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Visual assessment of furniture surfaces

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National foreword

This British Standard is the UK implementation of EN 17214:2019.

The UK participation in its preparation was entrusted to Technical Committee FW/0/1, Common Test Methods for Furniture.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 17214

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English Version

Visual assessment of furniture surfaces

Evaluation visuelle de la surface des meubles

Visuelle Bewertung von Möbeloberflächen

This European Standard was corrected and reissued by the CEN-CENELEC Management Centre on 25 September 2019.

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European foreword

This document (EN 17214:2019) 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of an identical text or by endorsement, at the latest by January 2020, and conflicting national standards shall be withdrawn at the latest by January 2020.

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1 Scope

This document defines visual assessment procedures for the appearance of furniture surfaces with regard to surface defects and colour and gloss variations.

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

This standard is applicable to all furniture surfaces except textile and leather surfaces.

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 ISO 3668:2001, *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, from a distance according to the size of the furniture component

3.4
detailed impression
regularity of a surface of furniture items from a short distance (from 0,25 m to 1 m) according to the intended use of the furniture

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3.5
flaw
any kind of visible damage 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 in EN ISO 3668:2001

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 9005-67-8];

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 ± 200) K (CIE standard illuminants D65 light).

4.3 Holder for furniture components

Device for placing the object to be inspected at an angle of 30° ± 3° and in a manner ensuring that the assessed surface is exposed to a light intensity of 1 000 lx to 2 000 lx (Figure 1), measured in the centre of the holder in horizontal position.

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Dimensions in millimetres

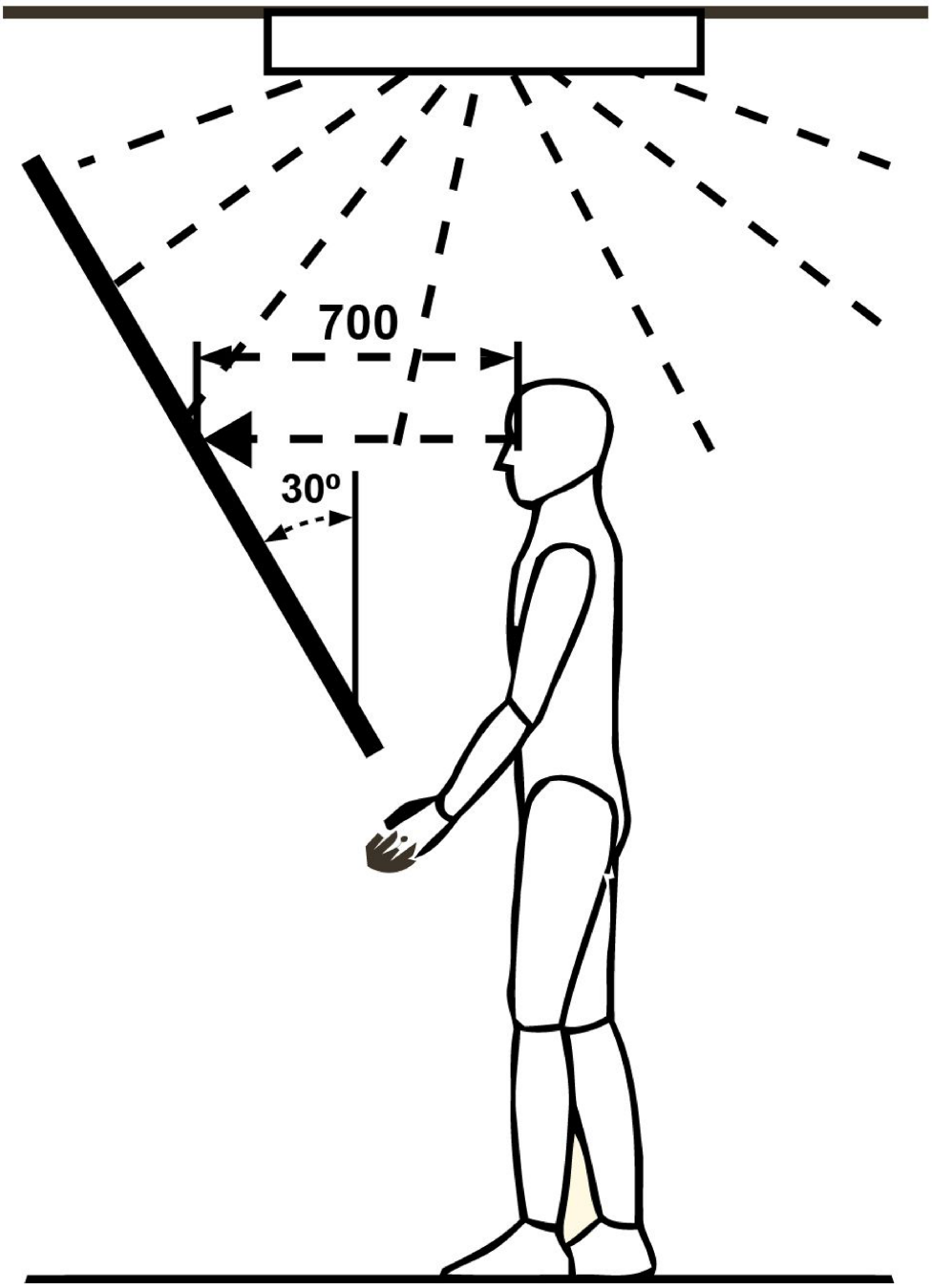


Figure 1 — Visual assessment principle for furniture components

4.4 Assessment template

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

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