

CENTRAL STANDARDIZATION COMMITTEE

SPECIFICATION

FOR

ADJUSTABLE WOODEN SHELVING
(Metric Units)

Approved by the

CENTRAL STANDARDIZATION COMMITTEE

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SPECIFICATION

for

ADJUSTABLE WOODEN SHELVING (Metric Units)

0. APPLICABLE STANDARDS

0.1 The latest issues of the following standards form part of this specification:

BS 1706	Electroplated coatings of cadmium and zinc on iron and steel
BS 2604	Resin-bonded wood chipboard
BS 3382	Electroplated coatings on threaded components
CKS 5	Laminated timber (for furniture)
CKS 15	Wood screws
CKS 54	Softwood joinery timber
SABS 728	Electroplated coatings of nickel and chromium (Metric units)
SABS 737	Timber to be used in the manufacture of furniture
SABS 929	Plywood and composite board (Metric units)
SABS 065	Glossary of timber terms and definitions

1. SCOPE

1.1 This specification covers the material, dimensional, constructional, finish, and performance requirements for two classes of adjustable prefabricated wooden shelving.

NOTE: The following requirements must be specified in the order or contract:

- a) The class of shelving (see 3.1)
- b) Whether steel or brass screws are required (see 4.1.3)
- c) The height of the unit (see 4.2.1)
- d) The length of the unit (see 4.2.2)
- e) The width of the shelves (see 4.2.3)
- f) Whether drawers are required and, if so, their dimensions (see 4.2.4)
- g) In the case of Class 1 shelving, the timber to be used for support frames, horizontal rails, and tops (see 4.3.2(a)(1))

- h) In the case of Class 2 shelving, whether panelled or open units are required (see 4. 3. 2(b)(1))
- i) When relevant, whether back and side panels are to be of hardboard or of plywood (see 4. 3. 4)
- j) Whether doors are required (see 4. 3. 6(a))
- k) Whether bin fronts are required (see 4. 3. 7)
- l) Whether dividers are required (see 4. 3. 8)
- m) Whether skirting is required (see 4. 3. 9)
- n) Whether index card holders are required on drawers or shelves (as relevant) (see 4. 3. 10)
- o) The finish required on timber components (see 4. 4. 2)
- p) The finish required on metal fixings (see 4. 4. 3)

2. DEFINITIONS

- 2.1 For the purposes of this specification, the definitions given in SABS 065, and in SABS 929 (other than that for "acceptable"), and the following definitions shall apply:

Acceptable. Acceptable to the purchaser.

Bin front. A rectangular section of timber that, when secured across the lower front edge of a compartment formed by dividing a shelf vertically across its width, will retain the contents of the compartment.

Solid timber. Timber that is a single piece or that is made up of a number of pieces jointed and glued side by side to make up a required width.

3. CLASS OF SHELVING

- 3.1 The shelving shall be of one of the following two classes, as specified by the purchaser:

Class 1: Library shelving; or

Class 2: Standard shelving.

NOTE: The terms "library shelving" and "standard shelving" are merely indicative of the class of shelving for which the end product may be used and are not intended to imply that they are intended to be used only in libraries or for general storage use, respectively. Library shelving is suitable for use where appearance is of importance, e.g. offices, showrooms, laboratories etc., whilst standard shelving is suitable for use in registries, warehouses etc.

4. REQUIREMENTS

4.1 MATERIALS

4.1.1 Timber and Timber Derivatives

a) Solid timber. Solid timber shall comply, in the case of South African pine, with the relevant requirements of CKS 54, and in the case of hardwoods, with the relevant requirements for Grade 1 of SABS 737.

b) Laminated timber. Laminated timber shall comply with the requirements of CKS 5.

c) Plywood and composite board. Plywood and composite board shall comply with the requirements for Type 1A (having surface veneers of thickness at least 1,5 mm and quality at least equal to Grade A) of SABS 929.

d) Particle board. Particle board shall comply with the requirements of BS 2604.

In addition to the above requirements, timber shall be free from:

1. Loose knots,
2. checks, cracks, and splits,
3. gum pockets that exude resin,
4. pith and inbark,
5. warp and twist,
6. wany edges, and
7. evidence of beetle infestation.

4.1.1.1 Moisture content. Timber shall have a moisture content of between 8 and 12%, and the variation in moisture content between the jointed pieces of a component shall not exceed 3%.

4.1.2 Metal Fixings. Metal fixings and pins (for supporting shelves) shall be of mild steel or of an alloy of acceptable strength. Unless inherently corrosion resistant, fixings shall be coated with zinc, cadmium, or chromium in accordance with the requirements of BS 1706 or SABS 728, as relevant (see 4.4.3).

4.1.3 Wood screws. Wood screws shall be countersunk steel or brass screws, as specified by the purchaser, and shall comply with the relevant requirements of CKS 15.

4.1.4 Adhesives. Adhesives used for shelves and for support frames shall be of an acceptable non-staining type.