



Institut luxembourgeois de la normalisation  
de l'accréditation, de la sécurité et qualité  
des produits et services

**ILNAS-EN 13674-3:2006**

**Railway applications - Track - Rail -  
Part 3: Check rails**

Applications ferroviaires - Voie - Rail -  
Partie 3: Contre-rails

Bahnanwendungen - Oberbau - Schienen  
- Teil 3: Radlenkerschienen

**04/2006**



## National Foreword

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EUROPEAN STANDARD <sup>ILNAS-EN 13674-3:2006</sup> **EN 13674-3**  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

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English Version

## Railway applications - Track - Rail - Part 3: Check rails

Applications ferroviaires - Voie – Rails - Partie 3: Contre-  
rails

Bahnanwendungen - Oberbau - Schienen - Teil 3:  
Radlenkerschienen

This European Standard was approved by CEN on 13 February 2006.

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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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## Foreword

This European Standard (EN 13674-3:2006) 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of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

This European Standard has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association to support Essential Requirements of EU Directive 96/48/EC of 23 July 1996 on the interoperability of the trans-European high-speed rail system amended by the Directive 2004/50/EC of the European Parliament and of the Council of 29 April 2004.

For relationship with EU directives, see informative Annex ZA, which is an integral part of this European Standard.

This part of EN 13674 is the third of the series EN 13674 *Railway applications — Track — Rail* which consists of the following parts:

- Part 1: Vignole railway rails 46 kg/m and above;
- Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above;
- Part 3: Check rails;
- Part 4: Vignole railway rails from 27 kg/m to, but excluding 46 kg/m.

Other standards planned for publication include the following:

- prEN 14587-1 Railway applications — Track — Flash butt welding of rails — Part 1: New R220, R260, R260Mn and R350HT grade rails in a fixed plant;
- prEN 14587-2 Railway applications — Track — Flash butt welding of rails — Part 2: New R220, R260, R260Mn and R350HT grade rails by mobile welding machines at sites other than at a fixed plant;
- prEN 14587-3 Railway applications — Track — Flash butt welding of rails — Part 3: Welding in association with crossing construction;
- prEN 14730-1 Railway applications — Track — Aluminothermic welding of rails — Part 1: Approval of welding processes;
- prEN 14730-2 Railway applications — Track — Aluminothermic welding of rails — Part 2: Qualification of aluminothermic welders, approval of contractors and acceptance of welds;
- prEN 14811 Railway applications — Track — Special purpose rail — Grooved and associated construction;
- prEN xxxxx Railway applications — Track — Restoration of rails by electric arc welding.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, 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 United Kingdom.

## 1 Scope

This European Standard specifies check rail profiles which have been designed for this purpose. It does not cover guard rails which are to protect vehicle, bridge, viaduct and other structures in the event of a derailment.

Three grades of steel and five rail profiles are specified.

## 2 Normative references

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

EN ISO 6506-1, *Metallic materials — Brinell hardness test — Part 1: Test method (ISO 6506-1:2005)*

## 3 Terms and definitions

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

### 3.1

#### **check rail**

rail laid close to the gauge face of a running rail which does not carry a railway wheel but ensures, by guidance of the wheel, the safe passage of both wheels of the axle through small radius curves, switches, crossings by not allowing the flange of either wheel to ride up over the running surface of the running rails

### 3.2

#### **guard rail**

non-running rail mounted either inside or outside the running rail to protect vehicle, bridge, viaduct and other structures in the event of a derailment

### 3.3

#### **acceptance tests**

tests carried out as part of the process and product control system, normally on a heat, sequence or tonnage basis

### 3.4

#### **running rail**

profile that is designed to carry a railway wheel

## 4 Information to be supplied by the purchaser

The purchaser shall supply the supplier with the following information when inviting tenders to supply:

- a) rail profiles (see Annex A);
- b) steel grades (see Table 1);
- c) lengths of rail.

## 5 Steel grades

The applicable steel grades are given in Table 1.