ISO 11690-2:2020 (E)

Acoustics — Recommended practice for the design of low-noise workplaces containing machinery — Part 2: Noise control measures

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Technical aspects of noise control

5 Noise control at source

- 5.1 General
- 5.2 Noise control at source by design
- 5.3 Information on noise emission
- 5.4 Use of low-noise machines
- 5.5 Modification or replacement of machine components
- 5.6 Low noise working and production technologies
- 5.7 Maintenance of machines and noise control devices

6 Noise control on the transmission path

- 6.1 Noise control by means of a proper spatial arrangement of the noise sources
- 6.2 Use of noise control devices
- 6.3 Noise control by use of sound-absorbing materials
- 6.4 Sound propagation in structures and noise control measures

7 Noise control at the work station

8 Verification methods

- 8.1 General
- 8.2 Sound sources
- 8.3 Noise control devices
- 8.4 Workroom
- 8.5 Specified positions, work stations

9 New technologies

Annex A (informative) Modification or replacement of machine components

- A.1 Restriction of noise generation and transmission
- A.2 Reduction of noise radiation

Annex B (informative) Arrangement of sound sources

- B.1 General
- B.2 Location of high-noise sources together in order to minimize their effect on remote work stations
- B.3 Location of the noisiest sources
- B.4 Arrangement of ancillary tasks
- B.5 Use of remote control

Annex C (informative) Enclosures

Annex D (informative) Silencers

Annex E (informative) Noise barriers and screens in rooms

Annex F (informative) Acoustical treatment of surfaces

F.1 Rooms with a diffuse field
F.2 Rooms with a non-diffuse field
F.3 Practical hints on surface treatment

Annex G (informative) Structure-borne sound insulation

Annex H (informative) Airborne sound insulation of partitions

Annex I (informative) Noise control at the work station

Annex J (informative) Example of a new technology

J.1 Technique
J.2 Applications

Page count: 31