ISO 26101-2:2024-06 (E)

Acoustics - Test methods for the qualification of the acoustic environment - Part 2: Determination of the environmental correction

Contents

Page

Foreword ..... **iv**

Introduction ..... **v**

1 Scope **1**

2 Normative references **1**

3 Terms and definitions **1**

4 Qualification procedures for the acoustic environment **3**
4.1 General 3
4.2 Absolute comparison test 3
4.3 Methods based on room absorption 3
4.4 Inverse-square-law qualification of parallelepiped and cylindrical measurement surfaces 3
4.5 Approximate method based on an estimation of the equivalent absorption area 3

5 Absolute comparison test **4**
5.1 General 4
5.2 Locations of reference sound source in test environment 5
5.3 Information to be recorded and reported 5

6 Determination of the environmental correction based on room absorption **6**
6.1 General 6
6.2 Reverberation method 6
6.3 Two-surface method 6
6.4 Determination of the equivalent absorption area with a reference sound source (direct method) 7
6.5 Information to be recorded and reported 8

7 Inverse-square-law qualification of parallelepiped and cylindrical measurement surfaces **8**
7.1 General 8
7.2 Qualification criteria 9
7.2.1 General 9
7.2.2 Maximum allowable deviations from inverse square law 9
7.2.3 Frequency range to be qualified 9
7.2.4 Maximum qualified volume 9
7.3 Installation of test sound sources and microphone traverses 10
7.3.1 Test sound source requirements 10
7.3.2 Test sound source location 10
7.3.3 Microphone traverse paths for parallelepiped and cylindrical measurement surfaces 10
7.4 Test procedure 12
7.4.1 Analysis bandwidth 12
7.4.2 Generation of sound 12
7.4.3 Spatial resolution of the measurement points 12
7.5 Information to be recorded and reported 13

8 Approximate method based on an estimation of the equivalent absorption area **13**
8.1 General 13
8.2 Information to be recorded and reported 13

Annex A (informative) **Uncertainty of the environmental correction** **14**

Bibliography **15**