

DRAFT TANZANIA STANDARD

DC 3 (1332) CD3 **First Edition**

Textiles — Travelling Bags – Part 2: Handbag type — Specification

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TANZANIA BUREAU OF STANDARDS

Foreword

This Draft Tanzania Standard is being developed by the Household Textile Technical Committee under supervision of the Textile and Leather Division Standards Committee and it is in accordance with the procedures of the Bureau.

This Draft Tanzania Standard has been prepared with assistance drawn from:

Ks 2746 - 2 Travel bags — Specification (First Edition) Part 2: Handbag type travel bags.

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1 Scope

This Draft Tanzania Standard specifies requirements and test methods for handbag type of travel bag made of textile fabrics, leather or plastic materials.

2 Normative References

For the purpose of this Tanzania Standard the following references shall apply:

- a) TZS 4, Rounding off numerical values.
- b) TZS 21, Textiles Woven or knitted fabrics Determination of mass per unit length and per unit area.
- c) TZS 22, Textiles Woven fabrics Determination of breaking load and extension.
- d) 27, Textiles determination of dimensional changes of fabrics by cold water immersion
- e) TZS 40, Textiles Tests for colour fastness to light: Daylight.
- f) TZS 43, Textiles Tests for colour fastness Fastness to washing: Test 1.
- g) TZS 44, Textiles Woven or knitted fabrics Determination of length and width.
- h) TZS 27
- i) TZS 138, Textile-test for colour fastness to rubbing
- j) TZS 280, Textiles Test for colour fastness Colour fastness to perspiration.
- k) TZS 531, Textiles Tests for colour fastness Colour fastness to spotting: Water.
- I) TZS 1136, Textile Zippers Specification.
- m) TZS 1425, Textile Sewing Threads Specification Sewing threads made wholly or partly from synthetic fibres.
- n) TZS 2510, Leather for upholstery Specifications.
- o) TZS 2709 Packaging Flexible Plastic Packaging Material Specification.
- p) TZS 3200, Textile Requirements for flat woven lining material.
- q) ISO 62, Plastics Determination of water absorption.
- SO180, Plastics Determination of Izod impact strength.

s) SO 527-1, Plastics — Determination of tensile properties — Part 1: General principles.

- ISO 898 -2, Mechanical properties of fasteners made of carbon steel and alloy steel Part
 2: Nuts with specified property classes Coarse thread and fine pitch thread.
- u) ISO 13936 1, Textiles Determination of the slippage resistance of yarns at a seam in woven fabrics — Part 1: Fixed seam opening method.
- v) ISO 13936 2, Textiles Determination of the slippage resistance of yarns at a seam in woven fabrics — Part 2: Fixed load method.
- w) ISO 13937 1, Textiles Tear properties of fabrics Part 1: Determination of tear force using ballistic pendulum method (Elmendorf).

- x) ISO 13938 2, Textiles Bursting properties of fabrics Part 2: Pneumatic method for determination of bursting strength and bursting distension.
- y) ISO 6383, Plastics Film and sheeting Determination of tear resistance Part 2: Elmendorf method
- z) ISO 6940, Textile fabrics Burning behaviour Determination of ease of ignition of vertically oriented specimens.
- aa) ISO 6941, Textile fabrics Burning behaviour Measurement of flame spread properties of vertically oriented specimens

3 Terms and Definitions

For the purpose of this Draft Tanzania Standard the following definitions shall apply:

3.2 travel bag

bag usually made out of plastics, leather or textile material and of specified shape and dimensions used for carrying personal belongings while travelling such as hand bag or suit case.

3.3 handbag type of travel bag

hand held type of travel bag made out of different materials and design and used to carry traveller's personal belongings.

4 Requirements

4.1 Materials

4.1.1 Textile fabric

The fabric structure shall be woven or knitted.

4.1.1.2 Fibre composition and proportion

The fibre composition of the fabric shall be of any natural or manmade textile fibre of quality as specified in this Draft Tanzania Standard.

4.1.2 Leather

4.1.2.1The grain of the leather for making up the handbag type of travelling bag shall be free from flays and grain defects that affect its appearance in accordance with TZS 2510.

4.1.2.2 The flesh side of the leather shall have been shaved and shall be free from any cuts and loose flesh.

4.1.2.3 The leather shall be firm, pliable and shall not be pipy.

4.1.2.4The colour of the leather and the nature of the grain surface (whether smooth or printed) shall be as specified in Tables 1 and 2

4.1.3 Plastics

The plastic material making up the handbag type of travelling bag shall be hardened and stiffened able to withstand strains, stresses, and deformations caused by loading, handling and changes in temperature. The plastic material shall also comply with the requirements specified in Table 2.

4.2 Constructions.

4.2.1 Foundation

The handbag type of travel bag shall be constructed on a foundation made out of plastic sheet and formed so as to assume the cuboid shape of the bag.

4.2.1 Lining

The hand bag type of travelling bag interior shall have a lining fabric complying with TZS 3200 and of a hue close to that of the panels of the suitcase.

4.2.2 Lifting handles

The handbag shall have a lifting handle made from the same material as the bag and also comply with the requirements of Table 4 when tested in accordance with the test methods specified therein.

4.2.3 Piping

The stitched seams shall be reinforced with piping made out of materials similar to that of the panels of the bag, with a core material strong enough to serve the intended purpose. The piping expressed as diameter and measured with a Vernier caliper shall comply with the requirements of Table 4 when tested in accordance with the test methods specified therein. Also see Annex A.

4.2.4 Studs

The handbag type of travel bag shall have plastic studs fixed with screws on the foundation of the face adjacent to the one housing the carriage.

4.2.5 Seams and stitches

The handbag type of travel bag shall have a front, back, bottom, top and side panels shaped and joined symmetrically with machine stitching. The bag shall also have a pocket stitched on the face panel. The stitched seams shall bear a piping complying with the specifications of Table 3. The stitches per centimetre shall be as specified in Table 1 and be tested in accordance with Annex B.

4.2.6 Sewing thread

The sewing threads used for making up the seams of the handbag type of travel bags shall be of synthetic fibre preferably polyester and comply with TZS 1425.

4.2.7 Zippers

The openings of the bag and pockets shall have zippers complying with the requirements specified in Table 1 and attached to the middle panel of the bag with a double stitch.

4.2.8 Size codes and Dimensions

The dimensions of suit case type of travel bags is as specified in Table 3. However the dimensions of the handbag type of travel bag may be upon agreement between the buyer and the seller.

4.2.9 Shoulder straps

The handbag may be provided with a shoulder strap having a suitable buckle or buckles for length adjustment and made from suitable material preferably the same material as the bag and stitched on the side panels and comply with the requirements of Tables 1, 2 and 4.

4.2.10 Carrier assembly

The hand bag may be provided with a carrier assembly with a plate fixed at the base and made from suitable material preferably hardened plastic for ease of transporting the bag by rolling. The carrier assembly shall have at least two wheels fixed on a spindle of the bag. The carrier assembly shall have a self-locking pulling handle fitted on double or single tubes at the top. The carrier assembly with its associated parts shall comply with the requirements of Table 3.

4.3 Accessories

4.3.1 Foundation

The hand bag type of travel bag shall be constructed on a foundation made out of suitable material preferably plastic sheet and formed so as to assume the cuboid shape of the bag. The characteristics of the plastic sheet shall be such that the entire internal depth and girth of the cuboid is covered and also have a thickness of not less than 0.76 cm.

4.3.2 Locks

The suit case shall have a programmable lock fixed on the plastic sheet of the foundation and operating with the pullers of the zippers. The dimensions of the locks shall be as given in table 3. Instructions for operating the programmable locks shall be provided with the suitcase bag in a legible and indelible format.

.4.3.3 Carrier assembly

The suit case type of travel bag shall have a carrier assembly with a plate fixed at the base and made from suitable material preferably hardened plastic for ease of transporting the bag by rolling. The carrier shall be fitted with wheels on a spindle or clamps at least at the four corners of the base of the suit case. The carrier shall have an adjustable and self-locking pulling handle fitted on double or single tubes at the top. The carrier and associated parts shall comply with the requirements of Table 3.

4.3.4 Fasteners

Where provided, the carrier assembly shall be fastened on the plastic sheet constituting the foundation of the hand bag type of travel bag with appropriate fasteners as specified in ISO 898-2.

4.3.5 Flammability

The burning behaviour of handbag type of travel bag fabrics shall be tested in accordance with 16 CFR Part 1610 and be of at least Class 1. See ISO 6940 and ISO 6941.

4.34 Dimensions of accessories

The dimensions of the accessories shall be as given in Table 4 when tested in accordance with the test methods specified therein.

5. Specific requirements

The specific requirements of travelling bags shall comply with the requirements specified in Table 1

Table 1 – Table of requirements

SN	Parameter	Requirement	Test Method	
1	Mass per unit area of fabric,	330		TZS 21
2	g/m ² , min Mass per unit area lining, g/m ² ,	33.1		TZS 21
3	min Stitches per cm along the seam,	2		Visual
4	min Seam strength N, min	235		ISO 13936 - 1
5	Seam Slippage N, min			ISO 13936 - 2
	Warp	100	(
	Weft	100	×S	
6.	Bursting strength, Kpa, min	160		ISO 13938 - 2
7.	Dimensional change after five washing, %	≥3	ne.	TZS 27
8.	Zipper specification	pass	<i>U</i> ,	TZS 1136
9.	Drop test based on 5-14 kg load, at 1 metre height	Pass	\mathcal{O}	Annex c
10.	Handle attachment strength, in N min.	305		Annex D
11.	Breaking strength (N), min	700		
	Warp	445		TZS 22
12	Weft	445		
12				1
	Warp	63		ISO
	Weft	52		13937-1
12	Colour fastness			
	a) Agency	Colour Change	Staining	
	b) light, min	5	NA	TZS 40
	c) to rubbing, min i) wet ii) dry	3 4	NA	TZS 138
	d) washing, min	4	NA	ISO 105:B04
	e) perspiration i) acid ii) alkali	4 4	4 4	TZS 280

Table 2 – Requirements of suitcase type of travelling bag made from plastic materials

Properties	Requirements	Test Method		
Tensile strength ,MPa, minimum	50	ISO 527-1:2019		
Water absorption, (immersion 24 hours)%	0.15	ISO 62:2008		
Tensile elongation at break, % maximum	60	ISO 527-1:2019		
Impact strength ,kJ/m ² ,Minimum	30	ISO 180:2019		
Tear resistance , kN/m	120	ISO 6383-2		

Table 3 - Size code and dimensions of handbag type of travel bag

Size Code And Characteristic		1	2	3	4	5	Test Method
Bag and	Bottom length	≤ 54	54 – 55.1	55.1 – 56.35	56.35 – 59	≥59	Annex A
front panel	Top length	≤ 54	54 – 54.66	54.66 – 55.41	55.41 – 57	≥57	
	Height	≤25.5	25.5 -28.05	28.05 – 30.95	30.95 - 37.1	≥37.1	
Bottom panel	Length	≤ 54.3	54.3 – 55.77	55.77 – 57.45	57.45 – 61	≥61	
	Width	≤ 26.1	26.1 – 27.16	27.18 – 28.41	28.41 – 31	≥31	
Top panel	length	≤ 44	44 – 45.1	45.1 - 46.35	46.35 – 49	≥49	
Side panels	Width	≤32	32 – 32.7	32.7 - 33.5	33.5 – 35.2	≥35.2	
	Top width	≤18.1	18.1 – 20.72	20.72 – 23.7	23.7 – 30	≥ 30	
	Bottom width	≤28.6	28.6 - 29.88	29.88 – 30.91	30.91 – 33.5	≥ 33.5	
	Height	≤28	28 - 30.2	30.2 – 32.9	32.9 – 38	≥ 38	

Table 4 - Dimensions of accessories of suit case type of travel bag

SN	Characteristics		Dimensions	Test Method					
1	Carrier mechanism, dimensions in cm	Bottom width	25 – 27.2	Annex A					
		Top width	19 – 19.1						
		Height	89						
2	Wheels dimension in cm	Diameter	5.2 – 5.38						
		Thickness	1.2 – 3.36						
3	Locks dimension in cm	Length	10.7 – 11.2						
		Width	2.87 – 3.16						

		Depth	0.15 – 1.5	
4	Piping, diameter ,in cm		0.3-0.6	
5	Tubes, diameter in cm	Width	1.82 – 3.2	
		Thickness	1.13 – 2.47	
6	Shoulder strap, cm	Length	153 – 160	
		Width	2-4	
7	Buckle, cm	Length	3 - 5	
		Width	2-4	11.
8	Lifting handles, cm	Span	14 – 23.7	
		Depth	2.8 - 3.5	

5.Packing

5.1 Unit Packaging

Each handbag type of travelling bag shall be wrapped with suitable material which conform to TZS 2709.

5.2 Bulk Packaging

The hand bag type of travel bags shall be wrapped with suitable material which conform to TZS 2709.

6 Marking

6.1 Unit packages

The following information shall indelibly have marked on a label sewn or marked at an appropriate position on the travelling bag

- a) Manufacturers name, address and registered trade mark;
- b) Name and description of the product;
- c) Batch number;
- d) Size code and dimensions in cm;
- e) Composition of the material of the suitcase type of travel bag
- f) Country of origin.

6.2 Bulk packages

The following information shall indelibly have labeled/printed on the bulk package;

- Manufacturer's name, address and registered trade mark; g)
- h) Suit case type of travel bag
- Number of unit packages in the bulk package; i)
- j) Gross Mass;
- k) Batch number:
- I) County of origin.

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ANNEX A (Normative) **Determination of Dimensions**

A1 Determine the dimensions of the suit case as specified in A1, A2. A3 and A4 by use of a steel rule and Vernier calliper under standard laboratory testing conditions. For details See Figures 1, 2,3 and 4

A2 Apparatus

Steel rule and Vernier calliper.

A3 Testing Condition.

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A4 Suit case dimensions

A4.1 Length

A4.1.2 Width A4.1.3 Height

A 5 Locks

- A5.1 Width
- A5.2 Length
- A5.3 Depth

A 6 Carrier Assembly

- A6.1 Pulling handle Mechanism
- A6.1.1 Length
- A6.1.2 Width
- A6.2 Wheels
- A6.2.1 Diameter
- A6.2.2 Width
- A6.3 Tubes
- A6.3.1 Width
- A6.3.2 Thickness

A7 Lifting handles

A7.1 Span A7.2 Depth A8 Straps A8.1 Length A8.2 Width

A9 Carrier assembly

A9.1 Puling handle mechanism

A9.1.1 Height A9.1.2 Width

A10 Wheels

A10.1 Diameter A10.2 Thickness

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ANNEX B (Normative) Determination of Stitches per cm

B1 Count the number of stitches along a seam length of known distance in centimetres and determine the number of stitches per centimetre.

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ANNEX C (Normative) Drop test (Life Performance)

C1 Procedure

A handbag type of travelling bag of specified dimensions (see table C1) is loaded with relevant personal items of mass (5 – 14kg) collated with the size of bag. The loaded bag is dropped from the edge of a bench, 1-metre-high, to a flat floor. The drop test is repeated 10 times. After the test, the tested bag is examined; the stitches and seams shall not open and the locks, handles and carrier assembly, shall not break or come out of their positions.

SN	Back and front panels, cm		Bottom panel, cm		Top panel, cm		Side panels, cm			Carrying capacity kg	
	Top length	Bottom length	height	Length	width	length	width	Bottom width	Top width	Height	
1	54 – 54.66	54 – 55.1	25.5 – 28.05	54.3 – 55.77	56.1 – 27.18	44 – 45.1	32 – 32.7	28.6 – 29.68	18.1 – 20.72	28 – 30.2	5 – 6.98
	54.66 – 55.41	55.1 – 56.35	28.08 - 30.95	55.77 – 57.45	27.18 – 28.41	45.1 – 46.35	32.7 – 33.5	29.68 – 30.91	29.68 – 30.91	30.2 – 32.9	6.98 – 9.23
	55.41 - 57	56.35 - 59	30.95 - 37.1	57.45 - 61	28.41 - 31	46.35 - 49	33.5 – 35.2	30.91 – 33.5	30.91 – 33.5	32.9 - 38	9.23 - 14

Table C 1: Preferred suit case dimensions related to carrying capacity

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ANNEX D (Normative) HANDLE ATTACHMENT STRENGTH

D1 The travel bag handle shall be securely fixed in an inverted position on a rigid support, leading the handle free for applying the load. The handle shall be suitably harnessed to distribute the load applied over the entire handle. A load of 100 N (10Kgf) shall be applied suddenly to the handle and repeated 10 times.

D2 The weight may be applied either by means of a spring balance or weights, suitable placed on

ed in fittings method