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Irish Standard
I.S. EN 13848-6:2014

Railway applications - Track - Track geometry quality - Part 6: Characterisation of track geometry quality

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EN 13848-6

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English Version

Railway applications - Track - Track geometry quality - Part 6: Characterisation of track geometry quality

Applications ferroviaires - Voie - Qualité géométrique de la voie - Partie 6: Caractérisation de la qualité géométrique de la voie

Bahnanwendungen - Oberbau - Qualität der Gleisgeometrie - Teil 6: Charakterisierung der geometrischen Gleislagequalität

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Foreword

This document (EN 13848-6:2014) 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of an identical text or by endorsement, at the latest by September 2014, and conflicting national standards shall be withdrawn at the latest by September 2014.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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This European Standard is one of the series EN 13848 “*Railway applications – Track – Track geometry quality*” as listed below:

— *Part 1: Characterisation of track geometry*

— *Part 2: Measuring systems – Track recording vehicles*

— *Part 3: Measuring systems – Track construction and maintenance* machines

— *Part 4: Measuring systems – Manual and lightweight devices*

— *Part 5: Geometric quality levels – Plain line*

— *Part 6: Characterisation of track geometry quality*

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1 Scope

This European Standard characterizes the quality of track geometry based on parameters defined in EN 13848-1 and specifies the different track geometry classes which should be considered.

This European Standard covers the following topics:

— description of track geometry quality;

— classification of track quality according to track geometry parameters;

— considerations on how this classification can be used;

— this European Standard applies to high-speed and conventional lines of 1 435 mm and wider gauge;

— this European Standard forms an integral part of EN 13848 series.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13848-1, *Railway applications - Track - Track geometry quality - Part 1: Characterisation of track geometry*

3 Terms, definitions, symbols and abbreviations

3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1.1
re-colouring
algorithm which modifies the spectral content of a signal aimed to compensate or apply the characteristics of a specific measuring system

Note 1 to entry: The re-colouring is used in EN 13848 series to convert a chord measurement signal into a *D1* or *D2* measurement signal.

3.1.2
track quality class (TQC)
characterization of track geometry quality as a function of speed and expressed as a range of TQIs

3.1.3
track quality index (TQI)
value that characterises track geometry quality of a track section based on parameters and measuring methods compliant with EN 13848 series

3.2 Symbols and abbreviations

For the purposes of this document, the following symbols and abbreviations apply.

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