

ISO 20189:2018 (E)

Acoustics — Screens, furniture and single objects intended for interior use — Rating of sound absorption and sound reduction of elements based on laboratory measurements

Contents

| | |
|---------|--|
| | Foreword |
| | Introduction |
| 1 | Scope |
| 2 | Normative references |
| 3 | Terms and definitions |
| 4 | Methods to measure and evaluate various interior acoustic products |
| 4.1 | Single objects |
| 4.1.1 | General |
| 4.1.2 | Single object sound absorption |
| 4.2 | Desk screens |
| 4.3 | Floor screens |
| 4.3.1 | General |
| 4.3.2 | Floor screen sound absorption |
| 4.3.3 | Floor screen sound attenuation |
| 4.3.4 | Floor screen sound insulation |
| 4.4 | Furniture ensembles |
| 4.4.1 | General |
| 4.4.2 | Furniture ensembles sound absorption |
| 4.5 | Single objects that are tightly connected to form a surface greater than or equal to 10 m ² |
| 4.6 | Other single objects |
| 5 | Statement of results |
| 5.1 | Results for sound absorption |
| 5.2 | Results for floor screen sound attenuation |
| 5.3 | Results for sound insulation |
| 5.4 | Other information to be reported |
| Annex A | (normative) Presentation of equivalent sound absorption area |
| Annex B | (normative) Examples for the deduction of object sound absorption coefficient, α_{obj} |
| B.1 | General |
| B.2 | Example for a desk screen or a floor screen |
| B.3 | Example for a furniture ensemble, sofas, chairs and similar |
| B.4 | Example for a cupboard or a bookshelf |
| B.5 | Example for volume element |
| B.6 | Example for a desk |
| Annex C | (normative) Presentation of floor screen sound attenuation |
| Annex D | (normative) Presentation of screen sound insulation |
| Annex E | (normative) Mounting conditions in the laboratory |
| E.1 | Single objects |
| E.1.1 | Desk screens, type I mounting |
| E.1.2 | Floor screens, type II mounting |
| E.1.3 | Furniture ensembles, type III mounting |

- E.1.4** **Single sound absorbers aimed for walls, type IV mounting**
- E.1.5** **Hanging flat elements, type V mounting**
- E.1.6** **Volume elements, type VI mounting**
- E.1.7** **Sofas, type VII mounting**
- E.1.8** **Chairs/containers/stools, type VIII mounting**
- E.1.9** **Bookshelves and cupboards, type IX mounting**
- E.1.10** **Carpets and rugs**
- E.2** **Single objects that are tightly connected to a surface greater than or equal to 10 m²**
- E.2.1** **Whole or partial wall covering, floor coverings**
- E.2.2** **Draperies, curtains and connected panels**
- E.2.3** **Operable walls with absorbing covering**

Annex F (informative) Guidelines on suitable values for sound insulation for different screen heights

Page count: 28