

# PRIVATE SPECIFICATION

Prepared for



**SOUTH AFRICAN AIRWAYS**

A STAR ALLIANCE MEMBER 

**FLIGHT DECK CREW, LADIES, SINGLE BREASTED JACKET**



Item Number: FL04

Document Number: SAA 023

Version 03.0/September 2015

# 1. Scope

This specification<sup>1</sup> covers the material, cut and make of single breasted jackets for female flight deck crew members of the South African Airways.

## 2. Definitions and Abbreviations

For the purpose of this specification the definitions given in SANS 10371 "Terms and definitions for clothing" and the following shall apply:

**acceptable:** acceptable to the South African Airways

**nominal:** subject to the tolerances normal to good manufacturing practice

**SANS:** South African National Standard

## 3. Style

The style is as follows:

- ♦ single breasted
- ♦ 3-button front button fastening
- ♦ step collar and lapel
- ♦ left front to be fitted with a badge tab
- ♦ rounded front bottom edges
- ♦ two double jetted side pockets
- ♦ long sleeves
  - set-in type
  - two-piece
  - plain cuffs
  - fitted with braid according to the rank
- ♦ centre back seam
- ♦ side body panels
- ♦ straight bottom hem
- ♦ fully lined

<sup>1</sup> This private specification has been compiled by National Private Specifications (Pty) Ltd. [privatespecs@vodamail.co.za](mailto:privatespecs@vodamail.co.za)

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## 4. Illustrations

Illustrations are not to scale and are for guidance only.

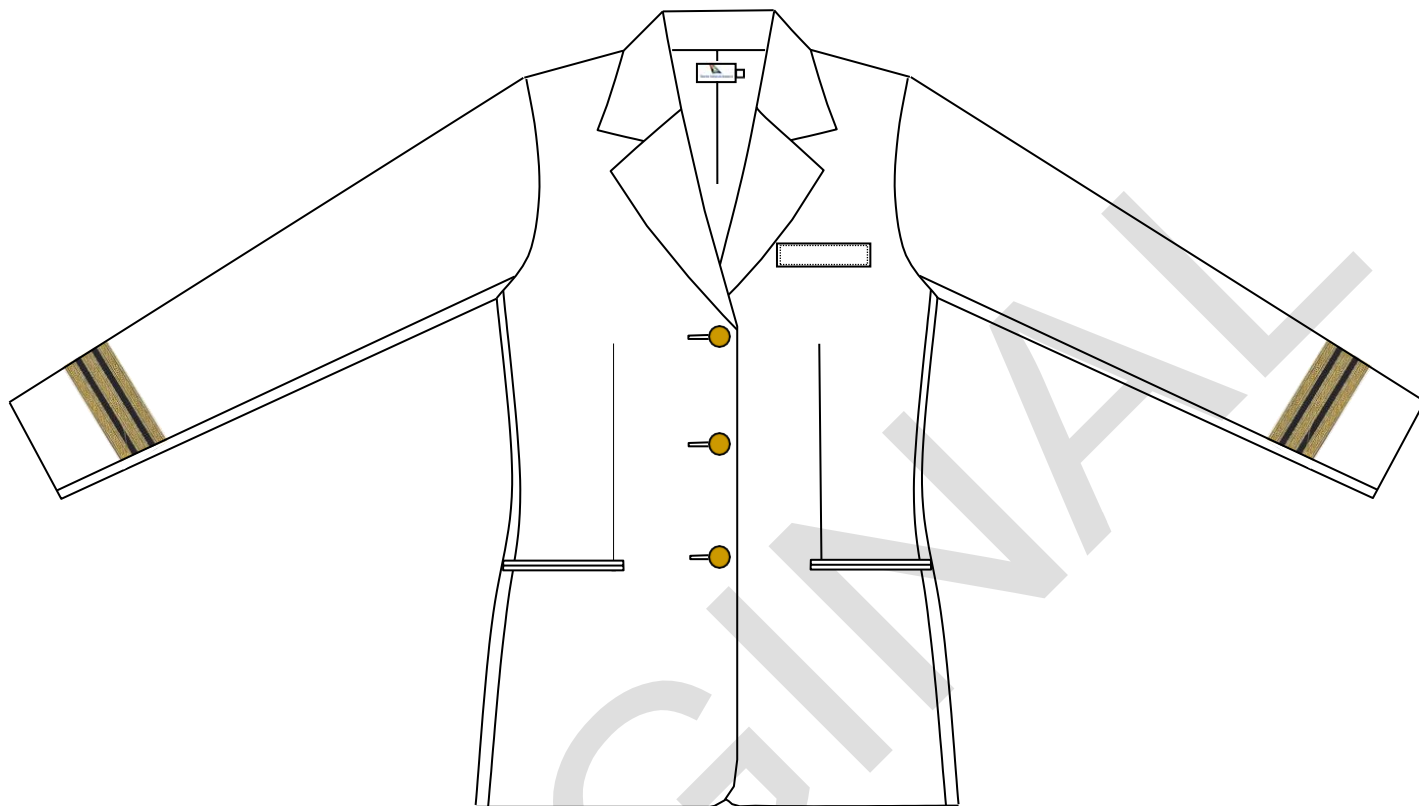


Figure 1 – Front

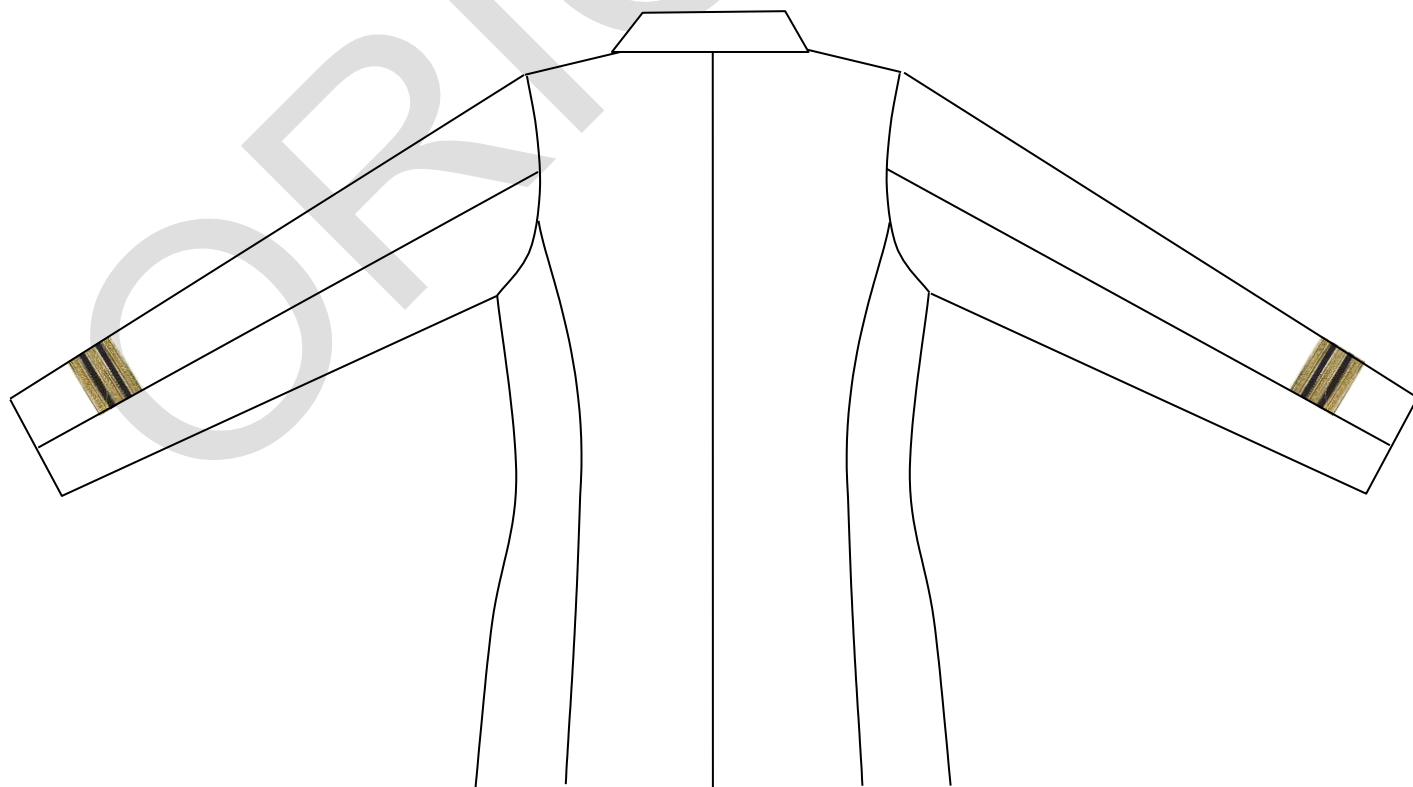


Figure 2 - Back

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## 5. Client Furnished Materials

No materials shall be supplied by the South African Airways.

## 6. Component Materials

The following materials shall be supplied and used by the manufacturer. Trim charts shall also be submitted by the manufacturer (see Annex B).

**NOTE:** All components listed below shall be manufactured in the Republic of South Africa. In instances where the raw material and/or finished components are not available in the Republic of South Africa, the onus shall be on the bidder to apply for exemption certificates from DTI. Exemption certificates, where relevant, shall be submitted together with each bid.

### 6.1 Outer material

- ♦ comply with the requirements of table 1
- ♦ be assessed for defects, in terms of SANS 10076-5, "The assessment of defects in textile piece-goods and made-up articles Part 5: Defects in woven woollen and worsted piece-goods"
  - permissible number of defects:
    - LAQ for a piece: 10
    - LAQ for a lot: 5
- ♦ colour to be a match, in terms of SANS 10076-5, "The assessment of defects in textile piece-goods and made-up articles Part 5: Defects in woven woollen and worsted piece-goods", to Colour No. 543c-2014 "SAA Dark Navy (suiting)" of CKS 129 "Colours for textiles"

### 6.2 Lining

- ♦ to comply with the requirements for type L61P of SANS 1387-7 "Woven cotton and similar apparel fabrics – Part 7: Jacket linings"
- ♦ colour to be an acceptable match to the colour of the outer material

### 6.3 Interlining

- ♦ an acceptable fusible woven or non-woven interlining (as relevant)
- ♦ to comply with the requirements of CKS 627 "Fusible interlinings"
- ♦ mass per unit area to be such that the interlining is suitable for the purpose for which it is used
- ♦ suitable for use in garments which may be dry-cleaned
- ♦ capable of withstanding the same washing and drying procedures as specified for the outer material

The selection of interlining of appropriate mass per unit area to be determined by consultation with the supplier of the interlining. The contractor will be held responsible for the performance of the interlining.

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Table 1 – Outer material requirements

1	2	3
Property	Requirement	SANS standard unless otherwise specified
<b>Composition</b> .....	All wool	AATCC method 20
<b>Weave</b> .....	2/1 Z twill	Visual examination
<b>Mass per unit area, g/m<sup>2</sup>, min.</b> .....	210	79
<b>Number of threads per centimetre</b> <sup>a</sup>		7211-2
Warp, min. ....	24	
Weft <sup>b</sup> .....	24	
<b>Breaking strength, N.</b>		13934-1
Warp, min. ....	400	
Weft <sup>b</sup> .....	334	
<b>Resistance to pilling, rating, min.</b>		6116
After dry-cleaning .....	4	
<b>Dimensional changes after dry-cleaning, % max.</b>		ISO 3175-2
Warp and weft .....	2	
<b>Non-fibrous material content, %, max.</b> .....	2,5	5113
<b>Colour fastness to:</b>		
<b>Light</b> , rating, min. ....	6	105-B02
<b>Dry-cleaning</b> , rating, min.		105-D01
Colour change.....	4	
Staining .....	4	
<b>Perspiration</b> , rating, min.		105-E04
Colour change .....	4	
Staining .....	4	
<b>Abrasion resistance, no. of rubs to end point, min</b> .....	30 000	6009
<b>Mothproofing</b> .....	Mothproof <sup>c</sup>	5580 and 5582
<sup>a</sup> Recommended mean wool fabric diameter: 22µm. <sup>b</sup> Subject to a tolerance of –10 %. <sup>c</sup> In terms of SANS 979.		

## 6.4 Shoulder pads

- ◆ flexible polyester wadding shoulder pad (used for tailored garments)
- ◆ medium height
- ◆ resistant to dry-cleaning and steam pressing

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## 6.5 Buttons

Two types of buttons shall be used which shall be specified in the order or contract:

### 6.5.1 General

- ♦ to be acceptable gold plated metal buttons with shanks
- ♦ to be collar struck
- ♦ made of brass that complies with the relevant requirements of Type Designation CZ101 (90/10 brass), condition ½ Hard, of SANS 1303-1
- ♦ of nominal diameter 20 mm with a rim of nominal width 1.5 mm
- ♦ buttons (obverse and reverse) to be gold plated that shall comply with the requirements as given in Annex A

### 6.5.2 SAA FDC buttons

- ♦ design to incorporate the following:
  - registered SAA tail logo centred in the button
  - rim and SAA tail logo to be bright gold
  - background on obverse of button to be sandblasted (matt)
  - **shank to be horizontal in relation to the tail logo on the significant surface**

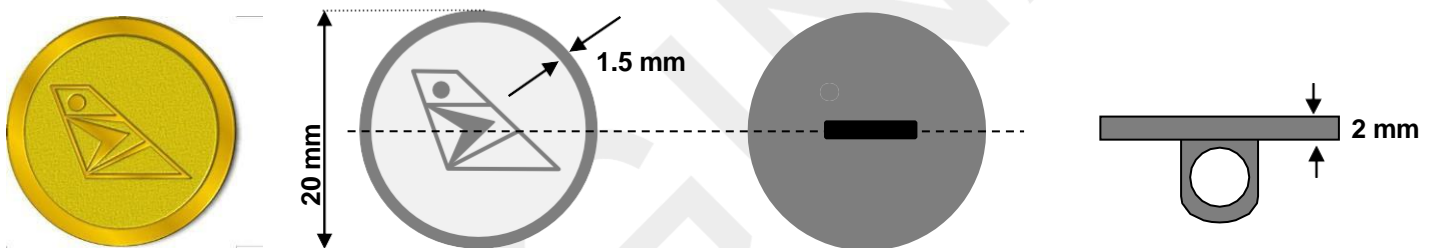


Figure 3 – SAA FDC Button (tail logo to be as per registered design)

### 6.5.3 SA Express FDC buttons

- ♦ design to incorporate the following:
  - registered SA Express tail logo centred in the button
  - rim and tail logo to be bright gold
  - background on obverse of button to be sandblasted (matt)
  - **shank to be horizontal in relation to the tail logo on the significant surface**

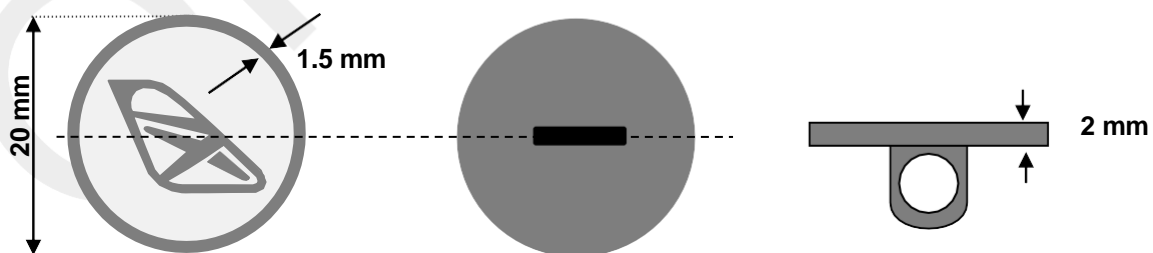


Figure 4 – SAA Express Button (tail logo to be as per registered design)

## 6.6 Sleeve-head roll

- ♦ acceptable sleeve-head roll that conforms to the needs of the pattern

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## 6.7 Stay-tape

- ♦ an acceptable stay-tape or acceptable interlining strips

## 6.8 Braid stripes

### 6.8.1 Cockpit crew

- ♦ gold mylar naval design braid interspaced with a black braid
- ♦ colour to be an acceptable match to colour No. 975c- 2015 “SAA Gold Braid (for Jackets)” of CKS 129 “Colours for textiles”
- ♦ 12 mm wide or 6 mm wide as follows:
  - 4 x 12 mm gold stripes interspaced with black (see figure 5(a))
  - 3 x 12 mm gold stripes interspaced with black (see figure 5(b))
  - 2 x 12 mm gold stripes with 1 x 6 mm gold stripe between, interspaced with black (see figure 5(c))
  - 2 x 12 mm gold stripes interspaced with black (see figure 5(d))

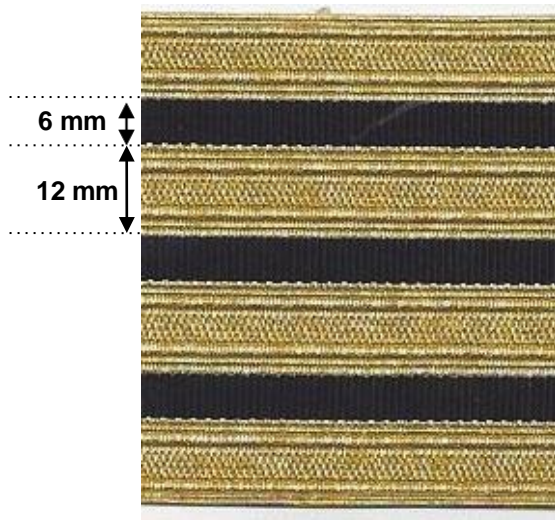


Figure 5(a) – 4 x 12 mm braid



Figure 5(b) – 3 x 12 mm braid

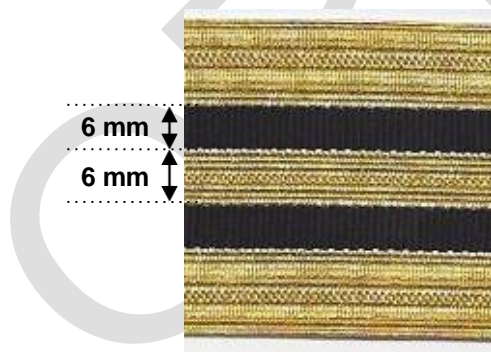


Figure 5(c) – 2 x 12 mm braid and 1 x 6 mm braid



Figure 5(d) – 2 x 12 mm braid

### 6.13.2 Technical staff

- ♦ gold cello naval design braid interspaced with a purple colour of an acceptable shade
- ♦ the design variations of the braid with the gold and purple interspacing shall to be as agreed upon between SAA and the successful bidder

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## 6.9 Threads

- ♦ to comply with relevant requirements of SANS 1362 “Sewing threads”
- ♦ garment: colour to be an acceptable match to the colour of the outer material
- ♦ gold braid attachment: colour to match the gold colour of the braid

### **Sewing thread:**

- ♦ polyester-and-cotton core-spun **OR** staple polyester
- ♦ ticket No 80

## 7. Workmanship

### **The jackets shall be:**

- ♦ cut and made with first-class workmanship throughout
- ♦ of uniform and acceptable make, colour and finish

### **Shall be free from:**

- ♦ defects, that affect their appearance or may affect their serviceability (or both)
- ♦ marks and spots
- ♦ stains, incurred in the making-up

### **Seams and stitches shall be:**

- ♦ smooth and uniform
- ♦ free from twists, pleats and puckers
- ♦ sufficiently extensible to avoid seam cracking and undue shrinkage in use

### **Ends of sewing shall be:**

- ♦ trimmed and loose threads removed
- ♦ back-tacked if unsecured (at least 15 mm)

### **Points not defined in the specification that requires assessing at inspection:**

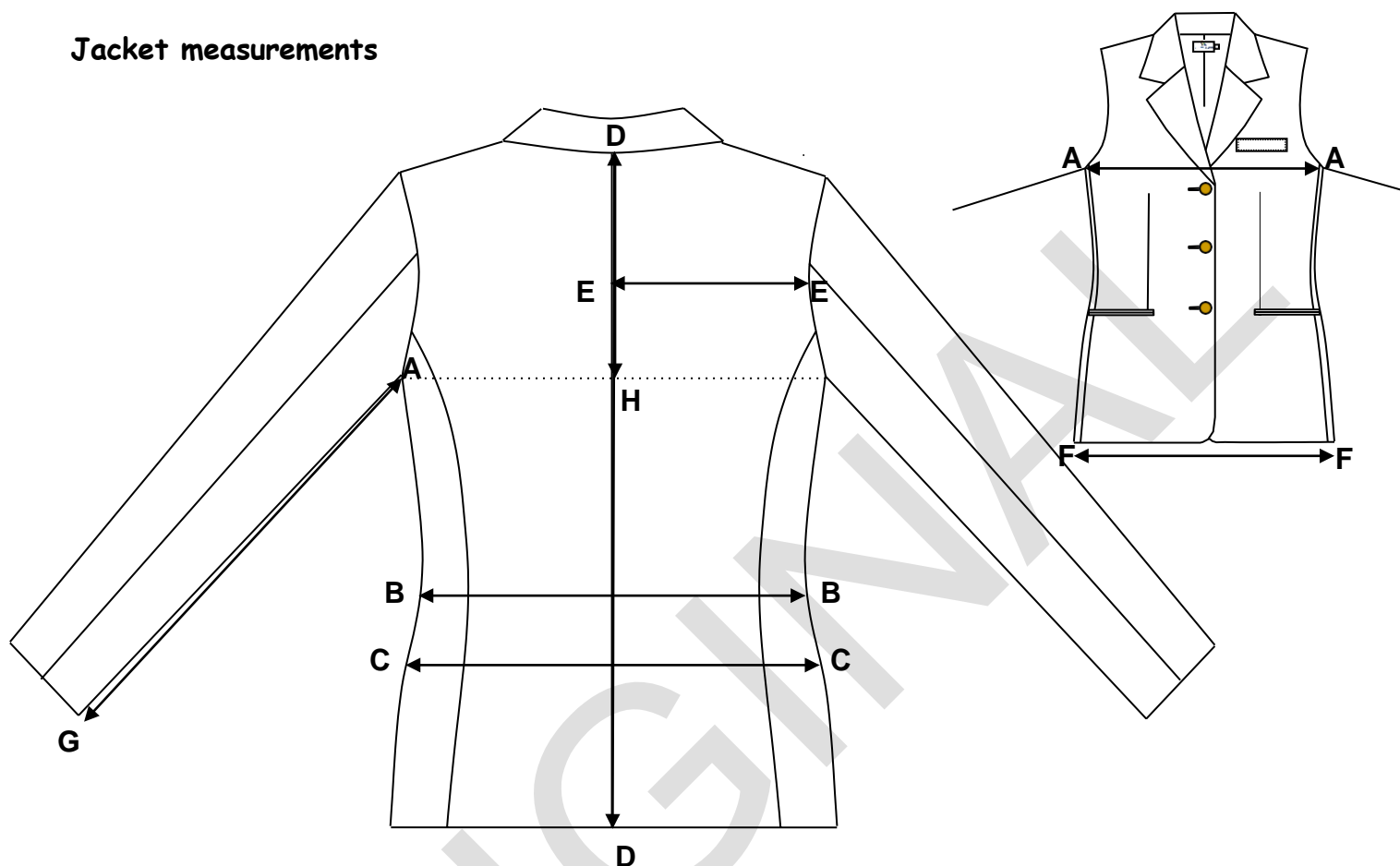
- ♦ Place the jackets on a dummy and check the following points:
  - Is the front and back balance correct?
  - Is the appearance neat and clean?
  - Does the collar fit neatly around the neck?

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## 8. Sizes and dimensions

### Jacket measurements



MEASURING POINT		DESCRIPTION
<b>A - A</b>	Bust circumference	Measure across the width of the garment at the base of the scye, with buttons fastened and garment spread completely flat, and multiply by two.
<b>B - B</b>	Waist circumference	Measure across the width of the garment, at a point below the centre back neck point (determined by using the table in accordance with the appropriate figure type and height) and multiply by two
		<b>R</b> <b>L</b>
		40 CM on size 34 and graded 42 CM on size 34 and graded
<b>C - C</b>	Hip circumference	Measure across the width of the garment, at a point below the waist (determined by using the table in accordance with the appropriate figure type and height) and multiply by two.
		<b>R</b> <b>L</b>
		20 CM 22 CM
<b>D - D</b>	Back length	Measure from the centre back neck seam to the bottom edge of the garment.
<b>E - E</b>	Half across back width	Measure the back width from the centre back seam to the sleeve insertion seam at the narrowest part of the back.
<b>F - F</b>	Bottom hem circumference	Measure in a straight line along the bottom hem of the garment and multiply by two.
<b>A - G</b>	Sleeve length	Measure from the base of the scye to the outer edge of the sleeve.
<b>D - H</b>	Depth of scye	Measure from the centre back collar seam to a point level with the base of the scye.

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**Table 2 - Size range (Regular)**

1	2	3	4	5	6	7	8	9
Size designation <sup>1)</sup>	Nominal finished garments measurements, cm							
	Bust circumference	Waist circumference	Hip circumference	Back length	Half back width	Bottom hem circumference	Sleeve length	Depth of scye <sup>2)</sup>
<b>Regular</b>								
32	91	83	100	67	17	104	41	25
34	96	88	105	68	18	109	42	25.5
36	101	93	110	69	19	114	43	26
38	106	98	115	70	20	119	44	26.5
40	111	103	120	71	21	124	45	27
42	116	108	125	72	22	129	46	27.5
44	121	113	130	73	23	134	47	28
1) Based on the bust circumference, of the intended wearer, in centimetres. 2) To serve as a guideline. Care must be taken with this measurement, ensuring that the bicep measurements are adequate and comfortable to the wearer.								

**Table 3 - Size range (Long)**

1	2	3	4	5	6	7	8	9
Size designation <sup>1)</sup>	Nominal finished garments measurements, cm							
	Bust circumference	Waist circumference	Hip circumference	Back length	Half back width	Bottom hem circumference	Sleeve length	Depth of scye <sup>2)</sup>
<b>Long</b>								
32	91	83	100	69	17	104	43	26
34	96	88	105	70	18	109	44	26.5
36	101	93	110	71	19	114	45	27
38	106	98	115	72	20	119	46	27.5
40	111	103	120	73	21	124	47	28
42	116	108	125	74	22	129	48	28.5
44	121	113	130	75	23	134	49	29
1) Based on the bust circumference, of the intended wearer, in centimetres. 2) To serve as a guideline. Care must be taken with this measurement, ensuring that the bicep measurements are adequate and comfortable to the wearer.								

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## 9. Make

Illustrations are not to scale and are for guidance only, and unless inconsistent with the text, all measurements are nominal.

### 9.1 Foreparts

#### 9.1.1 General

- ◆ to be single breasted
- ◆ to consist of the following panels
  - front panel (see 9.1.2)
  - side body panel
- ◆ be lined with fusible interlining along the front edges and bottom hem
- ◆ straight bottom hem
- ◆ be fitted with shoulder pads
- ◆ be fully lined

#### 9.1.2 Front panels

**NOTE:** *The lapel dimensions may be reduced slightly to ensure that the badge tab is not concealed and completely visible. If this is the case, the newly shaped lapel shall be as agreed upon between SAA and the supplier.*

- ◆ be fully interlined with fusible interlining
- ◆ each have a waist suppression dart
- ◆ each have a lapel
  - lapel step to be of finished length 55 mm
  - to measure 90 mm when measured from the breakline of the lapel to the lapel point (see figure 6)
  - be stayed with staytape of interlining along the breakline of the lapel
- ◆ have front rounded bottom corners
- ◆ each have a facing
- ◆ have straight bottom hems
- ◆ fitted with double jetted side pockets

##### Left front:

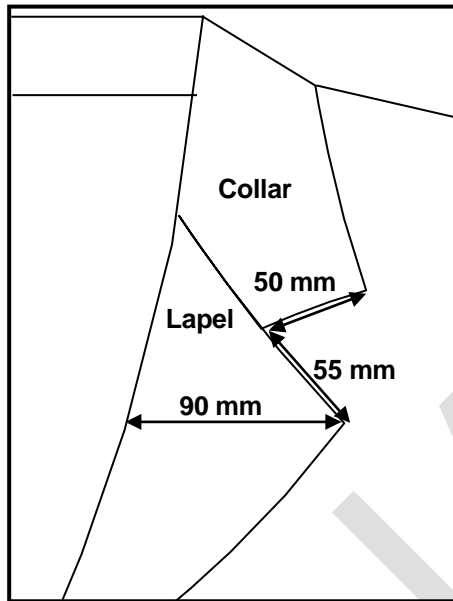
- ◆ to be fitted with three properly secured buttons in corresponding positions to the buttonholes
- ◆ to be fitted with a badge tab of outer material
  - edges to be turned in 10 mm and edge-stitched 2 mm
  - of nominal width 15 mm
  - of finished length 75 mm
  - horizontally positioned and as given in figure 8
  - such that the lapel shall not cover the tab

##### Right front:

- ◆ to be fitted with three buttonholes
  - jacket type buttonholes
  - neatly made, barred and gimped
  - of such length as to neatly accommodate the metal buttons (See 6.5)
  - horizontal

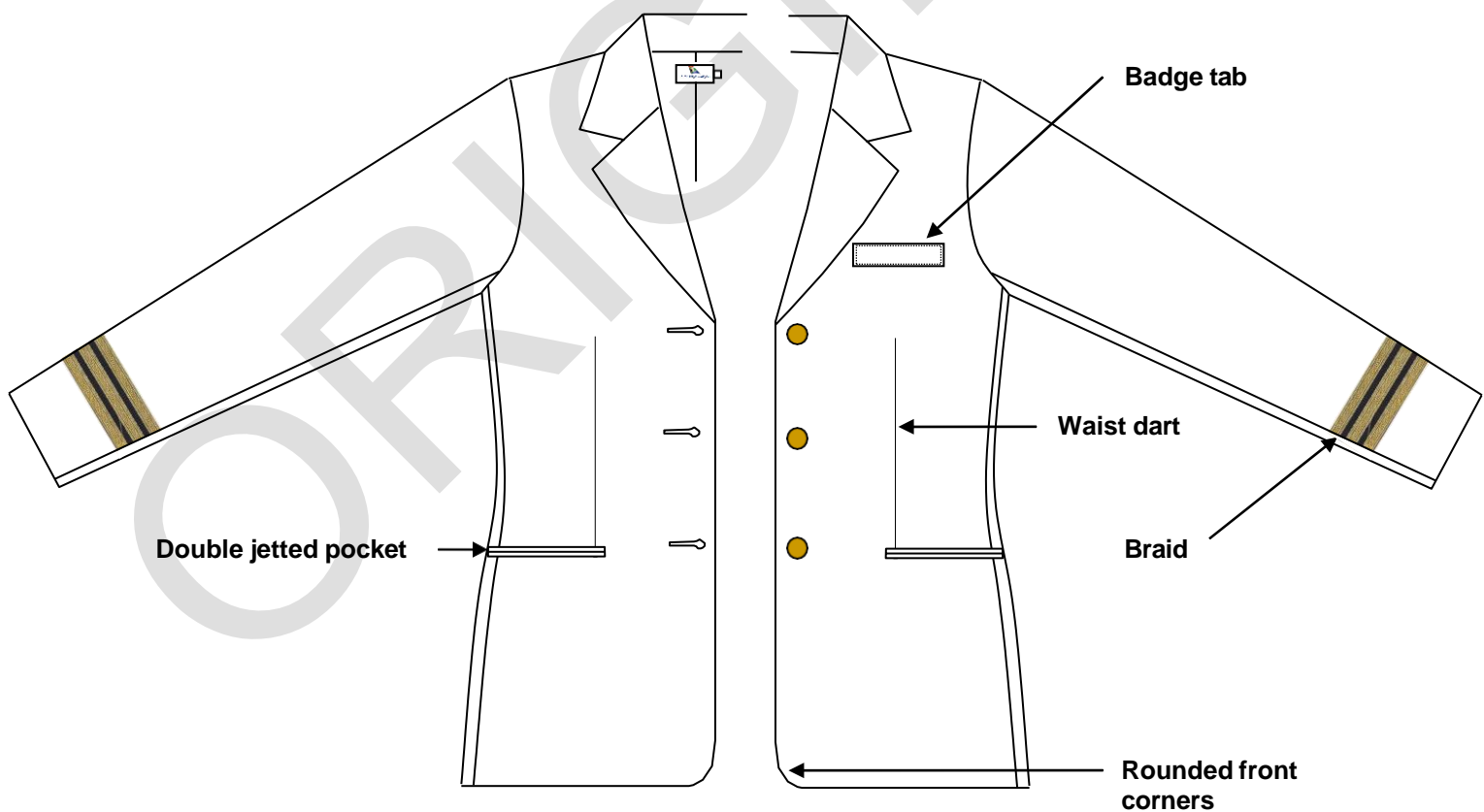
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- positioned 12 mm from the front edge
- top buttonhole to be positioned at the breakpoint of the lapel
- positioned with the second and third buttonholes equidistantly spaced at 8-12 cm intervals (depending on the size)



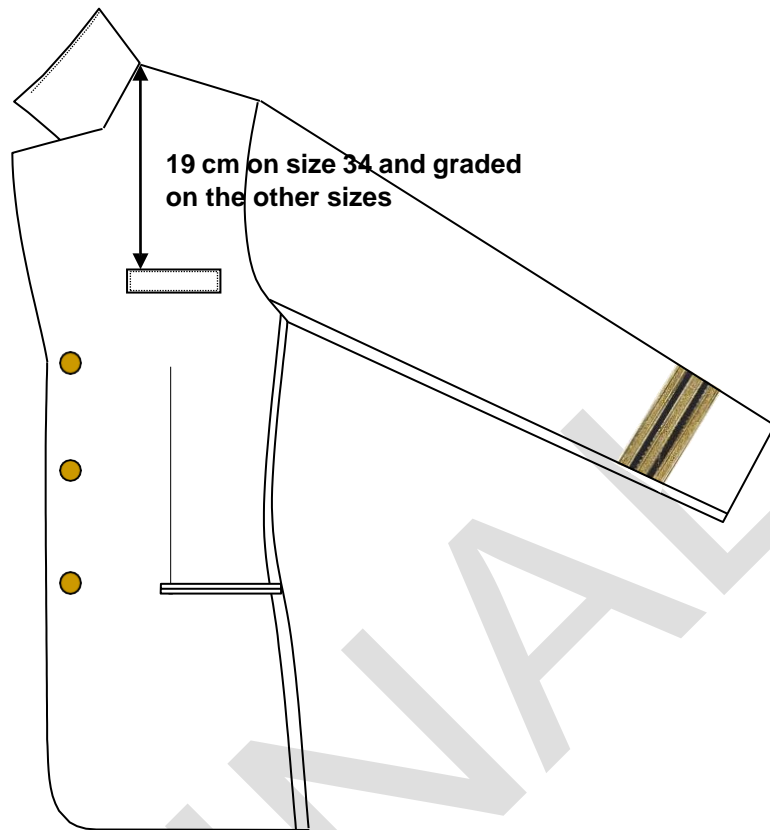
**Figure 6 – Lapel and collar**

**NOTE:** The lapel dimensions may be reduced slightly to ensure that the badge tab is not concealed and completely visible. If this is the case, the newly shaped lapel shall be as agreed upon between SAA and the supplier.



**Figure 7 – Front design features**

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**Figure 8 – Positioning of badge tab**

## 9.2 Facings

- ◆ of outer material
- ◆ interlined with interlining
- ◆ separate (sewn-on)
- ◆ of minimum finished width 35 mm at the shoulder seam and shaped to 9 cm at the breakpoint of the lapel and hemline

## 9.3 Lining

- ◆ correspond to the shape of the jacket
- ◆ be sewn to the bottom and sleeve hem, back collar and front facing
- ◆ have a 20 mm knife pleat at the centre back neck, extending from top centre back neck and tapering to the waist
- ◆ have a pleat along the bottom hem and cuff
- ◆ fitted with two breast pockets (see 9.7.3)

### **Facing-to-lining seam:**

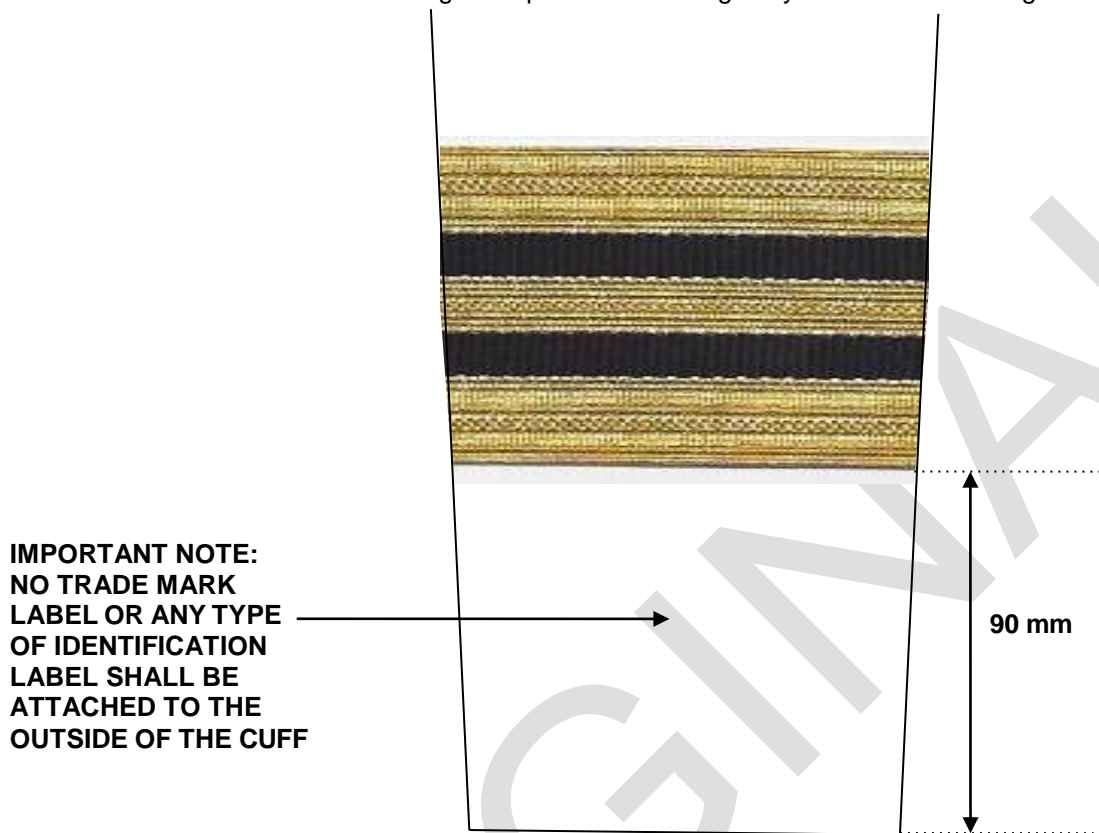
- ◆ to be smooth and without undue fullness

## 9.4 Sleeves

- ◆ be long, two-piece
- ◆ be set-in type and fitted with a shoulder pad and sleeve head roll
- ◆ be stayed at the base of the scye
- ◆ be fully lined
- ◆ bicep circumference to measure 36 cm on size 34 and graded proportionally on smaller and larger sizes (when measured from the base of the scye, perpendicular to the overarm, and multiplied by two)
- ◆ cuff circumference to measure 26 cm on size 34 and graded proportionally on smaller and larger sizes

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- ♦ cuffs to be interlined with interlining
  - cuff to have a hem of finished depth 40 mm
- ♦ cuff to be fitted with gold braid (see 6.8 as specified in the order or contract)
  - to be positioned on the top sleeve and sewn in with the forearm and hind-arm seams
  - positioned 90 mm from the cuff edge (see figure 9)
  - braid to be sewn along the top and bottom edges by means of 2 mm edge-stitching



**Figure 9 – Braid attached to top sleeve**

## 9.5 Back

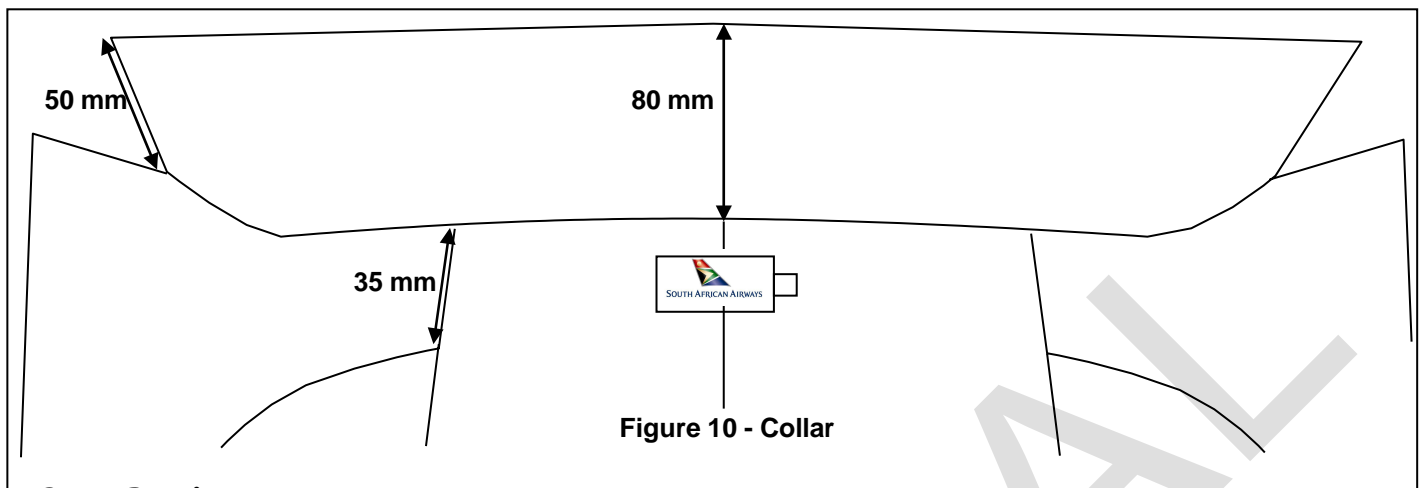
- ♦ to have a centre back seam
- ♦ shaped side body panels that shall extend from the sleeve insertions seam to the bottom hem
- ♦ be fully lined with lining

## 9.6 Collar

### **Collar shall:**

- ♦ be a jacket type collar
- ♦ be a one-piece collar
- ♦ of outer material
- ♦ be lined with outer material which shall have a centre back seam and cut on the bias
- ♦ be interlined with interlining
- ♦ flat (free from curl) and smooth (finished collar)
- ♦ undercollar to be stay-stitched
- ♦ of finished width 80 mm at the center back
- ♦ such that the collar points are of finished length 50 mm
- ♦ be such that the gap between the collar points and the outer edge of the lapel shall measure 30 mm

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## 9.7 Pockets

### 9.7.1 General

- ◆ each jacket shall be fitted with two outside side pockets
- ◆ each jacket shall be fitted with two inside breast pockets

### 9.7.2 Side pockets

- ◆ be double jetted
- ◆ be of finished length 14 cm on sizes 34 and graded proportionally for smaller and larger sizes (if required)
- ◆ be positioned in line with the bottom buttonhole
- ◆ be positioned at the base of the waist suppression dart
- ◆ positioned with the front edge 15 mm forward of the waist suppression dart
- ◆ pocket bags to be
  - of lining
  - swing type
  - shall not be caught in with the seams
  - width to be 20 mm wider than specified for the pocket mouth
  - of finished depth 16 cm

### 9.7.3 Inside breast pockets

- ◆ be positioned on left and right inside lining
- ◆ have a double jetted pocket mouth
  - to be of outer material
  - length to be 11 cm
  - positioned approximately in line with the base of the scye
  - front edge of pocket to extend 10 mm onto the front facing
  - outer edges to be vertically bar-tacked and finished with a circular stitching
- ◆ pocket bags to be
  - of lining
  - swing type
  - shall not be caught in with the seams or buttons
  - of finished depth 18 cm
  - of finished width 12 cm

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## 9.8 Bottom hems

- ♦ of finished width 20 mm
- ♦ interlined with interlining
- ♦ turned in and sewn to the lining

## 9.9 Spare buttons

- ♦ one button shall be placed in a plastics envelope and attached to the swing ticket or inside breast pocket

## 9.10 Hanger

The hanger shall be:

- ♦ of lining or of an acceptable tape
- ♦ of finished length 70 mm
- ♦ of finished width 6 mm
- ♦ stitched down on collar at centre back on the inside

# 10. Stitches, Seams and Stitchings

## 10.1 Stitches

**main seaming:** single needle lock stitch

## 10.2 Seams

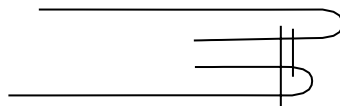
**Seams to be at least 10 mm wide (unless otherwise stated):**

**Body and sleeve seams:** seam type SSa



Superimpose two or more plies of material and seam with one row of stitches positioned at the specific distance(s) from the aligned edges.

**Collar edge:** seam type SSae-2



Form seam Type SSa-1, using two plies of material. Then turn back each ply at the seam, stay-stitch the one layer, ensuring that when more than one row of stitches is used, one row passes through the folded edges.

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## 10.3 Number of stitches

The determination of sewing stitches per unit length will be done in accordance with SANS 5278 "Sewing stitches per unit length"

**Seaming:** 40 ± 4 per 10 cm

**Buttonholes:** 12 ± 1 per 1 cm

**Button:** 10 - 12 per button

## 11. Garment labels

**NOTE:** Tender samples shall be fitted with a printed label displaying the manufacturer's name or trade mark and size.

### 11.1 Label identification

Each garment shall be fitted with the labels as given in table 4:

Table 4 – Label identification

Type		Requirements
1.	a woven logo jacquard label	See 11.2
2.	a woven jacquard size label	See 11.3
3.	a garment specific printed woven fabric label*	See 11.4
4.	a care-label*	See 11.5
5.	a paperboard swing tag	See 11.6

\*These two labels may be separate labels or a single loop label.

### 11.2 Jacquard logo label

Each label shall:

- ♦ be a woven jacquard label
- ♦ edges to be properly finished to prevent fraying
- ♦ information to be in legible and indelible block letters of height at least 3 mm
- ♦ permanently secured and sewn to lining below the neck at centre back
- ♦ be such that it shall outlast the garment
- ♦ include the following information:
  - the manufacturer's name or trade mark or both
  - the registered full-colour SAA logo at top of label (see figure below)



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## 11.3 Jacquard size label

Each label shall:

- ◆ be a woven jacquard loop label
- ◆ edges to be properly finished to prevent fraying
- ◆ information to be in legible and indelible block letters of height at least 3 mm
- ◆ sewn together with the side edge of the jacquard logo label
- ◆ be such that it shall outlast the garment

## 11.4 Printed garment labels

Each label shall:

- ◆ be white woven rayon label that is printed
- ◆ comply with SANS 1309 "Printed labels for textiles"
  - information to be in legible and indelible block letters of height at least 3 mm
- ◆ permanently secured and sewn to the back facing
- ◆ be such that they outlast the garments (including the markings)
- ◆ include the following information:
  - the item number
  - order number
  - the year and month of manufacture
  - the VAT no of the contractor
  - the country of origin, i.e. "Made in the RSA"

## 11.5 Printed care-labelling

Each label shall:

- ◆ be white woven rayon label that is printed
- ◆ comply with SANS 1309 "Printed labels for textiles"
  - information to be in legible and indelible block letters of height at least 3 mm
- ◆ permanently secured to the side seam
- ◆ be such that they outlast the garments (including the markings)
- ◆ to provide appropriate care instructions (in accordance with SANS 10011 "Care-labelling of textile piece-goods, textile articles and clothing") in words and symbols
- ◆ provide the fibre composition of the fabric in accordance with the requirements of SANS 10235 "Fibre content labelling of textiles and textile products"

## 11.6 Printed swing tags

Each swing tag shall:

- ◆ be a white cardboard printed label
- ◆ information to be in legible and indelible block letters of height at least 3 mm
- ◆ include the following information:
  - the size designation
  - the item number
  - the item description
  - the month and year of manufacture
  - the order number

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## 12. Packaging and marking of packaging

### 12.1 Packing

#### 12.1.1 The jackets shall be:

- ♦ delivered in a pressed and commercially dry condition
- ♦ so packed that they will not be damaged in transit or in storage
- ♦ individually placed on a hanger and packed in a plastics envelope of suitable size and shape
- ♦ unless otherwise specified in the order or contract, acceptably packed for transportation in bulk containers

#### 12.1.2 Jackets:

- ♦ of the same size designation to be packed together in a bulk container (unless quantities ordered are such that packing together of the same size is not justified)
- ♦ of different size designations may also be packed together to accommodate the last part of an order or contract

### 12.2 Marking

#### 12.2.1 Plastics envelopes

Each envelope to be clearly marked with the following information:

- ♦ the item number
- ♦ the item description
- ♦ size designation
- ♦ the order number
- ♦ month and year of manufacture

#### 12.2.2 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:

- ♦ the manufacturer's name or trade mark or both
- ♦ the order number or contract number
- ♦ the item description
- ♦ the item number
- ♦ the size designation
- ♦ the quantity of the item
- ♦ the **month and year** of manufacture
- ♦ the order number
- ♦ the box number, e.g. "1 of 5"
- ♦ the total mass of the packed container
- ♦ the Inspection Certificate Number

### 12.3 Additional marking

When so required by the South African Airways, jackets, plastics envelopes or containers (or any combination of these) to bear information additional to that specified above.

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## 13. Normative References

The following documents contain provisions which, through reference in this text, constitute provisions of this specification. All documents are subject to revision and, since any reference to a document is deemed to be a reference to the latest edition of that document, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the documents indicated below. Information on currently valid national, international and CKS documents 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)>

**CKS 129**, *Colours for textiles*.

**ISO 3175-2**, *Textiles – Dry cleaning and finishing – Part 2: Procedures for tetrachloroethene*.

**ISO 6940**, *Textile fabrics – burning behaviour – determination of ease of ignition of vertically oriented specimens*.

**SANS 79**, *Textiles - Mass per unit area of conditioned fabrics*.

**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-D01/ISO 105-D01**, *Textiles - Tests for colour fastness Part D01: Colour fastness to dry cleaning*.

**SANS 105-E04/ISO 105-E04**, *Textiles - Tests for colour fastness Part E04: Colour fastness to perspiration*.

**SANS 979**, *Textile products - Permanent mothproofing*.

**SANS 1303-1**, *Wrought copper alloys Part 1: Chemical composition of copper-zinc alloys (non-leaded and leaded)*.

**SANS 1362**, *Sewing threads*.

**SANS 1387**, *Woven cotton and similar apparel fabrics Part 7: Jacket linings*.

**SANS 5113**, *Non-fibrous material content of wool*.

**SANS 5580**, *Pesticides: Biological evaluation of mothproof textiles containing wool*.

**SANS 5582**, *Pesticides: Biological evaluation of dry-cleaning-durability properties of mothproof textiles containing wool*.

**SANS 6009**, *Abrasion resistance of textile fabrics (Martindale test)*.

**SANS 6116**, *Resistance of textile fabrics to pilling and fuzzing (Random tumble method)*.

**SANS 7211-2/ISO 7211-2**, *Textiles - Woven fabrics - Construction - Methods of analysis Part 2: Determination of number of threads per unit length*.

**SANS 10076-5**, *The assessment of defects in textile piece-goods and made-up articles Part 5: Defects in woven woolen and worsted piece-goods*.

\* South African Bureau of Standards: Tel. +27 (0) 12 4287911

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**SANS 10235**, *Fibre-content labelling of textiles and textile products.*

**SANS 10371**, *Terms and definitions for clothing.*

**SANS 13934-1/ISO 13934-1**, *Textiles - Tensile properties of fabrics Part 1: Determination of maximum force and elongation at maximum force using the strip method.*

## **ANNEX A**

**(Normative)**

### **Gold plating requirements**

***The significant surface as well as the reverse of the buttons shall be electroplated with gold:***

**The gold coating shall:**

- ♦ be electroplated with a uniform and bright deposit of gold
- ♦ have a minimum gold content of at least 995 parts per 1 000, when tested with an acceptable non-destructive test method (e.g. an instrument operating on the beta-ray back-scatter principle)
- ♦ colour to comply with the sample held by the South African Airways
- ♦ have no contact marks from the electroplating process
- ♦ render a clean surface
- ♦ adhere firmly to the base metals
- ♦ when viewed at a distance of 350 mm, be free from the following defects
  - blisters, pits, roughness, cracks, stains, discoloration and/or mechanical damage

**The thickness of the coating shall be:**

- ♦ 1µm at any point
- ♦ be tested by using an acceptable non-destructive test method (e.g. an instrument operating on the beta-ray back-scatter principle) to determine the thickness on the obverse and reverse sides of the button and badge

**The discontinuity of the coating shall be tested as follows:**

- ♦ use a volume fraction of 50% aqueous solution of nitric acid at 25°/25° C = 1,42 maintained at 18 °C ± 2°C
- ♦ immerse the badge to a suitable depth, in the acid for (60 ± 2) s

**Regard the following as evidence of discontinuity:**

- ♦ evolution of gas bubbles during immersion
- ♦ imparting of a blue colour to the acid solution
- ♦ definite change on the obverse or reverse sides of the button on removal from the acid solution
- ♦ more than 6 pinpoint defects on the obverse or reverse of the button

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## ANNEX B

(Normative)

### Special conditions of tender

#### B-1 GENERAL

- B-1.1** Unless otherwise stated, the South African Airways (or an organization deputed by it) shall be the inspecting authority.

***Any applications for deviations from drawings or the specification, or any laid down process, treatment or procedures as set out in this specification, must be made to the SA Airways and verified by the inspection authority. All applications must be submitted in writing.***

- B-1.2** Three pre-production sample jackets in different size designations, shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced. Each one of these samples shall be accompanied by a trim chart containing a sample of each component material (as given in 6) and the relevant certificates, including verification certificates of the fabric. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.

- B-1.3** The jackets 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 jackets supplied to this specification may be in progress

- B-1.4** The contractor shall inspect the finished jackets for compliance with the specification before submitting them to the inspecting authority for final inspection.

- B-1.5** Before acceptance, the jackets shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

#### B-2 DOCUMENTATION

One container of each consignment shall be marked "DOCUMENTS" and in addition to the jackets, 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 Number, quantity, etc

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**ANNEX C**  
**(Normative)**  
**CKS 129 Colours**

Due to the fact that colours can change over a period of time, any colour standard which has been registered for a period of SEVEN YEARS or more shall be considered obsolete. These standards shall then be allocated an archived status (as opposed to current status) and re-registration shall be required.

**NOTE:** *Before fabric is sent to SABS for colour registration purposes, the successful bidder shall confirm with SABS whether a submission is required or not.*

**A. The following scenarios require a submission of three metres of fabric from the successful tenderer:**

1. A colour standard is archived.
2. First time registration is required (CKS 129 colour number does not exist).
3. Colour swatch stock at the SABS is no longer available.

**B. Requirements for the submission of fabric as identified in A:**

1. The colour shall be as agreed upon between the South African Airways and the successful bidder.
2. The fabric shall be used to make new colour swatches which shall be the responsibility of the SABS.
3. The cost of the three metres of fabric shall be incorporated in the relevant bid submission.

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HISTORY SHEET				
VERSION	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
001	June 2007	First release		
02.0	Dec 2011			
03.0	September 2015	Amend spec to reflect sample Add note about local content Add note to omit all labelling on cuff Add badge tab Add detail of gold braid and CKS 129 Colour Add detail of gold plated buttons Clarify measuring points Omit flammability requirement of outer material		

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