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Railway applications - Track - Concrete sleepers and ra, al ele bearers - Part 5 : Special elements



FESTI STANDARDI FESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 13230-5:2009 sisaldab Euroopa standardi EN 13230-5:2009 ingliskeelset teksti.

This Estonian standard EVS-EN 13230-5:2009 consists of the English text of the European standard EN 13230-5:2009.

Standard on kinnitatud Eesti Standardikeskuse 30.11.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.11.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

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EUROPEAN STANDARD

EN 13230-5

NORME EUROPÉENNE EUROPÄISCHE NORM

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Supersedes EN 13230-5:2002

English Version

Railway applications - Track - Concrete sleepers and bearers - Part 5: Special elements

Applications ferroviaires - Voie - Traverses et supports en béton - Partie 5 : Eléments spéciaux

Bahnanwendungen - Oberbau - Gleis- und Weichenschwellen aus Beton - Teil 5: Sonderformen

This European Standard was approved by CEN on 14 May 2009.

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

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Foreword

This document (EN 13230-5:2009) 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of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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 13230-5:2002.

This European Standard is one of the series EN 13230 "Railway applications – Track – Concrete sleepers and bearers", which consist of the following parts:

- Part 1: General requirements
- Part 2: Prestressed monoblock sleepers
- Part 3: Twin-block reinforced sleepers
- Part 4: Prestressed bearers for switches and crossings
- Part 5: Special elements

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, 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 and the United Kingdom.

Introduction

This part of EN 13230 defines the specific requirements relating to special elements.

These are additional requirements to the EN 13230-1 and are necessary to have a complete standard dealing with special elements.

These special elements are prestressed concrete special elements as special sleepers or special bearers and reinforced concrete special elements. They are generally used within specific domains of the track for ballastless tracks, for bridges, or with check rails for instance. This part of EN 13230 defines additional technical criteria and control procedures related to the design and manufacture of special elements and complements the requirements of EN 13230-2, EN 13230-3 and EN 13230-4. is a provious development of the state of th

1 Scope

This part of EN 13230 defines additional technical criteria and control procedures related to the design and manufacture of special elements.

2 Normative references

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

EN 13230-1:2009, Railway applications – Track – Concrete sleepers and bearers – Part 1: General requirements

EN 13230-2:2009, Railway applications – Track – Concrete sleepers and bearers – Part 2: Prestressed monoblock sleepers

EN 13230-3:2009, Railway applications – Track – Concrete sleepers and bearers – Part 3: Twin-block reinforced sleepers

EN 13230-4:2009, Railway applications – Track – Concrete sleepers and bearers – Part 4: Prestressed bearers for switches and crossings

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13230-1:2009 and the following apply.

3.1

special element

any individual concrete element supporting rails in the field of railway track construction, to which this standard is relevant, but which is not included in EN 13230-2, EN 13230-3 or EN 13230-4.

4 Requirements

A special element shall be defined by detailed drawings including tolerances.

All the tolerances specified in EN 13230-1:2009 which relate to the concrete elements, the rails, the fastening system and gauge shall be specified by the purchaser.

The purchaser shall specify the positive and negative design bending moments to be applied:

- a) at the rail seat section;
- b) at the centre section.

5 Product testing

EN 13230-1:2009, Clause 7 shall apply for any special element supporting rails for railway track applications.

Depending on the type of element and whether the concrete is prestressed or reinforced, the appropriate following clauses shall be for application: