

PRIVATE SPECIFICATION

Prepared for the



SOUTH AFRICAN AIRWAYS

A STAR ALLIANCE MEMBER 

FLIGHT DECK CREW, LARGE CANVAS CARRY-ON BAG



Item Number: CO116
Document Number: SAA935
Version 02.0/April 2014

1. Scope

This specification covers the material and make of large carry-on canvas bags for Flight Deck Crew of the South African Airways.

NOTE: Each bag shall carry a 5-year warranty (see section 12).

2. Definitions and Abbreviations

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

Acceptable:	Acceptable to the South African Airways
Nominal:	Subject to the tolerances normal to good manufacturing practice
SANS:	South African National Standard
TSA:	Transportation Security Administration

3. Style

The style is as follows:

- ♦ rectangular
- ♦ double compartment type with front pocket (organizer)
- ♦ two webbing carry handles with patch that fastens with press studs
- ♦ detachable webbing shoulder sling with shoulder cushion
- ♦ supplied with 3 TSA approved combination locks
- ♦ all exterior slide fasteners to be lockable
- ♦ fitted with the SAA tail logo
- ♦ each bag shall make provision for the attachment of a name plaque
 - the bags shall be delivered with the name plaques securely riveted to the exterior
- ♦ base to be fitted with protector pads
- ♦ bottom edges of front and back panels to be fitted with protector strips
- ♦ back panel to be fitted with a tunnel strip to enable the telescopic handle of another piece of luggage to pass behind it

NOTE: The intended maximum weight of a fully packed bag shall not exceed 10 kg.

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	2 of 25

4. Digital images



NOTE: SAA tail emblem may be either a moulded badge (as seen on image above), or alternatively it may be embroidered directly onto the bag.

Figure 1 – Front view of typical bag



Figure 2 – Rear view of typical bag

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	3 of 25



Figure 3 – Bottom view of typical bag



Figure 4 – Top view of bag



Figure 5 – Side views of bag

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	4 of 25

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 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

- ♦ to comply with the requirements for type C245 of SANS 1585 “Coated fabrics for shelters and rainwear” with the following deviation: mass to be 210 g/m² (minimum)
- ♦ colour to be black

6.2 Woven lining fabric

- ♦ an acceptable woven polyester or nylon fabric
- ♦ have a minimum breaking strength of 520 N in both the warp and weft when tested in accordance with SANS 13934-1
- ♦ colour to be an acceptable grey colour (contrast colour to outer material)

6.3 Metal fittings

6.3.1 General

- ♦ to be of acceptable nickel plated metal (unless otherwise stated)
- ♦ thickness of electroplated coating to be 5µ m at any point
- ♦ to have a smooth finish and corrosion resistant



Figure 6 – Typical example of acceptable sliders

6.3.2 Sliders

- ♦ of such dimensions as to neatly accommodate Type B webbing as given in table 1
- ♦ to have an adjustable centre bar

6.3.3 D-rings

- ♦ acceptable 25 mm D-rings
- ♦ TO BE WELDED
- ♦ dimensions to be such as to neatly accommodate Type A webbing as given in table 1

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	5 of 25

6.3.4 Press studs

- ♦ heavy duty type press studs
- ♦ to consist of a cap, socket, stud and post
- ♦ nominal outside diameter of female section to be 15 mm
- ♦ male and female type

6.3.5 Swivel snap hooks

- ♦ quality to be such that it shall acceptably accommodate the weight of a fully packed bag (approximately 10 kg)
- ♦ of such dimensions as to neatly accommodate Type B webbing as given in table 1



Figure 7 – Typical example of a swivel snap hook (to serve as guideline)

6.3.6 Rivets

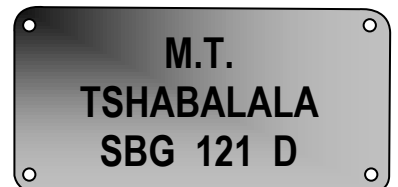
- ♦ acceptable double-headed rivets

6.3.7 Keyrings

- ♦ acceptable circular keyrings of nominal inside diameter to be 25 mm

6.3.8 Name plaque

- ♦ acceptable metal alloy with a matt appearance (NOT nickel plated)
- ♦ such that the engraved information is easy to read
- ♦ of nominal thickness 1, 2 mm
- ♦ rectangular with rounded corners
- ♦ engraved
 - to correspond with the information as given in paragraph 9.4
 - engraving shall be centrally positioned on the plaque
 - nominal depth of engraving shall be 0.5 mm
 - engraved letters and numbers shall be colour-filled with BLUE PAINT
 - the paint shall be confined to the engraved letters and numbers
 - the colour-filled sections shall be free from bubbles, spots, inclusions and cracks
- ♦ font type shall be: Trade Gothic (BOLD)
- ♦ letters to be equidistantly spaced
- ♦ the name plate shall contain the following information:
 - Initials and surname of the staff member
 - Pension number of staff member
- ♦ nominal outside diameter of plaque to be:
 - Length: 80 mm
 - Width: 40 mm



NOTE 1: If initials and surname are longer than the specified length of the plaque, the font size may be reduced AND/OR the initials may be positioned at the top, followed by the surname directly below.

NOTE 2: The Trade Gothic font family is available for purchase online. The successful bidder shall purchase a licensed copy of the relevant font.

NOTE 3: Attachment of name plate shall not affect the warranty in any way.

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	6 of 25

6.4 Webbing

- ◆ colour to be black
- ◆ selvages to be such that it cannot unravel during use
- ◆ to comply with the requirements as given in table 1

Table 1 – Webbing requirements

1	2		3
Property	Requirement		SANS number (unless otherwise indicated)
	Type		
	A	B	
Composition, %	All continuous filament polyester		AATCC 20
Weave	Pebble		Physical analysis
Selvedge	Lockstitch		
Width, mm.....	25 ± 1	38 ± 1	
Thickness, mm	0.95 ± 0.10	1.0 ± 0.10	85
Breaking strength, min. kN.....	8.0	12.0	13934-1
Mass per length, min.			5330
Kg/100 m.....	1900	2 800	
Number of weft threads per 10 cm	160 ± 2	165 ± 2	
Colourfastness to water, rating, min.			105-E01
Change in colour.....		4-5	
Staining		4-5	
Colourfastness to light, rating, min.		5-6	105-B02

6.5 Slide fasteners

- ◆ a typical example of suitable products are supplied by YKK¹
- ◆ exterior slide fasteners:
 - to comply with the requirements for Class E slide fasteners of SANS 1822 (Type 10 in commercial terms)
 - two-way closed end
 - pullers to match the colour of the other relevant metal fittings
 - stringers to be black
 - nylon coil, self-repairing
 - to have kissing pullers that shall be accommodated by the 3-dial TSA approved combination locks (see 6.10)
- ◆ interior slide fasteners
 - to comply with the requirements for type B or C slide fasteners of SANS 1822 (type 5 in commercial terms)
 - one-way closed end

¹ 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.

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	7 of 25

- nylon coil , self-repairing
- colour to be an acceptable match to the colour of the lining

6.6 Protector pads (scuff resistant feet)

- ♦ of acceptable moulded plastics
- ♦ to be hard-wearing and outlast the life expectancy of the bag
- ♦ see figure 3 for an example of a suitable product, but not limited to the given design
- ♦ colour to be black

6.7 Plastics stiffener strips

- ♦ acceptable plastics stiffener strips
- ♦ not to become brittle during use
- ♦ not to crack when folded onto itself
- ♦ of such thickness as to support the panels of the bag for the full warranty period

6.8 Reinforcement sheeting

- ♦ acceptable polyethylene stiffener sheeting
- ♦ of nominal thickness 2 mm
- ♦ not to become brittle during use
- ♦ not to crack when folded onto itself

6.9 High density foam

- ♦ acceptable high density foam
- ♦ not to crack when folded onto itself
- ♦ of such density as to support the panels of the bag for the full warranty period

6.10 Combination locks

NOTE: Each bag opening shall be fitted with a lock as given below (3 locks in total).

- ♦ acceptable 3-dial combination locks that are TSA approved
- ♦ of corrosion resistant metal that is coated (black)
- ♦ of such design that it shall neatly accommodate the pullers of the slide fasteners

6.11 PVC backing material

- ♦ an acceptable black PVC material of nominal mass 550 g/m²

6.12 Touch and close fastener

- ♦ to comply with the requirements of SANS 1823 “Touch and close fastener”
- ♦ colour to be an acceptable match to the colour of the lining
- ♦ of nominal width 38 mm

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	8 of 25

6.13 Elastic webbing

- ♦ to comply with the requirements for Type 1 of SANS 142 “Narrow elastic fabrics and strip”
- ♦ colour to be an acceptable match to the colour of the lining
- ♦ of nominal width 38 mm, 10 mm and 25 mm respectively

6.14 Woven tape

- ♦ an acceptable synthetic tape of a colour that is an acceptable match to the colour of the lining
- ♦ of nominal width 20 mm and 25 mm respectively

6.15 Non-slip material

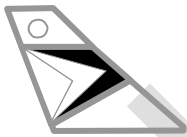
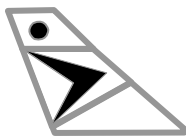
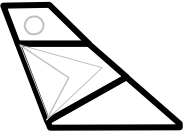
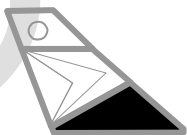
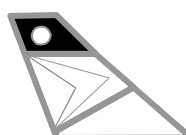
- ♦ an acceptable non-slip synthetic material, for example Neoprene®²
- ♦ colour to be an acceptable match to the colour of the lining

6.16 Embroidery thread

NOTE: This component is only applicable if SAA Tail logo is embroidered.

- ♦ acceptable 100% Viscose machine embroidery thread
- ♦ colour to be as given in table 2

Table 2 – Colour breakdown of SAA tail logo

  Pantone 348c “SAA green”	  Pantone 123c “SAA Yellow Gold”
  Pantone Black	  Matt Silver (as agreed upon between SAA and the supplier)
  Pantone 662c “SAA Blue”	  Pantone 1795c “SAA Red”

6.17 Release buckles

- ♦ acceptable black moulded plastics made from virgin materials

² Neoprene® is a trade name of a product supplied by Du Pont™. 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.

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	9 of 25

- ◆ to be such that it shall outlast the bag
- ◆ not to become brittle during use
- ◆ two types shall be required
 - Type 1: such that it shall neatly accommodate 25 mm wide elastic webbing
 - Type 2: such that it shall neatly accommodate 20 mm woven tape

6.18 Mesh fabric

- ◆ acceptable synthetic mesh fabric that is fit for purpose
- ◆ colour to be an acceptable match to the colour of the lining

6.19 Threads

- ◆ to comply with relevant requirements of SANS 1362 “Sewing threads”
- ◆ colour to be an acceptable match to the colour with which it is used
- ◆ continuous polyester filament
- ◆ ticket No 36

7. Workmanship

The bags shall be:

- ◆ assembled from high quality components 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 or scratches, spots or stains, incurred in the making-up
- ◆ sharp lines or edges.

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

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	10 of 25

8. Sizes and dimensions

- ♦ the bag shall be supplied in one size only and dimensions shall be as given below:



Figure 8 – Outer dimensions of bag

9. Construction

9.1 General

The body of the bag shall consist of the following panels:

- ♦ front panel
- ♦ rear panel
- ♦ centre panel
- ♦ base

The bag shall incorporate the following:

- ♦ two carry handles
- ♦ a detachable shoulder sling
- ♦ a name plaque
- ♦ the SAA tail logo
- ♦ two compartments, separated by the centre panel (SEE ANNEX B)
- ♦ plastics stiffener strips along the openings of all panels to retain the shape of the bag
- ♦ three TSA approved locks
- ♦ D-rings for secure attachment of locks
- ♦ each opening and each panel seam shall be fitted with piping of outer material and core (see figures 1, 2 and 4)
- ♦ interior seams to all be bound with woven tape

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	11 of 25



Figure 9 – Top view of bag

9.2 Front panel

- ◆ to be of outer material
- ◆ backed with high density foam (complete front panel and incorporated pocket)
- ◆ to form the one side of the front compartment
- ◆ to be fitted with an outside pocket (see 9.2.1)
- ◆ fitted with the SAA tail logo
- ◆ of dimensions as given in figure 11
- ◆ bottom corners to be fitted with protector strips that shall protect the edges from scuffing (see figure 11)
- ◆ **the supplier's name or trademark shall not appear on the front or top of the bag**
 - the supplier's name or trademark may be discreetly applied in a monotone colour on the inside of the bag at a position as agreed upon between the South African Airways and the supplier

9.2.1 Front pocket

- ◆ mouth opening of pocket to be fitted with a slide fastener with kissing pullers that shall be accommodated by a TSA approved combination lock (see 6.10)
- ◆ front pocket outer edge to be fitted with piping (outer material covered piping)
- ◆ be fully lined with lining
- ◆ side gussets of lining that shall enable the pocket to expand (top edge of gusset to measure 14 cm)
- ◆ fitted with an organizer to make provision for the components as given in 9.2.2
- ◆ fitted with the SAA tail emblem
 - to be embroidered with embroidery thread OR be a moulded badge
 - centrally positioned
 - to comply with the registered full-colour tail logo of the South African Airways
 - to be centrally positioned in the width of the front panel pocket
 - top edge of tail to be positioned approximately 45 mm below the piping
 - tail to be of nominal height 20 mm
 - if a moulded badge is used:
 - to have a black background
 - have an oval shape
 - outer dimensions as follows: 25 mm (h) x 50 mm (l)
 - positioned with the top edge of badge 40 mm below the piping

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	12 of 25

9.2.2 Front pocket organizer

9.2.2.1 Main organizer pocket (see figure 10)

- ♦ mouth opening to be horizontal and of finished length 35 cm
- ♦ mouth opening to be fitted with a slide fastener that shall extend along the full length of the mouth opening
- ♦ outer edges of slide fastener to be neatly concealed with lining inserts
- ♦ mouth opening to be positioned 80 mm below the top seam of the front panel on inside
- ♦ pocket bag to be of double folded lining and of finished depth 18 cm (measured from centre of mouth opening)
- ♦ width of pocket bag of main organizer pocket to extend along full width of front panel

9.2.2.2 Pocket for PDA

- ♦ of doubled lining
- ♦ of finished width 95 mm, having side gussets each of finished width 25 mm
- ♦ of finished depth 12 cm
- ♦ positioned as given in figure 10
- ♦ front panel of PDA pocket to be completely interlined with high density foam
- ♦ bottom edge to be concealed by a horizontally positioned woven tape (this continuous length of tape will be sewn in with the side edges of the front panel)

9.2.2.3 Pockets for Pens

- ♦ a single layer of lining
- ♦ mouth opening to be folded in, folded over and stitched down
- ♦ each of finished width 30 mm (20 mm flat measurement for each)
- ♦ of finished depth 12 cm and positioned as given in figure 10
- ♦ bottom edge to be concealed by a horizontally positioned woven tape

9.2.2.4 Pocket for calculator

- ♦ of doubled lining
- ♦ of finished width 55 mm, having side gussets each of finished width 25 mm
- ♦ of finished depth 12 cm and positioned as given in figure 10
- ♦ front panel of calculator pocket to be completely interlined with high density foam
- ♦ bottom edge to be concealed by a horizontally positioned woven tape

9.2.2.5 Credit card slots

- ♦ 4 in total
- ♦ of total depth 12 cm
- ♦ made from synthetic mesh fabric
- ♦ top edges to be bound with woven tape
- ♦ mouth openings to be positioned 20 mm below the other
- ♦ of nominal finished width 65 mm
- ♦ positioned as given in figure 10
- ♦ bottom edge to be concealed by a horizontally positioned woven tape

9.2.2.6 Key ring attachment

- ♦ a length of double folded woven tape to be threaded through the one slot of a release buckle and sewn in with the top seam of the front panel on the inside
- ♦ another length of double folded woven tape shall be threaded through the other slot of a release buckle and fitted with a key ring
- ♦ approximate position to be as seen in figure 10

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	13 of 25

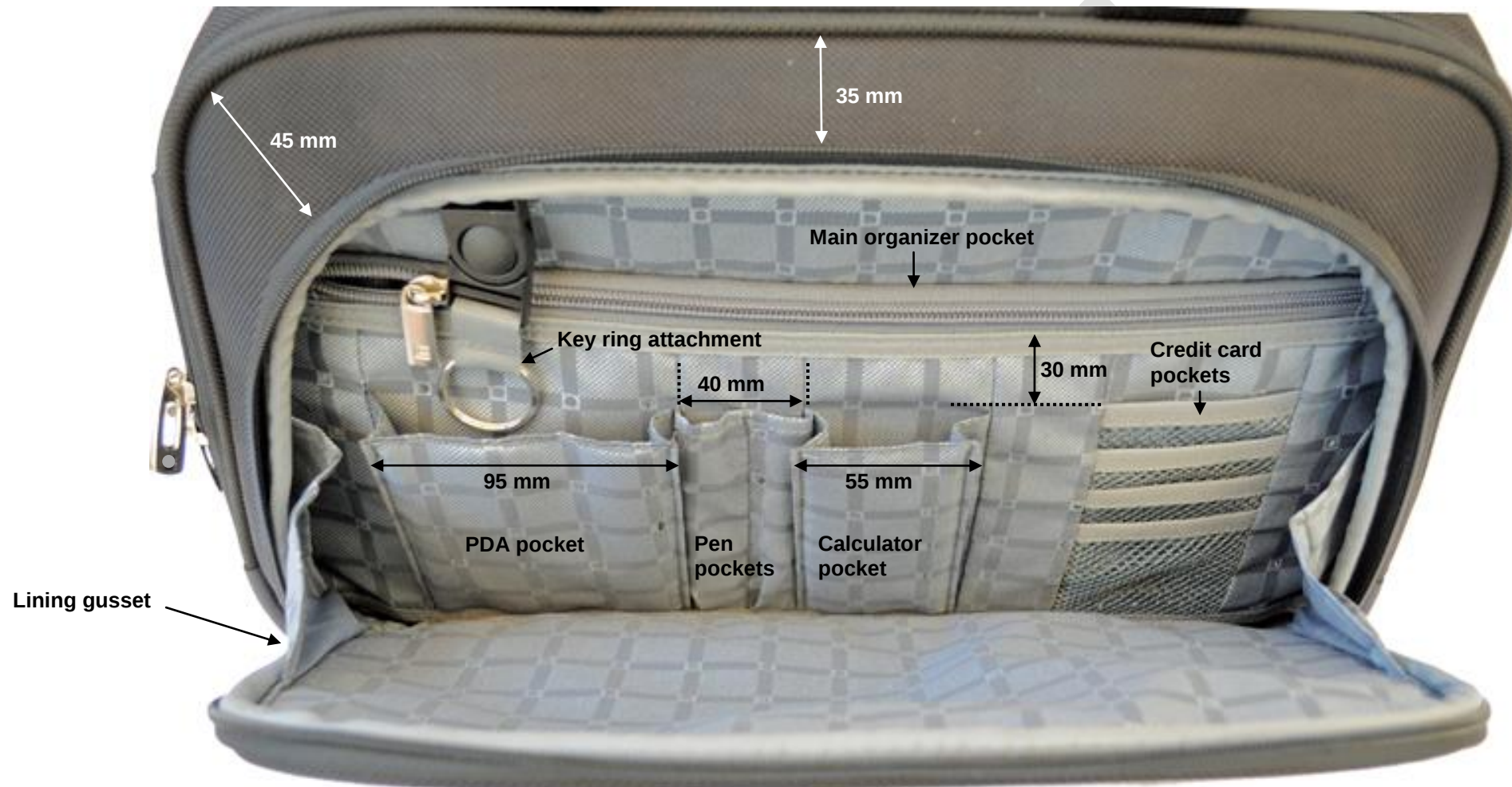


Figure 10 – Inside view of front panel pocket (showing organizer)

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	14 of 25



Figure 11 – Front panel

9.3 Rear panel

- ♦ to be of outer material and cut in three sections (see figure 12)
- ♦ complete rear panel to be backed with reinforcement sheeting and high density foam
- ♦ to form one side of the rear compartment
- ♦ to be fitted with a horizontal tunnel strip positioned on the exterior that will enable the telescopic handle of another luggage piece to pass behind it
 - tunnel strip to be of outer material
 - lined with PVC backing material (see 6.11)
 - top and bottom edges to be such that the outer material is folded in, folded over and stitched down
 - side edges of tunnel strip to extend along the full width of the rear panel and sewn in with the side edges of the rear panel (tunnel strip to pass behind the side sections of the rear panel)
 - side section seams to be double stitched
 - of dimensions as given in figure 12
 - all four visible edges of the tunnel strip to be vertically bar-tacked for a minimum distance of 20 mm
- ♦ bottom corners to be fitted with protector strips that shall protect the edges from scuffing (see figure 12)

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	15 of 25



Figure 12 – Rear panel (showing tunnel strip)

9.4 Centre panel

- ◆ to be of outer material
- ◆ wall of centre panel to form the divider between the front and rear compartment
- ◆ exterior to make provision for the fitment of a centrally positioned name plaque (see figure 9)
 - name plate to be affixed to a backing plate/ PE sheet to ensure that the attachment of the plaque shall not weaken or jeopardize the integrity of the bag in any way
 - the name plate shall:
 - comply with the information given in 6.3.8
 - be securely attached to the bag by means of rivets or screws and washers
- ◆ exterior to be fitted with double folded webbing loops that are fitted with D-rings
 - ⇒ webbing loops to be of such length as to enable proper attachments of the locks
 - ⇒ position of webbing loops to align horizontally
 - ⇒ webbing to be sewn in with the relevant seams AND box-tacked (where and as relevant)
 - ⇒ see figure 13 for guidance
 - ⇒ D-rings and webbing loops to be centred in the centre panel on the side
- ◆ exterior to be fitted with D-rings that shall be fitted inside a sleeve (see figure 13)
- ◆ D-rings to fasten to the detachable shoulder sling
 - ⇒ double folded loops of outer material or webbing shall be threaded through a D-ring and properly attached on the inside of a sleeve

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	16 of 25



Figure 13 – Centre panel (showing D-rings and webbing loops)

9.5 Compartments

9.5.1 Front compartment (see figure 14)

- ◆ situated between the front panel and centre panel wall
- ◆ compartment opening to be fitted with a slide fastener that shall extend from the base of the bag on the left to the base on the right
 - slide fastener with kissing pullers that shall be accommodated by a TSA approved combination lock
 - each stringer of the slide fastener shall be attached by means of two rows of stitchings
- ◆ to have side gussets that shall enable the compartment to expand when slide fastener is fully opened
 - top edge of gusset to measure 14 cm
- ◆ interior of compartment to be fully lined with lining
- ◆ front panel wall interior to incorporate :
 - a slide fastener along the top edge that shall be long enough to grant acceptable access for the attachment of the name plate
 - a horizontal pocket along the full width of the front panel, mouth opening to be fitted with a slide fastener
 - slide fastener (pocket mouth opening) to be of finished length 34 cm
 - positioned approximately 75 mm below the top seam
 - pocket bag to extend to the base seam
 - fitted with two identical patch pockets of lining
 - top edges of pockets to be bound with elastic webbing of finished depth 12 mm (after attachment)
 - positioned with top edge of pockets approximately 80 mm below the slide fastener of horizontal pocket
 - to extend to the base seam of the bag
 - width of each pocket to measure 28 cm when the elastic webbing is fully extended

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	17 of 25



Figure 14 – Front compartment

- ◆ centre panel wall interior:
 - centre panel wall to consist of lining that shall be lined with lining and interlined with a layer of high density foam
 - fitted with a pouch made of non-slip material (see figure 14)
 - to extend along the full width of the centre panel wall
 - top edge of pouch to be bound with elastic webbing of finished width 12 mm (after attachment)
 - positioned 70 mm below the top seam
 - bottom of pouch to have a separate base panel that shall enable electronic equipment (for example a notebook) to be protected and stored acceptably
 - fitted with a patch of male touch and close fastener
 - ⇒ of nominal dimensions: 45 mm x 38 mm
 - ⇒ sewn along all four edges
 - ⇒ centrally positioned and 30 mm below the top edge of the pouch
 - fitted with a length of elastic webbing that shall serve as a fastening strap
 - ⇒ of nominal finished width 38 mm
 - ⇒ of nominal finished length 19 cm
 - ⇒ one outer end to be folded in and box-tacked to the lining
 - ⇒ positioned with the bottom edge approximately 20 mm below and behind the pouch mouth opening
 - ⇒ the other outer free edge to be folded in and fitted with a patch of female touch and close fastener
 - ⇒ touch and close fastener to be of dimensions: 38 mm x 65 mm
 - ⇒ touch and close fastener to be attached along all four edges

9.5.2 Rear compartment (see figure 15):

- ◆ situated between the centre panel wall and the rear panel

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	18 of 25

- ◆ compartment opening to be fitted with a slide fastener that shall extend from the base of the bag on the left to the base on the right
 - slide fastener with kissing pullers that shall be accommodated by a TSA approved combination lock
 - each stringer of the slide fastener shall be attached by means of two rows of stitchings
- ◆ to have side lining gussets that shall enable the compartment to expand when slide fastener is fully opened
 - top edge of gusset to measure 14 cm
- ◆ interior of compartment to be fully lined with lining

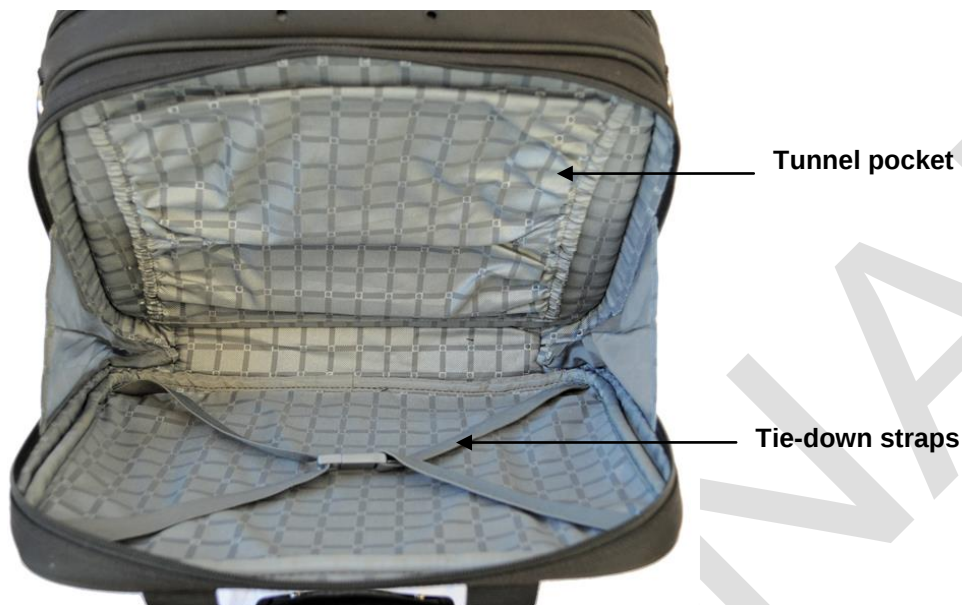


Figure 15 – Rear compartment

- ◆ rear panel wall interior to be fitted with 25 mm wide elasticated tie-down straps with quick release plastics buckles
- ◆ centre panel wall interior to be fitted with a tunnel pocket of lining (see figure 15)
 - tunnel pocket to be open on both side edges
 - side edges of tunnel pocket to be fitted with 10 mm wide elastic webbing (elastic to be tunneled)
 - to extend from 25 mm below the top seam of the centre panel wall to 25 mm above the base of the panel
 - of finished width 32 cm
 - positioned 30 mm away from the side seams

9.6 Base panel

- ◆ to be of outer material
- ◆ to be reinforced with reinforcement sheeting and high density foam
- ◆ fitted with four appropriately positioned protector pads (see figure 16)



Figure 16 – Base panel

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	19 of 25

9.7 Carry handles

- ♦ to be of 38 mm wide webbing (see table 1)
- ♦ each to be of nominal finished length 37 cm
- ♦ centrally positioned on top of bag (inner webbing edges to be positioned 12 cm apart)
- ♦ sewn in with seams on top of bag in such a way that it can withstand a packed weight of 10 kg
- ♦ webbing to be folded double at the grip area and stitched down for a distance of approximately 12 cm
- ♦ one handle to be fitted with an outer material pad that shall be fitted with press studs
 - ⇒ pad to be of outer material
 - ⇒ lined with outer material
 - ⇒ interlined with high density foam
 - ⇒ of dimensions as given in figure 17
 - ⇒ fitted with two sets of press studs
 - ⇒ sewn to the handle



Figure 17 – Pad on carrying handles

9.8 Shoulder sling

- ♦ to be of 38 mm wide webbing (see table 1)
- ♦ each cut edge of the webbing shall be threaded through a slider and the square eye of a swivel snap hook and securely stitched
 - cut edges to be heat sealed to prevent fraying
 - snap hooks to be attached to the D-rings that are attached inside the centre panel sleeves
- ♦ to be of dimensions as given in figure 18
- ♦ fitted with a centrally positioned shoulder cushion
 - cushion section to be cut wider than the webbing
 - cushion section to be of outer material, interlined with high density foam and lined with non-slip material OR outer material
 - side edges to be neatly finished off , e.g. with binding
 - shoulder cushion to be box-tacked at the outer edges to the webbing strap

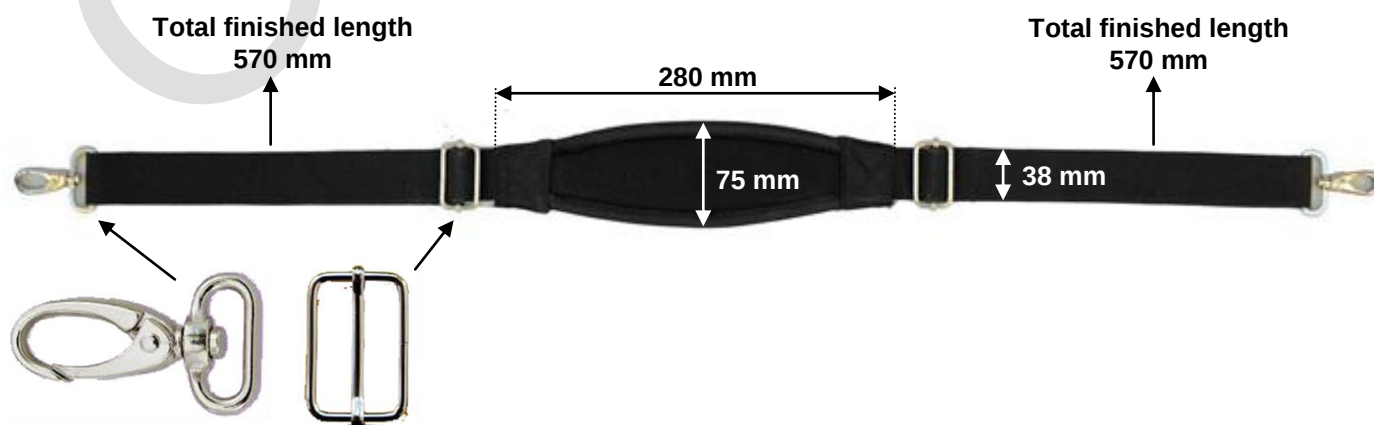


Figure 18 – Shoulder sling

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	20 of 25

9.9 Pop rivets, screws and washers

- ♦ where pop rivets and screws are used, the heads shall be countersunk on the exterior of the bag (not protruding).

9.10 Information leaflet

- ♦ each bag to be issued with an information leaflet
- ♦ each leaflet to include step-by-step instructions on how the three-dial combination lock can be locked, unlocked and how the combination can be changed.

10. Functionality/ performance

The strength of the bag shall be such that it passes the impact and rough handling test given in 5.5 of SANS 1392:2002, as well as the freezing followed by dropping test given in 5.6 of SANS 1392:2002.

The strength of the bag handle shall be such as to pass the test given in 5.7. of SANS 1392:2002.

All locks shall be able to withstand being open and closed 10 000 times.

11. Labels

Each bag shall be fitted with a label that is permanently secured to the interior.

Each label shall:

- ♦ be a 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 lining fabric (interior) on inside
- ♦ be such that it shall outlast the bag (including the markings)
- ♦ include the following information:
 - the item number
 - the manufacturer's name or trade mark or both
 - the year of manufacture
 - the order number

12. Warranty

Each bag shall carry a 5-year warranty.

The following shall be covered by the warranty:

- ♦ faulty workmanship
- ♦ all working parts
- ♦ handles and wheels
- ♦ slide fasteners (zips)

The warranty excludes the following:

- ♦ damage by a third party and abuse by the owner

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	21 of 25

13. Preparation, marking and packaging

13.1 Packing

The bags shall be:

- ♦ delivered in a commercially dry condition
- ♦ individually packed in plastics envelope
- ♦ individually packed in a sturdy container (cardboard box) in such a way that they will not be damaged in transit or in storage

Cardboard boxes:

Each cardboard box shall have a label securely attached to the outside. This label shall be visible when the boxes 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(s)
- ♦ the item number(s)
- ♦ the month and year of manufacture
- ♦ the order number
- ♦ the box number, e.g. "1 of 100"
- ♦ the total mass of the packed container
- ♦ the Inspection Certificate Number

13.2 Additional marking

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

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	22 of 25

14. 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 the 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.

AATCC test method 20, *Fiber analysis: Qualitative. Available from World Wide Web*
http://www.aatcc.org/Technical/Test_Methods/scopes/tm20.cfm

SANS 85, *Thickness of wool 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-E01/ISO 105-E01, *Textiles – Tests for colour fastness – Part E01: Colour fastness to water.*

SANS 105-X16/ISO 105-X16, *Textiles – Tests for colour fastness – Part X16: Colour fastness to rubbing – Small areas.*

SANS 1309, *Printed labels for textiles.*

SANS 1362, *Sewing threads.*

SANS 1585, *Coated fabrics for shelters and rainwear.*

SANS 1822, *Slide fasteners.*

SANS 1823, *Touch and closed fasteners.*

SANS 1392:2002, *Soft-top suitcases.*

SANS 5266, *Water resistance of textile fabrics: Variable head test.*

SANS 5330, *Mass per unit length of conditioned textile fabrics.*

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

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

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

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	23 of 25

ANNEX A
(Informative)
Pocket/Compartment identification



Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	24 of 25

ANNEX B

(Normative)

Special conditions of tender

B-1 GENERAL

B-1.1 A SANAS accredited laboratory shall be the inspecting authority and shall conduct all relevant tests.

Five (5) sample pieces shall be submitted together with each tender offer and shall be for the tenderer's account.

Five (5) sample bags shall be requested for pre-production samples of which one shall be exposed to destructive testing.

NOTE 1: All sample pieces shall be submitted with attached name plaques. Name plaques to comply with the information as given in paragraph 6.3.8. Name list to be supplied by SAA".

NOTE 2: SAA shall return all relevant samples to unsuccessful tenderers.

B-1.2 **The above mentioned sample bags shall be accompanied by test reports and certificates of compliance on all components (as well as the confirmation of the composition of the outer material) as issued by a certified registered certification body.**

B-1.3 The samples and relevant compliance certificates shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of the samples.

B-1.4 The bags 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 bags supplied to this specification may be in progress.

B-1.5 The contractor shall inspect the finished bags for compliance with the specification before submitting them to the inspecting authority for final inspection.

B-1.6 Before acceptance, the bags 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 bags, 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, e.g. quantity, etc

Doc No	Item No	Date	Version	Page
SAA935	CO116	April 2014	02.0	25 of 25