DIN EN ISO 26101-2:2025-12 (E)

Acoustics - Test methods for the qualification of the acoustic environment - Part 2: Determination of the environmental correction (ISO 26101-2:2024)

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**