



**SLOVENSKI STANDARD**  
**kSIST FprEN 16273:2014**  
**01-julij-2014**

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**Železniške naprave - Zgornji ustroj - Prekovane prehodne tirnice**

Railway applications - Track - Forged rail transitions

Bahnanwendungen - Oberbau - Geschmiedete Schienenübergänge

Applications ferroviaires - Voie - Rails forgés

**Ta slovenski standard je istoveten z: FprEN 16273**

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**ICS:**

45.080	Tračnice in železniški deli	Rails and railway components
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**FprEN 16273**

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English Version

## Railway applications - Track - Forged rail transitions

This draft European Standard is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 256.

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**CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## **Foreword**

This document (FprEN 16273:2014) has been prepared by Technical Committee CEN/TC 256 "Railway applications", the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

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

## Introduction

This European Standard has 3 main topics:

- requirements of a forged part;
- procedure approval;
- forged rail production following approval.

This European Standard satisfies the needs of the railway authority and the manufacturer should achieve the specified requirements of this standard.

## FprEN 16273:2014 (E)

### 1 Scope

This European Standard specifies the requirements for the approval of a process wherein a rail of one profile has part of its length forged to a different profile, together with the requirements for subsequent forging production and product acceptance.

This European Standard applies to new railway rails according to EN 13674-1, and to switch and crossing rails used in conjunction with railway rails 46 kg/m and above according to EN 13674-2, to be welded or fish plated to make up switch rails or transition rails intended for use on railway infrastructures.

### 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 13232–5:2005+A1:2011, *Railway applications – Track – Switches and crossings – Part 5: Switches*

EN 13674-1, *Railway applications - Track - Rail - Part 1: Vignole railway rails 46 kg/m and above*

EN 13674-2, *Railway applications – Track – Rail – Part 2: Switch and crossing rails used in conjunction with Vignole railway rails 46 kg/m and above*

EN ISO 3452-1, *Non-destructive testing - Penetrant testing - Part 1: General principles (ISO 3452-1)*

EN ISO 9934 (all parts), *Non-destructive testing – Magnetic particle testing (ISO 9934)*

### 3 Terms and definitions

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

#### 3.1

##### **manufacturer**

company that produces forged switch and transition rails

#### 3.2

##### **purchaser**

buyer of the forged switch or transition rails

#### 3.3

##### **railway infrastructure**

permanent way of national or private railways

#### 3.4

##### **specimen**

portion detached from a forged rail transition and prepared as required for testing

#### 3.5

##### **profile finishing**

operation by which the rail or relevant part of the component is returned to required profile

Note 1 to entry: This operation can be by grinding, milling, planing or any other suitable means.