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Hardware for furniture - Strength and durability of locking mechanisms

I.S. EN 16014:2011

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English Version

Hardware for furniture - Strength and durability of locking mechanisms

Quincaillerie d'ameublement - Résistance mécanique et endurance des mécanismes de verrouillage

Möbelbeschläge - Festigkeit und Dauerhaltbarkeit von Verschlussmechanismen

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Foreword

This document (EN 16014:2011) 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of an identical text or by endorsement, at the latest by February 2012, and conflicting national standards shall be withdrawn at the latest by February 2012.

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Introduction

The aim of this European Standard is to provide furniture manufacturers, designers and developers with comparable information regarding the performance of all types of locking mechanisms.

NOTE Examples of typical locking mechanisms are given in CEN/TR 16015.

1 Scope

This European Standard specifies test methods and requirements for the strength and durability of all types of locking mechanisms for furniture and their components for all fields of application.

This European Standard does not apply to latching mechanisms.

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

With the exception of the corrosion test in 6.5, 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 locking mechanisms and their components and the parts used for the attachment, e.g. screws.

The strength and durability tests are carried out in particle board 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 locking mechanisms and their components tested. These results may be used to represent the performance of production models provided that the tested model is representative of the production model.

With the exception of corrosion, ageing and influences of heat and humidity is not included.

Annex A (normative): Product information system.

Annex B (normative): Test parameters.

2 Normative references

The following referenced documents are indispensable for the application 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 320:2011, *Particleboards and fibreboards - Determination of resistance to axial withdrawal of screws*

EN 323:1993, *Wood-based panels — Determination of density*

EN ISO 6270-2:2005, *Paints and varnishes — Determination of resistance to humidity — Part 2: Procedure for exposing test specimens in condensation-water atmospheres (ISO 6270-2:2005)*

3 Terms and definitions

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

3.1

locking mechanism

mechanism that limits access to the interior of a unit or a storage element

NOTE It requires a key or a combination in order to activate it or to make it possible to activate it.

[ISO 7170:2005 and EN 14074:2004]

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