

International Standard

ISO 12808

Hardware for furniture — Strength and durability of extension elements and their components

Quincaillerie d'ameublement — Résistance mécanique et endurance des éléments extractibles et de leurs composants

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Foreword

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

The aim of this document is to provide furniture manufacturers, designers and developers with comparable information regarding the performance of extension elements and drawers.

The tests consist of the application of loads, forces and velocities simulating normal functional use, as well as misuse, that can reasonably be expected to occur.

With the exception of the corrosion test in 6.4, the tests are designed to evaluate properties without regard to materials, design/construction or manufacturing processes.

The strength and durability tests only relate to the extension elements and the parts used for the attachment, e.g. screws.

The strength and durability tests are carried out in a test frame with specified properties. The test results can only be used as a guide to the performance of a piece of furniture.

The test results are only valid for the extension element tested. These results can be used to represent the performance of production models provided that the tested model is representative of the production model. de "is a proviou on on on on on out of the state of the s

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Hardware for furniture — Strength and durability of extension elements and their components

1 Scope

This document specifies test methods and requirements for the strength and durability of all types of extension elements and their components for all fields of application, except table extensions.

With the exception of corrosion, ageing and the influence of heat and humidity are not covered in this document.

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 6270-2, Paints and varnishes — Determination of resistance to humidity — Part 2: Condensation (in-cabinet exposure with heated water reservoir)

ISO 9427, Wood-based panels — Determination of density

ISO 10289, Methods for corrosion testing of metallic and other inorganic coatings on metallic substrates — Rating of test specimens and manufactured articles subjected to corrosion tests

EN 320, Particleboards and fibreboards — Determination of resistance to axial withdrawal of screws

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

catch device

device which keeps or pulls an *extension element* (3.2) in place, but does not require a second action in order to release it

EXAMPLE A magnetic catch or a self-closing or self-opening mechanism.

3.2

extension element

component that can be pulled out and pushed in

EXAMPLE Drawers, suspended pocket files, keyboard trays.