

PRIVATE SPECIFICATION

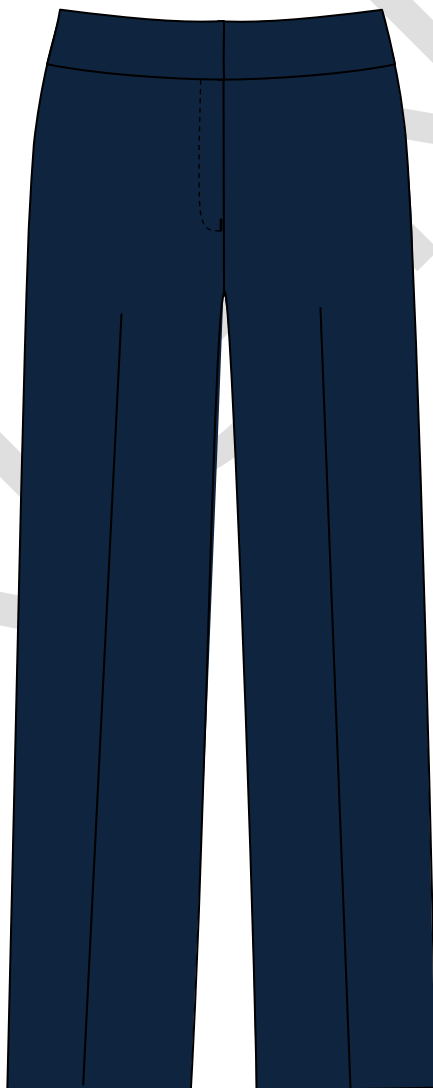
Prepared for the



SOUTH AFRICAN AIRWAYS

A STAR ALLIANCE MEMBER 

FLIGHT DECK CREW, WOMEN, SLACKS



Item Number: FL41

Document Number: SAA 025

Version 03.0/September 2015

1. Scope

This specification¹ covers the material, design, cut and make of slacks for female personnel of the South African Airways flight deck 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 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:

- ♦ front slide fastener fly
- ♦ plain fronts
- ♦ plain bottoms
- ♦ separate waistband
 - shaped
 - to fasten with hooks and bars
 - on size 42 and larger, the back waistband shall be fitted with elasticated side sections

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.

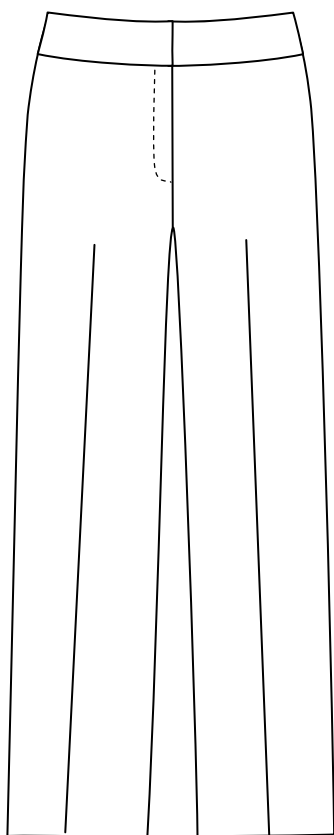


Figure 1 – Front

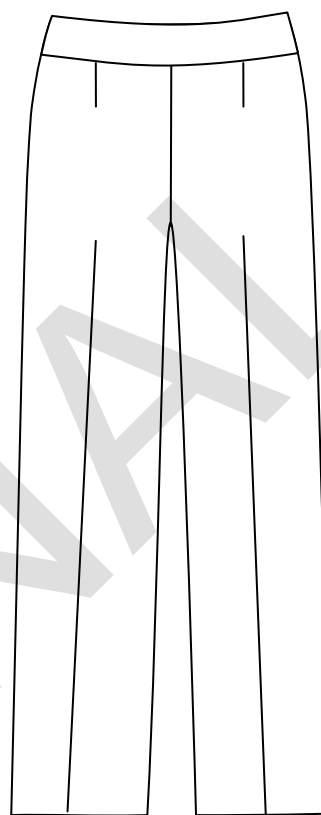


Figure 2 (a) – Back (size 40 and smaller)

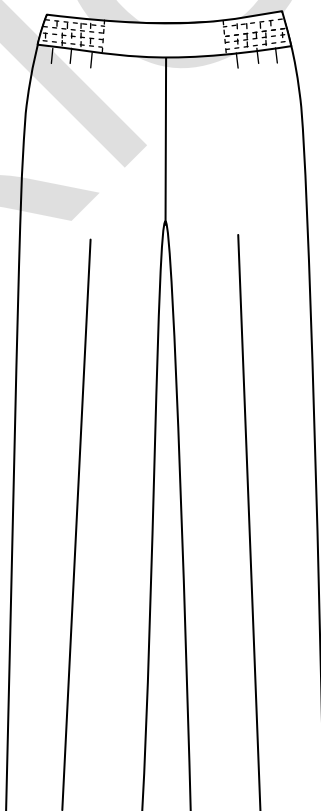


Figure 2 (b) – Back (size 42 and larger)

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5. Client Furnished Materials

No materials will 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 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. 543c-2014 "SAA Dark Navy (suiting)" of CKS 129 "Colours for textiles"

6.2 Interlining

- ♦ an acceptable fusible woven or non-woven interlining
- ♦ to comply with the requirements of CKS 627 "Fusible interlinings"
- ♦ interlining to be so bonded to the outer material that the bonded material:
 - has a uniform finish
 - is free from perforations, untreated areas and other imperfections (e.g. blisters and ripples)
- ♦ to be able to withstand the same washing and drying procedures as specified for the outer material

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

The client reserves the right to change the type of interlining used during pre-production, should the appearance of the finished garments be unsatisfactory.

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Table 1 – Outer material requirements

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

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6.3 Slide fasteners

- ♦ one-way closed-end
- ♦ synthetic spiral with lock
- ♦ a typical example of a suitable product is supplied by YKK²
- ♦ comply with relevant requirements of class A slide fasteners of SANS 1822 “Slide fasteners”
- ♦ colour to be an acceptable match to the colour of the outer material

6.4 Tape

- ♦ acceptable woven tape
- ♦ of finished width 6 mm – 8 mm
- ♦ colour to be an acceptable match to the colour of the outer material (or black)

6.5 Hooks and bars

- ♦ metal with a smooth finish
- ♦ intrinsically corrosion resistant
- ♦ bar to be of nominal length 13 mm

6.6 Elastic webbing

- ♦ to comply with the requirements for type 1 of SANS 142 “Narrow elastic fabrics and strip”
- ♦ of nominal width 50 mm

6.7 Binding tape

- ♦ acceptable pre-shrunk woven bias binding
- ♦ colour to be an acceptable match to the colour of the outer material (or black)
- ♦ of nominal finished width 7 mm (after attachment)

6.8 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, ticket No 80

Overlocking thread:

- ♦ crimp-textured polyester **OR** crimp-textured polyamide, ticket No 120 **OR** Ticket 140

² 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 slacks 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

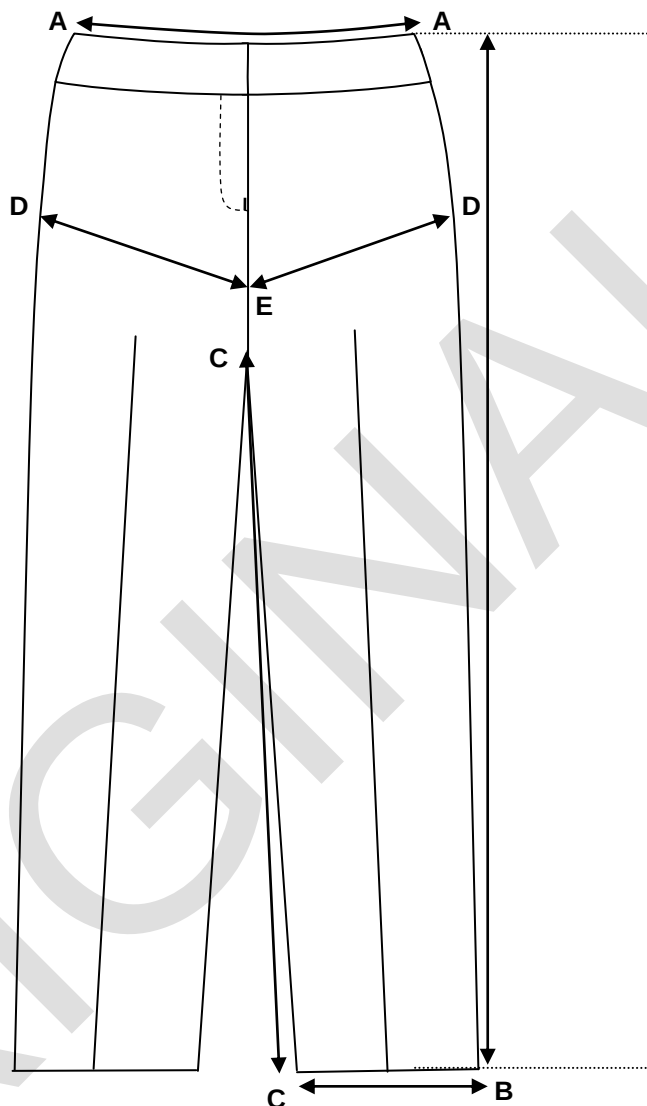
Points not defined in the specification that requires assessing at inspection:

- ♦ Place the slacks on a dummy and check the following points:
 - Is the front and back balance correct?
 - Is the shaping of the crotch correct?
 - Is the appearance neat and clean?
 - Is the hip curve correct?
 - Is the shaping of the waistband correct?
 - Is the waistband ruched evenly (where relevant)

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8. Sizes and dimensions

Slacks measurements:



MEASURING POINT		DESCRIPTION
A – A	Waist circumference (size 40 and smaller)	Measure across at the curve of the top edge of the waistband and multiply by two.
A – A	Waist circumference (size 42 and larger)	Measure across at the top edge of the waistband, with waistband relaxed and multiply by two. Ruching shall be marginal.
C – C	Inside leg length	Measure from the crotch seam to the bottom edge of the leg.
A – B	Outside leg length	Measure from the top edge of the waistband to the bottom edge of the leg.
D – E – D	Hip circumference	Measure across the widest part of the hip, approximately 18 cm – 20 cm (depending on the size) below the top edge of waistband at both side seams and at centre front. Mark these three points, measure in a V-formation and multiply by two.
C – B	Bottom hem circumference	Measure across the width at the bottom edge of the garment and multiply by two.

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Table 2 — Size range

NOTE: In addition to the measurements below, the dimensions as given in figure 3 – applicable to size 38 – shall also be taken in consideration

1	2	3	4	5	6
Size Designation	Nominal finished garment measurement in cm				
	Circumference			Inleg	Outleg
	Hip	Waist ¹ relaxed	Bottom hem		
28	90	68	44	84	106
30	92.5	70.5	45	84	107
32	95	73	46	84	108
34	100	78	47	84	109
36	105	83	48	84	110
38	110	88	49	84	111
40	115	93	50	84	112
42*	121	99	51	84	113
44	127	105	52	84	115
46	133	111	53	84	116
48	139	117	54	84	117
50	145	123	55	84	118
52	151	129	56	84	119
¹ Waistband to fit below the natural waist. *From size 42 and larger the waist measurement may differ slightly since it shall incorporate elasticated size sections which shall be as agreed upon between SAA and the supplier					

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:

- ♦ have a fly opening
 - laps right over left
- ♦ fasten with a slide fastener
 - on size 38 the fly (measured from below the waistband to the bottom edge of the fly-stitching) shall be of finished length 10.5 cm and graded on the relevant larger sizes to ensure that slacks can be easily pulled over the hips
- ♦ be plain

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- ♦ front rise to be of finished length 28 cm on size 38 and graded proportionally on the other sizes (measured from the top edge of the waistband, along the curve of the centre front seam to the fork seam)
- ♦ cut in such a way that the slacks shall have a straight leg – NOT BOOTLEG

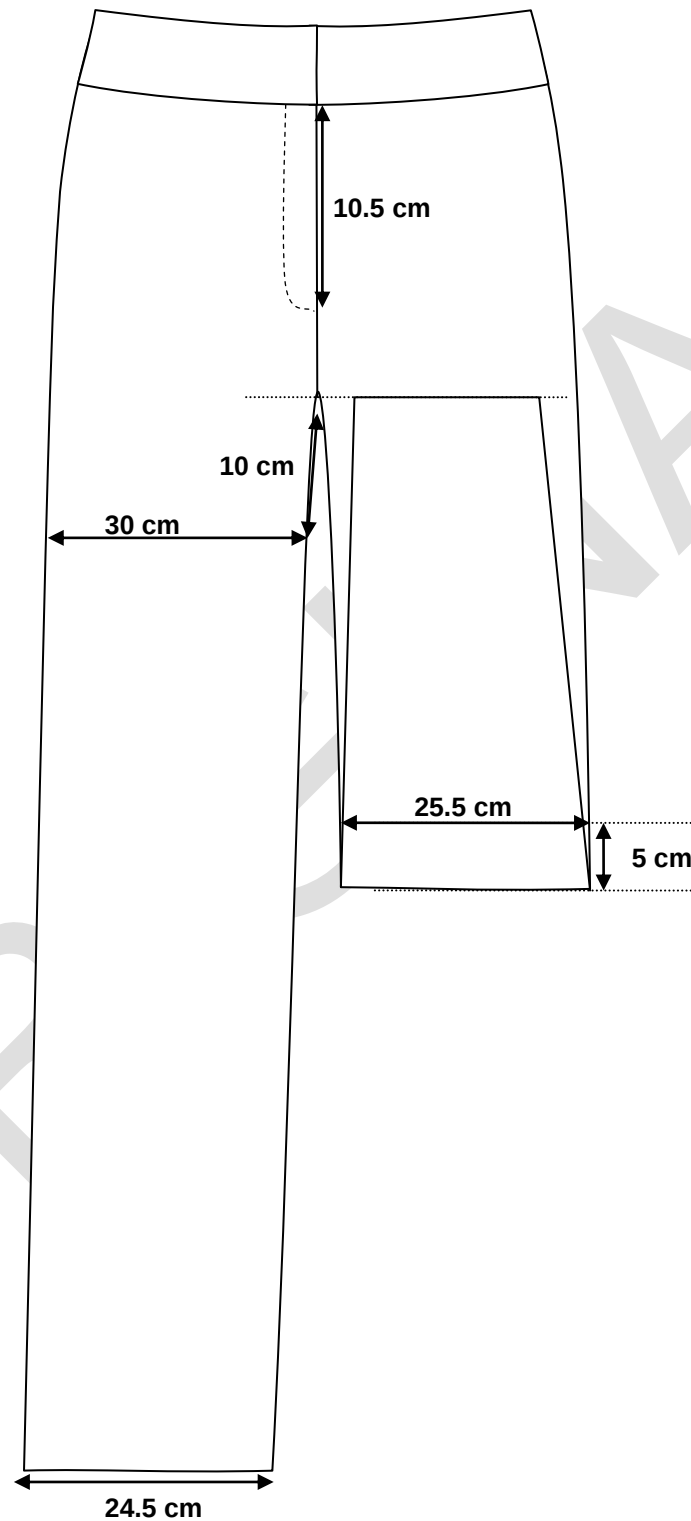


Figure 3 – Additional dimensions on size 38, which shall be graded on the other sizes

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9.2 Fly

The fly to be:

- ♦ lined with outer material
- ♦ interlined with interlining
- ♦ of width 40 mm
- ♦ sewn down 30 mm from the front edge
- ♦ fitted with a slide fastener
- ♦ overlocked along the inside edges
- ♦ vertically bar-tacked at the bottom of the fly
- ♦ to be stay-stitched

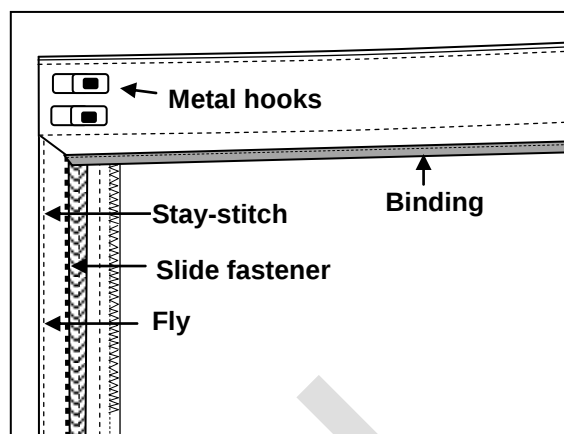


Figure 4 – Right inside view

9.3 Fly-catch

The fly-catch to:

- ♦ be of folded outer material
- ♦ be of finished width 40 mm (measured from the front-to-fly-catch seam to free edge of fly-catch)
- ♦ be interlined with interlining
- ♦ overlocked along the raw edges

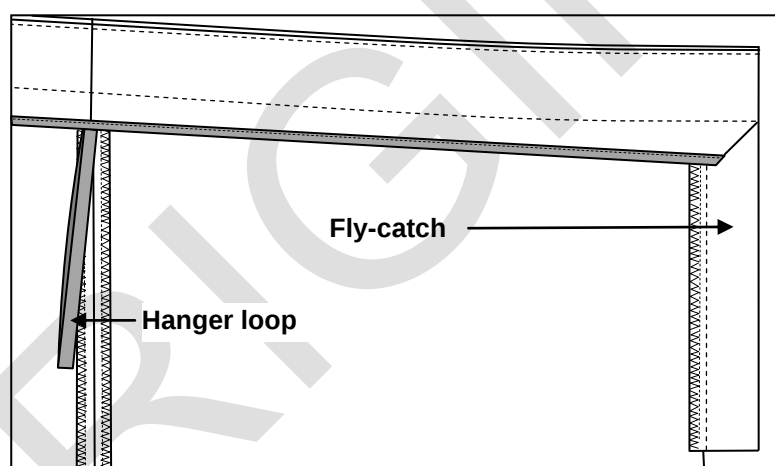


Figure 5 – Right inside view

9.4 Back

Each back panel to:

- ♦ have a dart
 - of such length as to ensure a proper fit
 - on slacks with an elasticated waistband (size 42 and larger), the back dart may be omitted if proper fit can be achieved without the dart
- ♦ back rise to be of finished length 38 cm on size 38 and graded proportionally on the other sizes (measured from the top edge of the waistband, along the curve of the centre back seam to the fork seam)

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9.5 Waistband

9.5.1 General:

- ♦ lined with outer material
- ♦ shaped
- ♦ lining to be bound with binding along the bottom edge
- ♦ front edges to be boxed
- ♦ of finished width 50 mm

Right front section to be:

- ♦ fitted with two hooks on the inside of the waistband
 - properly secured
 - positioned one below the other
 - positioned in such a way that it shall hook on centre front
 - in a corresponding position to the bars on the left front

Left front section to be:

- ♦ fitted with two bars on the outside of the waistband
 - properly secured
 - positioned one below the other
 - positioned on centre front

9.5.2 Plain waistband (size 40 and smaller)

- ♦ cut in three sections, i.e. two front and one back (note: no centre back seam)
- ♦ be interlined with interlining (front and back sections)

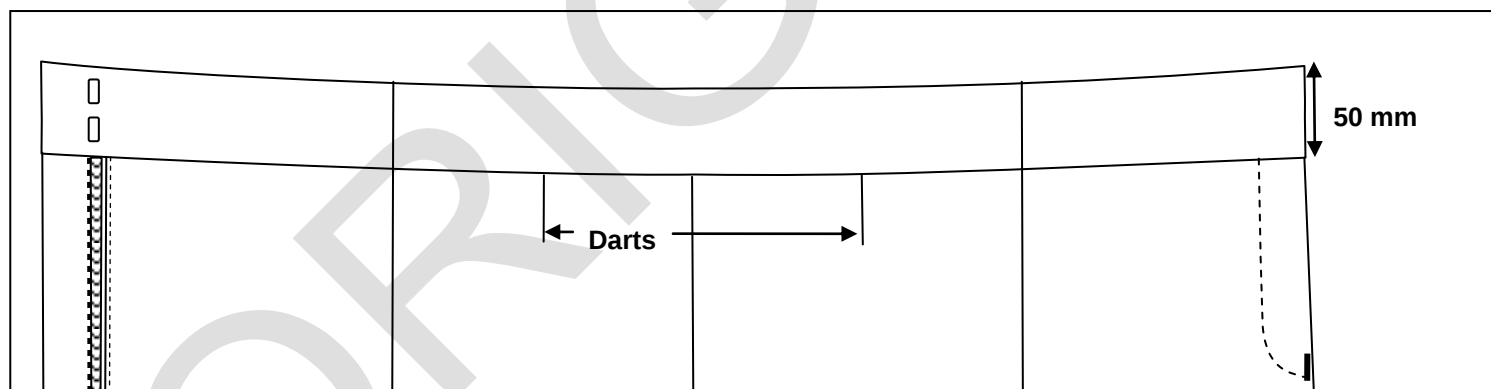


Figure 6 – Outer view of waistband on size 40 and smaller

9.5.3 Elasticated waistband (size 42 and larger)

- ♦ cut in three sections, i.e two front and one back section OR alternatively cut in five sections, i.e. two front, one centre back and two side sections
- ♦ side back sections shall be fitted with elastic webbing and ruched with four rows of stitching
 - elastic to extend from the side seam to the natural back dart position
 - ruching shall not be excessive, but still provide comfort
- ♦ if waistband is cut in five sections, the side sections shall extend from the side seam to a point in line with the natural back waist dart position
- ♦ be interlined with interlining (only sections that are not fitted with elastic webbing)

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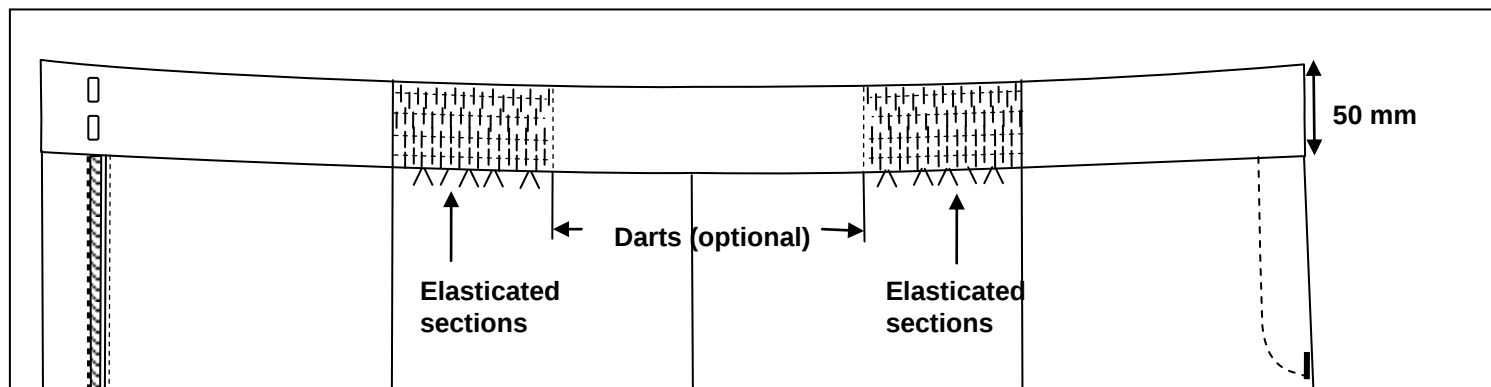


Figure 7 – Outer view of waistband on size 42 and larger

9.7 Hanger loops

- ♦ to be of tape
- ♦ to be secured in the side seams of the waistband lining, approximately 20 mm below the top edge of the waistband
- ♦ to be of finished length 100 mm (after being folded double)

9.8 Bottoms

- ♦ plain
- ♦ raw edges to be overlocked
- ♦ folded in 50 mm
- ♦ blind-felled

9.9 Spare button

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

10. Stitches, Seams and Stitchings

10.1 Stitches

main seaming: single needle lock stitch

overlocking: three-thread overlocking stitch

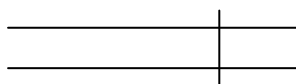
hem: blind stitches

other stitches: single needle lock stitch

10.2 Seams

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

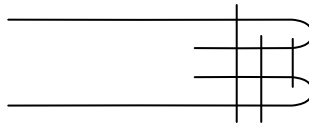
Side seams, inside leg and seat seam: seam type SSa followed by EFd and pressed open



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

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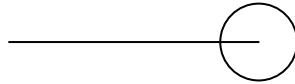
Top edge of waistband-to-lining seam: seam type SSe-3



Form seam Type SSa-1, using two plies of material. Then turn back one ply at the seam and staystitch. Turn the other ply at the seam and seam through all layers of the turned edges with the appropriate number of rows of stitches.

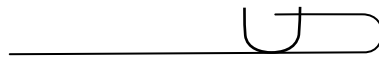
10.3 Stitchings

Exposed raw edges and free edges: stitching type EFd-1



Stitch over the edge of a ply of material with one row of stitches.

Bottom hem: stitching type EFI-1



Fold back the edge of a ply of material and so stitch with one row of stitches that the stitches overedge the edge, the needle only partially penetrates the body material, and the stitches do not show on the outer surface of the material.

10.4 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 top-stitching: 42 ± 2 per 10 cm

overlocking: 32 ± 4 per 10 cm

buttonholes: 12 ± 1 per 1 cm

button: 12 ± 1 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 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.	

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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 bottom edge of the waistband lining 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)



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 on the inside
- ♦ 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

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- ♦ 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 slacks 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 Slacks:

- ♦ 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

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- ◆ 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, slacks, 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 the South African Bureau of Standards³.

CKS 129, *Colours for textiles.*

CKS 627, *Fusible interlinings.*

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 142, *Narrow elastic fabrics and strip.*

SANS 979, *Textile products - Permanent mothproofing.*

SANS 1362, *Sewing threads.*

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

SANS 1822, *Slide fasteners.*

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

SANS 5580 (SABS SM 580), *Pesticides: Biological evaluation of mothproof textiles containing wool.*

SANS 5582 (SABS SM 582), *Pesticides: Biological evaluation of dry-cleaning-durability properties of mothproof textiles containing wool.*

³ **SABS: Tel. +27 (0) 12 4287911**
www.sabs.co.za

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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 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 woolen and worsted piece-goods.*

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.*

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ANNEX A

(Normative)

Special conditions of tender

A-1 GENERAL

A-1.1 The procurement authority (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.

A-1.2 Three pre-production sample slacks in different size designations (ONE HAS TO BE SIZE 38), 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 slacks 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 slacks supplied to this specification may be in progress

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

A-1.5 Before acceptance, the slacks 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 slacks, 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

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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.

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 fabric supplier:

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 South African Airways and the successful tenderer.
2. The fabric and embroidery thread 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				
VERSION	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
001	Ma7 2007	First release		
002	December 2011			
003	September 2015	Change complete style as per new sample Change sizing Add elasticated waist on bigger sizes Omit flammability requirement of outer material		

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