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BSI Standards Publication

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

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National foreword

This British Standard is the UK implementation of EN 15338:2024. It supersedes BS EN 15338:2007+A1:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FW/0, Furniture.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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English Version

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

Möbelbeschläge - Festigkeit und Dauerhaltbarkeit von Auszügen und deren Komponenten

This European Standard was approved by CEN on 7 July 2024.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (EN 15338:2024) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2025, and conflicting national standards shall be withdrawn at the latest by February 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15338:2007+A1:2010.

EN 15338:2024 includes the following significant technical changes with respect to EN 15338:2007+A1:2010:

- updating of normative references;
- revision of 6.4 “Corrosion resistance”;
- deletion of A.6 “Corrosion test”.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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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.

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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.

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 are only used as a guide to the performance of a piece of furniture.

The test results are only valid for the extension element tested.

Ageing and influences of heat and humidity are not included.

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.

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

EN 323, *Wood-based panels — Determination of density*

EN 17737, *Hardware for furniture — Test and evaluation methods for the corrosion resistance of furniture fittings*

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

EN 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 (ISO 10289)*

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:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

catch device

device which keeps or pulls an extension element 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.