



BSI Standards Publication

Railway applications — Ballastless track systems

Part 1: General requirements

National foreword

This British Standard is the UK implementation of EN 16432-1:2017. BSI, as a member of CEN, is obliged to publish EN 16432-1:2017 as a British Standard.

Attention is drawn to the fact that during the development of this European Standard, the UK committee identified issues relevant to the UK implementation of the Standard.

It is the view of the UK committee that further clarity is necessary for designers and practitioners within the UK. The area for clarification is Section 5 Railway Traffic Loading.

Users are advised that:

- Load model 71 alone may not represent the most onerous case for a specific project and designers should seek to identify all relevant load models for application.
- Attention is drawn to the need to determine the worst-case combination of vertical, lateral and longitudinal loads.
- No information is provided concerning fatigue analysis and its application.
- Clause 5.1.2.2 omits to mention that load model 71 excludes representation of passenger trains at speeds >200 km/h.
- The formula stated in Clause 5.1.3.2 equates to the use in other Standards of Nosing Loads combined with centrifugal effects.
- Users are directed to SPARK in T1073 Phase 1 Summary Report for further detailed information concerning loading.

The UK participation in its preparation was entrusted to Technical Committee RAE/2, Railway Applications - Track. Membership of the sub-committee Ballastless Track included representation from: HS2, Network Rail, London Underground, UK Tram, Balfour Beatty, Amey, Rhomberg Sersa UK, Carillion, Beazley Sharp, Arup, Mott MacDonald, Schwihag, ERT, Pandrol, WSP, Tiflex and RSSB.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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**Railway applications - Ballastless track systems - Part 1:
General requirements**

Applications ferroviaires - Systèmes de voie sans
ballast - Partie 1 : Exigences générales

Bahnanwendungen - Feste Fahrbahn-Systeme - Teil 1:
Allgemeine Anforderungen

This European Standard was approved by CEN on 11 May 2017.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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