

# PRIVATE SPECIFICATION

Prepared for the



**SOUTH AFRICAN AIRWAYS**

A STAR ALLIANCE MEMBER 

## **PULL-ALONG 4-WHEEL TROLLEY SUITCASES for CABIN CREW & FLIGHT DECK CREW**



**Item Number: CO97  
Document Number: SAA2003  
Version 05.0/April 2014**

# 1. Scope

This specification covers the material and make of pull-along 4-wheel trolley suitcases for the South African Airways Cabin Crew and Flight Deck Crew.

**NOTE 1:** Each suitcase shall carry a 5-year warranty (see section 12).

# 2. Definitions and Abbreviations

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

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

# 3. Style

The style is as follows:

- ◆ shell to be of 100% virgin ABS material, coated with polycarbon
- ◆ body (shell) to consist of a top and bottom half
- ◆ vertical, pull-along design
- ◆ slide fastener (zip) closure with kissing pullers
- ◆ two retractable carrying handles, one on top and one on side
- ◆ extendable aluminium trolley handle, with various locking positions and recessed handle
- ◆ four-wheel glider system at bottom of trolley
- ◆ integrated TSA approved three-dial combination lock (see 6.1.2)
- ◆ each suitcase shall make provision for the attachment of a name plaque
  - each suitcase to incorporate four punched holes
  - the name plaques shall be supplied as separate components with each shipment OR when names have been supplied by SAA, the suitcases shall be delivered with the name plaques securely riveted to the exterior
- ◆ the exterior of each suitcase shall be fitted with a badge containing the SAA tail logo
- ◆ fully lined interior
- ◆ inside elasticised straps with clip
- ◆ internal divider
- ◆ one internal utility pouch
- ◆ clear plastic bag with heat sealed edges positioned on inside of suitcase (individual item)

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	2 of 18

## 4. Illustrations

Illustrations are not to scale and shall serve as a guideline only.



Figure 1 – Face side (as seen in upright position)

Figure 2 – Rear view of suitcase (as seen in upright position)

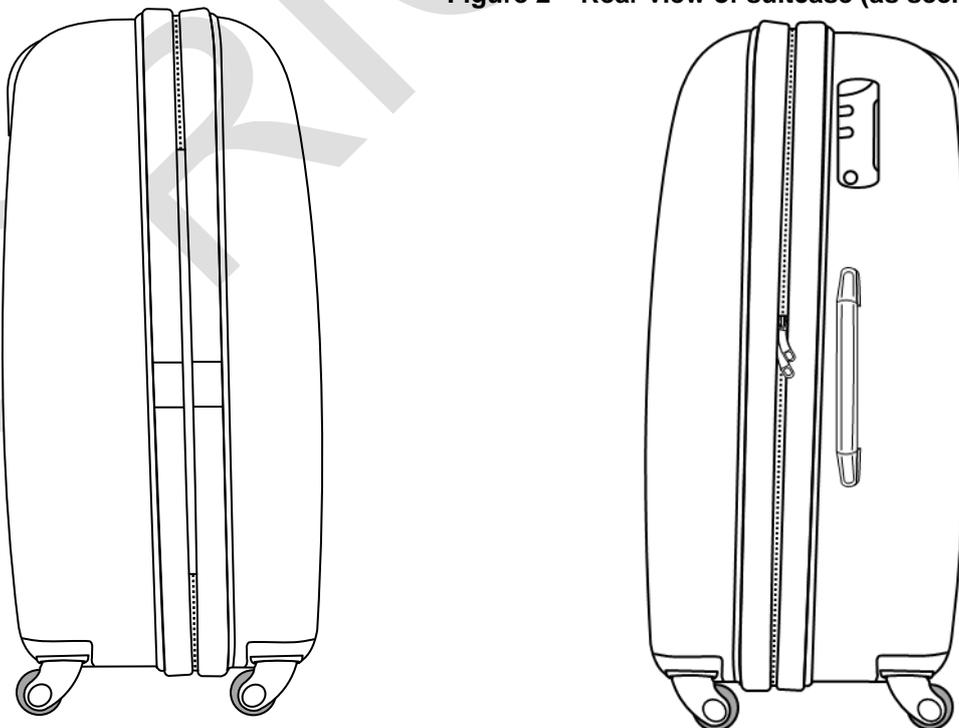


Figure 3 – Side views

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	3 of 18

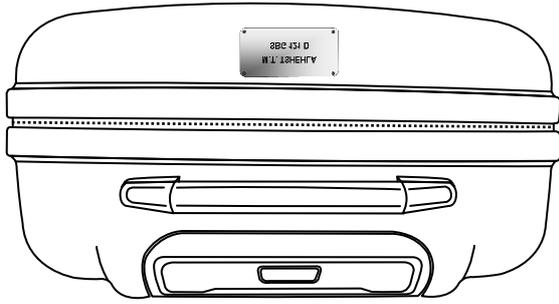


Figure 4 – Top view (as seen in upright position)

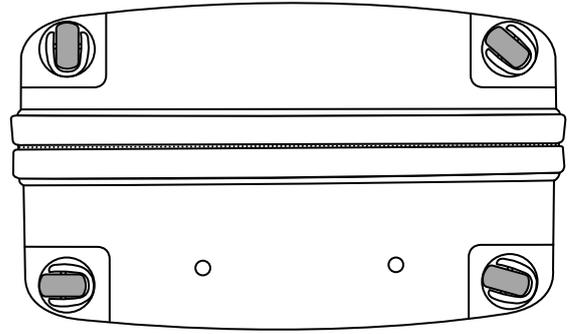


Figure 5 – Bottom view (in relation to figure 4)



Figure 6 – Examples of telescopic type trolley handles



Figure 7 – View of typical internal components

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	4 of 18

## 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. All measurements are nominal.

**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 Exterior component materials

#### 6.1.1 Shell

- ◆ 100% virgin acrylonitrile butadiene styrene (ABS) material coated with polycarbon
- ◆ minimum of 30% polycarbon content
- ◆ of minimum thickness 2.25 mm
- ◆ with a honeycomb finish on the outside and a smooth finish on the inside
- ◆ black

#### 6.1.2 Moulded components

- ◆ mouldings are all in black plastics/polypropylene (as appropriate), i.e.
  - suitcase retractable carry handles
  - trolley handle recess and trolley handle (not shaft)
  - wheel housings (PP)
  - 3 dial combination lock
    - provision should be made in each tender submission for:
    - TSA approved lock **AND** non-TSA approved lock
    - delivery dates for each type of lock as given above

#### 6.1.3 Wheels

- ◆ acceptable hard-wearing heavy duty wheels that are commercially available
- ◆ 4-wheels in total
- ◆ colour to be black
- ◆ to be smooth
- ◆ diameter of wheels to be such as to be fit for purpose

**IMPORTANT NOTE:** Wheels to be recessed to such an extent that the diameter of the wheels and wheel fixtures add the minimum to the outside dimensions of the suitcase (see section 8, pg 10), without compromising the hard-wearing (industrial) requirement.

#### 6.1.4 Woven tape

- ◆ an acceptable synthetic Petersham type ribbon
- ◆ of width 30 mm (min)

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	5 of 18

- ◆ colour to be black
- ◆ application: to conceal joining edges of extruded flexible PVC strip (see 6.3.2)

### 6.1.5 Hinge strip

- ◆ 1680 Denier polyester
- ◆ of nominal width 40 mm
- ◆ of nominal length 30 cm
- ◆ capable of outlasting the lifespan of the suitcase

### 6.1.6 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 and engraved
  - to correspond with the information as given in paragraph 9.2
  - 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 plaque shall contain the following information:
    - ⇒ Initials and surname of staff member
    - ⇒ Pension number of staff member
  - nominal outside diameter of plaque to be:
    - Length: 80 mm
    - Width: 30 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.*

## 6.2 Interior component materials

### 6.2.1 Lining fabric

- ◆ an acceptable woven polyester fabric of 150 Denier (minimum)
- ◆ to comply with the relevant requirements as given in table 2 of SANS 1392:2002
- ◆ colour to be an acceptable dove grey colour
- ◆ to be supplied in three variations:

#### 6.2.1.1 Type A

- ◆ lining fabric (as given in 6.2.1) without additional finishes

#### 6.2.1.2 Type B

- ◆ lining fabric (as given in 6.2.1) bonded to an acceptable foam sponge of nominal thickness 1 mm
- ◆ requirements for bonded material
  - lining shall be acceptably bonded to the foam padding in such a way that the bonded material shall adhere to the following:

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	6 of 18

- ⇒ shall not part when cleaned with a damp cloth
- ⇒ has a uniform finish
- ⇒ is free from perforations, untreated areas and other imperfections (e.g. blisters and ripples)
- the adhesive used for bonding shall
  - ⇒ not contain any constituent that may have a toxic or irritating effect on the skin
  - ⇒ be such that it adheres to both materials and will not under any circumstances emit an unpleasant odour

### 6.2.1.3 Type C

- ◆ lining fabric (as given in 6.2.1) coated on the technical reverse side for reinforcement of the fabric

### 6.2.2 Mesh fabric

- ◆ to be an acceptable knitted synthetic mesh fabric
- ◆ to have a minimum bursting strength of 275 KPa when tested in accordance with SANS 13938-1
- ◆ colour to be an acceptable match to the colour of the lining fabric

### 6.2.3 Webbing

- ◆ an acceptable synthetic webbing
- ◆ of nominal thickness 1 mm
- ◆ of nominal width 20 mm
- ◆ colour to be an acceptable match to the colour of the lining

### 6.2.4 Binding tape

- ◆ an acceptable synthetic Petersham type ribbon
- ◆ of minimum width 20 mm
- ◆ colour to be an acceptable match to the colour of the lining

### 6.2.5 Elastic webbing

- ◆ to comply with the requirements for type 1 of SANS 142
- ◆ of nominal width 30 mm
- ◆ an acceptable match to the colour of the lining

## 6.3 Components applicable to both interior and exterior

### 6.3.1 Slide fasteners (zips)

- ◆ to comply with the relevant requirements for Class C slide fasteners of SANS 1822
- ◆ a typical example of suitable products are supplied by YKK<sup>1</sup>
- ◆ pullers to have a nickel-coloured finish
- ◆ nylon self-repairing
- ◆ three different types to be supplied:
  - **Type 1:** Attached to the exterior of the suitcase (main opening)
    - ⇒ tape on both sides of teeth to be 16 mm
    - ⇒ 8 mm
    - ⇒ colour to be black
    - ⇒ a two-way closed end slide fastener
    - ⇒ pullers to be such that it shall be accommodated by the permanently mounted TSA lock

<sup>1</sup> 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
SAA2003	CO97	April 2014	05.0	7 of 18

- **Type 2:** Attached to the interior utility pouch and centre opening positioned in body lining of the bottom half of the suitcase
  - ⇒ colour to be an acceptable match to the colour of the lining
  - ⇒ a one-way closed end slide fastener
  - ⇒ length to be such that it shall extend along the full width of the utility pouch mouth opening
  
- **Type 3:** Attached to the interior divider in top half of suitcase
  - ⇒ colour to be an acceptable match to the colour of the lining
  - ⇒ a two-way closed end slide fastener

### 6.3.2 Extruded PVC strip

- ◆ black
- ◆ flexible extruded PVC strip that finishes the edges of the suitcase and provides protection for the external (main opening) slide fastener by concealing it partially
- ◆ ribbed or plain
- ◆ to incorporate a lip element that shall be sewn to the upper edges of the top and bottom halves of the suitcase
- ◆ not to become brittle
- ◆ visible finished width (after attachment) to be 20 mm

### 6.3.3 Sewing 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 filament polyester

#### Sewing thread (exterior slide fastener attachment):

- ◆ ticket No. 20

#### Sewing thread (lining of interior lining):

- ◆ ticket No. 36

### 6.3.4 Shaft of trolley handle

- ◆ the telescopic trolley handle shall be of superior quality aluminium
- ◆ to be of such quality as to outlast the expected life cycle of the suitcase
- ◆ finish to be as agreed upon between SAA and the successful bidder

### 6.3.5 Screw and washers, pop rivets

- ◆ all screws, washers and pop rivets shall be of appropriate size for the function used to allow neat connections and fixtures of components
- ◆ all of the above mentioned to be treated with a metallic coating to inhibit rust

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	8 of 18

## 7. Workmanship

### The trolley suitcases 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 mould 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
SAA2003	CO97	April 2014	05.0	9 of 18

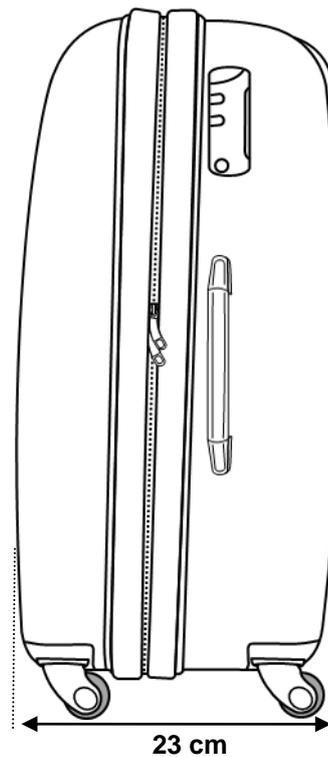
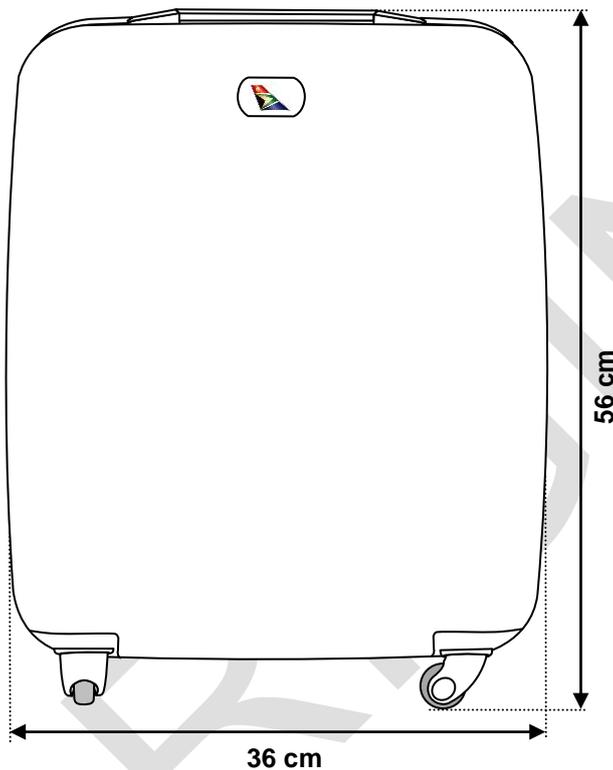
## 8. Sizes and dimensions

- ◆ the following dimensions shall be as given in table 1
- ◆ NO TOLERANCE SHALL BE ALLOWED ON THE OUTSIDE DIMENSIONS OF THE SUITCASE

Table 1 – Size requirements

Dimensions in cm:	Weight in kg (max) <sup>a</sup> :	Volume in ℓ:
56 x 36 x 23	3.5	45

<sup>a</sup> This shall serve as a guideline. If the supplied products weigh more than the maximum specified weight, it shall be clearly stated in the tender submission.



Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	10 of 18

# 9. Construction

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

## 9.1 General

The suitcase shall consist of the following exterior sections:

- ◆ upper and lower suitcase halves (ABS material coated with polycarbonate) preformed sheet
- ◆ various moulded plastic components attached to the preformed sheets
- ◆ extruded flexible PVC strip
- ◆ Type 1 slide fastener
- ◆ wheels and axes
- ◆ telescopic aluminium trolley shaft and integrated handle
- ◆ two carry handles

The suitcase shall consist of the following interior sections:

- ◆ body lining fabric to line both suitcase halves
- ◆ Type 2 slide fastener in centre of bottom half of suitcase
- ◆ Type 3 slide fastener attached to divider in top half of suitcase
- ◆ suitcase divider constructed of lining material and mesh fabric
- ◆ internal pouch of lining and mesh fabric
- ◆ elastic retainer with plastic clip fastener

## 9.2 Exterior

- ◆ the preformed sheet halves of the suitcase shall be smooth and without any folds or sharp angles to the touch
- ◆ slide fastener (that 'seals' the two halves of the suitcase outer) shall be stitched to the suitcase halves, together with the extruded flexible PVC strip, in such a way that the closed slide fastener shall be partly concealed by the extruded plastic strips
- ◆ when the slide fastener (zip) is closed, the gap between the extruded strip on the upper half and extruded strip on lower half shall be of minimum width 15 mm
- ◆ corner wheels shall be so attached that the sideways movement (wobble of the wheel) shall not be more than 1 mm when measured at any point on the wheel extremity
- ◆ the wheels shall be so attached that it rotates freely at 360° without any interference from other components and recessed to the functional maximum
  - wheels to be positioned and recessed in such a way that it adds the minimum to the outer dimensions of the suitcase
  - care shall be taken that when the suitcase is pulled by the telescopic handle, the base is an appropriate distance from the ground (does not touch the ground that might cause damage to the shell)
- ◆ the hinge of the suitcase shall consist of a polyester strip (see 6.1.5)
  - this strip shall also act as stoppers for the sliders of the slide fastener
- ◆ the joining ends of the extruded flexible PVC strips that finish the preformed halves of the suitcase shall be neatly concealed by tape (see 6.1.4)
- ◆ fitted with two retractable carry handles which shall be recessed to the functional maximum to add as little as possible to the outer dimensions of the suitcase
  - one shall be centrally attached to the top of the suitcase on the lower half of the suitcase between the telescopic handle and outer edge of extruded strip
  - one shall be centrally attached to the side of the suitcase on the lower half of the suitcase
  - both handles shall be reinforced on the inside of the suitcase
- ◆ the telescopic trolley handle (see 9.3.3) shall protrude from the top and inserted in the lower half of the suitcase

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	11 of 18

- to be sturdy and attached in such a way as to withstand excessive force during use
- ◆ four punched holes that shall be in corresponding positions to the drilled holes in the name plate
  - the holes shall preferably be punched centrally in the upper half of the suitcase at the top (top refers to when suitcase is upright) (see figure 4)
  - such that the attachment of the name plate shall not weaken the shell or jeopardize the integrity of the suitcase in any way
  - the name plate shall:
    - comply with the information given in 6.1.6
    - either be securely attached to the suitcase by means of rivets (when names have been supplied by SAA) OR supplied as separate components with each shipment
- ◆ be fitted with a moulded badge containing the registered full-colour logo of the South African Airways (tail only)
  - to have a black background
  - have an oval shape
  - outer dimensions as follows: 25 mm (h) x 50 mm (l)
  - to be centrally positioned on the front of the upper half of the suitcase, facing forward (exact positioning shall be as agreed upon between the South African Airways and the supplier)
  - **badge shall NOT stand proud of the shell (to lie flush with shell)**
  - the supplier's name or trademark may be discreetly applied in a monotone colour and the position shall be as agreed upon between the South African Airways and the supplier

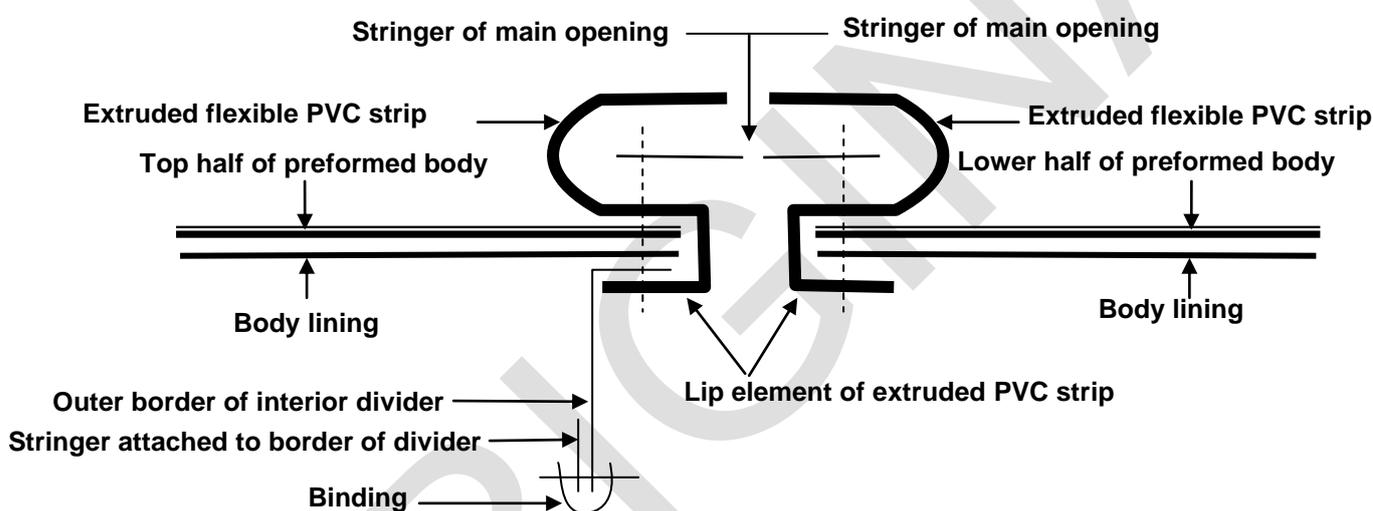


Figure 8 – Attachment of extruded strip and slide fasteners at main opening of suitcase

## 9.3 Interior

### 9.3.1 Top half

- ◆ **Body lining:**
  - top half to be lined with Type B lining which shall be glued/bonded to the preformed sheet
  - the adhesive material used shall be such that
    - ⇒ it shall not contain any constituent that may have a toxic or irritating effect on the skin
    - ⇒ it adheres to both materials and will not under any circumstances emit an unpleasant odour
    - ⇒ the lining and performed sheet shall not part when cleaned with a damp cloth
  - to conform to the shape of the top half of the suitcase and folds in the fabric at the corners shall be permitted to make provision for a close fit
  - the outer raw edges of the body lining shall be inserted into the lip element of the extruded flexible PVC strip on the inside of the suitcase half

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	12 of 18

◆ **Divider:**

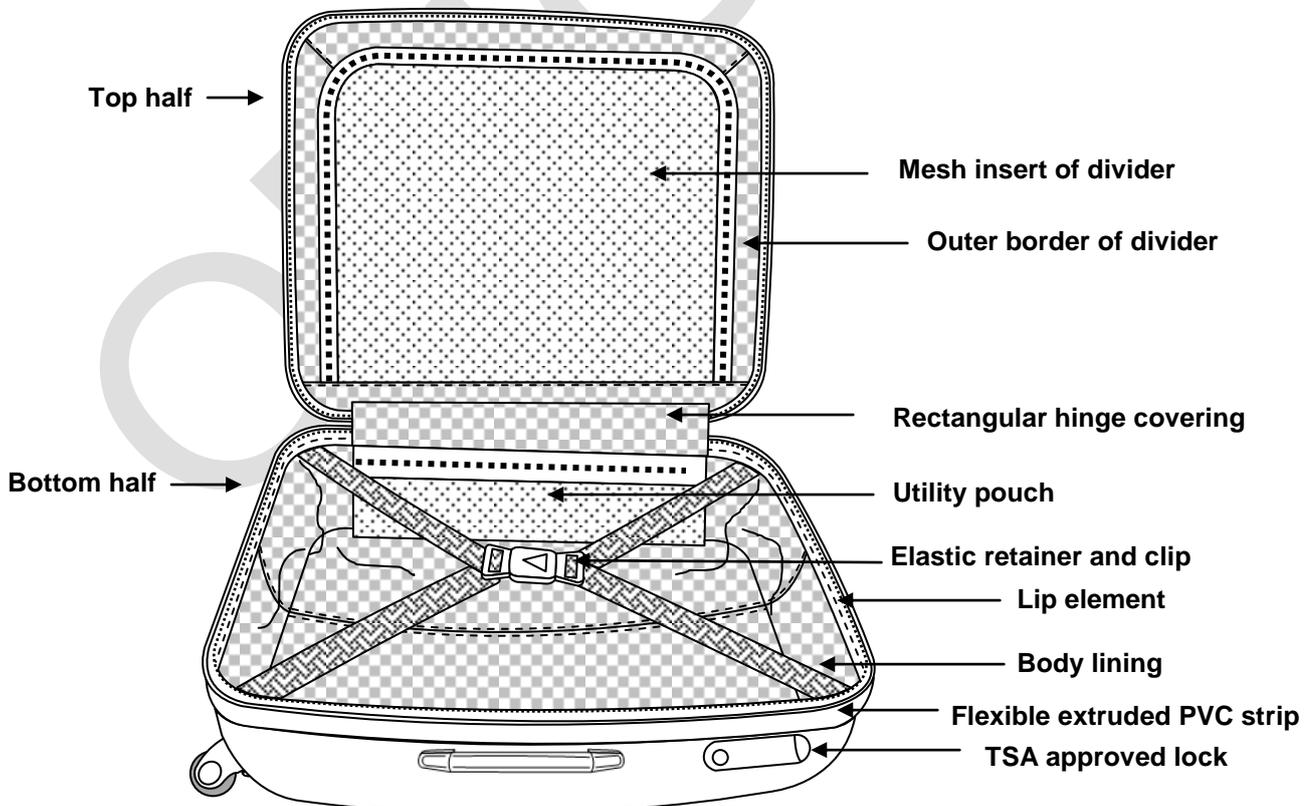
- the divider shall consist of an outer border of Type A lining fabric, fitted with a centre insert of mesh fabric
- divider to extend along the full width and length of the top half of the suitcase
- the lining border and centre mesh fabric insert shall be attached to each other by means of:
  - ⇒ a seam joining the mesh insert and lining border at the base of the mesh fabric insert
  - ⇒ a Type 3 slide fastener that shall extend along the top and two side outer edges of the mesh insert
  - ⇒ the outer edges of mesh insert and stringer of the slide fastener shall be bound with binding on the inside to reinforce the seam
- lining border to extend along all four edges of the upper half of the suitcase
- raw outer edges of lining border to be inserted into the lip element of the extruded flexible PVC strip on the inside of the suitcase half
- all seams in top half of suitcase shall be bound with binding tape

◆ **Attachment of components:**

- the raw outer edges of the body lining, outer border of the divider (as given above), the stringer (positioned on the exterior of the top half) and the lip element of the extruded flexible PVC strip shall be seamed together along the full circumference of the top half of the suitcase

**9.3.2 Rectangular hinge covering**

- ◆ of Type C lining material
- ◆ rectangular with side and bottom edges folded in and edge-stitched
- ◆ of minimum width 37 cm and centrally positioned over the hinge that connects the two halves of the suitcase
- ◆ top edge to be inserted into the lip element of the extruded flexible PVC strip on the inside of the top half of the suitcase
- ◆ bottom edge to be laid on top of the body lining of the bottom half of the suitcase and properly secured in such a position (and of such length) as to ensure that when the suitcase is unzipped and two halves fully opened, the fabric hinge covering shall fit comfortably over the hinge and shall experience no strain



**Figure 9 – Component identification**

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	13 of 18

### 9.3.3 Bottom half

#### ◆ **Body lining:**

- to be lined with Type B lining which shall conform to the shape of the bottom half of the suitcase (box-shaped)
- be attached to the bottom half of the suitcase only along the extruded flexible PVC strip (NO adhesive used)
- the outer raw edges of the body lining shall be inserted into the lip element of the extruded flexible PVC strip on the inside of the suitcase half
- fitted with a Type 2 slide fastener (inserted lengthwise) in the centre of the body lining
  - ⇒ to extend along the full length of the base of the bottom half suitcase
  - ⇒ outer edges of slide fastener opening to be fitted with triangular gussets to facilitate the ease of opening
- fitted with a printed fabric label (see section 11)

#### ◆ **Touch and close fasteners:**

- each inside corner of the performed sheet shall be fitted with a female section of touch and close fastener (glued to inside of body)
- each corner of the box-shaped body lining shall be fitted on the inside with a male touch and close fastener section that shall be in corresponding positions to the female sections on the performed sheet

#### ◆ **Utility pouch:**

- rectangular
- front panel to be made of mesh fabric that shall incorporate three equidistantly spaced 20 mm deep knife pleats at the bottom seam to create fullness
- rear panel to be made of Type A lining fabric
- mouth to be fitted with a Type 2 slide fastener that shall extend along the full length of the pouch
- outer edges of slide fastener to be neatly finished off (e.g. covered with lining patches)
- raw edges of the mouth opening (applicable to front and rear panels) to be bound with webbing or binding tape
- to extend along the full width of the rectangular hinge covering (see 9.3.2)
- sewn to the fabric hinge covering, in such a way that the top edge of the pouch shall be positioned 20 – 30 mm below the top edge of the bottom half of the suitcase

#### ◆ **Elastic retainer and clip:**

- to consist of two lengths of elastic webbing clip mechanism
- cut edges of elastic webbing to be attached to the body of the suitcase at the top four corners of the bottom half by insertion into the lip element of the PVC extruded strip
- the male and female sections of the clip shall be threaded through the elastic webbing lengths respectively
- there shall be no twists in the elastic when the male and female sections of the clip are pulled toward the centre of the suitcase

#### ◆ **Telescopic trolley handle:**

- the trolley shaft shall comply with the requirements as given in 6.3.4
- securely fastened to the bottom half by means of a moulded component at the 'wheel-side' of the telescopic handle, passing through the body and moulded component at the 'handle-side' of the telescopic handle
- there shall be no moving parts of the telescopic handle inside the suitcase
- length to comply with the requirements as given in section 10

## 9.4 Pop rivets, screw and other fasteners

- ◆ shall be level with the exterior
- ◆ all moulded components shall be securely attached to the preformed suitcase halves in such a way that:
  - where pop rivets are used, they shall be level with the exterior of the suitcase body where screws, washers, nuts and alternative fasteners are used, they shall be:
    - either covered with a patch of high density foam of thickness at least 1 mm on the inside of the suitcase

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	14 of 18

- OR be countersunk into the relevant moulded component
- be covered with appropriate substance to prevent them from coming undone

## 9.5 Plastic bag

- ◆ a clear plastic pouch of nominal dimensions 260 mm x 145 mm shall be placed on the inside of each suitcase
- ◆ side and bottom edges to be heat sealed
- ◆ mouth opening to be finished with a 'zip-lock' mechanism, supplied with a slide that facilitates closing
- ◆ fitted with an information leaflet (see 9.6)

## 9.6 Information leaflet

Each leaflet to include step-by-step instructions on how the three-dial combination lock can be locked, unlock and how the combination can be changed.

# 10. Functionality/ performance

The strength of the cabin trolley suitcase 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 suitcase handle of the cabin trolley suitcase and of its attachment shall be such as to pass the test given in 5.7. of SANS 1392:2002.

The telescopic handle shall be locked when recessed (completely down position).

The telescopic handle shall have a release button to allow the telescopic handle to adjust.

The telescopic handle shall lock at least at two lengths: first locking position to be 80 cm and the second locking position to be in the range 102 cm (minimum) to 105 cm (maximum) when measured in a straight, vertical line from the ground to the top edge of the handle.

When the suitcase is fully unzipped and opened, it shall be able to lie flat on the floor.

*Wheels shall be able to withstand the following endurance test:*

- ◆ 25 km at 0.5 km/hour with intended load, i.e. 10 kg at 20 mm ramp height
- ◆ after completion, a visual assessment shall be conducted on the wheel treads, wheel alignment and wheel mounting assemblies

The centre clip attached to the elastic webbing in the bottom half of the suitcase (interior) shall fasten and release with ease, but shall stay in a locked position when the elastic webbing is extended to accommodate the maximum height of the contents of the suitcase.

# 11. Labels

Each suitcase shall be fitted with a label that is permanently secured to the interior (lining fabric).

**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 suitcase (including the markings)
- ◆ include the following information:
  - the item number
  - the manufacturer's name or trade mark or both

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	15 of 18

- the year of manufacture
- the order number

## 12. Warranty

Each suitcase 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
- ◆ abuse by the owner

**The warranty shall make provision for the following:**

- ◆ damaged components (excluding outer shell): repair or component replacement required
- ◆ damaged outer shell: new suitcase to be issued

## 13. Preparation, marking and packaging

### 13.1 Packing

**The cabin trolley suitcases 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 size
- ◆ the 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

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	16 of 18

## 13.2 Additional marking

When so required by the South African Airways, cabin 4-wheel trolley suitcases, envelopes or containers (or any combination of these) to bear information additional to that specified above.

# 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 SABS Standards Division<sup>2</sup>.

**SANS 142**, *Narrow elastic fabric and strip.*

**SANS 136:1988/ISO 1458:1988 (SABS ISO 1458)**, *Metallic coatings - Electrodeposited coatings of nickel.*

**SANS 1309**, *Printed labels for textiles.*

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

**SANS 1822**, *Slide fasteners.*

**SANS 1823**, *Touch and close fasteners.*

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

**SANS 13938-1**, *Textiles - Bursting properties of fabrics Part 1: Hydraulic method for determination of bursting strength and bursting distension.*

<sup>2</sup> SABS: Tel. +27 (0) 12 4287911  
[www.sabs.co.za](http://www.sabs.co.za)

Doc No	Item No	Date	Version	Page
SAA2003	CO97	April 2014	05.0	17 of 18

**ANNEX A**  
**(Normative)**  
**Special conditions of tender**

**A-1 GENERAL**

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

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

Five (5) sample suitcases 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 6.1.6. Name list to be supplied by SAA".

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

**A-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.**

**A-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.

**A-1.4** The suitcases 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 suitcases supplied to this specification may be in progress.

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

**A-1.6** Before acceptance, the suitcases 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 suitcases, 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
SAA2003	CO97	April 2014	05.0	18 of 18