

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 |