

Building Acoustics — Estimation of acoustic performance of buildings from the performance of elements —

Part 6: Sound absorption in enclosed spaces

The European Standard EN 12354-6:2003 has the status of a
British Standard

ICS 91.120.20

Contents

Page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Relevant quantities	4
3.1 Building performance.....	4
3.2 Element performance	5
3.3 Other terms and quantities	5
4 Calculation models	6
4.1 General principles.....	6
4.2 Input data	6
4.3 Determination of the total equivalent absorption area	7
4.4 Determination of reverberation time	8
4.5 Interpretations	9
4.6 Limitations	9
5 Accuracy	10
Annex A (normative) List of symbols.....	11
Annex B (informative) Sound absorption of materials	14
B.1 Examples	14
B.2 Calculation.....	14
Annex C (informative) Sound absorption of objects	17
Annex D (informative) Estimation for irregular spaces and/or absorption distribution	18
D.1 Introduction	18
D.2 Irregular absorption distribution	18
D.3 Irregularly shaped spaces.....	22
Annex E (informative) Calculation example.....	24
Bibliography	25