ISO 16032:2024-02 (E)

Acoustics - Measurement of sound pressure level from service equipment or activities in buildings - Engineering method

Contents

Page

Foreword iv

Introduction vi

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Measurement equipment 4

5 Test method -- General 4

6 Measurement procedure 5
6.1 General 5
6.2 Selection of the corner position for the microphone 6
6.3 Selection of the reverberant field positions of the microphone 6
6.4 Measurement of sound pressure levels 6
6.4.1 Measurement of the equivalent continuous sound pressure level 6
6.4.2 Measurement of the maximum sound pressure level 7
6.5 Averaging the sound pressure level 7
6.6 Determination of the background sound pressure level 7
6.7 Standardization or normalization of one-third-octave-band results 7
6.8 Calculation of A- and C-weighted values 8
6.9 Sound sources present in the room (additional measurements) 8

7 Measurement of reverberation time 8

8 Correction for background noise 8

9 Precision 9

10 Test report 10

Annex A (normative) A-weighting and C-weighting correction values 11

Annex B (normative) Operating conditions and operating cycles for measuring the maximum sound pressure level and the equivalent continuous sound pressure level 12

Annex C (informative) Form for the expression of results 19

Bibliography 20