

PRIVATE SPECIFICATION

Prepared for the



SOUTH AFRICAN AIRWAYS

A STAR ALLIANCE MEMBER 

LADIES CABIN CREW SERVICE JACKET



Item Number: CL05
Document Number: SAA2010
Version 02.0/April 2014

1. Scope

This specification¹ covers the material, make and design of sleeveless service jackets for female personnel of the South African Airways cabin crew.

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:

- ♦ slide-fastener front opening
- ♦ sleeveless
- ♦ rounded neckline that shall have a cut-away "V" at the centre front
- ♦ each front to consist of two panels
 - panel lines to extend from the shoulder seam, over the bust prominence to the bottom hem
- ♦ back to consist of three panels
 - panel lines to extend from the shoulder seam to the bottom hem
- ♦ two side pockets with slanted pocket mouth openings
- ♦ cut-away bottom front edges
- ♦ facings along front edges, armholes, front and back neckline
- ♦ fully lined

¹ This private specification has been compiled by National Private Specifications (Pty) Ltd. privatespecs@vodamail.co.za

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4. Illustrations

Illustrations are not to scale and are for guidance only.



Figure 1 – Front and back

5. Client Furnished Materials

No materials will be supplied by the South African Airways.

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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 A).

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

- ♦ to comply with the requirements as given in table 1
- ♦ 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. 631c-2014 "SAA Royal Blue (suiting)" of CKS 129 "Colours for textiles"
- ♦ to be treated with a fabric protector (water-repellent, oil-and-soil repellent, breathable, washable and dry-cleanable)
 - Ruco-guard®² is a typical example of a suitable product
 - manufacturer to submit a certificate of the relevant product used

6.2 Lining

6.2.1 General

- ♦ lining shall be treated with an anti-static finish
- ♦ colour to be an acceptable match to the outer material
- ♦ to comply with one of the types as given 6.2.2 and 6.2.3 (both types will be regarded as acceptable)

6.2.2 Type 1 lining

- ♦ to comply with the requirements for type L61P of SANS 1387-7 "Woven cotton and similar apparel fabrics – Part 7: Jacket linings"

6.2.3 Type 2 lining

- ♦ to comply with the same requirements as specified for Type 1, but with the following deviations:
 - weave: to be a mock-leno weave
 - air permeability: to have a minimum requirement of 130 cfm³ at 12.5 mm (0.5 in) water pressure when tested in accordance with ASTM D737-96 "Standard Test method for air permeability of textile fabric"

² Ruco-Guard® is the trade name of a product supplied by the Rudolf Group™. This information is given for the convenience of users of this private specification and does not constitute an endorsement by the South African Airways of the product named. Equivalent products may be used if they can be shown to lead to the same results.

³ cfm = cubic feet of air per minute per square foot of fabric (ft³/min/ft²)

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Table 1 – Outer material requirements

1	2	3
Property	Requirement	SANS number (unless otherwise indicated)
Composition, %		1833-1 and 1833-4
Polyester	55 ± 3	
New wool	43 ± 3	
Lycra®	2	
Weave	Plain	Visual examination and physical analysis
Nominal width , cm	153	82
Mass per area (free from non-fibrous material), g/m ² , min. ..	190	79
Number of threads per centimetre , min.		7211-2
Warp	18	
Weft	18	
Breaking strength , N, min.		13934-1
Warp	750	
Weft.....	500	
Seam strength , N, min.		5726
Parallel to warp	100	
Parallel to weft	100	
Resistance to pilling^a , rating, min.	3,5 (slight to moderate)	6116
Dimensional changes , %, max.		
Laundering		960, Washing proc C Drying proc E
Warp and weft direction	2	
Dry-cleaning		ISO 3175-2
Warp and weft direction	2	
Non-fibrous material content , %, max.	3,5	5113
Colour fastness to:		
Washing , rating, min.		105-C10 Test B (2)
Change in colour	4	
Staining	4	
Dry cleaning		105-D01
Change in colour	4	
Staining	4	
Perspiration: pH 5,5 and 8,0 , rating, min.		105-E04
Change in colour	4	
Staining	4	
Rubbing , rating, min.		105-X12
Dry	4	
Wet	4	
Light , rating, min.	5	105-B02
^a Tested after washing in accordance with SANS 11108.		

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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 area to be such that the interlining is suitable for the purpose for which it is used
- ◆ capable of withstanding the same washing and drying procedures as specified for the outer material

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

6.4 Slide fasteners

- ◆ one-way open-end
- ◆ synthetic spiral
- ◆ a typical example of a suitable product is supplied by YKK⁴
- ◆ comply with relevant requirements of class B slide fasteners of SANS 1822 “Slide fasteners”
- ◆ colour to be an acceptable match to the colour of the outer material

6.5 Threads

- ◆ to comply with relevant requirements of SANS 1362 “Sewing threads”
- ◆ colour to be an acceptable match to the colour of the outer material

Sewing and top-stitching thread:

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

⁴ This information is given for the convenience of users of this private specification and does not constitute an endorsement by SAA of any products supplied by YKK. Equivalent products may be used if they can be shown to lead to the same results.

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7. Workmanship

The service 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
- ◆ 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

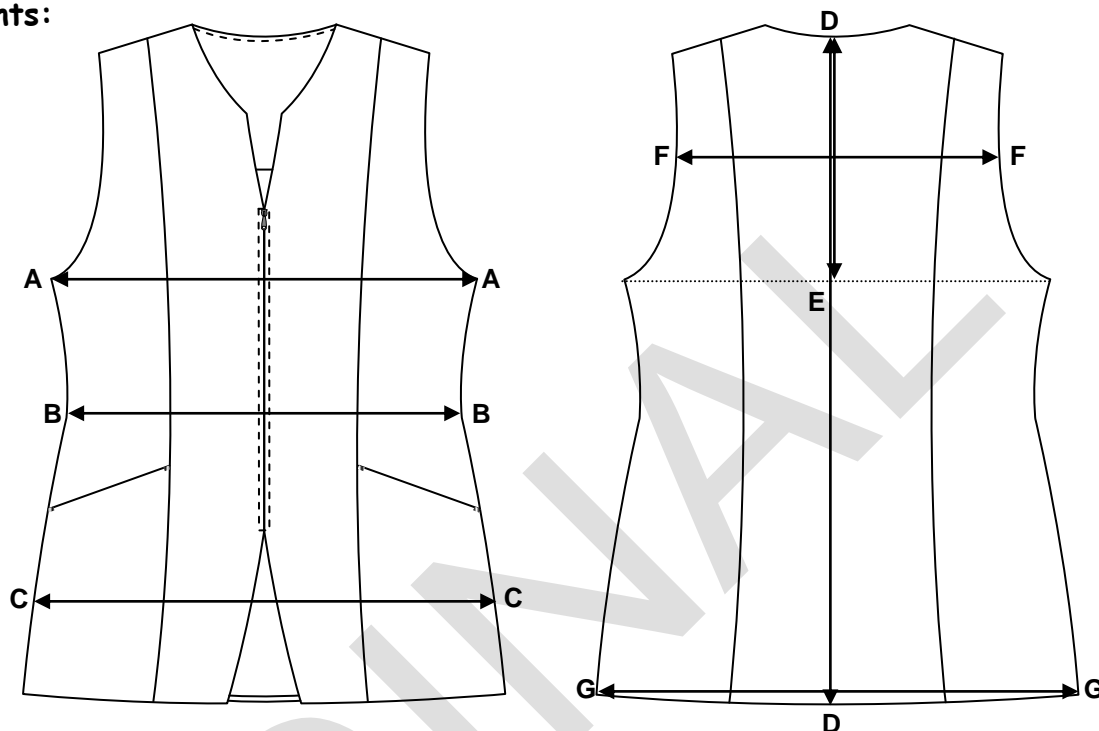
Ends of sewing shall be:

- ◆ trimmed and loose threads removed
- ◆ back-tacked if unsecured

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8. Sizes and dimensions

Jacket measurements:



Measuring point		Description
A – A	Bust circumference	Measure at the base of the scye, with the garment spread completely flat, slide fastener fastened and multiply by two.
B – B	Waist circumference	Measure across the width of the garment, with the slide fastener fastened, at the narrowest part of the body of the garment and multiply by two.
C – C	Hip circumference	Measure across the width of the garment, with the slide fastener fastened, 33 CM BELOW UNDERARM and multiply by two.
D – D	Back length	Measure from the centre back neck point to the bottom hem.
D – E	Depth of scye	Measure from the centre back neck to the level of the base of the scye.
F – F	Back width	Measure across the width, at the midpoint of the scye.
G – G	Bottom hem circumference	Measure in a straight line, from the one side seam to the other and multiply by two.

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Table 2 – Size range

1	2	3	4	5	6	7	8	9
Size design- nation ¹	Nominal finished garment measurements, cm							
	Circumference			Back length	Back width	Front slide fastener length	Depth of scye	Bottom hem circumference
	Bust	Waist	Hips					
30	90.5	77.5	100.5	68.8	35	32	24.8	106.5
32	93	80	103	69.4	36	34	25.4	109
34	98	85	108	70	37	34	26	114
36	103	90	113	70.6	38	34	26.6	119
38	108	95	118	71.2	39	34	27.2	124
40	113	100	123	71.8	40	34	27.8	129
42	118	105	128	72.4	41	34	28.4	134
44	123	111	134	73	42	34	29	140
46	128	117	140	73.6	43	34	29.6	146
48	133	123	146	74.2	44	34	30.2	152
50	138	129	152	74.8	45	34	30.8	158
52	143	135	158	75.4	46	34	31.4	164
1) Based on the bust circumference in inches of the intended 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 Fronts

Fronts to:

- ♦ fasten with a slide fastener
 - inserted in such a way that the front edges shall be abutted
 - to extend from the bottom of the “V” cut-away to 19 cm above the bottom hem
 - slide fastener to be sandwiched between the front edges of the jacket and the front facings
 - length of slide fastener on size 30 to be 32 cm
 - length of slide fastener of size 32 and larger to be 34 cm

Each front shall:

- ♦ consist of two body panels
 - body panel seam shall extend from the midpoint of the shoulder seam, over the bust prominence to the bottom hem
 - panel seam to be pressed open
- ♦ have a cut-away front bottom edge
 - the finished length of the cut-away points shall be 19 cm
 - the distance between the bottom edges of the cut-away points shall be 80 mm
- ♦ have a slanted side pocket
- ♦ be constructed in such a way that the shoulder seam shall be of finished length 13,5 cm on jackets of size 40, and graded proportionally on smaller and larger sizes
- ♦ have a shaped side seam and a slightly shaped bottom hem
- ♦ have a facing and be fully lined with lining

9.2 Front neckline

Front neckline to:

- ♦ be rounded with a cut-away “V” at centre front
 - the finished length of the cut-away “V” shall be 12 cm on jackets of size 40 and graded proportionally on smaller and larger sizes
 - the distance between the top edges of the cut-away points shall be 45 mm

9.3 Pockets

Pockets to be:

- ♦ side pockets with a slanted pocket mouth
- ♦ of outer material
- ♦ lined with lining
- ♦ such that the mouth opening shall be stay-stitched to prevent the lining from protruding beyond the mouth opening (no stitches visible on outside)
- ♦ laid on top of the side panels and sewn in with the side seam
- ♦ bar-tacked at the mouth ends
- ♦ such that the width shall correspond with the width of the side panel
- ♦ such that the dimensions of the pockets shall be as given in figure 4

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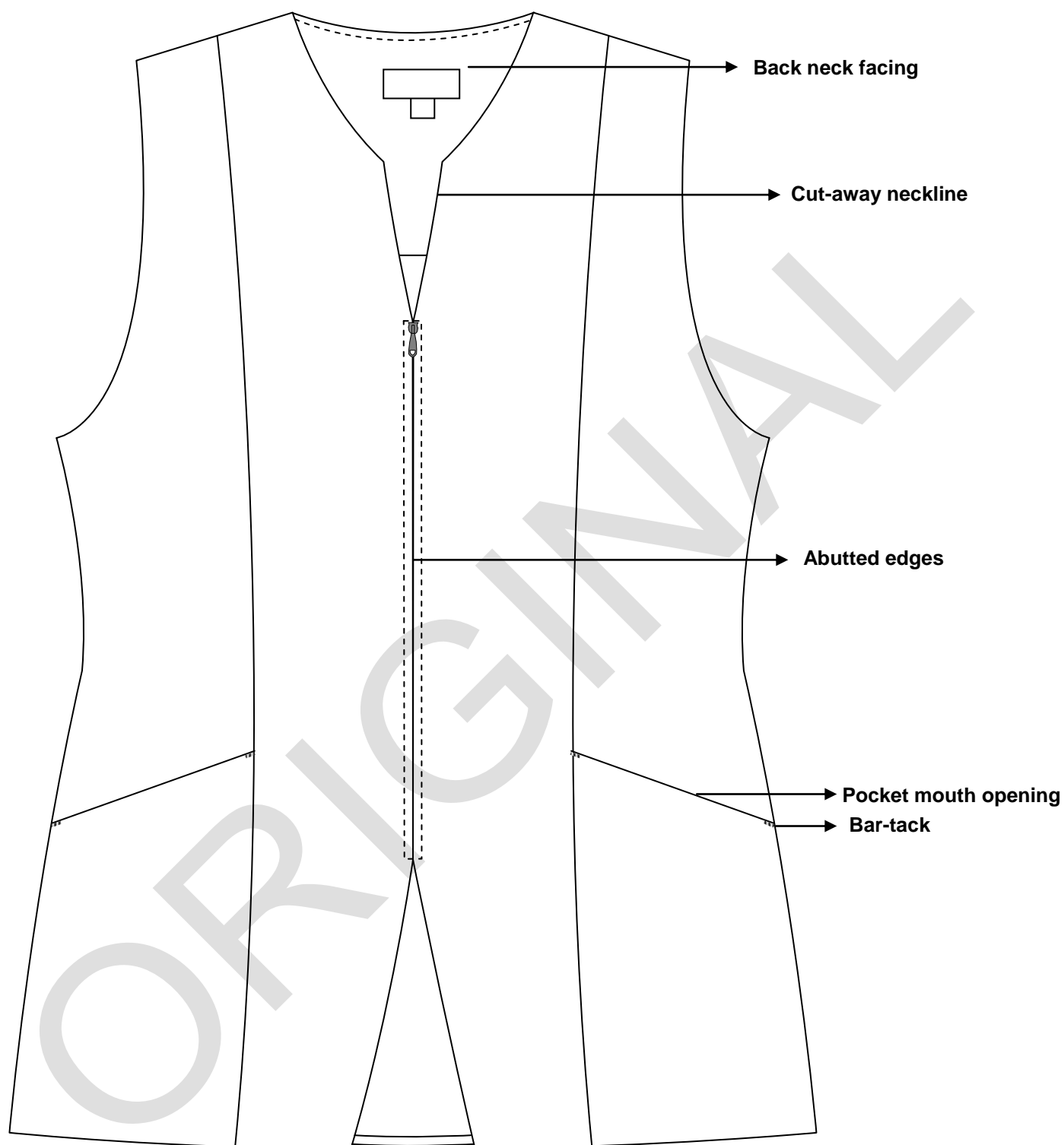


Figure 2 – Fronts

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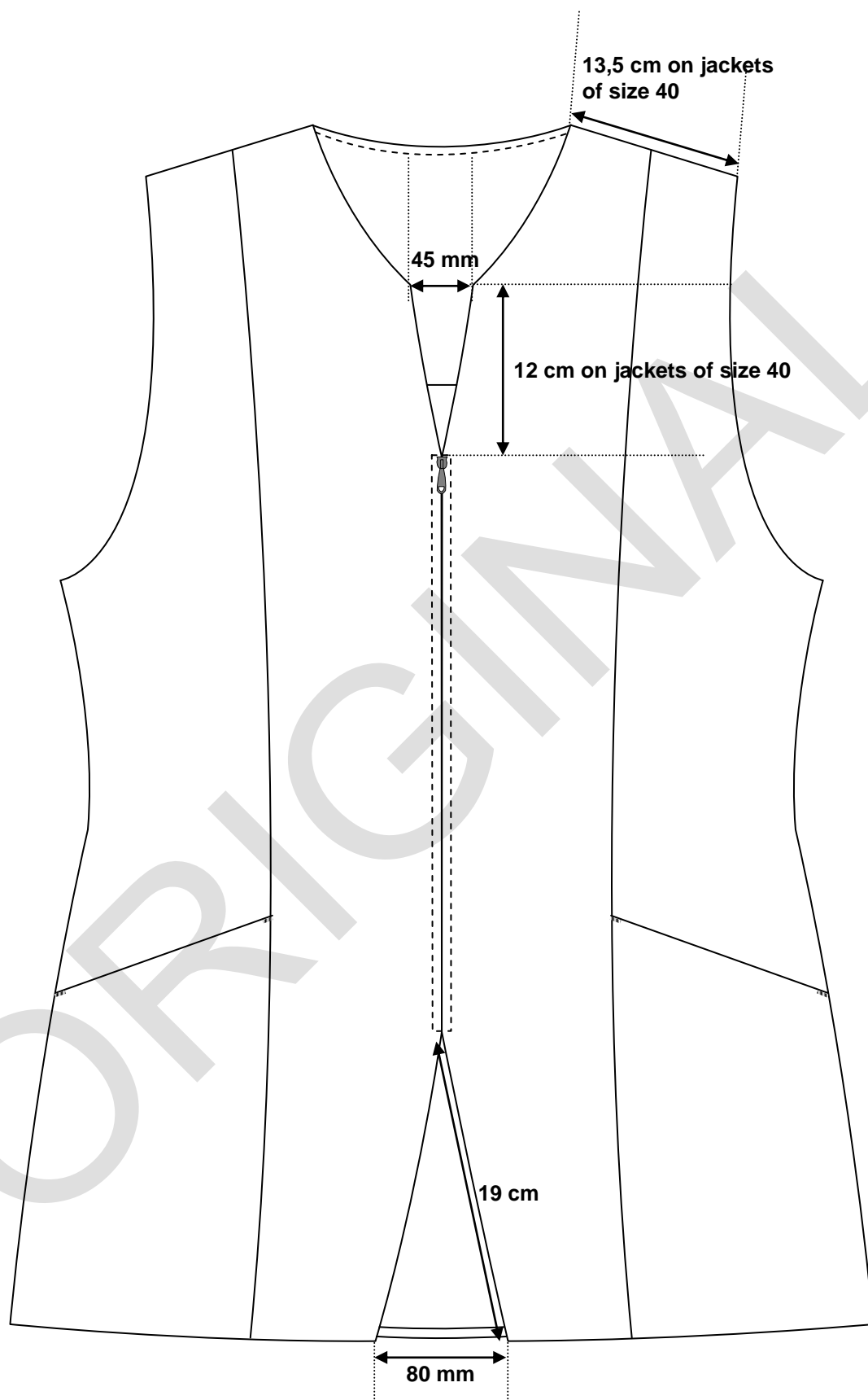


Figure 3 – Fronts: Dimensions

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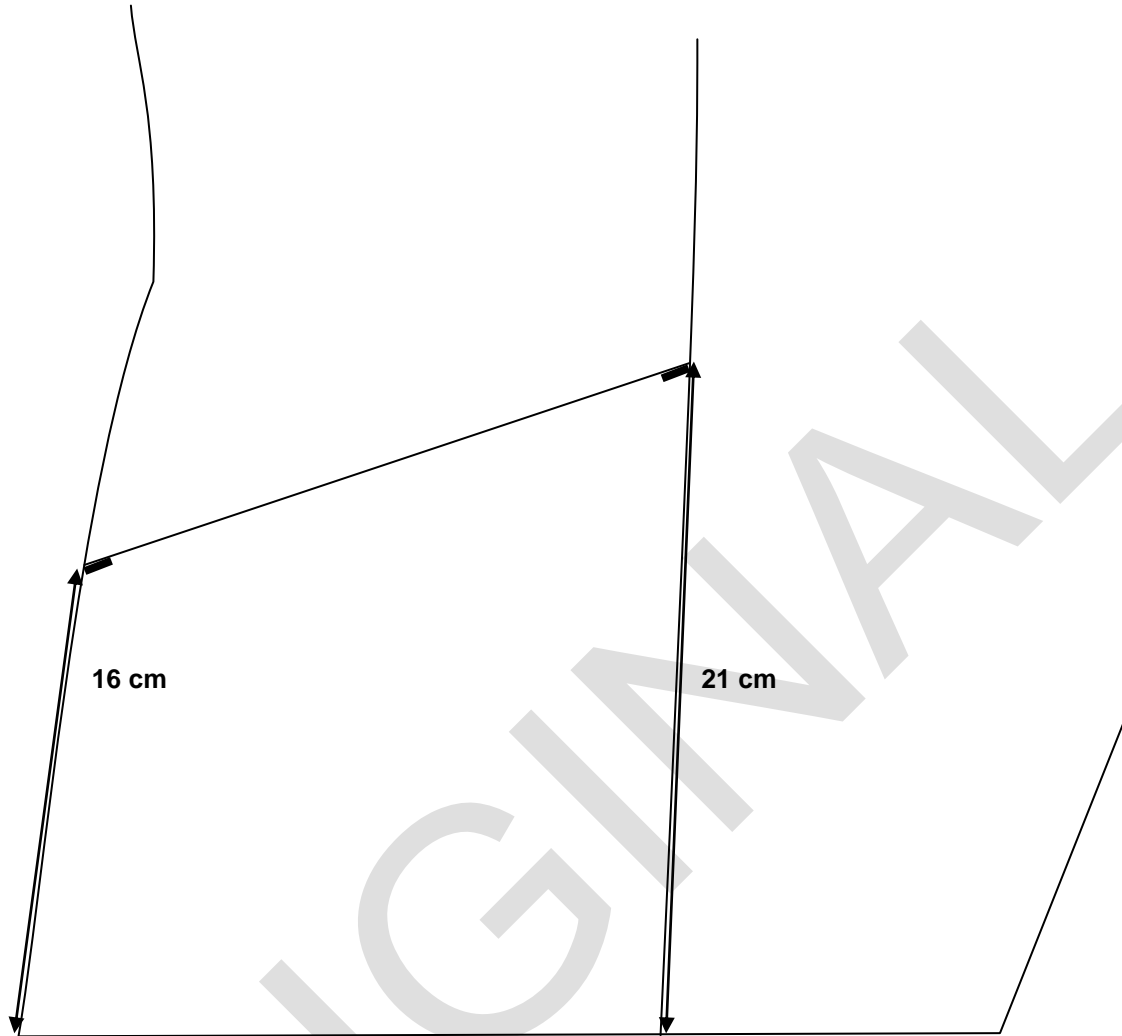


Figure 4 – Pocket dimensions

9.4 Facings and lining

9.4.1 All facings shall:

- ◆ be of outer material
- ◆ interlined with interlining
- ◆ be stay-stitched along the free edges (stitching on inside of garment to ensure that the facings lie flat without having any stitches visible on the outside)
- ◆ be sewn to the lining

The front facing shall:

- ◆ conform to the shape and size of the front panel
- ◆ be shaped
- ◆ be boxed at the front bottom edges

The armhole facings shall:

- ◆ conform to the shape of the armhole
- ◆ of finished width 30 mm

The back neck facings shall:

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- ◆ have square bottom corners
- ◆ conform to the width of the centre back panel
- ◆ be of finished depth 16 cm

9.4.2 Lining shall:

- ◆ conform to the shape of the jacket
- ◆ sewn to the facings
 - seams shall be smooth and without undue fullness
- ◆ form a 10 mm pleat along the bottom hem

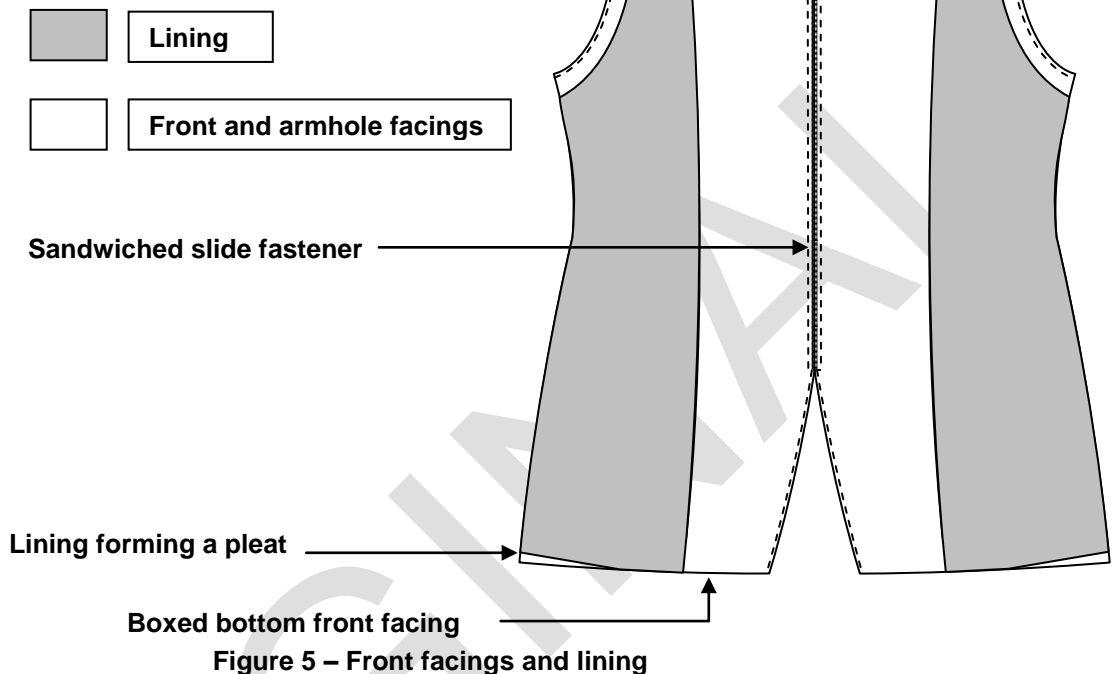


Figure 5 – Front facings and lining

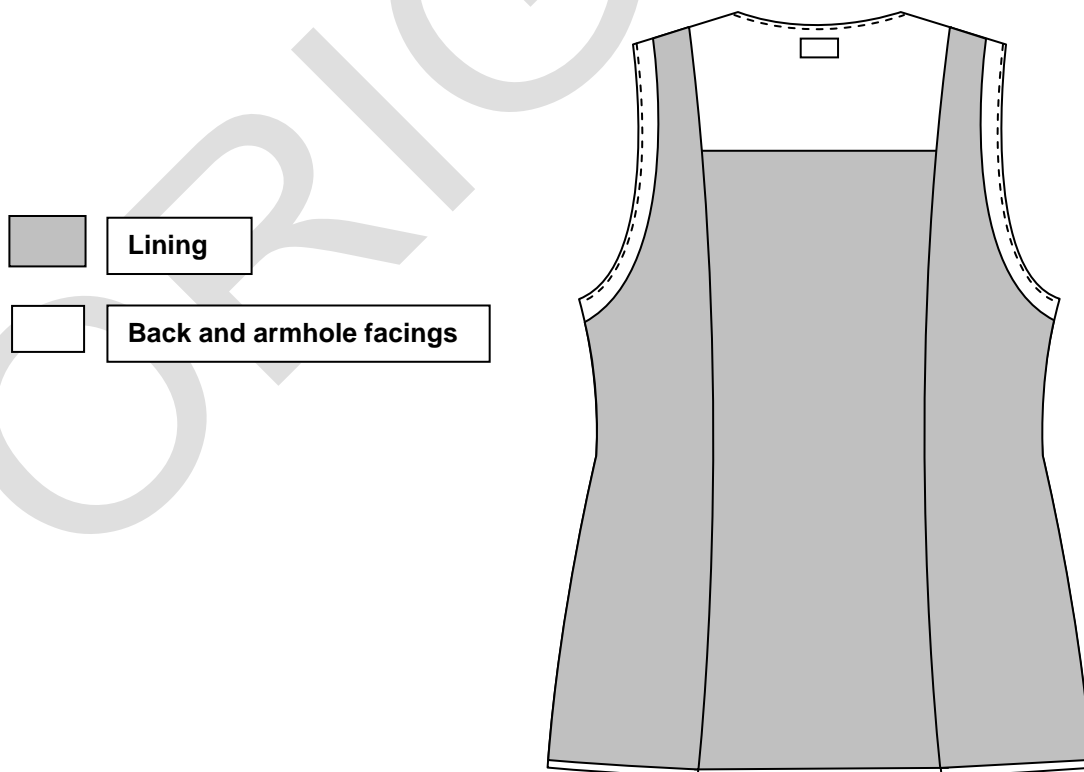


Figure 6 – Back facings and lining

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9.5 Back

Back to:

- ♦ be of outer material
- ♦ consist of three panels
 - to have two side panels
 - to have a centre back panel
 - panel seams to extend from the midpoint of the shoulder seam to the bottom edge of the waistcoat
 - seams to be pressed open
- ♦ be such that the bottom hem is slightly shaped
- ♦ have shaped side seams
- ♦ be such that the back neck drop is 20 mm
- ♦ be such that the back neck opening shall be of finished width 18 cm on service jackets of size 40 and graded proportionally on smaller and larger sizes
- ♦ fully lined

NOTE: The shoulder seam shall be positioned on the natural shoulder line.



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10. Stitches, Seams and Stitchings

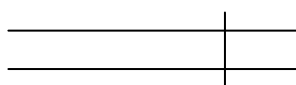
10.1 Stitches

All stitches: single needle lock stitch

10.2 Seams

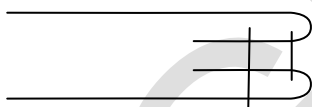
Seams to be at least 10 mm wide (unless otherwise stated):

Main seams: seam type SSa and pressed open



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

Attachment of facings: seam type SSe-2 (amended)



Form seam Type SSa-1, using two plies of material. Then turn back each ply at the seam and seam the seam allowance of the top layer together with the turned back bottom layer (no stitches visible on outside).

Attachment of slide fastener: seam type SSq-2



Form seam Type SSa-1, using three or more plies of material. Then turn each outer ply back at the seam and seam with the appropriate number of rows of stitches.

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"

all seams and stay-stitches: 40 ± 4 per 10 cm

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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 3:

Table 3 – 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 the back neck lining
- ♦ 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)



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

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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 month and year 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

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:

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- ♦ 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 only 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.

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 SABS Standards Division*.

ASTM D737-96, *Standard Test method for air permeability of textile fabrics.*

CKS 129, *Colours for textiles.*

CKS 627, *Fusible interlinings.*

ISO 3175-2, *Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments -- Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene.*

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

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

SANS 82, *Width of a textile fabric in a piece or roll.*

SANS 105-B02/ISO 105-B02, *Textiles – Tests for colour fastness – Part B02: Colour fastness to artificial light: Xenon arc fading lamp.*

SANS 105-C10/ISO 105-C10, *Textiles - Tests for colour fastness Part C10: Colour fastness to washing with soap or soap and soda.*

SANS 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 105-X12, *Textiles - Tests for colour fastness Part X12: Colour fastness to rubbing.*

SANS 960, *Textiles - Dimensional stability during washing and drying procedures.*

SANS 1309, *Printed labels for textiles.*

SANS 1362, *Sewing threads.*

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

SANS 1822, *Slide fasteners.*

SANS 1833-1, *Textiles - Quantitative chemical analysis Part 1: General principles of testing.*

SANS 1833-4, *Textiles - Quantitative chemical analysis Part 4: Mixtures of certain protein and certain other fibres (method using hypochlorite).*

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

SANS 5726, *Seaming properties of woven textile fabrics.*

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

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

SANS 10011, *Care-labelling of textile piece-goods, textile articles and clothing.*

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.*

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

SANS 10371, *Terms and definitions for clothing.*

SANS 11108, *Washing pretreatment of textile fabrics.*

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

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ANNEX A

(Normative)

Special conditions of tender

A-1 GENERAL

A-1.1 Unless otherwise stated, the South African Bureau of Standards 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 SABS⁵. All applications must be submitted in writing.

A-1.2 Three pre-production sample jackets in different sizes, 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. 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 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

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

A-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.

A-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. Order Number, quantity, etc

⁵ **SABS Inspection Authority: (Tel) 012 4287371;**

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ANNEX B
(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.

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 tenderer.
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 tender submission.

HISTORY SHEET				
DOC ISSUE	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
1	January 2010	First release		
2	April 2014	New fabric New size chart Delete embroidery Delete strip at bottom hem Panel line to extend from shoulder to bottom hem Add ref to YKK quality zips and length of zips		

Doc No	Item No	Date	Version	Page	No of pages
SAA 2010	CL05	April 2014	02.0	22	22