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Railway applications - Track - Test methods for fastening systems - Part 10: Proof load test for pull-out resistance

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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EUROPEAN STANDARD
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English Version

**Railway applications - Track - Test methods for fastening
systems - Part 10: Proof load test for pull-out resistance**

Applications ferroviaires - Voie - Méthodes d'essai
pour les systèmes de fixation - Partie 10 : Essai de
charge d'épreuve pour la résistance à l'arrachement

Bahnanwendungen - Oberbau - Prüfverfahren für
Schienenbefestigungssysteme - Teil 10:
Belastungsprüfung für den Auszugswiderstand

This European Standard was approved by CEN on 19 November 2016.

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

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European foreword

This document (EN 13146-10:2017) 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of an identical text or by endorsement, at the latest by July 2017 and conflicting national standards shall be withdrawn at the latest by July 2017.

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This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This European Standard is one of the series EN 13146 “*Railway applications — Track — Test methods for fastening systems*” which consists of the following parts:

- *Part 1: Determination of longitudinal rail restraint*
- *Part 2: Determination of torsional resistance*
- *Part 3: Determination of attenuation of impact loads*
- *Part 4: Effect of repeated loading*
- *Part 5: Determination of electrical resistance*
- *Part 6: Effect of severe environmental conditions*
- *Part 7: Determination of clamping force*
- *Part 8: In-service testing*
- *Part 9: Determination of stiffness*
- *Part 10: Proof load test for pull-out resistance*

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1 Scope

This European Standard specifies a test procedure to confirm that the force necessary to pull the anchorage of a rail fastening assembly out of the sleeper or other supporting element is greater than a prescribed value (i.e. it is a 'proof load' test).

This test is for components of the fastening system which are:

- a) cast into concrete during the manufacture of sleepers or other supporting elements;
- b) glued into the cast or drilled holes in concrete; or
- c) screwed or otherwise attached to wood, plastic or steel sleepers or other supporting elements.

This test is not applicable to embedded rails.

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 13481-1, *Railway applications — Track — Performance requirements for fastening systems — Part 1: Definitions*

EN ISO 7500-1, *Metallic materials — Calibration and verification of static uniaxial testing machines — Part 1: Tension/compression testing machines — Calibration and verification of the force-measuring system (ISO 7500-1)*

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