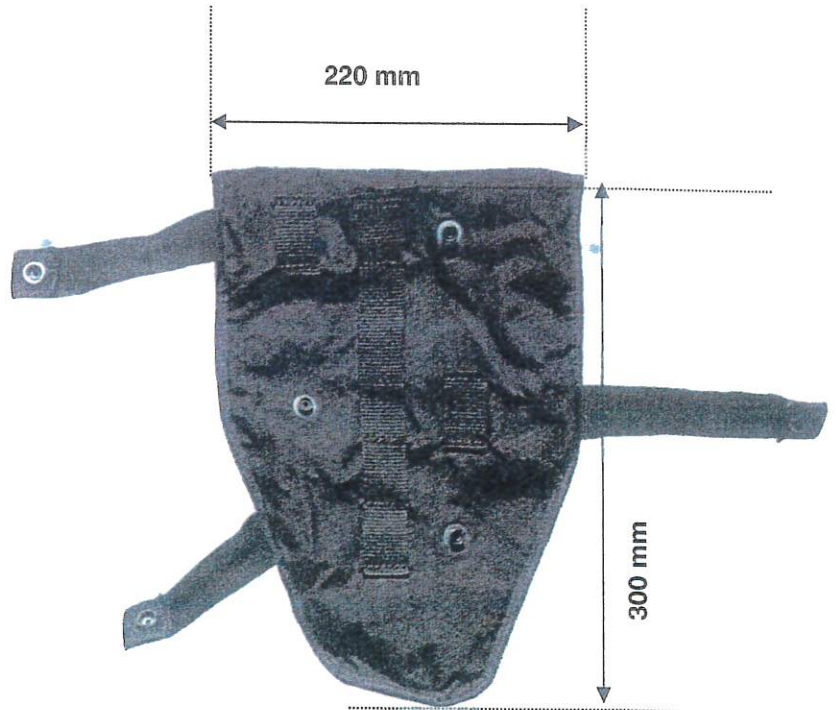
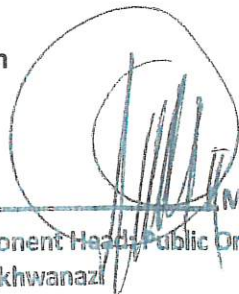


Figure 23 – Approximate dimensions of typical face mask pouch  
(not limited to the design as given above)

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**12. Arm protection shields**

12.1 General	YES	NO
◆ supplied as a left and right arm protection shield and clearly marked as such		
◆ to comply with the performance requirements as given in section 15		
◆ fitted with moulded protective sectional units that shall function as impact absorption buffers (see 6.4)		
◆ supplied in a single size that shall be adjustable to fit all		

12.2 Design requirements	YES	NO
◆ to be detachable and adjustable		
◆ be of an ergonomic design that shall comfortably fit and protect the elbow and lower arm		
◆ incorporate a flexible hinge system between the elbow and lower arm that shall facilitate movement the interconnecting strip used to construct the hinge system shall be at least 50 mm wide		
◆ to consist of a layered textile pad and laid-on shaped modular moulded protective sectional units outer edges of textile pad shall be bound with binding or finished with an acceptable method that can withstand hard wearing – typical layering sequence shall be as given in figure 24 > to be interlined with closed foam padding to result in a finished textile pad of minimum thickness 8 mm		
◆ have a minimum of three adjustment straps of webbing and/or elastic webbing – adjustment straps shall be threaded through an appropriate adjustment fitting and fasten with touch and close fastener – all cut edges of the adjustment straps shall be heat-sealed, folded in and stitched down or alternatively be finished with a moulded end tip plastics after the adjustment straps have been secured in the desired position, it shall not loosen or become undone without deliberate action from the wearer – permanently secured to the arm shield through all layers and sandwiched between the textile pad and moulded protective sectional unit		
◆ fitted with at least two heavy duty press stud sections (or acceptable alternative attachment mechanism) that shall fasten to the shoulder panel of the jacket (see 10.4.3)		

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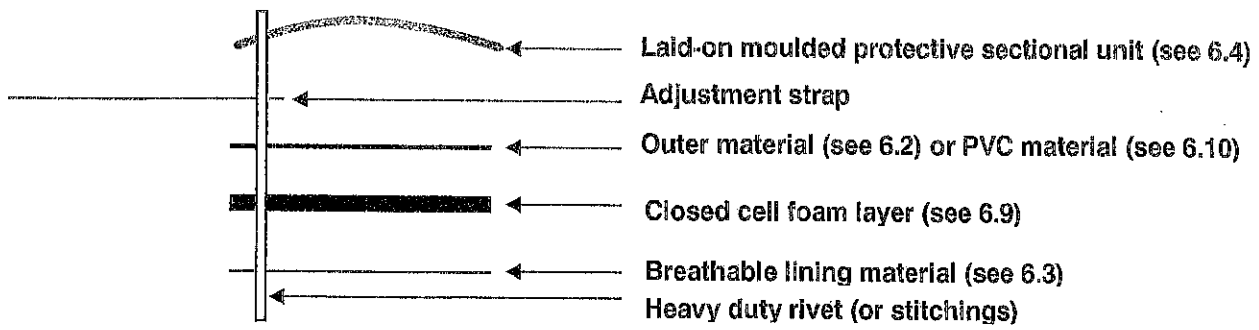
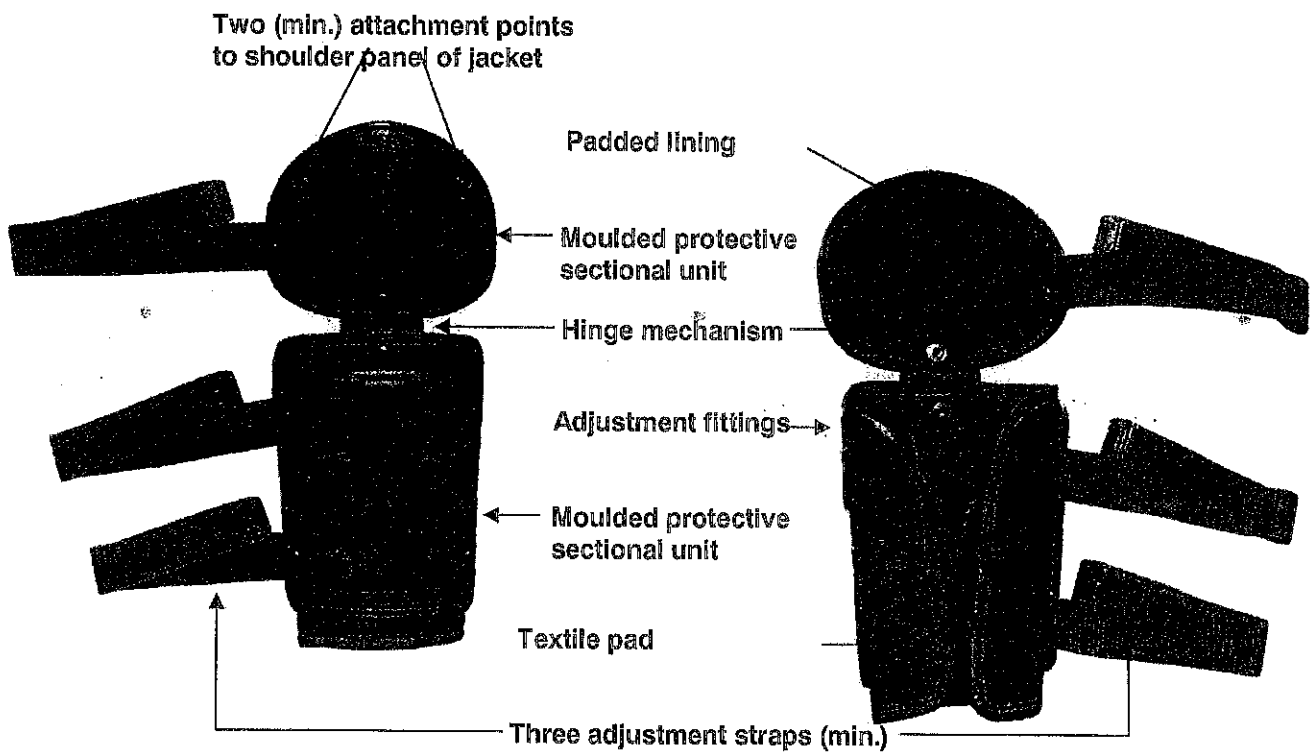


Figure 24 – Typical layering of protective arm shield (minimum amount of layers)



NOTE: The above image is an example of a typical arm protection shield, but not limited to what will be deemed as acceptable.

Figure 25 – Compulsory elements required on the protective arm shields

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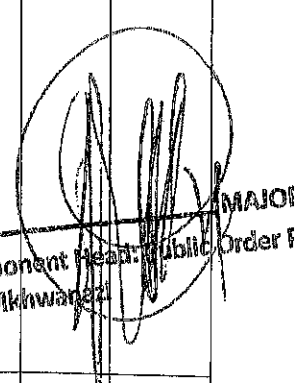
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### 13. Leg protection shields

13.1 General	YES	NO
◆ supplied as a left and right leg protection shield and clearly marked as such		
◆ supplied in different sizes as to accommodate all sizes required by the SAPS		
◆ fitted with moulded protective sectional units that shall function as impact absorption buffers (see 6.4)		
13.2 Design requirements	YES	NO
◆ to be detachable and adjustable		
◆ be of an ergonomic design that shall comfortably fit and protect the knee, shin ankle and foot bridge		
◆ to extend from at least 20 mm above the knee position and overlap the foot bridge by at least 70 mm		
◆ to be flexible at the knee and shin overlapping points as well as at the upper foot position and ankle extensions		
◆ to consist of a layered comfort pad and laid-on modular moulded protective sectional units		
◆ outer edges of comfort pad to be bound with binding or alternatively finished <ul style="list-style-type: none"> <li>with an acceptable durable method                             <ul style="list-style-type: none"> <li>- typical layering sequence shall be as given in figure 26                                     <ul style="list-style-type: none"> <li>➢ to be interlined with closed foam padding to result in a finished textile pad of minimum thickness 8 mm</li> </ul> </li> </ul> </li> </ul>		
13.2 Design requirements		
◆ have a minimum of three leg adjustment straps and one ankle strap or webbing <ul style="list-style-type: none"> <li>and/or elastic webbing                             <ul style="list-style-type: none"> <li>- adjustment straps shall be threaded through an appropriate adjustment fitting and fasten with touch and close fastener</li> <li>- all cut edges of the adjustment straps shall be heat-sealed, folded in and plastics stitched down or alternatively be finished with a moulded end tip</li> <li>- after the adjustment straps have been secured in the desired position, it shall not loosen or become undone without deliberate action from the wearer</li> <li>- permanently secured to the leg shield through all layers and sandwiched between the textile pad and moulded protective shield</li> </ul> </li> </ul>		
◆ in addition to the other adjustment straps, each leg shield to be preferably fitted with an adjustable stirrup strap		
◆ the internal clearance between the moulded protective sectional unit and textile comfort pad at the shin area shall be at least 30 mm		

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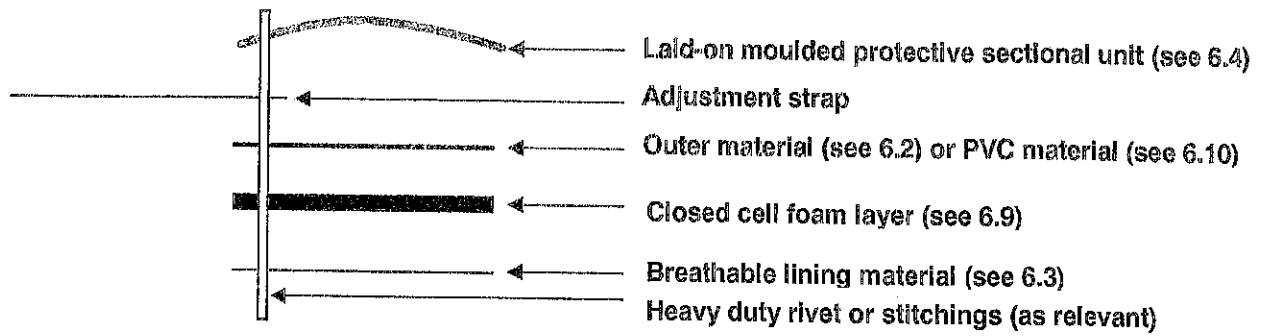


Figure 26 – Typical layering of leg protection shields (minimum amount of layers)

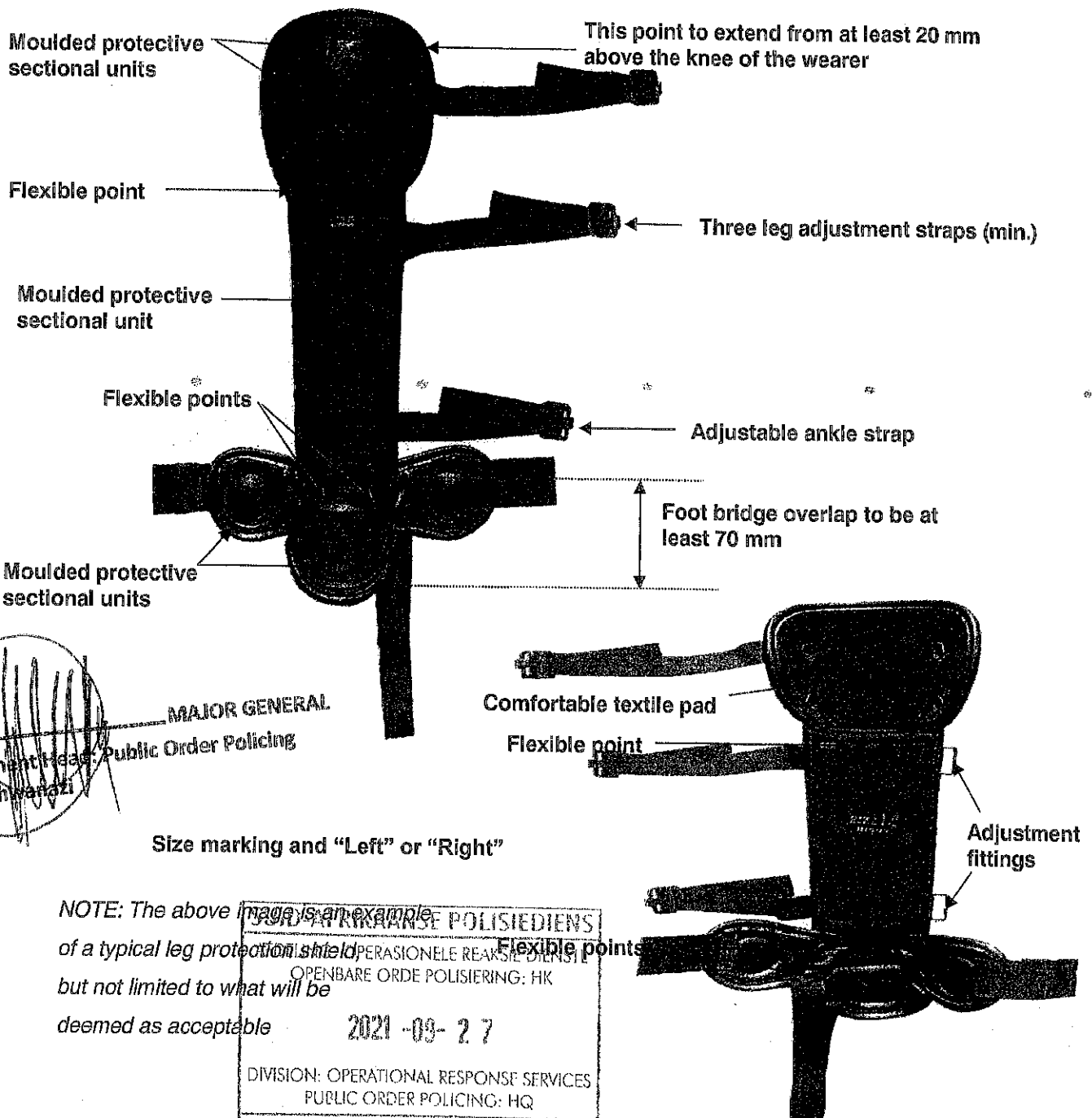


Figure 27 – Compulsory elements required on the leg protection shield

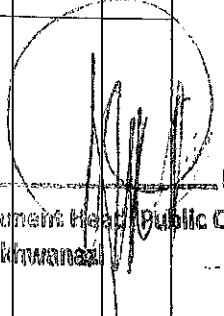
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**14. Gloves**

<b>14.1 General</b>	<b>YES</b>	<b>NO</b>
◆ supplied as a pair, i.e. a left and right hand glove		
◆ supplied in different sizes as given in column 1 of table 5 (as specified in the order or contract)		
◆ made from leather as given in 6.15		
◆ patterns shall be properly graded for finger length		
◆ unless the leather has been dyed through, all raw edges visible on the outside of a glove shall be stained to match the colour of the exposed side of the leather		
<b>14.1.1 Cutting</b>	<b>YES</b>	<b>NO</b>
◆ component parts of the gloves shall be cut in strict accordance with sound manufacturing practice from the patterns specified and by standard commercial methods for "pattern" or "table" cut		
◆ comply with the requirements as stipulated in paragraph 5.4 of SANS 1297:2015 "Leather Gloves"		
<b>14.1.2 Forming</b>	<b>YES</b>	<b>NO</b>
◆ Gloves shall, after being dampened, be placed on heated forms.		
◆ appropriate size, pulled down and manipulated so that the side seams of all fingers are straight and parallel to the side seam of the gloves		
<b>14.1.3 Stitches and seams</b>	<b>YES</b>	<b>NO</b>
◆ comply with the requirements as stipulated for men's gloves in paragraph 5.5 of SANS 1297:2015 "Leather Gloves"		
<b>14.1.4 Design Requirement</b>	<b>YES</b>	<b>NO</b>
◆ unlined 5-finger slip-on glove		
◆ suitable design is given in figures 28, 29 and 30		
◆ fitted with gussets (fourchettes)		
◆ elastic webbing inserted in cuff and acceptably ruched		
◆ raw edges of cuff edges to be neatly hemmed		
◆ cuff to have a centre vent on the back of the glove of nominal finished length 60 mm which shall be neatly finished		
◆ cuff to fasten with an adjustment tab that shall fasten with touch and close fastener		
◆ back of hand, knuckle area, thumb and all fingers except the index finger shall be fitted with protective padding (see figures 28 and 29) <ul style="list-style-type: none"> <li>- padding shall be laid on top of the body of the glove, fully covered with patches of leather that shall follow the shape of the padding and edge-stitched to the glove body</li> <li>- padding shall be strategically positioned as to provide sufficient protection for the finger ligaments without adversely affecting fit and/or dexterity</li> </ul>		

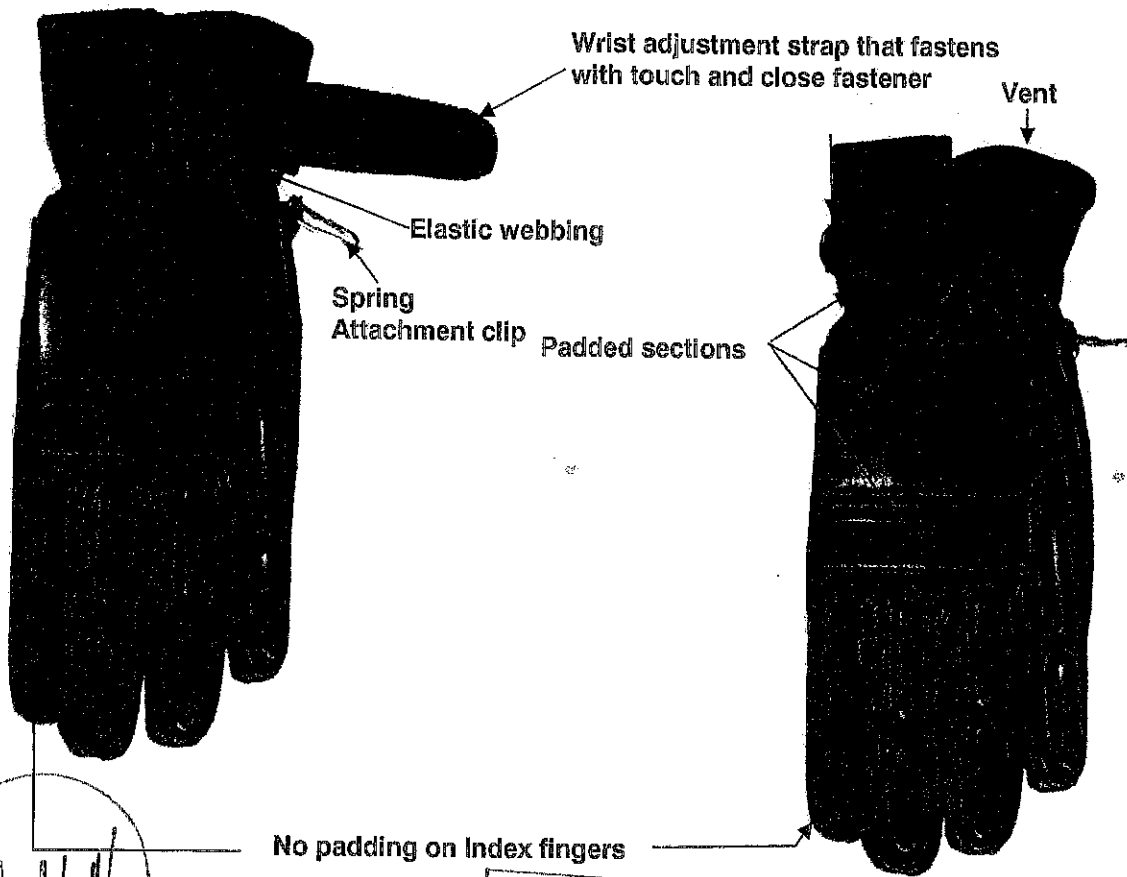
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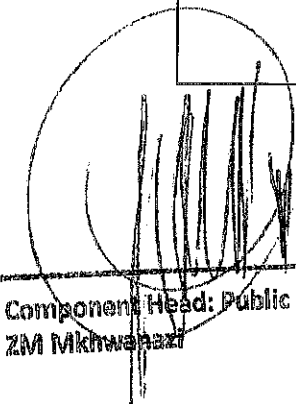
  
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<ul style="list-style-type: none"> <li>- padding material to comply with the requirements as given in 6.16</li> <li>- padding to span approximately 40 % – 60% of the glove finger surface area</li> </ul>		
<ul style="list-style-type: none"> <li>◆ the seam constructions shall be as given in figure 31 for sizes 6 and larger</li> </ul>		
<ul style="list-style-type: none"> <li>◆ the seam allowances may be positioned on the outside for sizes 5 ½ and smaller</li> </ul>		
<ul style="list-style-type: none"> <li>◆ fitted with a D-ring and spring attachment clip of suitable size and shape (see fig. 28)</li> </ul>		



  
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COMPLY	
YES	NO

Figure 28 – Compulsory elements required on the back of gloves

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Reinforced fingers

Securing stitchings

Palm to be reinforced with a layer of leather (flesh side facing outwards) and interlined with a para-aramid fabric e.g. Kevlar® or similar

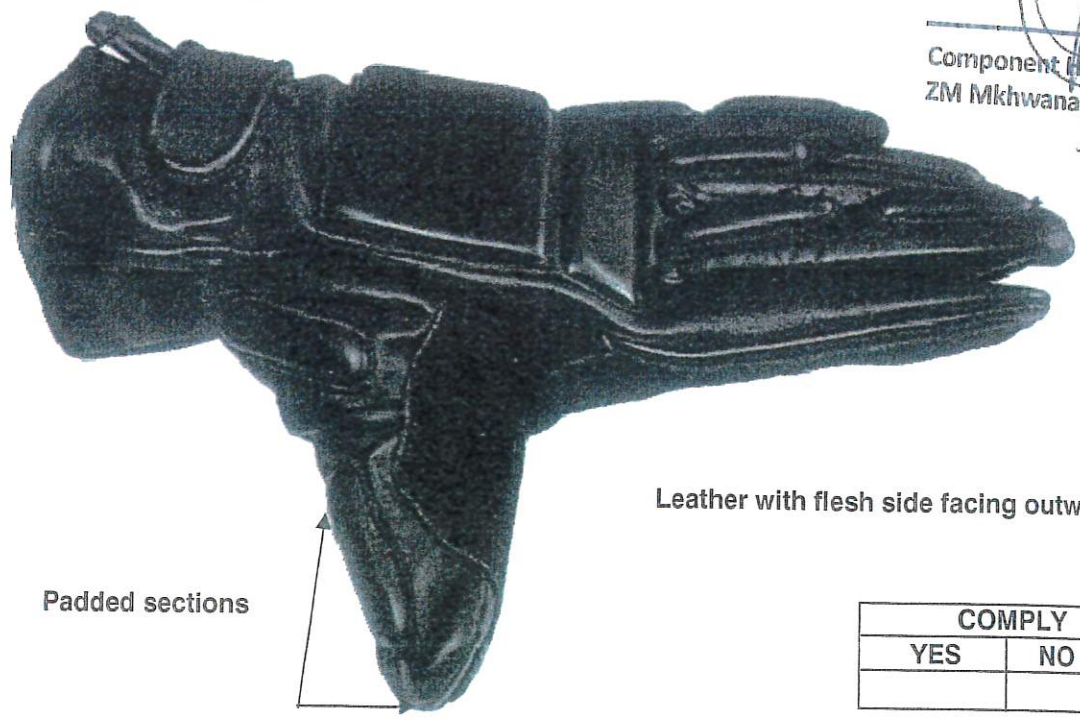
Elastic webbing

COMPLY	
YES	NO

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Figure 29 – Compulsory elements on the palm side of gloves

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Leather with flesh side facing outwards

Padded sections

COMPLY	
YES	NO

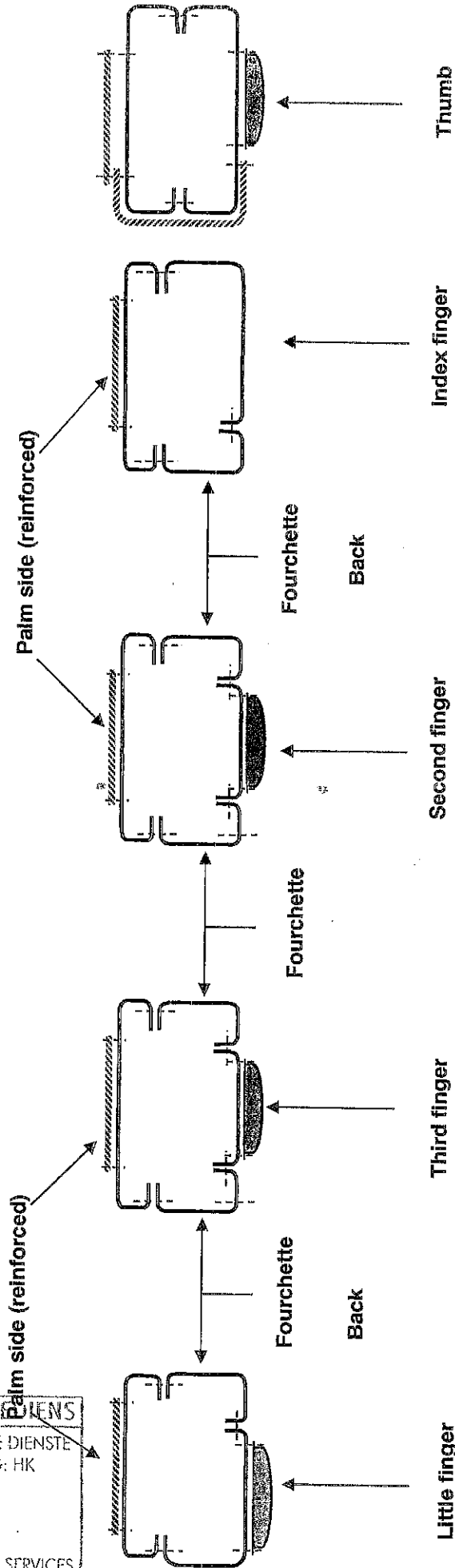
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COMPLY	
YES	NO



Item	Identification
	Reinforced sections (flesh side of leather)
	Grain leather
	Stitches
	Padding

NOTE: On sizes 5 1/2 and smaller, the seam allowances may be positioned on the outside.  
 Figure 31 - Typical cross-section of the glove fingers, depicting the construction as seen from the tips of the fingers

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**15. Protection performance requirement**


The body protection system shall provide sufficient resistance to penetration whereby a cylindrical bat (diameter 60 mm) shall not come within contact of the inner lining when a force of 245 N is applied at the middle of the shin or forearm area.

**16. Packaging and marking**

Packing			Yes	No
16.1.1	The body protection system (consisting of a jacket with shoulder protection, four detachable pockets, protective arm shields, protective leg shields and a pair of gloves) shall be:			
	♦ delivered in a commercially dry condition so packed that they will not be damaged in transit or in storage			
	♦ packed as follows: <ul style="list-style-type: none"> <li>- jacket (ICN 8470T05020055) and a left and right arm pad (ICN 8470T05020059) shall be packed together in a plastics envelope of suitable size and shape</li> <li>- each pair of gloves (ICN 8415T05030474) shall be individually packed in a plastics envelope of suitable size and shape</li> <li>- each pair of leg pads (ICN 8470T05020060), consisting of a left and right leg pad shall be packed together in a plastics envelope of suitable size and shape</li> <li>- the four different sizes pouches (ICN 8470T05051824) shall be packed together in a plastics envelope of suitable size and shape</li> </ul>			
	♦ unless otherwise specified in the order or contract, acceptably packed for transportation in acceptable bulk containers that comply with the following: <ul style="list-style-type: none"> <li>- coffin type boxes with a base and lid</li> <li>- double sided corrugated board boxes</li> </ul>			

16.1.2 Contents of bulk container:			Yes	No
	♦ total mass of packed bulk container shall not exceed 25 kg			
	♦ only body protection components of the same size designation and item description (as relevant and as specified in 16.1.1) be packed together in a bulk container each bulk container shall contain the same amount of items per type (per consignment)			
	♦ the number of units packed in a bulk container shall always be a factor of five, e.g. 5, 10 (according supplier's discretion)			

**NOTE:** Different sizes and different items (with the exception of the jacket and Arm pads, see 16.1.1) may never be packed together in a bulk container. The last bulk container of EACH SPECIFIC SIZE (if relevant) of EACH ITEM per consignment may contain QUANTITIES that deviate from the prescribed amount of items. If this is the case, the supplier will mark this container with a clearly visible red sticker at each outer end of the lid for easy identification.

  
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16.2 Marking		
16.2.1 Plastics envelopes		
	YES	NO
Each envelope to be clearly marked with the following information:		
◆ the item description as given in table 1		
◆ the size designation (if relevant)		
◆ the Item Control Number		

16.2.2 Bulk containers		
	YES	NO
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:		
◆ the manufacturer's name or trade mark or both		
◆ the order number or contract number		
◆ the item description		
◆ the quantity of the item		
◆ the size designation of the item (if relevant)		
◆ the year of manufacture		
◆ the Item Control Number (ICN)		
◆ the invoice number(s)		
◆ the total mass of the packed container		
◆ the SABS Inspection Certificate Number		

**16.3 Add marking**

When so required by the South African Police Service, Supply Chain Management, jackets, pockets, arm shields and leg shields, gloves, plastics bags or containers (or any combination of these) to bear information additional to that specified above, e.g. the inclusion of bar coded item labels

**17. Bid submissions and samples**

17. Bid submissions and samples		
	YES	NO
◆ certificates of conformance (COC)/test reports of all the materials used shall be submitted together with the bid documents		
◆ certificates of conformance/ test reports shall not be older than 12 months		
◆ only test reports from a SANAS or ISO 1705 accredited test laboratory shall be accepted		
◆ the supplier shall submit a certified copy of the original test report(s)		
◆ a sample that complies with the requirements of this private specification shall be submitted together with the bid documents to SAPS Supply Chain Management, Silverton		
◆ the bid sample shall be clearly marked with the bid number		
◆ unsuccessful bidders must collect their samples within one month after the bid has been awarded failure in this regard will result in the sample becoming the property of the State		

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## 18. Warranty


The body protection system shall be guaranteed in terms of paragraph 15 of the Government Procurement: General Conditions of Contract, Annex A.

COMPLY	
YES	NO

## 19. Pre-delivery Inspection

The body protection systems shall be:	YES	NO
◆ subject to a pre-delivery inspection at the premises of the manufacturer/successful bidder		
◆ it shall be the duty of the manufacturer/successful bidder to give adequate notice to SAPS of the availability of the finished products		
◆ SAPS shall, during normal working hours, be given all reasonable facilities for carrying out their duties and shall have the right of entry into the contractor's factory and the factory or works of any subcontractor where work on body protection systems supplied to this specification may be in progress		

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## 20. Normative References

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards may be obtained from the South African Bureau of Standards\*.

**AATCC method 20**, *Fiber analysis: Qualitative*. (Available from World Wide Web [http://www.aatcc.org/Technical/Test\\_Methods/scopes/tm20.cfm](http://www.aatcc.org/Technical/Test_Methods/scopes/tm20.cfm))

**ISO 3801**, *Textiles – Woven fabrics – Determination of mass per unit length and mass per unit area*.

**ISO 17025:2005**, *General requirements for the competence of testing and calibration laboratories*.

**ISO 6892-1**, *Metallic materials -- Tensile testing -- Part 1: Method of test at room temperature*.

**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 105-E07**, *Textiles - Tests for colour fastness Part E07: Colour fastness to spotting: Water*.

**SANS 142**, *Narrow elastic fabrics and strip*.

**SANS 1297:2015**, *Leather gloves*.

**SANS 1423-1**, *Performance requirements for textile fabrics of low flammability Part 1: Apparel fabrics*.

**SANS 1362**, *Se wing threads*.

**SANS 1822**, *Slide fasteners*.

**SANS 1823**, *Touch and close fasteners*.

**SANS 2589/ISO 2589**, *Leather–Physical and mechanical tests – Determination of thickness*.

**SANS 3380/ISO 3380**, *Leather –Physical and mechanical tests–Determination of shrinkage temperature up to 100 °C*.

**SANS 4045/ISO 4045**, *Leather – Chemical tests – Determination of pH*.

**SANS 5278**, *Sewing stitches per unit length*.

**SANS 5398-1/ISO 5398-1**, *Leather – Chemical determination of chromic oxide content, Part 1: Quantification by titration*.

**SANS 5488**, *Width of ribbons and other narrow fabrics*.

**SANS 5616**, *Preparation of samples (leather, elastomeric material and other footwear materials)*.

**SANS 5618**, *Leather – Matter extractable by petroleum ether*.

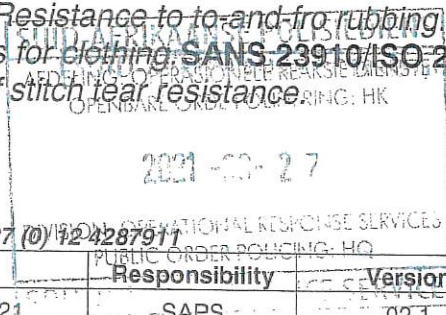
**SANS 5628**, *Perspiration resistance of lining leather*.

**SANS 5636**, *Determination of (a) tensile strength, (b) percentage elongation caused by a specified force, (c) percentage elongation at break of leather*.

**SANS 5639**, *Determination of two-dimensional extension of leather*.

**SANS 6080**, *Footwear materials – Resistance to to-and-fro rubbing*

**SANS 10371**, *Terms and definitions for clothing* **SANS 23910/ISO 23910**, *Leather – Physical and mechanical tests – Measurement of stitch tear resistance*



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ANNEX A

(Normative)

Special conditions of bid

A-1 GENERAL

A-1.1 Unless otherwise stated, the South African Bureau of Standards shall be the inspecting authority.

A-1.2 Two pre-production sample body protection systems, shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced. Each one of these sample body protection systems shall be accompanied by the relevant certificates. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.

A-1.3 The body protection system shall be subject to inspection during the course of manufacture. The inspector shall, during normal working hours, be given all reasonable facilities for carrying out his duties and shall have the right of entry into the contractor's factory and the factory or works of any subcontractor where work on body protection system supplied to this specification may be in progress (where applicable)

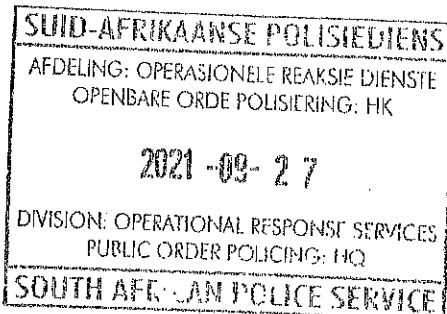
A-1.4 The contractor shall inspect the finished body protection system for compliance with the specification before submitting them to the inspecting authority for final inspection.

A-1.5 Before acceptance, the body protection system shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

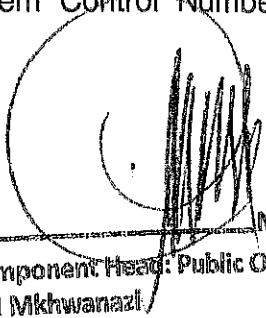
A-2 DOCUMENTATION

One container of each consignment shall be marked "DOCUMENTS" and in addition to the body protection system, shall contain the following:

- a) The packaging slip or delivery note;
- b) where applicable the inspection certificate(s);
- c) a copy of the invoice containing the following information:
  - the order number
  - the financial authority number
  - a full description of the consignment, i.e. Item Control Number, quantity, etc.



COMPLY	
YES	NO

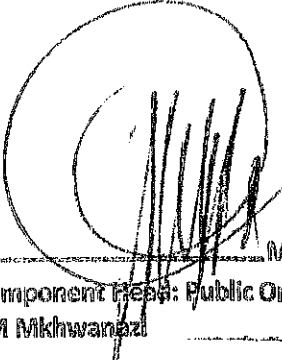
  
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HISTORY SHEET				
Version	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
1.0	2010	First release		
01.1	June 2016	Add images of examples of suitable products Change layout of specification		
01.2	July 2016	Add reference to FR requirement for touch and close fastener, webbing and PVC Add reference to water repellence requirement for outer material Add reference to anti-microbial finish on lining for leg and arm protectors Add requirements for gloves based on a single sample supplied Delete touch and close fastener patches on left fronts of jacket Add ICNs Add reference to size Small to X-Large for leg protectors Add lining for jacket		
02.0	July 2016	Final release as original		
02.0	November 2016	SAPS receives document in MS WORD to do changes themselves		
02.1	September 2021	SAPS receives document in MS WORD to do changes themselves		

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