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## ILNAS-EN 13481-5:2012

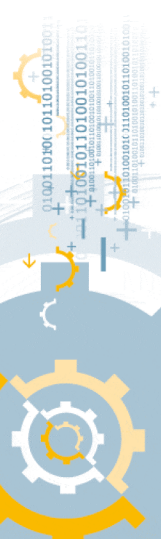
### **Railway applications - Track - Performance requirements for fastening systems - Part 5: Fastening systems for slab track with rail on the**

Applications ferroviaires - Voie -  
Exigences de performance pour les  
systèmes de fixation - Partie 5: Systèmes  
de fixations des voies sans ballast ou

Bahnanwendungen - Oberbau -  
Leistungsanforderungen für  
Schienenbefestigungssysteme - Teil 5:  
Befestigungssysteme für feste Fahrbahn

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## National Foreword

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EUROPEAN STANDARD <sup>ILNAS-EN 13481-5:2012</sup> **EN 13481-5**  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

May 2012

ICS 93.100

Supersedes EN 13481-5:2002

English Version

**Railway applications - Track - Performance requirements for  
fastening systems - Part 5: Fastening systems for slab track with  
rail on the surface or rail embedded in a channel**

Applications ferroviaires - Voie - Exigences de performance  
pour les systèmes de fixation - Partie 5: Systèmes de  
fixations des voies sans ballast ou voies avec rails enrobés

Bahnanwendungen - Oberbau - Leistungsanforderungen für  
Schienenbefestigungssysteme - Teil 5:  
Befestigungssysteme für feste Fahrbahn mit aufgesetzten  
oder in Kanälen eingebetteten Schienen

This European Standard was approved by CEN on 27 April 2012.

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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.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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## Foreword

This document (EN 13481-5:2012) 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 November 2012, and conflicting national standards shall be withdrawn at the latest by November 2012.

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.

This document supersedes EN 13481-5:2002.

The main changes in this revision of EN 13481-5:2002 are as follows:

- a) the scope has been extended to include fastening systems for embedded rail (Clause 1);
- b) new categories of fastening systems have been introduced (Clause 1, Table 1);
- c) the ranges of test loads have been extended to cover the new categories of fastening systems (5.2, Table 2 and 5.3, Table 3);
- d) advice on attenuation of noise and vibration has been added in a new annex (Annex A).

This European Standard is one of the series EN 13481 "Railway applications – Track – Performance requirements for fastening systems" which consists of the following parts:

- *Part 1: Definitions*
- *Part 2: Fastening systems for concrete sleepers*
- *Part 3: Fastening systems for wood sleepers*
- *Part 4: Fastening systems for steel sleepers*
- *Part 5: Fastening systems for slab track with rail on the surface or rail embedded in a channel*
- *Part 7: Special fastening systems for switches and crossings and check rails*

NOTE Part 6 does not exist in this series.

These European Standards are supported by the test methods in the series EN 13146 "Railway applications – Track – Test methods for fastening systems".

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZA, which is an integral part of this document.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.