

DIN EN 16272-2:2024-02 (E)

Railway applications - Infrastructure - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics - Airborne sound insulation under diffuse sound field conditions

Contents	Page
European foreword	3
Introduction	5
1 Scope	7
2 Normative references	7
3 Terms, definitions, symbols and abbreviations	8
3.1 Terms and definitions	8
3.2 Symbols and abbreviations	9
4 Test arrangement	9
5 Test procedure and evaluation	10
5.1 Test method	10
5.2 Expression of results	10
6 Measurement uncertainty	10
7 Test report	11
Annex A (normative) Measurement uncertainty	12
A.1 General	12
A.2 Measurement uncertainty based upon reproducibility data	12
A.3 Standard deviation of repeatability and reproducibility of the sound reduction index	12
Annex B (normative) Test report template	14
B.1 Overview	14
B.2 Test object (example)	15
B.3 Test situation (example)	17
B.3.1 Test rooms and test arrangement	17
B.3.2 Test equipment and test procedures	18
B.3.3 Test conditions	19
B.4 Test results (example)	19
B.5 Measurement uncertainty (example)	20
Bibliography	21