



First Edition

DRAFT TANZANIA STANDARDS

Leather garments sizing - Code of practice

Draft for Stakeholders' Comments Only

Foreword

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

This document will provide a harmonized code of practice for leather garment sizing and marking. Leather garments differ from textile apparel due to limited elastic recovery, variable thickness, and finishing processes that influence dimensional stability. This Draft Tanzania Standard defines size designation, measurement methods, ease allowances, tolerances, and labelling for leather garments to improve fit consistency, reduce returns, and facilitate trade.

In the preparation of this Draft Tanzania Standard the reference was derived from:

ES 6855: 2021 Leather garment sizing-Code of practice prepared by Institute of Ethiopian Standards.

1. Scope

This Draft Tanzania Standard specifies requirements for size designation, measurement procedures, dimensional tolerances, grading, labelling/marking, and verification for leather garments including jackets, coats, vests, trousers, skirts, dresses, and one-piece suits.

2. Normative References

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

TZS 693-1 *Textile-Size designation of clothes — Part 1: Anthropometric definitions for body measurement*

TZS 695 *Textiles-Size designation of clothes – Definitions and body measurements procedure*

TZS 692 *Textiles-Guide for care labelling of textiles, laundering and dry-cleaning*

TZS 190 Leather - Methods of sampling

3. Terms and definitions

For the purposes of this Draft Tanzania Standard, the terms and definitions in TZS 693-1 and TZS 695 apply, together with the following:

3.1 ease allowance: difference between corresponding garment and body measurement to allow comfort and movement.

3.2 primary dimension: body measurement used to designate the base size of a garment category.

3.3 secondary dimension: additional body measurements that refine fit such as stature, hip, sleeve and length

3.4 stature: body height without shoes.

3.5 leather garment: garment whose outer shell surface area is $\geq 80\%$ leather or split leather; includes bonded leather laminates.

3.6 fit category: intended silhouette (Slim, Regular, Relaxed), each with defined ease bands.

4. Symbols and abbreviations

1. B: Bust girth (cm)
2. C: Chest girth (cm)
3. W: Waist girth (cm)
4. H: Hip girth (cm)
5. S: Stature/height (cm)
6. IL: Inside leg (inseam) (cm)

SL: Sleeve length (neck base to wrist) (cm)

5. Sizing system- General principles

5.1 Size designation shall be numeric and based on the primary body dimension plus stature in centimetres such as Primary–Stature (100–176).

5.2 Optional consumer-facing alphanumeric conversion (XS–XXXL) may be provided but shall map uniquely to the numeric designation (Annex E).

5.3 Garment categories and primary/secondary dimensions: - Jackets/Coats/Vests (men/unisex): Primary C; Secondary S, W, SL. - Jackets/Coats (women): Primary B; Secondary S, W, H, SL. - Trousers (men/ women): Primary W; Secondary H, IL, S. - Skirts (women): Primary W; Secondary H, S. - Dresses (women):

- a) Primary B; Secondary W, H, S. - One-piece suits (motorcycle/leisure): Primary C (men) or B (women);
- b) Secondary S, H, IL, SL.

6. Body measurement procedures

6.1 Conditioning: Subjects measured in light undergarments, barefoot, standing upright.

6.2 Instruments: Flexible non-stretch tape (± 0.5 cm accuracy), stadiometer for S.

6.3 Repeatability: Take two readings; if $|\Delta| > 0.8$ cm, take a third and record the median.

6.4 Recorded set: {C or B, W, H, S, SL, IL as applicable}.

6.5 Record units exclusively in centimetres

7. Ease allowances for leather garments

Leather exhibits limited stretch and variable thickness. Ease shall be applied per garment type and fit category. The methods of measurement shall be conducted as indicated in Tzs 693-1: Textile-Size designation of clothes — Part 1: Anthropometric definitions for body measurement

7.1 Jackets/Coats/Vests (outerwear)

Fit category	Chest/bust easy (cm)	Waist ease (cm)	Hip ease (cm)	Sleeve bicep ease (cm)
Slim	+8 to +10	+4 to +6	+4 to +6	+4 to +5
Regular	+10 to +14	+10 to +14	+6 to +8	+5 to +6
Relaxed	+14 to +18	+8 to +12	+8 to +12	+6 to +7

7.2 Trousers/skirts

Fit category	Waist ease (cm)	Hip ease (cm)	Thigh ease (cm)
Slim	+3 to +4	+4 to +6	+3 to +4
Regular	+4 to +6	+6 to +8	+4 to +6
Relaxed	+6 to +8	+8 to +10	+ 5 to +6

7.3 Dresses

Fit category	Bust ease (cm)	Waist ease (cm)	Hip ease (cm)
Slim	+6 to +8	+4 to +6	+5 to +7
Regular	+8 to +12	+6 to +8	+7 to +9
Relaxed	+12 to +16	+8 to +12	+9 to +12

Note: Add layering ease (+2 to +4 cm chest/bust) if the garment is intended for cold-weather underlays. For perforated/soft nappa, lower bounds may be used; for stiff veg-tan or padded garments, use upper bounds.

8. Dimensional tolerances for finished garments

Unless otherwise agreed to between the buyer and seller, the following tolerances apply after conditioning at 20 ± 2 °C and 65 ± 4 % RH for 24 h:

1. Girth measurements (C/B/W/H): ± 1.5 cm- Length measurements (SL, IL, back length): ± 1.0 cm
2. Small components (collar, cuffs, waistband): ± 0.5 cm
3. Symmetry deviations left vs right: ≤ 0.7 cm
4. Pattern matching/alignments at seams: ≤ 0.5 cm offset

9 Size designation format and marking

9.1 Mandatory: Numeric designation Primary–Stature

9.2 Secondary markers (where offered): Short (S), Regular (R), Long (L) proportional lengths tied to stature bands (Table 1).

9.3 Label content (durable label or print): - Size designation (numeric) and mapped alpha size (optional)

1. Body measurement basis (e.g., Primary = Chest, cm)
2. Fit category (Slim/Regular/Relaxed)
3. Stature band.

4. Care symbols per TZS 692
5. Country/region of sizing base (e.g., Size based on national anthropometry dataset)

10. Stature bands and proportional lengths

Code	Stature band s (cm)	Sleeve adj. vs base (cm)	IL adj. vs base (cm)	Back length adj. vs base
S (Short)	164-171	-2.0	-2.0	-2.0
R (Regular)	172- 180	0.0	0.0	0.0
L (long)	181-188	+2.0	+2.0	+2.0
XL(Extra Long)	189-196	+3.0 to +4.0	+ 3 to +4.0	+3.0 to +4.0

NOTE: Manufacturers may add an XS (Extra Short) band 158-163 cm depending on obtained market data.

11 Grading rules (pattern grading)

11.1 Grade increments- girths

1. Chest/Bust: 4 cm between adjacent sizes such as 92, 96, 100 and 104
2. Waist: 4 cm (men's jackets), 3–4 cm (women's tops/dresses), 4 cm (trousers/skirts).-
3. Hip: 4cm.

11.2 Grade increments — lengths

Body length: 1.0 cm per size up; sleeve length: 0.7–1.0 cm per size; trouser IL: 0.7–1.0 cm per size (independent of stature bands).

11.3 Distribution of grade

1. Distribute girth increments proportionally at key points (front/back/side seams) to maintain balance; avoid over-loading front panels in heavy leathers.
2. Maintain armhole and scye balance; expand bicep by 0.6–0.8 cm per size for outerwear.

11.4 Leather-specific adjustments

1. For thick or padded constructions, add ease compensation at elbows and knees (+0.5–0.8 cm per size at articulation seams).
2. For stretch-leather blends, reduce ease by 10–20% depending on stretch percent and recovery.

12. Sample size and criteria for conformity

The scale of sampling and criteria for conformity of the material to this Draft Tanzania Standard shall be as prescribed in TZS 190 or (AQL 2.5 typical) or agreed plan.

12.1 Measurement method

Place garment flat without tension; measure along seam landmarks defined in Annex A.

12.2 The criteria for Conformity

A unit passes if all key points are within tolerance (Clause 8) and label matches measured designation within Annex B/C tables.

12.3 Dimensional stability

For leather–textile composites, verify after cleaning cycle per care label, $|\Delta| \leq 1.5\%$ on length dimensions.

13. Marking

The packages for the garment shall be marked with the following;

- a) Brand-specific size charts mapping numeric to alpha sizes, and cm to inches.
- b) Provide self-measurement instructions with diagrams (Annex A).
- c) For e-commerce, display: primary and secondary measurements, fit category, stature band, and garment have finished measurements at key points.

Annex A (informative)

Body and garment measurement methods

A-1 Chest/ Bust (C/B): Horizontal at fullest part; tape parallel to floor.

A-2 Waist (W): Natural waistline (narrowest torso point).

A-3 Hip (H): Around the fullest buttock level.

A-4 Sleeve length (SL): From neck base (7th cervical vertebra) over shoulder to wrist bone with elbow slightly bent (15°).

A-5 Inside leg (IL): Crotch to floor along inner leg.

A-6 Back length: Neck base to hem along center back.

A-7 Garment landmarks: Chest width 2.5 cm below armhole; waist at pattern waistline; hip 18–20 cm below waist (women) or 10–12 cm (men) unless otherwise specified.

Annex B (informative)

Reference size table: Men's leatherjackets/coats (Regular fit, R stature)

Primary dimension C (cm); Stature 172–180 cm. Finished garment targets reflect Clause 7 ease midpoints.

Numeric size (C-S)	Chest body C	Finished chest	Waist body W	Finished waist	Hip body H	Finished hip	Back length	Sleeve length
92-176	92	104	80	88	94	102	64	63.5
96-176	96	108	84	92	98	106	65	64.2
100–176	100	112	88	96	102	110	66	65.0
104–176	104	116	92	100	106	114	67	65.8
108–176	108	120	96	104	110	118	68	66.66
112–176	112	124	100	108	114	122	69	67.4

Note: Adjust lengths per Clause 10 for S/L/XL stature bands

Annex C (informative)

Reference size table: Women's leather jackets/coats (Regular fit, R stature)

Primary dimension B (cm); Stature 160–168 cm (typical women's R band)

Numeric size (B–S)	Bust body C	Finished bust	Waist body W	Finished waist	Hip body H	Finished hip	Back length	Sleeve length
84–164	84	96	66	74	90	98	58	60.0
88–164	88	100	70	78	94	102	59	60.7
92–164	92	104	74	82	90	106	60	61.4
96–164	96	108	78	86	102	110	61	62.1
100–164	100	112	82	90	106	114	62	62.8
104–164	104	116	86	94	110	118	63	63.5

Annex D (informative)

Reference size table: Trousers (unisex grading, Regular fit, R stature)

Primary dimension W (cm); Stature 172–180 cm (men) / 160–168 cm (women)

Numeric size (W–S)	Waist body W	Finished waist	Hip body H	Finished hip	IL (base)
76–176	76	80	92	100	79
80–176	80	84	96	104	79.7
84–176	84	88	100	108	80.4
88–176	88	92	104	112	81.1
92–176	92	96	108	116	81.8
96–176	96	100	112	120	82.5

NOTE: Adjust IL per Clause 10 stature bands and hems per style.

Annex E (informative)**Alpha size mapping (illustrative, brand shall calibrate)**

Numeric(Men's jacket)	Numeric(Women's jacket)	Alpha
92-176	84-164	XS
96-176	88-164	S
100-176	92-164	M
104-176	96-164	L
108-176	100-164	XL
112-176	104-164	XXL

Annex F (informative)**Fit category adjustments (to apply to Annex B-D tables)**

F-1 Slim: Reduce chest/bust -2 cm, waist -2 cm, hip -2 cm; narrow sleeve and thigh by -0.5 cm; body length -0.5 cm.

F-2 Relaxed: Increase chest/bust +3 cm, waist +3 cm, hip +3 cm; expand sleeve and thigh +0.7 cm; body length +0.5–1.0 cm.

Annex G (informative)**Patternmaker's checklist**

G-1 Confirm primary dimension and stature band

G-2 Apply fit category ease (Clause 7).

G-3 Set grade rules (Clause 11) and verify armhole/sleeve bicep scaling.

G-4 Validate balance: shoulder, pitch, front/back length.

G-5 Add leather-specific allowances at elbows/knees.

G-6 Confirm hem turn allowances given leather thickness.

G-7 Verify lining, interlining, and padding interactions.

G-8 Prototype fit on reference model; record finished measurements.

G-9 Enter target measurements and tolerances into tech pack.

G-10 Freeze pattern version and control revisions.