ISO 22955:2021 (E)

Acoustics — Acoustic quality of open office spaces

Contents

Foreword

Introduction

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
 - 3.1 General terms
 - 3.2 Terms related to the workspace layout
 - 3.3 Terms related to acoustics
 - 3.4 Acoustic descriptors and related terms

4 General approach

- 4.1 Introduction to the general approach
- 4.2 Methodology
- 5 Typology, acoustic challenges and requirements
 - 5.1 General
 - 5.2 Space type 1: activity not known yet vacant floor plate
 - 5.2.1 Description
 - 5.2.2 Noise environment characterising this type of space
 - 5.2.3 Acoustic challenges
 - 5.3 Space type 2: activity mainly focusing on outside of the room communication (by telephone/audio/video)
 - 5.3.1 Description of the activity
 - 5.3.2 Noise environment characterising this type of space
 - 5.3.3 Acoustic challenges
 - 5.3.4 Acoustic indicators and values
 - 5.4 Space type 3: activity mainly based on collaboration between people at nearest workstation
 - 5.4.1 Description of activity
 - 5.4.2 Noise environment characterising this type of space
 - 5.4.3 Acoustic challenges
 - 5.4.4 Acoustic indicators and values
 - 5.5 Space type 4: activity based on a small amount of collaborative work
 - 5.5.1 Description of activity
 - 5.5.2 Noise environment characterising this type of space
 - 5.5.3 Acoustic challenges
 - 5.5.4 Acoustic indicators and values
 - 5.6 Space type 5: activity that can involve receiving public
 - 5.6.1 Description of activity
 - 5.6.2 Noise environment characterising this type of space
 - 5.6.3 Acoustic challenges
 - 5.6.4 Acoustic indicators and values
 - 5.7 Space type 6: combining activities within the same space
 - 5.7.1 Description of activities
 - 5.7.2 Source/receiver

6

- 5.7.3 Noise environment characterizing this type of space
- 5.7.4 Acoustic challenges
- 5.7.5 Acoustic indicators and values

Workspace layout and room acoustics

6.1 Dimensions and geometry of open-plan space

- 6.2 Position of support spaces with respect to open-plan space
- 6.3 Distance between workstations in open-plan spaces
- 6.4 Principles of room acoustic treatment
- 6.4.1 General
- 6.4.2 Ceiling treatment
- 6.4.3 Wall treatment
- 6.4.4 Floor treatment
- 6.5 Effect of type of furniture
- 6.5.1 Principle
- 6.5.2 Screen fixed to worktop (low divider), free-standing screens and suspended screens6.6 Accessibility and special needs

Annex A (normative) Detailed definition and measurement method of the DA,S parameter

- A.1 Detailed definition
- A.2 Measurement method
- Annex B (normative) Flow chart summarising the approach
 - B.1 Open-plan space refitting project
 - B.2 Open-plan space layout project (new construction project or spaces delivered unfurnished)
- Annex C (informative) Collective use of open-plan spaces: etiquette
- Annex D (informative) Example of a user survey on open-plan office acoustics
- Annex E (informative) Minimum requirements for measuring workstation noise level, LAeq,T during an activity
 - E.1 Measurement time
 - E.2 Measurement conditions
 - E.3 Results
 - E.4 Measuring equipment
- Annex F (informative) Sound masking systems
- Annex G (informative) Acoustic indicators and values when the activity isn't known yet

Page count: 39