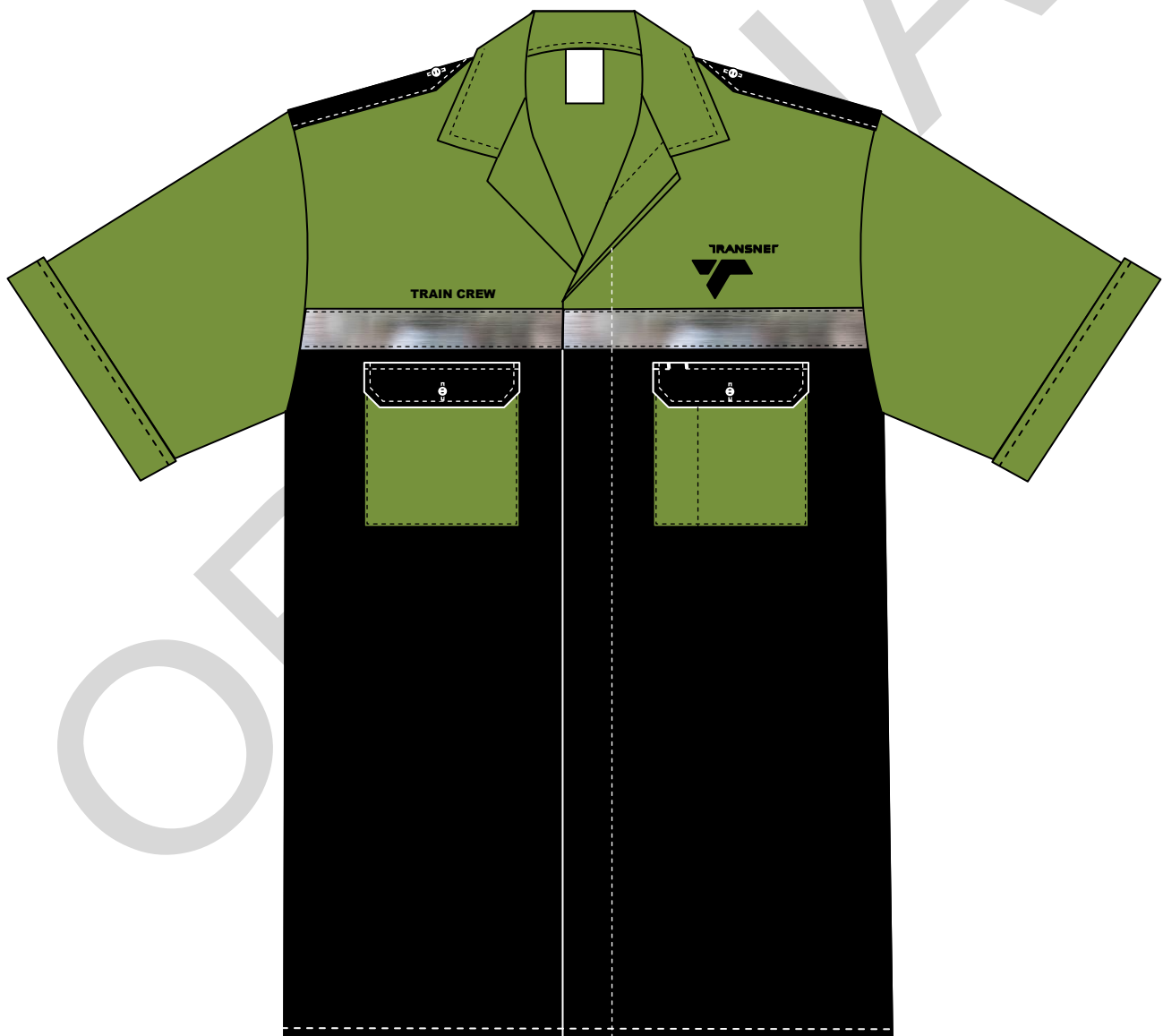


PRIVATE SPECIFICATION

prepared for



SHIRTS, OPEN-NECK, SHORT SLEEVES



CSS 286.21 G159

Version 01.0

June 2012

1. Scope

This specification covers the material and make of short sleeved shirts for personnel of Transnet Limited.

ITEM NUMBER: 35163317

2. Definitions

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 Transnet Limited

Nominal: Subject to the tolerances normal to good manufacturing practice

SANS: South African National Standard

3. Style

- ♦ open neck
- ♦ front button opening with concealed button and buttonhole fastening
- ♦ foreparts to have a horizontal yoke seam that shall be covered with a strip of reflective tape
- ♦ each forepart shall consist of two contrasting colours
- ♦ left and right front yokes to be fitted with embroidery
- ♦ back panels to have a horizontal yoke seam that shall be covered with a strip of reflective tape
- ♦ each back shall consist of two contrasting colours
- ♦ one-piece collar
- ♦ one-piece short sleeves with mock cuffs
- ♦ shoulder straps that fasten with buttons and buttonholes

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4. Illustrations

Illustrations are not to scale and are for guidance only.

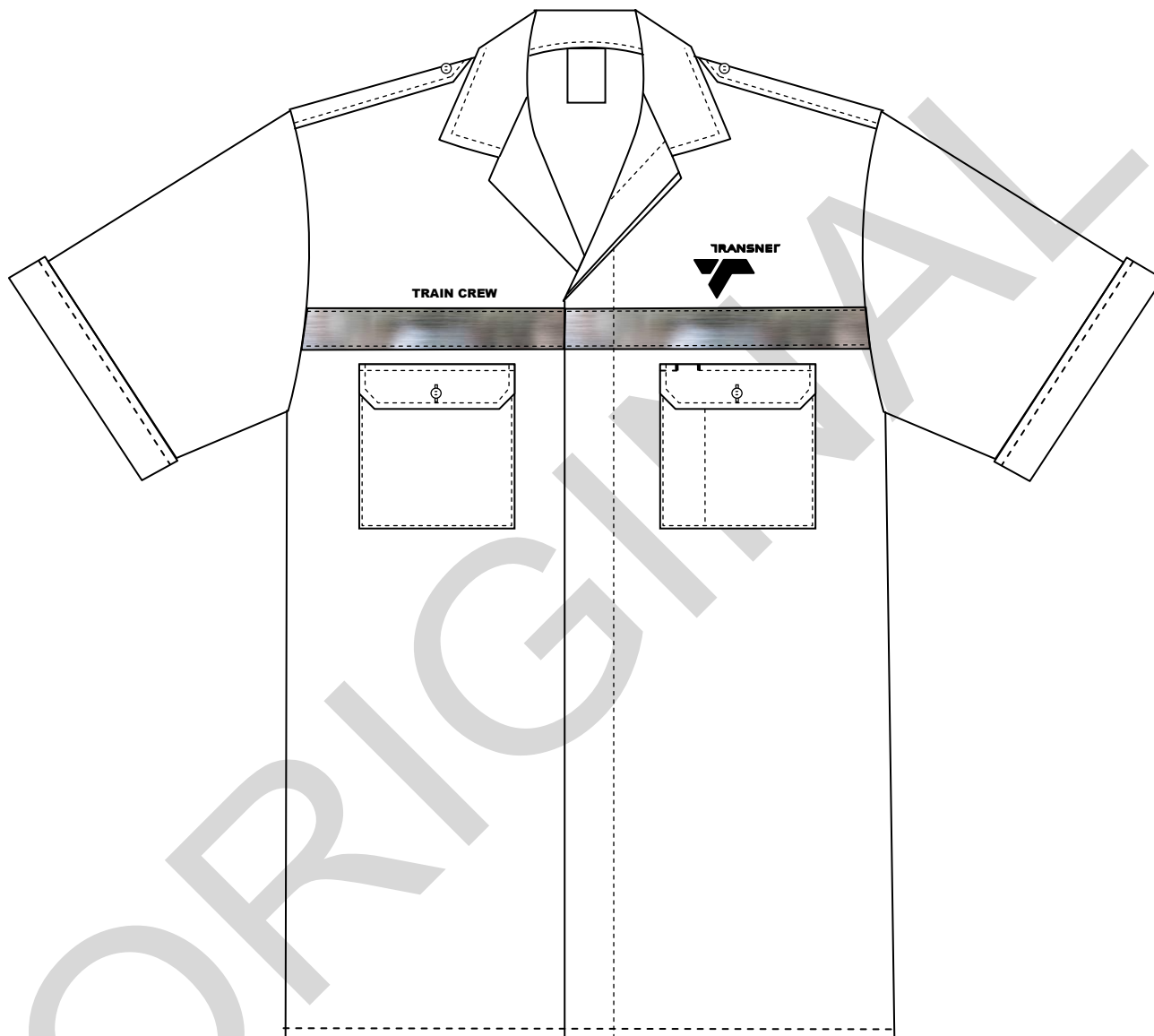


Figure 1 - Front

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Figure 2 - Back

5. Client furnished Materials

No materials will be supplied by the Transnet Limited.

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).

6.1 Outer material

- ♦ to be an acceptable 2/1 twill Poly/Cotton fabric
- ♦ of nominal mass 200 g/m² when tested in accordance with SANS 79

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- ◆ fibre composition to be 65% Polyester and 35% Cotton when tested in accordance with SANS 1833-1 and 1833-11
- ◆ resistance to pilling, colour fastness, dimensional stability requirements to comply with the relevant requirements as given in SANS 1387 -2
- ◆ finish to be such that it shall have a soft handle and shall be as agreed upon between the purchaser and supplier
 - colour 1: an acceptable black colour as agreed upon between the purchaser and supplier
 - colour 2: to be an acceptable match to Pantone Colour No. 376 “Olive green”

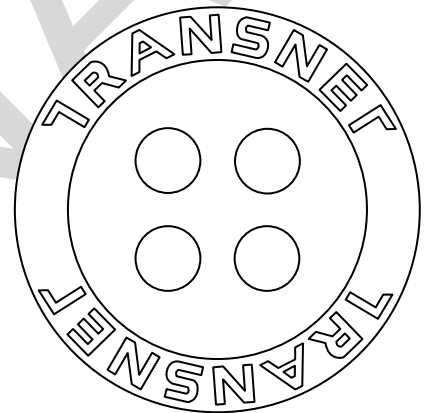
6.2 Interlining

- ◆ acceptable fusible interlining
- ◆ complying with the requirements of CKS 627 “Fusible interlinings”
- ◆ colour to be black or charcoal

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

6.3 Buttons

- ◆ four-hole polyester
- ◆ nominal diameter of 12 mm
- ◆ to comply with the requirements of SANS 1457 “Plastics buttons”
- ◆ dope-dyed
- ◆ fully impregnated
- ◆ to have the Transnet logo engraved on the outer edges
- ◆ colour to be black



6.4 Reflective tape

- ◆ a high visibility reflective silver tape
- ◆ nominal width 37 mm – 40 mm
- ◆ retro-reflective properties to comply with the relevant requirements for a class 2 retro-reflective material of SANS 50471 “High visibility warning clothing for professional use – test methods and requirements”

6.5 Embroidery thread

- ◆ an acceptable 100% Viscose machine embroidery thread
- ◆ colour to be black

6.6 Sewing thread

- ◆ colour to be an acceptable match to the colour with which it is used

Sewing and top-stitching thread:

- ◆ polyester-and-cotton core-spun or staple polyester, ticket No 80

Overlocking thread:

- ◆ crimp-textured polyamide or crimp-textured polyester, ticket No 120

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7. Workmanship

The shirts shall be:

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

Shall be free from:

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

Seams and stitches shall be:

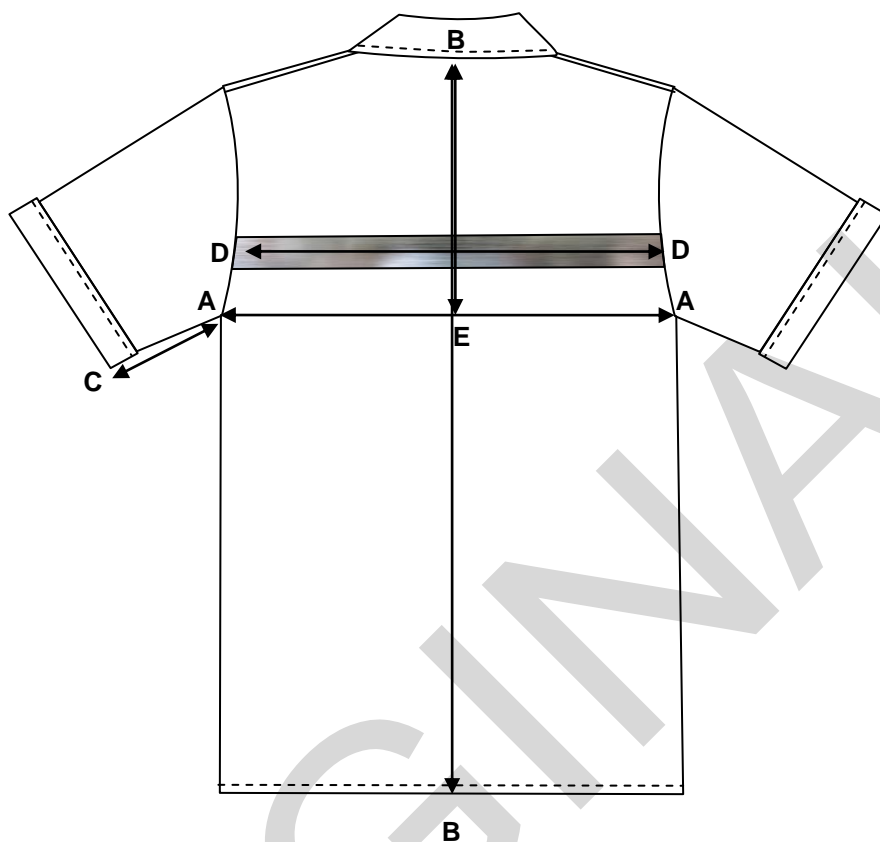
- ◆ smooth and uniform
- ◆ free from twists, peats and puckers
- ◆ sufficiently extensible to avoid seam cracking and undue shrinkage in use

Ends of sewing shall be:

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

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8. Sizes



Measuring point		Description
A – A	Chest Circumference	Measure at the base of the scye, with garment spread completely flat, buttons fastened, and multiply by two.
B – B	Back length	Measure from the centre back neck seam to the bottom edge of the garment.
A – C	Sleeve length	Measure from the base of the scye to the outer edge of the cuff.
D – D	Back width	Measure across the centre of the reflective strip, from one sleeve insertion seam to the other (i.e. the back yoke seam, as reflective strip is centrally positioned over back yoke seam).
B – E	Depth of scye	Measure from the centre back neck seam to the level of the base of the scye.

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Table 1 - Size chart

1	2	3	4	5	6
Size Designation	Nominal finished garment measurements, cm				
	Chest	Back length	Sleeve length	Back width	Depth of scye
2X-Small 62-71	85	75	11	41	25
X-Small 72-81	95	77	12	43	27
Small 82-91	105	79	13	45	28
Medium 92-101	115	81	14	47	29
Large 102-111	125	83	15	49	30
X-Large 112-121	135	85	16	51	31
2X-Large 122-131	145	87	17	53	32
1) Based on the chest circumference, in centimetres, of the intended wearer.					

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Table 1 - Size chart (continued)

1	2	3	4	5	6
Size Designation	Nominal finished garment measurements, cm				
	Chest	Back length	Sleeve length	Back width	Depth of scye
3X-Large 132-141	155	89	18	55	33
4X-Large 142-151	165	91	19	57	34
5X-Large 152-161	175	93	20	59	35
Special Measurement					
1) Based on the chest circumference, in centimetres, of the intended wearer.					

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9. Make

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

9.1 Foreparts

9.1.1 General:

- ♦ be single breasted
- ♦ fasten with buttons and buttonholes that shall be concealed
- ♦ be cut with straight side seams
- ♦ have straight bottom hems
- ♦ have an open-neck

9.1.2 Forepart panels

Each forepart to:

- ♦ consist of two sections
 - yoke
 - body section
- ♦ be fitted with a strip of reflective tape along the yoke-to-body seam
- ♦ be constructed in such a way that it shall have a lapel step of finished length 25 mm
- ♦ be fitted with a breast pocket and flap

9.2 Front yoke sections

9.2.1 General:

- ♦ of finished length 24 cm when measured from the neck point (seam) to the top edge of the yoke on size designation Medium and graded proportionally on the other sizes
- ♦ of finished length 14 cm when measured along the front edge from the top edge of the lapel to the top edge of the yoke seam on size designation Medium and graded proportionally on the other sizes
- ♦ made from “Olive Green” outer material (See 6.1)
- ♦ have a cut-on facing
- ♦ fitted with a length of reflective tape
 - outer cut edges to be sewn in with the sleeve insertion seam
 - front cut edge to follow the facing to the inside of the shirt (applicable to right front yoke)
 - front cut edge to follow the fly to the inside of the shirt (applicable to left front yoke)
 - attached by means of 2 mm edge-stitchings along the top and bottom edges of the tape
 - positioned in such a way that the bottom edge of the tape shall extend to approximately 3 mm below the yoke-to-body seams

9.2.2 Right front yoke:

- ♦ to be fitted with embroidery
 - the words “TRAIN CREW” to be embroidered with embroidery thread
 - colour of embroidery thread to be black
 - word to be in capital letters
 - length of word to be 65 mm
 - height of letters to be 6 mm
 - positioned in such a way that the two words shall be centred in the distance between the centre front and the sleeve insertion seam
 - positioned with the bottom edge of the words, 10 mm above the top edge of the reflective tape

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9.2.3 Left front yoke:

- ♦ to be fitted with embroidery
 - the registered Transnet Logo to be embroidered with embroidery thread
 - colour of embroidery thread to be black
 - dimensions to be as given in figure 3
 - positioned in such a way that the logo is centred in the distance between the centre front and the sleeve insertion seam
 - positioned with the bottom edge of the logo, 10 mm above the top edge of the reflective tape

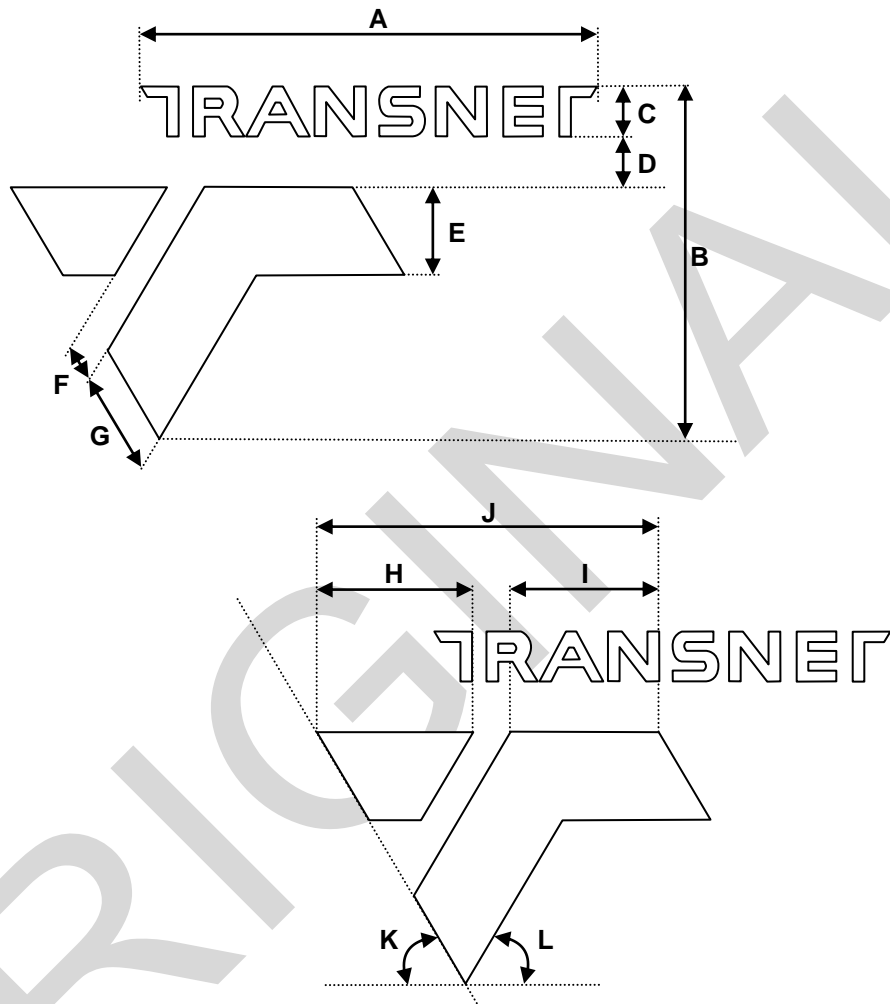


Figure 3 – Dimensions of Transnet logo

Figure No	Item	A	B	C	D	E	F	G
3		37 mm	32 mm	6 mm	6 mm	8 mm	2 mm	8 mm
	Item	H	I	J	K	L	-	-
		12 mm	12 mm	25 mm	60°	60°	-	-

9.3 Front body sections

- ♦ made from “Black” outer material” (see 6.1)
- ♦ have a cut-on facing
- ♦ to be fitted with a patch breast pocket

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9.4 Front opening

9.4.1 Right front opening (see figure 4)

- ♦ to be fitted with five properly secured buttons in corresponding positions to the buttonholes on the left front
- ♦ to be finished by means of a facing
 - facing to be of finished width 30 mm at the shoulder seam
 - facing to be shaped, to be minimum 95 mm wide (when measured horizontally from the lapel step point to the outer edge of the facing), 70 mm at the yoke-to-body seam and 50 mm at the bottom hem
 - facing to be folded to the inside and left loose (not stitched down)
 - facing to be overlocked along the cut edges
 - facing to be fitted with an additional spare button close to the hem of the shirt

9.4.2 Left front opening (see figure 4)

- ♦ constructed in such a way that it shall incorporate a fly, concealed buttonhole stand and a facing that shall be sewn down 38 mm from the left front edge
- ♦ incorporated facing to be as follows
 - facing to be of finished width 30 mm at the shoulder seam
 - facing to be shaped, to be minimum 95 mm wide (when measured horizontally from the lapel step point to the outer edge of the facing), 70 mm at the yoke-to-body seam and 50 mm at the bottom hem
 - facing to be folded to the inside
 - facing to be overlocked along the cut edges
- ♦ buttonhole stand
 - of finished width 35 mm
 - fitted with five vertical buttonholes
 - buttonholes to be neatly made
 - shirt type buttonholes
 - buttonholes to be barred at each end
 - of such length as to neatly accommodate the buttons
 - top buttonhole to be positioned at the breakpoint of the lapel
 - buttonholes spaced at 8 – 10 cm intervals, depending on the size (should the gaps between the buttonholes become more than 10 cm, an additional buttonhole and button shall be added)
 - buttonholes to be positioned 15 mm from the front edge of the buttonhole stand (see figure 5)

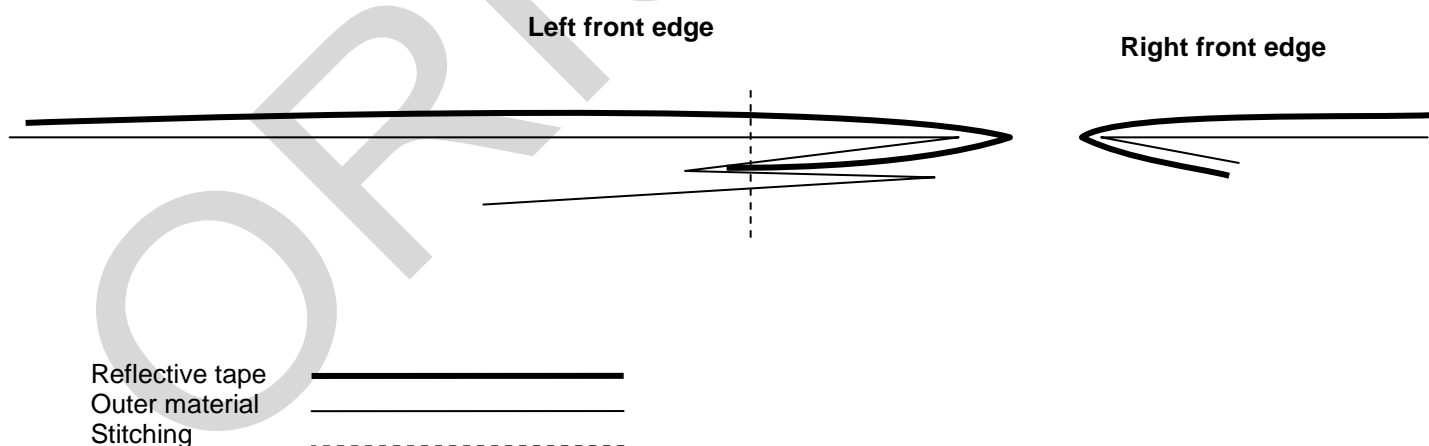


Figure 4 - Construction of front openings

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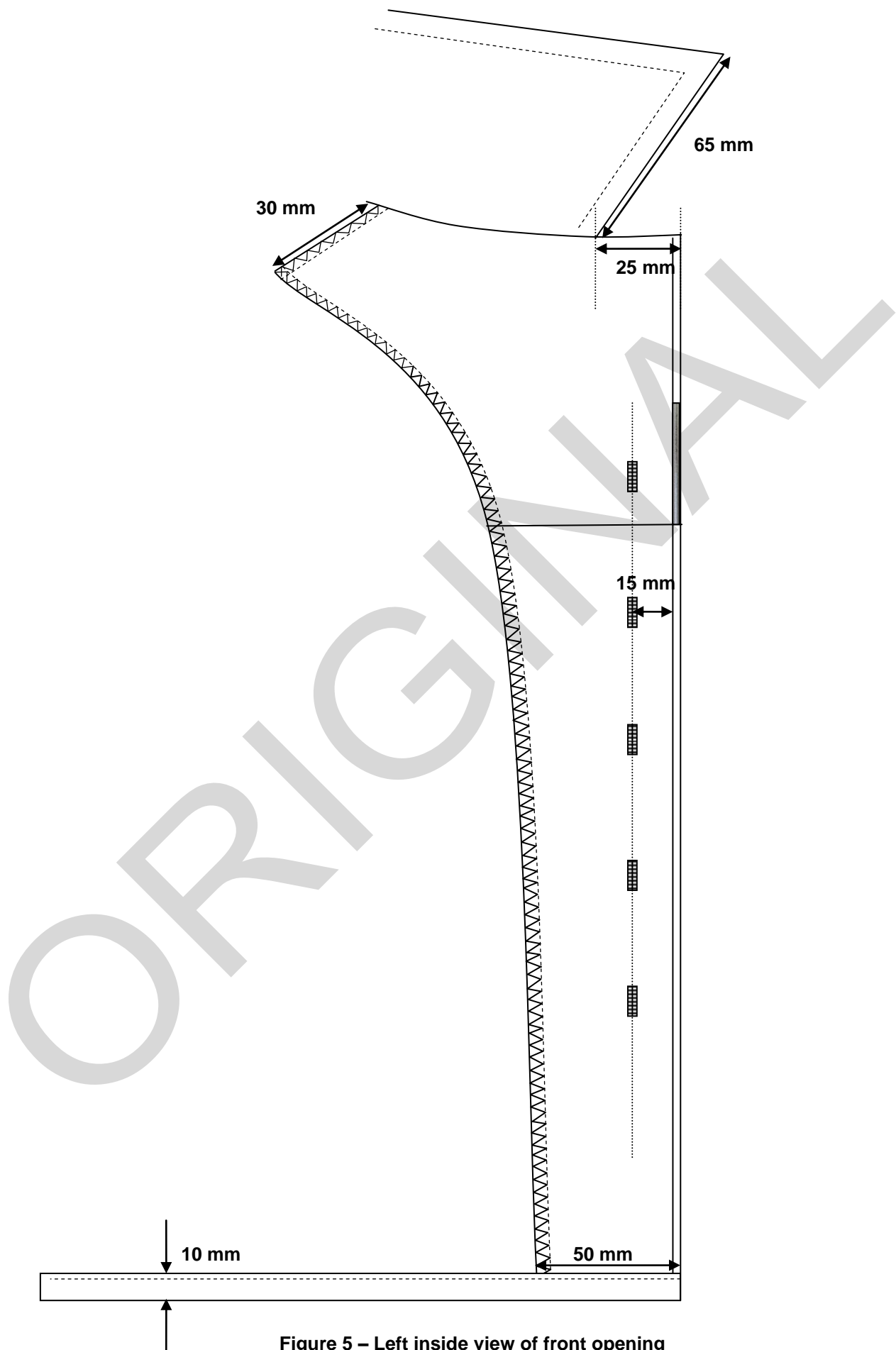


Figure 5 – Left inside view of front opening

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9.5 Back

- ♦ consist of two sections
 - yoke
 - body section
- ♦ be fitted with a strip of reflective tape along the yoke-to-body seam
 - centrally positioned over the yoke-to-body seam
 - attached by means of a 2 mm edge-stitching along the top and bottom edges
 - cut edges to be sewn in with the sleeve insertion seams

9.5.1 The back yoke

- ♦ to be a single yoke made from “Olive green” outer material
- ♦ cut in such a way that the shoulder seam shall be positioned 10 mm forward of the natural shoulder line
- ♦ fitted with a button at the shoulder area in a corresponding position to the buttonhole in the shoulder strap
- ♦ of finished depth 24 cm, measured from the centre back collar seam to the bottom yoke seam, on size designation Medium and graded proportionally on the other sizes

9.5.2 Body section

- ♦ made from “Black” outer material

9.6 Pockets

Pockets to be:

- ♦ made from “Olive Green” outer material
- ♦ patch pockets
- ♦ positioned on the left and right front chest area
- ♦ positioned with the front edges parallel to the front edges of the shirt
- ♦ of dimensions as given in table 2
- ♦ positioned with the front edge of the pocket 75 mm from CENTRE FRONT on size designation Medium and graded proportionally on the other sizes

Pockets to have:

- ♦ square corners
- ♦ flaps

Pocket mouth hems to be:

- ♦ of finished depth 25 mm
- ♦ secured with bar-tacks at the outer edges
- ♦ fitted with a button in a corresponding position to the buttonhole in the pocket flap

Side and bottom edges to be:

- ♦ turned in 10 mm and stitched down 2 from the turned in edges

Left patch pocket to:

- ♦ have a pen compartment, which shall be constructed by a vertical stitching along the front edge of the pocket
- ♦ pen compartment to be of nominal finished width 25 mm

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Table 2 – Pocket dimensions

1	2	3
Size designation	Width	Depth
2X-Small to Medium	12,5 cm	14 cm
Large to 5 X-Large	13,5 cm	15 cm

9.7 Pocket flaps

Pocket flaps to be:

- ◆ made from “Black” outer material and lined with “Black” outer material
- ◆ interlined with interlining
- ◆ such that it shall have blunted corners of finished length 20 mm
- ◆ of finished depth 40 mm (measured in the centre)
- ◆ of finished depth 25 mm (measured at the side edges)
- ◆ be such that it shall extend 3 mm beyond each edge of the pocket
- ◆ centrally positioned above the pocket
- ◆ edge-stitched 7 mm along the free edges
- ◆ fitted with a buttonhole
 - shirt type buttonhole
 - neatly made and barred
 - vertical
 - centrally positioned in the width of the flap
 - positioned 10 mm above the bottom free edge of the flap
- ◆ positioned with the top edge of the flap 7 mm below the bottom edge of the reflective tape
- ◆ positioned in such a way that there shall be a 10 mm gap between the pocket mouth opening and the flap
 - pocket flap positioned above pocket, stitched down 5 mm from the raw edge
 - turned over
 - stitched down 7 mm from the turned over edge
- ◆ left pocket flap to make provision for a pen slot that shall be in line with the pen compartment in the left pocket
- ◆ outer edges of opening to be bar-tacked

9.8 Collar

- ◆ a one-piece, open-neck collar
- ◆ to be made from “Olive green” outer material
- ◆ lined with “Olive Green” outer material
- ◆ interlined with interlining and wadding
- ◆ constructed in such a way that the:
 - collar shall be of finished depth 70 mm at the centre back
 - collar shall be of finished depth 65 mm at the points
- ◆ edge-stitched 7 mm along the free edges

NOTE: Collar to be attached to the neck opening in such a way that it shall result in having lapel steps of finished length 25 mm.

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9.9 Sleeves

- ♦ to be made from “Olive green” outer material
- ♦ one-piece type sleeves
- ♦ set in sleeves
- ♦ to have mock cuffs of finished depth 30 mm
- ♦ edge-stitched 6 mm

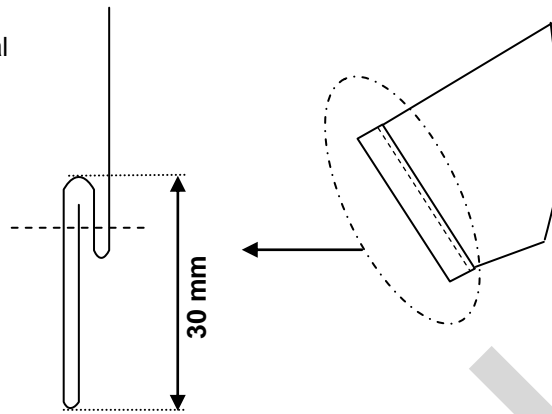


Figure 6 – Mock cuff

9.10 Shoulder straps

- ♦ made from “Black” outer material and lined with “Black” outer material
- ♦ interlined with interlining
- ♦ have a mitred point
- ♦ top stitched 6 mm around the free edges
- ♦ mitre to be of finished length 10 mm
- ♦ of minimum length 12 cm (measured to base of mitre to sleeve insertion seam)
- ♦ of finished width 50 mm at the sleeve end tapering to 40 mm at the base of the mitre
- ♦ wide end of the strap sewn in with the sleeve-to-shoulder seam
- ♦ positioned in such a way that the centre line of the shoulder strap shall be centrally positioned over the shoulder seam
- ♦ to fasten 25 mm from the collar seam
- ♦ fitted with a buttonhole
 - positioned at the base of the mitre
 - neatly made
 - barred on both edges
 - shirt type buttonholes
 - of such length as to neatly accommodate the buttonhole in the shoulder

NOTE: The shoulder seam shall be positioned 10 mm forward of the natural shoulder line.

9.10 Bottom hem

- ♦ to be a rolled hem and of width 10 mm

10. Stitches, seams and stitching

10.1 Stitches

Sewing: lock stitch or safety stitch

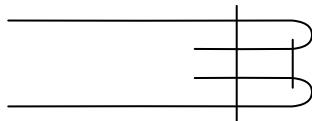
Overlocking stitch: three of four thread overlocking stitch

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10.2 Seams

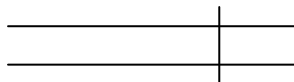
Seams to be least 7 mm wide (unless otherwise stated)

Free edges of collar, pocket flaps and shoulder straps: seam type SSe-2



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

Main seams: seam type SSa-1



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

Attaching the pocket flaps: seam type LSS-2



So superimpose two plies of material that their edges are the specified distance apart, and seam with one row of stitches at the specified distance from the edge of the top ply. Then turn the top ply back at the seam and seam with one row of stitches through the top and bottom plies.

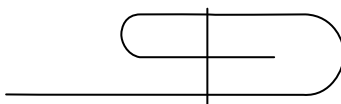
Attaching the reflective tape: Seam type SSau-2



Superimpose a strip on a ply of material and seam with the appropriate number of rows of stitches.

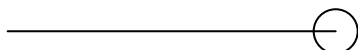
10.3 Stitchings

Bottom hem and pocket mouth hems: stitching type EFb



Turn in the specified width at the edge of a ply of material, fold back the turned edge, and stitch the turned-in and folded portion with the appropriate number of rows of stitches.

All exposed raw edges: stitching type EFd



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

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10.4 Number of stitches

seaming and top stitching: 40 ± 4 per 10 cm

overlocking: 36 ± 4 per 10 cm

bar tracks: 12 ± 1 per 1 cm

11. Care-labelling and marking

11.1 Label properties

All labels shall:

- ♦ be white woven rayon labels that are 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
- ♦ be such that they outlast the garments (including the markings)

11.2 Care-labelling

- ♦ each garment shall have a label that provides correct and appropriate care instructions (in words and symbols, in accordance with SANS10011 "Care-labelling of textile piece-goods, textile articles and clothing")
- ♦ each label to include the composition of the main fabric in accordance with the requirements of SANS 10235 "Fibre-content labelling of textiles and textile products"

11.3 Marking

- ♦ Each shirt shall have, sewn in with the centre back collar seam on the inside, a label that provides the following information:
 - the word "TRANSNET"
 - the manufacturer's name or trade mark or both
 - the item number
 - the size designation
 - the spec number
 - the fibre composition of the body fabric
 - the country of origin
 - the year of manufacture
 - the VAT number of the contractor

TRANSNET
Manufacturer's name
ITEM NO:
35/000000
SIZE: LARGE
Spec No: CSS 286.21 G159
65% Polyester/ 35 % Cotton
MADE IN SOUTH AFRICA
2012
VAT No: 4679312

Figure 7 – Example of information on label

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12. Packaging and marking of packaging

12.1 Packing

12.1.1 The shirt shall be:

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

12.1.2 Shirt:

- ♦ 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 Envelopes

To be as specified in CSS 286.21 LAB/1.

12.2.2 Bulk containers

To be as specified in CSS 286.21 PAC/1.

12.3 Additional marking

When so required by the Transnet, shirts, 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 Standards South Africa*.

CKS 627, *Fusible interlinings*.

CSS 286.21 LAB/1, *Labelling*.

CSS 286.21 PAC/1, *Packaging*.

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

* Standards South Africa: Tel. +27 (0) 12 4287911

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SANS 1309, *Printed labels for textiles.*

SANS 1362, *Sewing threads.*

SANS 1387-2, *Woven cotton and similar apparel fabrics – Part 2: Polyester-and-cotton workwear fabrics.*

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

SANS 1833-11/ISO 1833-11, *Textiles – Quantitative chemical analysis – Part 11: Mixtures of cellulose and polyester fibres (method using sulphuric acid).*

SANS 5278, *Sewing stitches per unit length.*

SANS 50471, *High visibility warning clothing for professional use – test methods and requirements.*

SANS 10011, *Care-labelling of textiles and clothing.*

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

SANS 10371, *Terms and definitions for clothing.*

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ANNEX A

(Normative)

Special conditions of tender

A-1 GENERAL

- A-1.1** Unless otherwise stated, Transnet (or an organization deputed by it), shall be the inspecting authority.
- A-1.2** Three pre-production sample shirts, 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 section 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 shirts 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 shirts supplied to this specification may be in progress
- A-1.4** The contractor shall inspect the finished shirts for compliance with the specification before submitting them to the inspecting authority for final inspection.
- A-1.5** Before acceptance, the shirts 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 shirts, 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 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 and/or a reel of embroidery thread 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 Transnet 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 and embroidery thread shall be incorporated in the relevant tender submission.

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HISTORY SHEET				
Version	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
1.0	June 2012	First release		

ORIGINAL

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