FDUS 1918

FINAL DRAFT UGANDA STANDARD

First Edition
2018-mm-dd

Furniture — Wooden beds for use with mattress — Specification

Reference number
FDUS 1918:2018

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Foreword

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Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

The committee responsible for this document is Technical Committee UNBS/TC12, *Furniture*.

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Furniture — Wooden beds for use with mattresses — Specification

1 Scope

This Final Draft Uganda Standard covers requirements for materials, sizes, construction and finish of residential type wooden beds for use with mattresses for adults excluding rural cots, hospital beds, sofa-cum-beds and folding beds.

2 Normative references

The following referenced documents referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies

ISO 13609, *Wood-based panels — Plywood — Blockboards and battenboards*

ISO 19210, *Adhesives — Wood adhesives for non-structural applications — Determination of tensile shear strength of lap joint*

ISO 25537,Glass in building -- Silvered, flat-glass mirror

US ISO 4211 (all parts), *Furniture — Tests for surfaces finishes*

US ISO 12465, *Plywood — Specification*

US 839, *Particleboards — Specification*

3. Terms and Definitions

For the purposes of this document, the terms and definitions given in US 1795 apply.

4 Types

Wooden beds for household use shall be of the following two types:

a) single-bed, and

b) double-bed.

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5 Materials requirements

5.1 Particleboard

Unveneered particleboard required for the manufacture of wooden beds shall conform to US 839, and shall be of flat-pressed single-layer or flat-pressed three-layer type. Wood particleboard used for wooden beds shall be finished with baking paints or enamel finishes shall be manufactured with only BWR type of adhesives, such as, phenol formaldehyde synthetic resins.

5.2 Veneered particleboard

Veneered particleboard shall be of both interior and exterior grades of veneered particleboard which can be used where the beds are to-be finished with air-drying paints or varnishes. Where suitable baking paints, enamels or varnishes are to be used, only exterior grade veneered particle board shall be used. Veneered particleboard for wooden beds for Class I and Class 2 type decorative shall be with decorative teak or other decorative timber veneered surface.

5.3 Blockboard

Blockboards used in the manufacture of wooden beds shall conform to ISO 13609 and shall be of Grade 1 or Grade 2 where air-drying finishes are adopted and Grade 1 only where suitable open-drying finishes are adopted in the manufacture of beds.

5.4 Plywood

Plywood used in the manufacture of wooden beds shall conform to US ISO 12465.

5.5 Solid wood components

Any of the species of timber recommended for furniture and cabinet shall be used in the manufacture of beds. The wood used shall be seasoned timber with moisture content of not more than 15 %.

5.6 Decorative plastic laminates

Decorative plastic laminates used shall be the design and finish as prescribed by the purchaser.

5.7 Adhesive

Adhesive used for joinery work shall conform to ISO 19210.

5.8 Bolts and nuts

Bolts and nuts and other hardware shall conform to the relevant Uganda Standards wherever they exist.

5.8 Paints, enamels, polish and varnish

These shall conform to the relevant Uganda Standards, where ever they exist, for air-drying as well as stoving finishes.

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6 Dimensions and tolerances

6.1 Dimensions

The overall internal dimensions of the single and double bed shall be as given in Table 1 and as illustrated in Figure 1.

S/No.	Parameter	Dimensions mm	
		Single bed	Double bed
i.	Height, from floor to the top of the bedside rail mattress	360 - 450	360 - 450
ii.	Clear in-bed length between head boards and the foot boards	1 900 - 2 000	1 900 - 2 000
iii.	Width	915, 1069	1220, 1525 and 1830

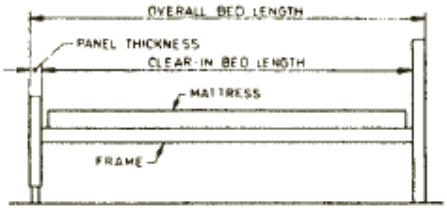

FIG. 1 TYPICAL SKETCH OF A WOODEN BED

6.2 Tolerances

6.2.1 The overall internal dimensions specified in 6.1 shall not vary by more than ± 10 mm.

6.2.2 The wooden bed shall be rectangular at all the measurable surfaces within a tolerance of ± 5 mm between the two diagonals of the rectangle.

7 Construction

7.1 Components

Wooden beds shall be first made in the component forms and then assembled from the components as given in 7.2 to 7.4.

7.2 Head and foot boards

The head and foot boards shall be made from wood, particleboard or veneered particleboard or blockboard or plywood panels as specified in Clause 5 and shall be in thickness of 20 mm or 25 mm ± 1mm, In case of unveneered and veneered particleboards and blockboards, teakwood or other durable hard wood lipping of not less than 10 mm width shall be provided by gluing in at the time of veneering. If agreed by the customers, unlipped head and foot boards of blockboard, unveneered and veneered particleboards shall be supplied but the edges should be scaled with good wood putty or filler. For beading PVC, plywood or veneer strips shall be used with suitable adhesive for joining.

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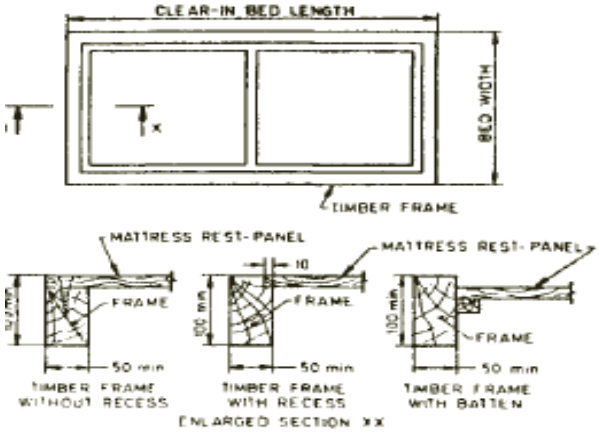
7.3 Mattresses rest panel

Bed tops shall be made from, plywood as specified in 5.4 and shall be of thickness 8 mm for single beds and 12 mm for double beds. The mattress rest-panel shall be fixed on the frame, or alternatively cut 10 mm short all round in case this is to be fixed into a recess prepared in the timber frame.

NOTE A minimum of five supports should be fixed with screws at the bottom of the rest panel. Otherwise the thickness of rest panel should be increased to 12 mm.

7.4 Frame

The frame made from wood according to 5.5 shall consist of two side rails and two ends rails joined by tenon and mortice joint. Half lap joint shall be rectangular in shape. The rails shall be of minimum section 100 mm x 40 mm for single beds and 150 mm x 40 mm for double beds, and the frame shall be of length and width to cover the inner dimensions of the top. The frame may have a recess cut on the top inner-side to the depth of mattress rest panel and minimum 10 mm wide in case the bed top panel is to be screwed into the recess prepared in the timber frame (see Figure 2).



All dimensions in millimetres.

FIG. 2 ALTERNATIVE METHODS OF FIXING MATTRESS REST PANEL WITH FRAME

7.5 Legs

The legs shall be made of solid wood as referred in 5.5 and shall be round or square in shape. It shall be joined to the head wood as referred in 5.5 and shall be round or square in shape. It shall be joined to the head and foot boards with suitable joints after applying glue and fixed rigidly with screws or bolts and nuts.

8 Assembly

The various components shall be assembled by means of bed fittings, bolts and nuts or screws securely fixed under pressure. Before driving screws: pilot holes should. be driven into the wood panels and the screws should be dipped In glue before driving in the head and foot boards as specified in 7.2.

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9 Finish

For finishing, the surfaces shall be waxed, French polished, varnished or painted. Clear lacquer melanine resin based paint or polyurethane paint, when used, shall be applied according to the manufacturer's instructions.

10. Performance Requirements of Finish

10.1 General

Every bed shall be checked for good workmanship and shall be free from any stain and warp.

10.2 Resistance to dry heat

The test sample surface shall be tested for resistance to dry heat in accordance with US ISO 4211.

10.3 Resistance to wet heat

The test sample surface shall be tested for resistance to wet heat in accordance with US ISO 4211.

10.4 Resistance to marking by liquids

The test sample surface shall be tested for resistance to marking by liquid in accordance with US ISO 4211.

10.5 Resistance to mechanical damage

The test sample surface shall be tested for impact, cross-cut and scrape tests in accordance with US ISO 4211.

11 Packing

11.1 All the component parts shall be packed after wrapping with water-proof material in such a way that no damage is caused to them during transit.

11.2 The purchaser may require the wooden battens to be supplied in knocked down condition, in which case, the manufacturer shall prepare the components fully for quick joining and shall supply the purchaser complete illustrated details and instructions for assembly and pack the components in wooden crates after wrapping with waterproof packing material.

12 Marking

All wooden beds shall be legibly and indelibly marked with the name, address or his recognized trade-mark, name of the product and country of origin. This shall be legible and in indelible ink

13 Information to be supplied by the Purchaser

The purchaser shall supply the following information to the supplier along with the order:

a) for non-teak bed, the species of timber shall be specified:

b) type and size of bed;

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c) finish required, colour thereof and any optional fixtures: and

d) where alternative methods of construction or finish are specified, the same shall be clearly stated in the order.

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Bibliography

IS 7259-1, *Specification for wooden beds — Part 1: For use with mattresses*

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