



SLOVENSKI STANDARD
SIST EN 15187:2024

01-december-2024

Nadomešča:
SIST EN 15187:2007

Pohištvo - Ocenjevanje vpliva izpostavljenosti svetlobi

Furniture - Assessment of the effect of light exposure

Möbel - Bestimmung der Lichtbeständigkeit von Oberflächen

Ameublement - Evaluation de la tenue de la surface à la lumière

Ta slovenski standard je istoveten z: EN 15187:2024

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ICS: 97.140 Pohištvo Furniture

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EUROPEAN STANDARD

EN 15187

NORME EUROPÉENNE

EUROPÄISCHE NORM

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ICS 97.140

Supersedes EN 15187:2006

English Version

Furniture - Assessment of the effect of light exposure

Ameublement - Evaluation de la tenue de la surface à la lumière

Möbel - Bestimmung der Lichtbeständigkeit von Oberflächen

This European Standard was approved by CEN on 10 June 2024.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 15187:2024) 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of an identical text or by endorsement, at the latest by January 2025, and conflicting national standards shall be withdrawn at the latest by January 2025.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 15187:2006.

EN 15187:2024 includes the following significant technical changes with respect to EN 15187:2006:

- revised scope: surfaces that were not affected by light as additional specification for the test;
- normative references updated;
- revised Table 1 for general conditions for the apparatus with humidity control;
- revised Table 2 for general conditions for the apparatus without humidity control;
- added new Table 3 “Correlation between irradiation time and total irradiation amount at different intensity”
- new sub clauses: “Specimen holders”, “Deionized or distilled water”, “Cleansing solution”, “Cleansing agent” added to Clause 5;
- revision of 7.3 “Duration”;
- revision of Clause 9 “Test report”;
- document editorially revised in its entirety.

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.

EN 15187:2024 (E)

1 Scope

This document specifies a method for the assessment of the effects of light in indoor conditions, by exposure to artificial radiation and applies to rigid surfaces of all finished products regardless of material.

It does not apply to finishes on leather and fabrics.

The test is intended to be carried out on a part of the finished furniture, but can be carried out on test panels of the same material, finished in an identical manner to the finished product, and of a size sufficient to meet the requirements of the test.

This document describes the most important parameters, such as the colour change when a surface is exposed and specifies the conditions to be used in the exposure apparatus.

The light resistance of a surface can be assessed by using two apparatus as specified in Clause 4, one as a reference test method, and the other for in-company testing.

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 ISO 105-B02:2014, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test (ISO 105-B02:2014)*

EN ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance (ISO 4892-1)*

EN ISO 4892-2:2013¹, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc lamps — Amendment 1: Classification of daylight filters (ISO 4892-2:2013)*

ISO 105-A02, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*

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 test panel

panel including the test surface (see 3.2)

Note 1 to entry: It can be cut from a finished item of furniture or it can be a separate panel produced in the same manner as the finished item of furniture.

3.2 test surface

part of the test panel including an exposed section as well as the control sections

¹ As amended by EN ISO 4892-2:2013/A1:2021.