

# ISO 717-1:2020 (E)

## Acoustics — Rating of sound insulation in buildings and of building elements — Part 1: Airborne sound insulation

---

### Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Procedure for evaluating single-number quantities
4.1	General
4.2	Reference values
4.3	Sound spectra
4.4	Method of comparison
4.5	Calculation of spectrum adaptation terms
5	Statement of results
5.1	General
5.2	Statement of performance of building elements
5.3	Statement of requirements and of performance of buildings
Annex A	(informative) Use of spectrum adaptation terms
A.1	Spectrum adaptation term, C
A.2	Spectrum adaptation term, C <sub>tr</sub>
A.3	Application of the spectrum adaptation terms to additional types of noise
Annex B	(informative) Terms and spectra for an enlarged frequency range
Annex C	(informative) Examples of the calculation of single-number quantities and spectrum adaptation terms
Annex D	(normative) Single-number rating for improvement of sound reduction index by linings
D.1	General
D.2	Quantities determined
D.3	Rating procedures
Annex E	(normative) Standard basic elements for measuring the improvement of airborne sound insulation by linings
E.1	Standard basic elements
E.2	Standard wall with low critical frequency (“heavy wall”)
E.3	Standard floor with low critical frequency (“heavy floor”)
E.4	Standard wall with medium critical frequency (“lightweight wall”)