

Railway applications - Infrastructure - Non-destructive testing on rails in track - Part 5: Non-destructive testing on welds in track

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

**Railway applications - Infrastructure - Non-destructive
testing on rails in track - Part 5: Non-destructive testing on
welds in track**

Applications ferroviaires - Infrastructure - Essais non
destructifs sur les rails en voie - Partie 5 : Essais non
destructifs sur les soudures en voie

Bahnanwendungen - Oberbau - Zerstörungsfreie
Prüfung an Schienen im Gleis - Teil 5: Zerstörungsfreie
Prüfung an Schweißungen im Gleis

This European Standard was approved by CEN on 27 February 2023.

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Contents

Page

European foreword	4
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions	6
4 Symbols and abbreviations	6
5 NDT methods to detect defects in rail welds.....	7
5.1 General.....	7
5.2 Visual testing – VT.....	9
5.2.1 General.....	9
5.2.2 VT inspection zone	9
5.2.3 Example of defects	9
5.3 Ultrasonic Testing — UT.....	9
5.3.1 General.....	9
5.3.2 UT inspection zone	9
5.3.3 Example of defects	9
6 Description of weld defects	10
6.1 Defects in electric arc repair welds.....	10
6.1.1 Volumetric defects - Porosity	10
6.1.2 Planar defects.....	11
6.2 Defects in flash butt welds (Tri-metallic welds).....	15
6.3 Defects in aluminothermic weld	17
6.3.1 Volumetric defects.....	17
6.3.2 Planar defects.....	23
6.3.3 Thermal contraction (Hot Tear).....	27
6.3.4 Fatigue cracks	28
7 Documentation	30
7.1 General.....	30
7.2 Requirements of documentation VT.....	30
7.3 Requirements of documentation UT.....	30
Annex A (informative) Visual testing procedures on welds.....	31
A.1 General.....	31
A.2 Visual testing on welds	31
A.2.1 Testing equipment.....	31
A.2.2 Testing preparation and procedure.....	31
Annex B (informative) Ultrasonic testing procedures on welds.....	32
B.1 General.....	32
B.2 Ultrasonic testing on welds	32
B.2.1 Testing equipment.....	32

B.2.2	Testing preparation and procedures	39
B.3	Phase W: Walking stick.....	39
B.3.1	General	39
B.3.2	Overview	39
B.3.3	Reference block for inspection W.1	39
B.3.4	Reference block for inspections W.2 and W.3	39
B.3.5	Transfer correction applied to inspections W.1 to W.3	40
B.3.6	Couplant	40
B.3.7	Inspection zone	40
B.4	Phase H: Single probes.....	40
B.4.1	General	40
B.4.2	Overview	40
B.4.3	Reference block for inspection H.1	40
B.4.4	Reference block for inspection H.2	41
B.4.5	Reference block for inspections H.3 and H.4	41
B.4.6	Transfer correction applied to inspections H.1 to H.4	41
B.4.7	Couplant	44
B.4.8	Inspection zones	44
B.5	Phase T: Tandem 45° on the running surface.....	48
B.5.1	Overview	48
B.5.2	Reference block for inspection T.1.....	48
B.5.3	Transfer correction applied to inspection T.1	48
B.5.4	Couplant	48
B.5.5	Inspection zone for T.1	48
B.6	Phase TS: Tandem 70° on the side of the rail head, web and foot.....	49
B.6.1	Overview	49
B.6.2	Reference block for inspection TS.1	50
B.6.3	Reference block for inspection TS.2	51
B.6.4	Reference block for inspection TS.3	52
B.6.5	Transfer correction applied to inspections TS.1 to TS.3	52
B.6.6	Couplant	53
B.6.7	Inspection zones	53
	Bibliography	55

European foreword

This document (EN 16729-5:2023) 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 2023, and conflicting national standards shall be withdrawn at the latest by October 2023.

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Introduction

The procedures are intended for new welds but are applicable to all welds on demand of the responsible IM. If welds are to be tested, they should be tested by the procedures defined in this document.

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1 Scope

This document specifies the procedures of visual testing and ultrasonic testing of rail welds in track for rail profiles meeting the requirements of EN 13674-1.

This document specifies the principles for testing procedures for manufactured welds. This document defines the procedure for repair welds and joint welds. This document does not define the number of welds to be tested.

This document is not concerned with the approval of the welding procedure.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

collar

excess of weld material outside the rail profile

3.2

registration level

ultrasonic signal amplitude where indications shall be recorded, not to be confused with acceptance criteria

3.3

tandem rig

rig that ensures a correct distance between two ultrasonic probes

3.4

testing zone

location where probes or devices are placed/moved on the rail surface

3.5

inspection zone

area or volume which is checked for indications

4 Symbols and abbreviations

For the purposes of this document, the abbreviations in Table 1 apply.