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Specification for carpets

Part 3. Woven carpets

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Second Edition 2020

PUBLIC REVIEW DRAFT

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Specification for carpets

Part 3. Woven carpets

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Foreword

This Part of KS 779 has been prepared by the Technical Committee on Textile Floor Coverings under the direction of the Textile Industry Standards Committee and it is in accordance with the procedures of the Bureau.

Weaving is the traditional method of making carpets and woven carpets still retain a reasonable share in the carpet industry due to their unique qualities.

This Part of this Kenya Standard specifies minimum requirements of woven carpets for domestic, contract and other uses.

During the preparation of this Part of this standard reference was made to the following documents:

JIS: L4404: 1997 Woven carpets.

SANS 1375 :2012 Specification — Textile floor coverings (pile construction).

Acknowledgement is hereby made for the assistance received from the above sources.

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SCOPE

This Part of KS 779 Kenya Standard specifies the requirements for woven carpets to be used as floor coverings.

1.0 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 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 835-7:1990-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 1833-Textiles — Quantitative chemical analysis (all parts)

KS ISO 2424:2007: Textile floor coverings — Vocabulary

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

3.0 Definitions

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

4.0 Classification

The carpets shall be classified into the following four types according to the type of pile.

4.1 Cut pile carpet

4.2 Loop pile carpet

4.3 Cut and loop pile carpet

4.4 Woven carpet without pile

5 Requirements

5.1 Tensile strength

The tensile strength of carpet shall be a minimum of 1000 N in both warp and weft directions. This shall be tested in accordance with KS ISO 13934-1

5.2 Pulling resistance of pile yarn

The pulling resistance of pile yarn shall be not less than 4.5 N. This shall be tested in accordance with KS 08-835 Part 7

5.3 Wear

The wear of woven carpets due to impact, friction and pressure shall be as given in Table 1.

Table 1 — Wear of carpets

Type of pile	Percentage loss in thickness at 13 000 rev. (max.)	Percentage loss in mass at 13 000 rev. (max.)
Cut pile	35	15
Loop pile	25	15
Cut and loop pile	35	15

The wear of carpets shall be tested in accordance with KS ISO 10361.

5.4 Colour fastness

The colour fastness of the pile yarn or use surface where there is no pile shall be as given in Table 2.

Table 2 — Colour fastness requirements

Agency	Numerical rating (min.)	Test method
Light	5	KS ISO 105 B01 or KS ISO 105 B02
Dry rubbing	4	KS ISO 105 X12
Wet rubbing	3	
Shampooing	3	KS 08-835 Part 9 ^{c)}

5.5 Fibre composition

The fibre composition of the pile yarn (or use surface where there is no pile) shall be as declared subject to a tolerance of $\pm 5\%$ for blends. The fibre composition shall be tested in accordance with relevant part of KS ISO 1833

5.6 Dimensions of carpet

The dimensions of carpet roll or piece shall be as declared subject to the tolerances given in Table 3. The dimensions shall be tested in accordance with KS 835-2

Table 3 — Dimensional tolerances

Dimension	Tolerances, percentage (max.)
Length or Width	+2
	-1

5.7 Mass of pile

The mass of the pile or the standing portions of piles shall be as specified in Table 4.

Table 4 — Mass of pile

Fibre	Mass in g/m ² (min.)
Wool	650
Acrylic, including modacrylic	620
Polyester	650
Nylon	500
Polypropylene	450

NOTE In case of blends the total mass of pile shall be worked out from the contributing proportions of the fibre composition of the pile.

The mass of pile shall be tested in accordance with KS 08-835⁷⁾ Part 2, Clause10.

5.8 Pile density

The piles shall be distributed evenly with the density as given in Table 5.

Table 5 — Pile density

<i>Direction</i>	Number of piles per 10 cm (min.)
Warp	31
Weft	30

6 Packing

6.1 Carpets shall be rolled and securely packed to form a compact roll. The rolled carpets shall be wrapped with a suitable material so as to avoid damage and soiling.

6.2 Where carpets are sold as tiles, tiles of the same fibre composition, colour and pile type shall be packed together in suitable boxes.

7 Marking

7.1 Carpet rolls

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

- a) manufacturer's name, address or registered trade mark;
- b) the marking "Woven Carpet";
- c) type of pile, if any;
- d) fibre composition and proportion of pile material or use surface;
- e) length and width dimensions in metres or centimetres;
- f) mass in kilograms;
- g) country of manufacture;
- h) batch or lot number.

7.2 Boxes of tiles

The following information shall appear in legible and indelible marking on each box of tiles:

- a) Manufacturer's name, address or registered trade mark;
- b) the words "Woven Carpet Tiles";
- c) type of pile, if any;

- d) fibre composition and proportion of pile material or use surface;
- e) quantity of tiles;
- f) batch number or lot number;
- g) length and width dimensions in centimeters, of each tile;
- h) country of manufacture.

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