DIN EN ISO 14257:2011-11 (E)

Acoustics - Measurement and parametric description of of spatial sound distribution curves in workrooms for eval uation of their acoustical performance (ISO 14257:2001)

Contents

Page

Foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Sound distribution in a room 7
4.1 General 7
4.2 Spatial sound distribution curves 7

5 Measurement of the spatial sound distribution curve 9
5.1 Specifications regarding the sound source used for the test 9
5.2 Measurement instrumentation 10
5.3 Measurement path and points 11
5.4 Measurement procedure 12
5.5 Representation of the measured data 12

6 Parametric description of the measured spatial sound distribution curve in view of evaluation of the acoustical performance of workrooms 13
6.1 General 13
6.2 Distance ranges 13
6.3 Determination of the rate of spatial decay of sound pressure levels per distance doubling, DL2 13
6.4 Determination of the excess of sound pressure level with respect to a reference sound distribution curve, DLf 14
6.5 Evaluation of measured data 16

7 Information to be recorded and reported 16

Annex A (normative) Performance requirements for the sound source to be used for the test 18

Annex B (normative) Correction of measured sound distribution curves to account for differences in ground reflections and source directivity 20

Annex C (informative) Example of use of this International Standard 21

Bibliography 29