



BSI Standards Publication

Railway applications — Track — Noise barriers and related devices acting on airborne sound propagation — Test method for determining the acoustic performance

Part 3-1: Normalized railway noise
spectrum and single number ratings
for diffuse field applications

National foreword

This British Standard is the UK implementation of EN 16272-3-1:2012.

The UK participation in its preparation was entrusted to Technical Committee RAE/2, Railway Applications - Track.

A list of organizations represented on this committee can be obtained on request to its secretary.

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**Railway applications - Track - Noise barriers and related devices
acting on airborne sound propagation - Test method for
determining the acoustic performance - Part 3-1: Normalized
railway noise spectrum and single number ratings for diffuse
field applications**

Applications ferroviaires - Voie - Dispositifs de réduction du
bruit - Méthode d'essai pour la détermination des
performances acoustiques - Partie 3-1: Spectre de bruit
ferroviaire normalisé et indices uniques d'évaluation pour
des applications en champs diffus

Bahnanwendungen - Oberbau - Lärmschutzwände und
verwandte Vorrichtungen zur Beeinflussung der
Luftschallausbreitung - Prüfverfahren zur Bestimmung der
akustischen Eigenschaften - Teil 3-1: Standardisiertes
Schienenverkehrslärmspektrum und Einzahl-Angaben für
diffuse Schallfelder

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Foreword

This document (EN 16272-3-1:2012) has been prepared by Technical Committee CEN/TC 256 "Railway applications", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2013, and conflicting national standards shall be withdrawn at the latest by April 2013.

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This European Standard is one of the series EN 16272 "Railway applications — Track — Noise barriers and related devices acting on airborne sound propagation — Test method for determining the acoustic performance" as listed below:

- *Part 1: Intrinsic characteristics — Sound absorption in the laboratory under diffuse sound field conditions*
- *Part 2: Intrinsic characteristics — Airborne sound insulation in the laboratory under diffuse sound field conditions*
- *Part 3-1: Normalized railway noise spectrum and single number ratings for diffuse field applications*
- *Part 3-2: Normalized railway noise spectrum and single number ratings for direct field applications*¹⁾
- *Part 4: Intrinsic characteristics — In situ values of sound diffraction under direct sound field conditions*¹⁾
- *Part 5: Intrinsic characteristics — In situ values of sound reflection under direct sound field conditions*²⁾
- *Part 6: Intrinsic characteristics — In situ values of airborne sound insulation under direct sound field conditions*¹⁾
- *Part 7: Extrinsic characteristics — In situ values of insertion loss*²⁾

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1) In preparation.

2) This document has been prepared as a CEN Technical Specification and is in preparation.