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Furniture — Tables — Test methods for the determination of stability, strength and durability

Ameublement — Tables — Méthodes d'essai pour la détermination de la stabilité, de la résistance et de la durabilité

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 136, *Furniture*.

This document cancels and replaces ISO 21016:2007, which has been technically revised.

The main changes are as follows:

— the scope has been broadened to cover not only office furniture.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Introduction

This document is a proposal for test methods for stability, strength and durability for table and desk furniture. Safety aspects (e.g. resistance to heat and electric shock) of electrically motorized furniture are additionally covered by IEC 60335-2-116.

Other methods for determination of the strength and durability of storage components, seating surfaces, and other features which can be incorporated into tables are covered by other standards.

This document specifies test methods only. It does not specify acceptance criteria. These should be specified in a document for general requirements. If this is not available, suggested loads and cycles can be found in Annex A. It is up to the specifier to determine which tests are appropriate.

Tests carried out according to these test methods are intended to demonstrate the ability of the item to give satisfactory service in its intended environment. The tests have been developed for units/components that have not been in use. However, when properly justified, they can be used for fault investigation.

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Furniture — Tables — Test methods for the determination of stability, strength and durability

1 Scope

This document specifies test methods for the determination of stability, strength and durability of the structure of all types of tables and desks without regard to use, materials, design/construction or manufacturing process.

This document does not apply to baby changing units.

This document does not cover test methods for the assessment of ageing, degradation, flammability or electrical components.

2 Normative references

The following documents are 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 48-4, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4: Indentation hardness by durometer method (Shore hardness)*

ISO 2439, *Flexible cellular polymeric materials — Determination of hardness (indentation technique)*

ISO 7170:2021, *Furniture — Storage units — Test methods for the determination of strength, durability and stability*

ISO 12543-4, *Glass in building — Laminated glass and laminated safety glass — Part 4: Test methods for durability*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
duty cycle
length of time the height adjustable table's drive system may be operated without impairing its useful life

3.2
end extension
added surface beyond the original surface that is not directly supported by the floor and adds 200 mm or more to an end

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