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Furniture — Steel filing cabinets for general office purposes — Specification

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Foreword

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

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Furniture — Steel filing cabinets for general office purposes — Specification

1 Scope

This Final Draft Uganda Standard specifies requirements for materials, sizes, construction and finish and tests of steel filing cabinets for general office purposes.

2 Normative references

The following referenced documents are referred to in the text in such a way that some or all of their content constitute 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 1520, *Paints and varnishes — Cupping test*

ISO 2009, *Slotted countersunk flat head screws — Product grade A*

ISO 4624, *Paints and varnishes — Pull-off test for adhesion*

ISO 4950-1, *High yield strength flat steel products — Part 1: General requirements*

ISO 6860, *Paints and varnishes — Bend test (conical mandrel)*

ISO 9567,

ISO 11503, *Paints and varnishes -- Determination of resistance to humidity (intermittent condensation)*

ISO 15184, *Paints and varnishes — Determination of film hardness by pencil test*

ISO 16925, *Paints and varnishes — Determination of the resistance of coatings to pressure water-jetting*

ISO 28762,

US ISO 6361-1, Wrought aluminium and aluminium alloys — Sheets, strips and plates — Part 1: Technical conditions for inspection and delivery

ISO 12633-1, Hot-finished structural hollow sections of non-alloy and fine grain steels — Part 1: Technical delivery conditions (tube)

US 1633, Cold rolled low carbon steel flat products for cold forming — Technical delivery conditions

ISO 16143-3, Stainless steels for general purposes -- Part 3: Wire

US ISO 6362-1, Wrought aluminium and aluminium alloys — extruded rods/ bars, tubes and profiles — Part 1: Technical conditions for inspection and delivery

ISO 9692-3, Welding and allied processes -- Types of joint preparation -- Part 3: Metal inert gas welding and tungsten inert gas welding of aluminum and its alloys

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3 Material requirements

3.1 Mild steel sheets

Mild steel sheets shall conform to grade 0 of ISO 4950.

3.2 Screws

Screws shall conform to ISO 2009.

4 Types

The filing cabinets shall be of three types, namely

a) two-drawer type,

b) three-drawer type, and

c) four-drawer type.

5 Dimensions and tolerances

5.1 General

5.1.1 The overall dimensions of the three types of filing cabinets shall be as given in Table 1 (see Figure 1).

5.1.2 The minimum clearances required for the filing cabinets to be put into recesses or openings, where required, shall be as follows:

a) for top of cabinet: 20 mm;

b) for each side of cabinet: 10 mm; and

c) for depth of cabinet: 5 mm.

Table 1 — Overall dimensions of steel filing cabinets

S/No.	Dimensions	Two drawer type	Three drawer type	Four drawer type
i.	Overall height from finishing floor to top of the cabinet including pedestal	750	1 080	1 380
ii.	Depth from face to back	700	700	700
iii.	Width	470	470	470

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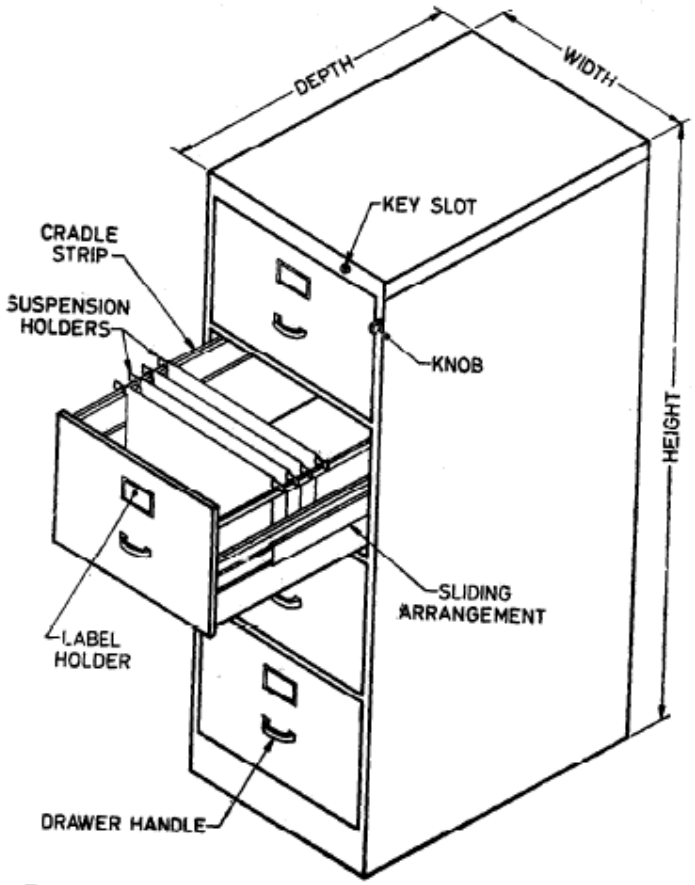

FIG. 1 A TYPICAL FOUR-DRAWER TYPE STEEL FILING CABINET

5.2 Drawer dimensions

The minimum clear internal dimensions of the drawers for all the three types shall be suitable for holding a standard suspension holder running on cradle strips having centre to centre distance of 385 mm, the height of the largest holder being 255 mm including 15 mm high tab. The depth of the drawers shall be not less than 600 mm. The bottom of the lowest drawer shall be minimum 75 mm above the floor level.

5.3 Tolerances

The dimensions specified in 4.1 shall not vary by more than f 5 mm.

6 Fabrication

6.1 Sides and back

The sides and back shall be made from steel sheet not less than 0.8 mm thick and without any burrs or dents. The width of the side sheets shall correspond to the depth of the cabinet. The width of the back sheet shall correspond to the width of the cabinet. A top cover shall be provided and the sides and back shall extend from the bottom edge of the top cover to the floor.

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6.2 Top and bottom

The top and bottom shall be of steel sheet not less than 0.8 mm thick. The width of the top and bottom shall cover the width of the cabinet and the length shall cover the depth of the cabinet.

6.3 Filing drawer

The drawer shall be made from steel sheet not less than 0.63 mm thick. The drawer front shall have a back cover secured to it to make it box type. The drawer shall have an arrangement on the sides to seat it on the slides and an arrangement by a locking mechanism to stop it when fully pushed in.

6.4 Clutch compressor plate or cradle strips

The clutch compressor plate shall be made from steel sheet not less than 1.0 mm thick and shall be suitably guided throughout the depth of the drawer. It shall have an arrangement for clutching the drawer at any desired position. If instead of clutch compressor plate cradle strips are provided, they shall be fitted to each drawer in pairs extending over the depth of the drawer. They shall be of aluminum, galvanized steel or mild steel. In the case of mild steel cradle strips, they shall be either painted and provided with a plastic or aluminum cladding, or cadmium plated.

6.5 Checks

Each drawer of the cabinet shall be removable but shall be fitted with a positive stop to prevent inadvertent withdrawal. The drawers may be fitted with an automatic check to prevent rebound, if required by the purchaser.

6.6 Drawer suspension

The drawer suspension shall be one of the following types to ensure withdrawal of the full depth of the drawer:

a) ball-bearing suspension;

b) solid-roller suspension; and

c) ball-bearing-roller suspension.

6.7 Handles

Each drawer shall be provided either with a handle made from corrosion-resistant material and fixed to the front of the drawer or with a built-in pull. The drawer handle shall be strong enough to take a normal minimum pull of 50 N. There shall be no sharp corners or edges to avoid injury and damage to clothing.

6.8 Label holders

The label holders shall be made from corrosion resistant metal sheet or mild steel sheet, not less than 0.63 mm in thickness, to hold card of size 100 mm x 50 mm and shall be fixed to the front of the drawers. Mild steel label holders shall be properly finished as laid down in Clause 8.

6.9 Locks

Locks, if provided, shall be of the automatic unit type having not less than six levers or of the pin cylindrical type having not less than four pins, with duplicate keys of non-corrosive metal.

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6.10 Locking mechanism

The locking mechanism shall be made from steel sheet not less than 1.6 mm thick: The arrangement shall be such as to lock all the drawers simultaneously from the front of the cabinets. At the time of locking the whole cabinet if one of the drawers has not been pushed in fully and thus remains partly open, that drawer shall remain unlocked. As soon as that drawer is pushed in fully, it shall get locked automatically without further operation by the user.

7 Assembly

The components shall be assembled by bolting, welding or riveting.

8 Finish

8.1 All dents, burrs and sharp edges shall be removed from the various components. The components shall be individually pickled, scrubbed and rinsed to remove grease, rust, scale or any other foreign element.

8.2 Immediately after pickling, all the mild steel parts shall be given phosphating treatment conforming to ISO 9567.

8.3 Putty shall be applied to all the surfaces requiring filling and aluminium primer should also be used

8.4 Coat/coats of enamel paint shall then be applied as follows:

a) finish coat with enamels conforming to ISO 28762; and

b) in case of stoving enamel components shall thereafter be baked at a specified temperature in a uniformly heated oven. The finish shall be smooth and uniform with a hard and tough film of enamel strongly adhering to the surface. The finish shall be free from all visible defects and shall not chip when tapped lightly with a dull pointed instrument.

8.5 All other components shall be finished as agreed to between the purchaser and the manufacturer.

9 Performance requirements of finish

9.1 Scratch hardness test

Use ISO 15184.

9.2 Pull off adhesion test

Use ISO 4624.

9.3 Resistance of coating to pressure water jetting test

Use ISO 16925.

9.4 Resistance to humidity (intermittent condensation) test

Use ISO 11503.

9.5 Bend test

Use ISO 6860.

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9.6 Cupping test

Use ISO 1520.

10 Tests

10.1 Drawer suspension

10.1.1 The suspension slides shall not show any apparent distortion, cracks or failure to operate in a normal, smooth manner after running for 50 000 cycles at a rate of 1 000 cycles per hour with an evenly distributed load of 30 kg (excluding the weight of the drawer) in any of the drawer. One opening and one closing of the drawer shall constitute one cycle. For guidance, the details of the test apparatus and the procedure for the test is given in Annex A.

10.1.2 When a drawer is loaded with a uniformly distributed load of 20 kg, the cradle strips shall not deflect by more than 3 mm in the vertical direction. The operative edges of the cradle strips shall be smooth and rounded in order to facilitate easy movement of files.

10.2 Ease of drawer operation

With an evenly distributed load of 30 kg (excluding the weight of the drawer) in any of the drawers, the force required to move the drawer from the position of rest shall not exceed 50 N.

11 Packing

All component part of the cabinets shah be packed in such a way that no damage is caused to them during transit.

12 Information to be supplied by the purchaser

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

a) type required;

b) desired colour of finish;

c) whether the drawers to be provided with clutch compressor plate or cradle strips; and

d) whether corners are to be rounded or not.

12.2 Where alternative methods of construction and finish are specified they shall be clearly stated in the order.

13 Marking

All steel filing cabinets shall be legibly and indelibly marked with name, address/trade mark of the manufacturer, name of the product, and country of origin.

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Bibliography

IS 3313, *Steel filing cabinets for general office purposes — Specification*

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