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Vizualno ocenjevanje površine pohištva

Visual assessment of furniture surfaces

Visuelle Bewertung von Möbeloberflächen

Ta slovenski standard je istoveten z: prEN 17214

ICS:

97.140 <https://standards.iteh.ai/> [SIST EN 17214:2019](https://standards.iteh.ai/standards/sist/2aadb5f5-9cf0-bb75db970203/sist-en-17214-2019) [Pohištvo](https://standards.iteh.ai/standards/sist/2aadb5f5-9cf0-bb75db970203/sist-en-17214-2019) [Furniture](https://standards.iteh.ai/standards/sist/2aadb5f5-9cf0-bb75db970203/sist-en-17214-2019)

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Visual assessment of furniture surfaces

Visuelle Bewertung von Möbeloberflächen

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 207.

If this draft becomes a European Standard, 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.

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

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European foreword

This document (prEN 17214:2017) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

This document is currently submitted to the CEN Enquiry.

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1 Scope

This document defines visual assessment procedures for the appearance of ready for use furniture surfaces with regard to surface defects and colour variations in a used condition.

It is not applicable to constructive features or geometric dimensions, e.g. parallelism of edges.

It is not applicable to textile and leather surfaces.

It also applies to decorative wooden surfaces and visible frame finishes, for example on upholstered furniture.

It applies to the incoming and outgoing goods inspections, as well as local assessments.

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 10088-2, *Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes*

EN 13722, *Furniture - Assessment of the surface gloss*

EN ISO 3668, *Paints and varnishes - Visual comparison of the colour of paints (ISO 3668:1998)*

ISO 1065:1991, *Non-ionic surface-active agents obtained from ethylene oxide and mixed non-ionic surface-active agents - Determination of cloud point*

3 Terms and definitions

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

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

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

3.1

normal position

position of the furniture item when used as intended

3.2

visual assessment

assessment of the furniture surface under specified conditions

3.3

overall impression

regularity in the arrangement of individual items of furniture that belong together and of their parts in relation to one another, or of individual parts of an item of furniture

3.4

detailed impression

regularity of a surface of furniture items

3.5**flaw**

small-scaled, partial conspicuity on furniture surfaces that stands out from its surroundings and impairs the overall impression

Note 1 to entry: The flaw catches the attention of the viewer, thereby leading to its perception as disruptive.

EXAMPLE Scratches, occlusions.

3.6**furniture component**

element subjected to visual inspection

3.7**assessed surface**

part of the furniture component to be assessed

3.8**repeat**

repeating, area-filling surface design element

EXAMPLE Wood decor, surface embossing.

3.9**observer**

technician who carries out the assessment fulfilling the requirement specified on EN ISO 3668

4 Assessment equipment**4.1 Cleaning solution**

15 ml/l of the cleaner in water with the following cleaner composition:

- a) 12,5 % (m/m) of a primary or polymeric sodium (C10 to C14) alkylaryl sulphonate [CAS 25155-30-0];
- b) 12,5 % (m/m) of a polyethoxylated primary or secondary (C8 to C16) alcohol derivative with 5 to 15 ethoxyl groups with a cloud point of 25 °C to 75 °C in 1 % (m/m) aqueous solution (the determination of the cloud point is specified in ISO 1065:1991) [CAS 9005-67-];
- c) 5,0 % (m/m) of ethanol (96 % aqueous solution);
- d) 70 % (m/m) de-ionized or distilled water.

Instead of this described cleaning solution, a commercial cleaning solution recommended by the manufacturer can be used. In this case, it shall be mentioned in the test report.

4.2 Lighting

Artificial light source with a colour temperature of $(6\,500 \pm 200)$ K (CIE standard illuminants D65 light, see Figure 3).

4.3 Holder for furniture components

Device for mounting the object to be inspected at an angle of $30^\circ \pm 3^\circ$ and in a manner ensuring that the assessed surface is exposed to a light intensity of 1,000 lx – 2,000 lx (see Figure 3), measured in the centre of the holder in horizontal position.

4.4 Assessment template

Tool with defined areas [mm²], e.g. a transparent film with printed areas.

NOTE A suitable template is the “Size estimation chart”, product code 0109DIRTT, available from TAPPI, 15 Technology Parkway South, Suite 115, Peachtree Corners, Atlanta, GA 300922910, USA, tel. +1 770 446 1400, fax +1 770 446 6947. This does not constitute a recognition of the inspection device by CEN.¹⁾

4.5 Light box

The light box is a negatoscope equipped with a “daylight” (it is not necessary to use a standard illuminant) bulb or tube (see Figure 1).

The light shall be even enough to ensure the absence of under-illuminated zones.

NOTE A suitable device is a NBX1 negatoscope by ELLA LEGROS. This does not constitute recognition of the inspection device by CEN.¹⁾

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1) This is an example of a suitable product available commercially. This information is given for the convenience of users of this document and does not constitute an endorsement by CEN of this product.

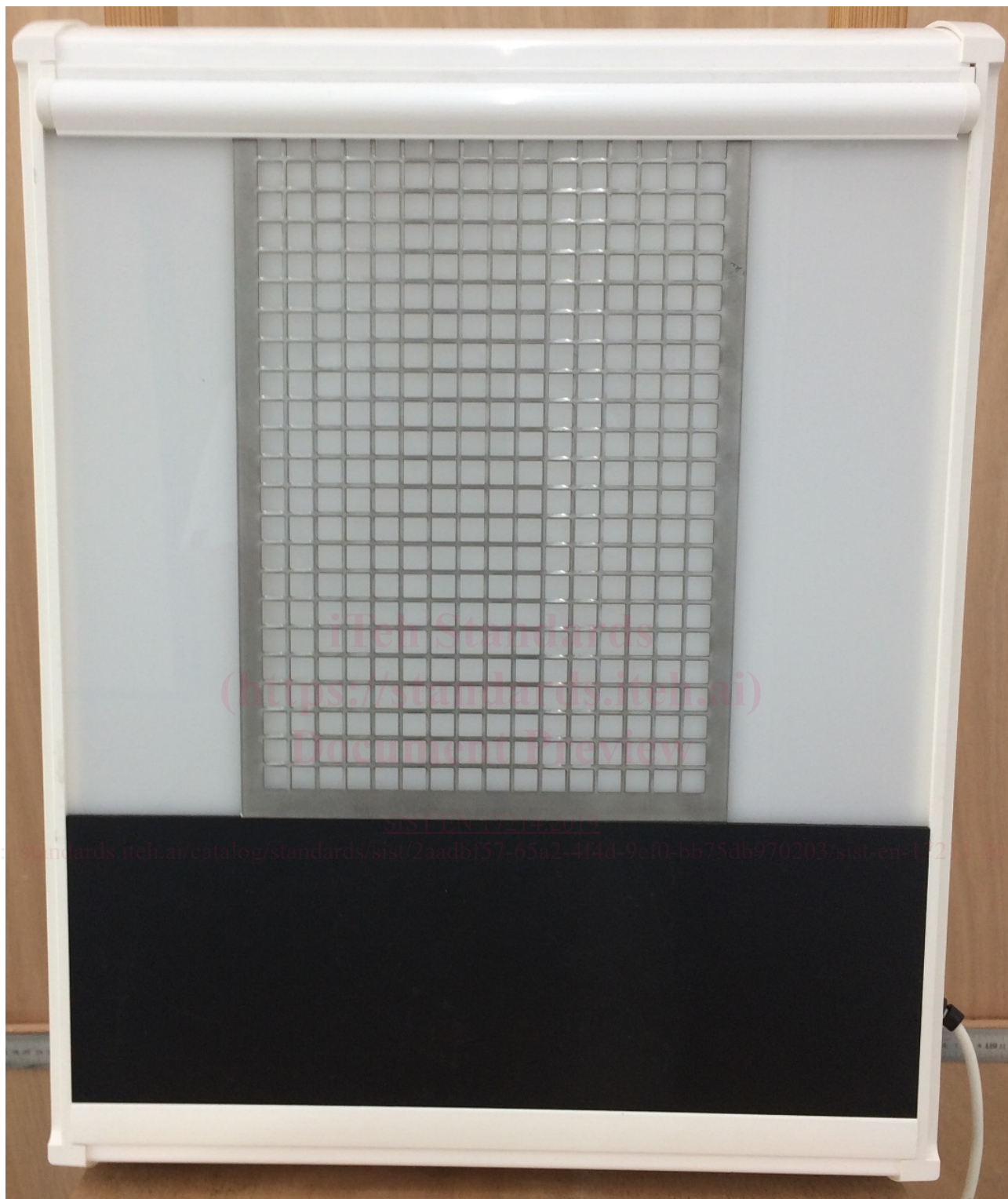


Figure 1 — Light box

prEN 17214:2017(E)**4.6 Test pattern**

The test pattern made of metal (see Figure 2) consists of empty tiles, $(10,0 \pm 0,2)$ mm side, surrounded by a line of $(2,0 \pm 0,1)$ mm.

Detail of pattern construction:

Sheet steel drilled: stainless AISI 304 X5CrNi18-10, EN 10088-2

Size: 1 x 210 x 300 mm

Model of perforin of the sheet steel: C 10 U 12 DIN 24041

Ratio of space: approx. 69,44 %

Porthole area: 190 x 274 mm

Borders on the length: = 10 mm

Borders on the width: = 13 mm

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