

# 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 <sup>2</sup> |
| 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, $\alpha_{obj}$          |
| 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 m<sup>2</sup>
- 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**