

Wood mosaic parquet — Specification

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Public Review Draft

TECHNICAL COMMITTEE REPRESENTATION

The following organizations were represented on the Technical Committee:

- 1 Kenya Wood Products
- 2 Timsales Limited
- 3 University of Nairobi (Department of Architecture and Building)
- 4 Wood Products (k) ltd
- 5 PG Bison
- 6 J.K.U.A.T (Civil Engineering Department)
- 7 Ministry of Roads (Materials Testing Laboratory)
- 8 Kenya Bureau of Standards — Secretariat

REVISION OF KENYA STANDARDS

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Foreword

This Kenya Standard was prepared by the Plywood and boards Technical Committee under the guidance of the Standards Projects Committee, and it is in accordance with the procedures of the Kenya Bureau of Standards.

This is the second edition of this standard. The changes done in this edition is on the number of fingers in the component module. While the first edition did restrict the number of fingers in a component module to five this edition allows for diversity thus enabling maximum use of waste material from other manufacturing process.

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1 Scope

This Kenya Standard Specifies the requirements, for materials, dimensions and physical characteristics of wood parquet panel used for flooring.

2 Definitions

For the purpose of this Kenya Standard the following definitions shall apply.

2.1 Mosaic finger

A small solid wood component of regular form with machine planed edges, fine sawn or planed faces and fins sawn ends.

2.2 component module

An assembly of mosaic fingers placed edge to edge, to form a square or shapes, (see figure 1)

2.3 wood mosaic panel

A single layer of component modules, pre-assembled and held together to form a panel or tile (see Figure 2)

2.3 Hob hails

Small separated markings occurring in lines several inches long.

3. Materials

3.1 Timber

The fingers for mosaic parquet shall be manufactured from any one suitable species of timber that has the strength to withstand the constant wear and tear for the purpose required.

3.2 Adhesives

The adhesives used in the manufacture of mosaic parquet shall conform to KS 03 – 509* and in particulars:

- (i) Shall be alkali resistant,
- (ii) Solvent and water content shall not exceed 40 per cent,
- (iii) Average shear strength obtained when cured shall not be less than 1470 kpa,
- (iv) The adhesives shall have sufficient elasticity to withstand continuous expansion and contraction of mosaic fingers.

NOTE: Wood mosaic parquet installed with an adhesive having water content higher than 40 percent will expand excessively because of moisture absorption by the mosaic fingers. After curing of the adhesives such mosaic fingers will then shrink. The adhesive must have an aging characteristic consistent with the expected life of the floor.

4. Requirements

4.1 Moisture content

4.1.1 Unless otherwise specified to suit a particular species or site or condition, the moisture content of the mosaic parquet at the time of delivery shall be not less than 8 per cent and not more than 13 per cent.

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4.1.2 The reference moisture for the dimensions and tolerances specified in clause 4.3 is 11 per cent on dry mass.

4.2 Permissible defects

The wearing surface of the mosaic fingers shall be free from decay, stain, open checks, gum veins, borer holes and knots except as listed below. Intergrown knots, forming part of the decorative feature of a timber species are limited.

- (a) Closed checks – limited to three per finger.
- (b) Hob nails
- (c) chipped edges or sides not wider than 1.0mm nor longer than 30mm.
- (d) Tight gum veins 1 mm wide.
- (e) Small imperfections not more than 5 mm deep or of type removed by sanding the installed parquet are not limited.

4.3 Dimensions and tolerances

4.3.1 The fingers shall have the following nominal dimensions:

Thickness: 6, 8 and 10 mm: the 6 mm thickness is not suitable for softwood and for softer grades of hardwood;

Width: 18, 25 mm inclusive, with preferred widths of 20 mm, 24 mm and 25 mm;

Length: 100 to 165 mm, including preferred length of 100 mm, 120 mm and 125 mm,

4.3.2 Permissible deviations

The maximum deviation from the nominal dimensions indicated in clause 4.3.1 shall be as specified in Table 1.

Table 1 -Permissible deviations

| Dimensions | On each single | On each component square of panel | On any point of any finger making up the panel |
|------------|----------------|-----------------------------------|--|
| Thickness | ± 0.2 | ± 0.2 | ± 0.2 |
| Width | ± 1.0 | ± 0.5 | ± 0.2 |
| Length | ± 1.0 | ± 0.5 | ± 0.2 |
| Diagonal * | ± 1.0 | - | - |

All dimensions in millimeters

* The deviation is with respect to the nominal theoretical diagonal.

A panel however is considered to be acceptable if not more than 5 per cent of the fingers have dimensions with deviations not exceeding twice the deviations indicated above.

5. Designation

The mosaic panel shall be designated by stating the following particulars successively:

- (i) The wood species,
- (ii) The nominal dimensions (thickness x width x length) all expressed in millimeters,

- (iii) The number of fingers per component square,
- (iv) Manufacturer's name or trade mark.

6. Packaging

The mosaic parquet panels shall be packed in packages that will protect them against damage during transport and maintain the prescribed moisture content of the wood under normal transport and storage conditions.

7. Markings

7.1 The marking shall be carried out legibly and indelibly by applying a stamp with water proof and slightly penetrating product to one of the sides of each package. The stamp must contain all the items given in clause 5 and also include the number of panels in the package.

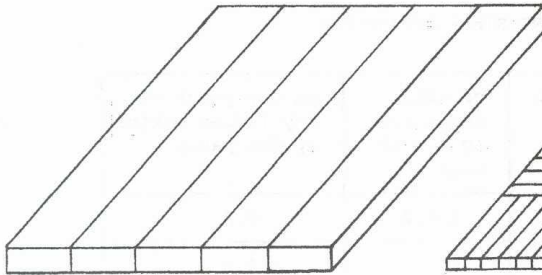


FIG. 1. - COMPONENT SQUARE AND FINGERS

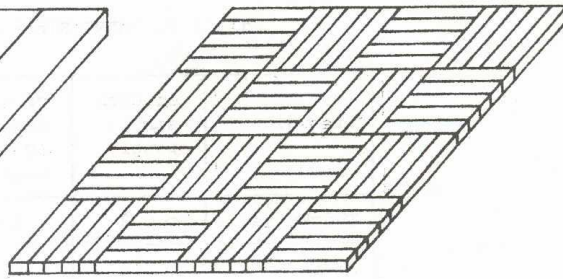


FIG. 2. - PARQUET PANEL