

SVENSK STANDARD

SS-EN 13481-1:2012



Fastställt/Approved: 2012-05-28
Publicerad/Published: 2012-05-30
Utgåva/Edition: 2
Språk/Language: engelska/English
ICS: 01.040; 01.040.93; 93.100

Järnvägar – Spår – Prestandakrav för befästningssystem – Del 1: Definitioner

Railway applications – Track – Performance requirements for fastening systems – Part 1: Definitions



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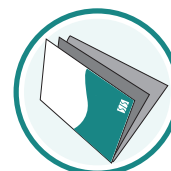
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Europastandarden EN 13481-1:2012 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 13481-1:2012.

Denna standard ersätter SS-EN 13481-1, utgåva 1 och SS-EN 13481-1/A1:2006, utgåva 1.

The European Standard EN 13481-1:2012 has the status of a Swedish Standard. This document contains the official version of EN 13481-1:2012.

This standard supersedes the Swedish Standard SS-EN 13481-1, edition 1 and SS-EN 13481-1/A1:2006, edition 1.

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Denna standard är framtagen av kommittén för Järnvägar, SIS/TK 254.

Har du synpunkter på innehållet i den här standarden, vill du delta i ett kommande revideringsarbete eller vara med och ta fram andra standarder inom området? Gå in på www.sis.se - där hittar du mer information.

EUROPEAN STANDARD

EN 13481-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2012

ICS 01.040.93; 93.100

Supersedes EN 13481-1:2002

English Version

Railway applications - Track - Performance requirements for fastening systems - Part 1: Definitions

Applications ferroviaires - Voie - Exigences de performance pour les systèmes de fixation - Partie 1: Définitions

Bahnanwendungen - Oberbau - Leistungsanforderungen für Schienenbefestigungssysteme - Teil 1: Definitionen

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

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 13481-1:2012) 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 13481-1:2002.

In this revision of EN 13481-1:2002 the main changes are as follows:

- a) A range of categories of fastening systems have been included in 3.1;
- b) the definition of embedded rail (3.12) has been extended;
- c) definitions of low and high frequency dynamic stiffness have been added (3.25).

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(s).

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.

1 Scope

This European Standard specifies the definitions of the terms used in the EN 13146 series and in the EN 13481 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 13146-1:2012, *Railway applications – Track – Test methods for fastening systems – Part 1: Determination of longitudinal rail restraint*

EN 13146-2:2012, *Railway applications – Track – Test methods for fastening systems – Part 2: Determination of torsional resistance*

EN 13146-3:2012, *Railway applications – Track – Test methods for fastening systems – Part 3: Determination of attenuation of impact loads*

EN 13146-4:2012, *Railway applications – Track – Test methods for fastening systems – Part 4: Effect of repeated loading*

EN 13146-5:2012, *Railway applications – Track – Test methods for fastening systems – Part 5: Determination of electrical resistance*

EN 13146-6:2012, *Railway applications – Track – Test methods for fastening systems – Part 6: Effect of severe environmental conditions*

EN 13146-7:2012, *Railway applications – Track – Test methods for fastening systems – Part 7: Determination of clamping force*

EN 13146-8:2012, *Railway applications – Track – Test methods for fastening systems – Part 8: In service testing*

EN 13146-9:2009+A1:2011, *Railway applications – Track – Test methods for fastening systems – Part 9: Determination of stiffness*

EN 13232-1, *Railway applications – Track – Switches and crossings – Part 1: Definitions*

EN 13481 (all parts), *Railway applications – Track – Performance requirements for fastening systems*

3 Terms and definitions

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

3.1

categories of fastening system

typical types of fastening system related to speed and axle load of trains on tracks, for which they are designed, and the rail section used