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Railway applications — Acoustics — Noise measurement inside railbound vehicles

*Applications ferroviaires — Acoustique — Mesurage du bruit à
l'intérieur des véhicules circulant sur rails*



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Foreword

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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This document was prepared by the European Committee for Standardization (CEN) Technical Committee CEN/TC 256, *Railway applications*, in collaboration with ISO Technical Committee ISO/TC 43, *Acoustics*, Subcommittee SC 1, *Noise*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This third edition cancels and replaces the second edition (ISO 3381:2005), which has been technically revised.

The main changes compared to the previous edition are as follows:

- new structure of the document to align it with the structure of ISO 3095;
- an improved selection process of the measurement positions – see [Clause 5](#);
- new measurement procedures for noise in driver's cab – see [Clause 7](#);
- improved specifications of the vehicle conditions for the different types of tests - see [6.4](#), [7.3](#), [8.4](#) and [9.4](#);
- an improved assessment of the tonality - see [6.7](#), [8.7](#) and [9.8.2](#).
- an improved indirect assessment of the track acoustic characteristics – see [8.3.4](#), [9.3](#) and [Annex C](#);
- precisions for measurement in specific environments (tunnels, ...) – see [Annex D](#);
- an assessment of measurement uncertainties – see [Annex E](#).

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