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Specification for carpets

Part 1. Tufted carpets

PUBLIC REVIEW DRAFT

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Kenya Textile Training Institute (KTTI)
Mount Kenya Textiles Ltd.
East Africa Bag & Cordage
Rift Valley Textiles Ltd.
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Part 1. Tufted carpets

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Foreword

This Part 1 of this Kenya Standard was prepared by the Technical Committee on Textile Floor/Wall Coverings and Furnishings under the guidance of the Textile Industry Standards Committee, and it is in accordance with the procedures of the Bureau.

The standard specifies minimum requirements for tufted carpets used for covering floors.

In the preparation of this standard, reference was made to the following documents:

JIS L4405-1982 Tufted carpets.

IS 5884-1970 Specification for wool tufted carpets.

Acknowledgement is hereby made for the assistance derived from these documents.

PUBLIC REVIEW DRAFT

KENYA STANDARD

1.0 SCOPE

This Part 1 of KS 779 Specifies the requirements for tufted carpets to be used in floor coverings.

2.0 Normative References:

The following standards were used as normative references.

KS ISO 105-B01:2014- Textiles — Tests for colour fastness — Part B01: Colour fastness to light: Daylight

KS ISO 105-B02:2014- Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test

KS ISO 105-X12:2016-Textiles — Tests for colour fastness — Part X12: Colour fastness to rubbing

KS 776:1987-Glossary of terms relating to burning behaviour of textile and textile products

KS 835-2:1989- Methods for test for textile floor coverings - Part 2: Determination of constructional details

KS 835-3:1988- Methods of test for textile floor coverings - Part 3: Determination of delamination strength of secondary backing

KS 835-4:1989- Methods of test for textile floor coverings - Part 4: Determination of burning behaviour

KS 835-7:1990-Method of test for textile floor Coverings-Part 7: Determination of turf withdrawal force

KS 835-9:1988- Methods of test for textile floor coverings - Part 9: Determination of colour fastness to shampooing

KS ISO 10361:1990-Textiles floor covering - Production of changes in appearance by means of Vettermann drum and Hexapod tumbler testers.

KS ISO 1833-Textiles — Quantitative chemical analysis (all parts)

KS ISO 2424:2007: Textile floor coverings — Vocabulary

3.0 Definitions

For the purposes of this Kenya Standard, the definitions given in KS ISO 2424 and KS 08-776 shall apply.

4.0 TYPES OF PILE

The piles of tufted carpets shall be classified into the five types described below by shape:

- (i) cut pile;
- (ii) combined cut pile and loop pile;
- (iii) level loop pile;
- (iv) unlevel cut pile;
- (v) any other pile combinations

5.0 REQUIREMENTS

5.1 Materials

5.1.1 The fiber composition of pile yarn should be as declared. Blended pile yarns shall be as declared on the label marking subject to a tolerance of ± 5 per cent. This shall be tested in accordance with the relevant part of KS ISO 1833.

5.1.2 Pile yarns shall not contain recovered wool.

5.2 Tuft Withdrawal Force

The tuft withdrawal force of pile yarns shall comply with the requirements given in Table 1. This shall be tested in accordance with KS 08-835: Part 7.

TABLE 1. TUFTED WITHDRAWAL FORCE REQUIREMENTS

NEEDLE GAUGE	TUFT WITHDRAWAL FORCE IN NEWTONS (Min.)
12.7 mm $\left(\frac{1}{2}\right)$	35
4.76 mm $\left(\frac{3}{16}\right)$	29.4
3.97 mm $\left(\frac{5}{32}\right)$	24.5
3.18 mm $\left(\frac{1}{8}\right)$	19.6
2.54 mm $\left(\frac{1}{10}\right)$	14.7
1.98 mm $\left(\frac{1}{64}\right)$	9.8

5.3 Delamination Strength

The delamination strength of secondary backing materials shall be not less than 0.5 N/mm. However, if the tufted carpets are lined with a non-textile backing or if they are not lined at all, they are exempted from this requirement. The delamination strength shall be tested in accordance with KS 08-835⁽⁵⁾ Part 3.

5.4 Colour Fastness

The colour fastness requirements of the pile yarns shall be as given in Table 2.

TABLE 2. COLOUR FASTNESS REQUIREMENTS

AGENCY	NUMERICAL RATING (Min.)	TEST METHOD
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Light	5	KS ISO 105 BO1 KS ISO 105 BO2
Dry rubbing	4	KS ISO 105 X12
Wet rubbing	3	KS ISO 105 X12
Shampooing	3	KS 08-835 Part 9

5.5 Burning Behavior

The burning behavior of tufted carpets when exposed in a horizontal position shall be as given in Table 3.

This shall be tested in accordance with KS 08-835: Part 4

TABLE 3. BURNING BEHAVIOUR

PARAMETER	REQUIREMENT
Damaged length in millimetres, (max)	100
Flame spread time in seconds, (min)	20

5.6 Mass of Pile

The requirements of the mass of effective pile per unit area that can be shorn away from the substrate shall be as specified in Table 4. This shall be tested in accordance with KS 08-835: Part 2, Clause 6.

TABLE 4. MASS OF PILE REQUIREMENTS

FIBRE COMPOSITION	TYPE OF PILE (Clause 4.0)	MASS IN g/m ² (Min.)
Wool and wool blends	All	800
Others	Level loop pile	380
	Others	500

5.7 Wear

The wear of tufted carpets due to impact, friction and pressure shall be as given in Table 5. This shall be tested in accordance with KS ISO 10361

TABLE 5. WEAR REQUIREMENTS

FIBRE COMPOSITION	TYPE OF PILE (Clause 4.0)	PER CENT LOSS IN THICKNESS AT 13 000 REVOLUTIONS (Max.)	PER CENT LOSS IN MASS AT 13 000 REVOLUTIONS (Max.)
Wool and wool blends	Level loop	25	16
	Others	30	
Others	Level loop	25	12
	Others	30	

5.8 Pile Height

The pile height above primary backing of tufted carpets shall be not less than 5 mm. This shall be tested in accordance with KS 08-835: Part 2 Clause 7.

5.9 Dimensional Tolerances

In case of carpets sold as piece goods (for example, broad loon and body carpet) a tolerance of ± 2 per cent on declared value of width shall be permitted. In case of carpets sold as squares and rugs, a tolerance of ± 2 per cent on declared values of length and width shall be permitted.

The dimensions shall be tested in accordance with KS 08-835: Part 2.

6. PACKAGING

6.1 The tufted carpets shall be rolled and tied securely to form a compact roll.

6.2 The rolled carpets or rugs shall be wrapped in such a manner so as to avoid damage and soiling.

7. MARKING

The tufted carpets shall bear the following information in legible and indelible marking on a label securely attached to each piece or roll:

- (i) manufacturer's name, address or registered trade mark;
- (ii) the marking 'Tufted Carpet';
- (iii) type of pile;
- (iv) fibre composition and proportion of pile material;
- (v) length and width dimensions in metres or centimetres;
- (vi) net and gross mass in kilograms;
- (vi) year of manufacture.
- (vii) country of manufacture