ISO 12999-1:2014-05 (E)

Acoustics - Determination and application of measurement uncertainties in building acoustics - Part 1: Sound insulation

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Detailed uncertainty budget 3

5 Uncertainty determination by inter-laboratory measurements 3
5.1 General 3
5.2 Measurement situations 3
5.3 Measurement conditions 4
5.4 Number of participating laboratories 4
5.5 Stating the test results of inter-laboratory measurements 4
5.6 Choice of test specimen 4
5.7 Laboratories with outlying measurement results 5
5.8 Verification of laboratory results by results of inter-laboratory tests 5

6 Uncertainties associated with single-number values 7

7 Standard uncertainties for typical measurands 7
7.1 General 7
7.2 Airborne sound insulation 7
7.3 Impact sound insulation 8
7.4 Reduction of transmitted impact noise by floor coverings 9

8 Application of the uncertainties 10

Annex A (informative) Example of handling uncertainties in building acoustics 12

Annex B (informative) Example for the calculation of the uncertainty of single number values 15

Annex C (informative) Detailed uncertainty budget 18

Bibliography 20