

DIN EN ISO 11546-1:2010-01 (E)

Acoustics - Determination of sound insulation performances of enclosures - Part 1: Measurements under laboratory conditions (for declaration purposes) (ISO 11546-1:1995)

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Definitions	5
4 Choice of measurement method	6
5 Instrumentation	8
6 Test methods applicable to enclosures with the actual sound source	8
6.1 General	8
6.2 Determination of sound power insulation	8
6.3 Determination of sound pressure insulation at a specified position	9
7 Test methods applicable to enclosures without the actual sound source	9
7.1 General	9
7.2 Reciprocity method	9
7.3 Artificial sound source method	10
7.4 Weighted sound power insulation and sound pressure insulation (reciprocity method)	11
7.5 Estimated noise insulation due to the enclosure for a specific noise spectrum	11
8 Uncertainty	11
9 Information to be recorded	11
9.1 Test object	11
9.2 Test conditions	11
9.3 Instrumentation	12
9.4 Acoustical data	12
9.5 Further information	12
10 Information to be reported	12
Annex A (normative) Artificial sound source	13
Annex B (informative) Example of a source spectrum	15
Annex C (informative) Estimated noise insulation due to the enclosure for a specific noise spectrum	16
Annex D (informative) Bibliography	17
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC	18
Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	19