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GB/Z 33521.34-2026

Mechanical vibration - Ground-borne noise and vibration arising from rail systems - Part 34: Characterizing irregularity of the running surfaces with respect to vibration excitation

机械振动 轨道系统产生的地面诱导结构噪声和地传振动 第34部分：与振动激励有关的运行表面不规则性表征

(English Translation)

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Foreword

GB/Z 33521.34-2026 is a national guiding technical document (GB/Z) of the People's Republic of China, issued on 27 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the Standardization Administration of China.

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1 Scope

Part 34 of the series on ground-borne noise and vibration arising from rail systems, this guiding technical document concerns the characterisation of irregularity of running surfaces with respect to vibration excitation. Irregularities of rail and wheel surfaces are a source of excitation, so describing them in a consistent way supports prediction and assessment of vibration near railways. It adopts an international standard.

Railway and metro operators, track designers, acoustics and vibration consultants, environmental assessors and research institutes can use it. Neighbours of railway lines are often affected by structure-borne noise, so reliable data on surface condition matters to impact studies.

As a GB/Z document it gives guidance rather than mandatory requirements. It is meant to be read within its wider series on rail-induced noise and vibration. It was issued on 27 August 2026 by the Standardization Administration of China.

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