DAkkS
Deutsche
Akkreditierungsstelle

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV
Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition

Accreditation

The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

IFF Engineering & Consulting GmbH
Anton-Zickmantel-Straße 50, 04249 Leipzig

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

Static and dynamic strength tests on railway-specific components; impact tests of passenger and freight wagons; bogie frame tests; testing of buffers and draw gear and their components

The accreditation certificate shall only apply in connection with the notice of accreditation of 23.11.2020 with the accreditation number D-PL-11332-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the certificate: **D-PL-11332-01-00**

Berlin, 23.11.2020	Dr Heike Manke Head of Division	Translation issued: 08.02.2021	Head of Division

The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
https://www.dakks.de/en/content/accredited-bodies-dakks

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkkS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkkS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkkS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:
EA: www.european-accreditation.org
ILAC: www.ilac.org
IAF: www.iaf.nu

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Appendix to accreditation certificate D-PL-11332-01-00 in accordance with DIN EN ISO/IEC 17025:2018

Valid from: **23.11.2020**

Issue date: 23.11.2020

Holder of certificate:

IFF Engineering & Consulting GmbH
Anton-Zickmantel-Straße 50, 04249 Leipzig

Tests in the areas of:

Static and dynamic strength tests on railway-specific components; impact tests of passenger and freight wagons; bogie frame tests; testing of buffers and draw gear and their components

The testing laboratory is permitted to apply the listed standardised or equivalent test methods with different versions of the standards without obtaining prior notification and consent from DAkkS. The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

The requirements for the management system in DIN EN ISO/IEC 17025 are drawn up in a language relevant to testing laboratories and, taken as a whole, are in accordance with the principles of DIN EN ISO 9001.

The certificate, including the certificate appendix, reflects the status on the issue date. The current status of the scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (DAkkS) at https://www.dakks.de/en/content/directory-accredited-bodies

Abbreviations used: see last page

Appendix to accreditation certificate D-PL-11332-01-00

1 Structural strength tests on rail vehicles

DIN EN 12663-1 2015-03	Structural requirements of railway vehicle bodies – Part 1: Locomotives and passenger rolling stock (and alternative method for freight wagons) *(Section 8)*
DIN EN 12663-2 2010-07	Structural requirements of railway vehicle bodies – Part 2: Freight wagons *(Sections 5 to 9)*
UIC-Kodex 566 1990-01	Loadings of coach bodies and their components
UIC-Kodex 577 2012-01	Freight wagons – Stresses

2 Bogie frame tests

DIN EN 13749 2011-06	Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames *(Sections 6.2.3 and 6.2.4 and Annexes C, F, G)*
UIC-Kodex 510-3 1994-07	Freight wagons – Strength testing of 2 and 3-axle bogies on test rig
UIC-Kodex 515-4 1993-01	Passenger rolling stock – Trailer bogies – Running gear – Bogie frame structure strength tests
UIC-Kodex 615-4 2003-02	Motive power units – Bogies and running gear – Bogie frame structure strength tests

3 Testing of buffers and draw gear and their components

prDIN EN 15551 2019-08	Railway applications – Railway rolling stock – Buffers *(Annex B, C, D, E, F, G, I)*
prDIN EN 15566 2019-08	Railway applications – Railway rolling stock – Draw gear and screw coupling *(Annex A1, A2.1-A2.4, E 3.4, E 6.2, E 6.3, F 4.5, F 8.5, G 1.4, G 1.5, G 2.2, G 2.3 (only static and dynamic tensile and compression tests))*

DIN EN 16019 2014-06	Railway applications – Automatic coupler – Performance requirements, specific interface geometry and test method *(Section 5.1.2)*
ERRI B 51/RP 27 1995-07	Buffers and draw gear – Design and testing of new draw gear for freight wagons
ERRI B 51/RP 28 1995-09	Buffers and draw gear – Passenger coaches – Service life testing of hydrodynamic and hydrostatic coach buffers
UIC-Kodex 526-1 2008-07	Freight wagons – Buffers with a stroke of 105 mm

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. (German Institute for Standardisation)
EN	European standard
ERRI	European Rail Research Institute
prDIN	Draft DIN standard
UIC	International Union of Railways

1. Structural strength tests on rail vehicles

DIN EN 12663-1:2010-07	Railway applications - Structural requirements of railway vehicle bodies – Part 1: Locomotives and passenger rolling stock (und alternative method for freight wagons) (Section 8)
DIN EN 12663-1:2015-03	Railway applications - Structural requirements of railway vehicle bodies – Part 1: Locomotives and passenger rolling stock (und alternative method for freight wagons) (Section 8)
DIN EN 12663-2:2010-07	Railway applications – Structural requirements of railway vehicle bodies – Part 2: Freight wagons (section 5-9)
UIC 566 VE 1990-01	Loadings of coach bodies and their components
UIC 577 2012-01	Freight wagons - Stresses

2. Bogie frame tests

DIN EN 13749:2011-06	Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames (Section 6.2.3 and 6.2.4 and Annexes C, F, G)
DIN EN 13749:2021-05	Railway applications – Wheelsets and bogies – Method of specifying the structural requirements of bogie frames (Section 6.2.3 and 6.2.4 and Annexes C, F, G)
UIC-Kodex 510-3:1994-07	Freight wagons – Strength testing of 2 and 3-axle bogies on test rig
UIC-Kodex 515-4:1993-01	Passenger rolling stock – Trailer Bogies – Running gear – Bogie frame structure strength tests
UIC-Kodex 615-4:2003-02	Motive power units – Bogies and running gear – Bogie frame structure strength tests

3. Testing of buffers and draw gears and their components

DIN EN 15551:2011-01	Railway applications – Railway rolling stock - Buffers (section 5.4 and 5.5 as well as Annex B, C, D, E, F, L)
DIN EN 15551:2017-05	Railway applications - Railway rolling stock - Buffers (Section B, C, D, E, F, G, I)
prEN 15551:2019-08	Railway applications - Railway rolling stock - Buffers (Section B, C, D, E, F, G, I)
DIN EN 15566:2011-02	Railway applications - Railway rolling stock – Draw gear and screw coupling (Annex D.3.4, D.6.3.6.3, D6.4.4, E4.3,E4.5, E.8.7.2.8, E8.7.3, F.1.4, F.1.5, F.2.2 und F.2.3
DIN EN 15566:2016-12	Railway applications - Railway rolling stock – Draw gear and screw coupling (Annex A1, A2.1-A2.4, E3.4, E6.2, E6.3, F4.5, F8.6, G1.4, G1.5, G2.2, G2.3(only static and dynamic tensile and compression tests))
prEN 15566:2019-08	Railway applications - Railway rolling stock – Draw gear and screw coupling (Annex A1, A2.1-A2.4, E3.4, E6.2, E6.3, F4.5, F8.5, G1.4, G1.5, G2.2, G2.3(only static and dynamic tensile and compression tests))
DIN EN 16019:2014-06	Railway applications – Automatic coupler – Performance requirements, specific interface geometry and test method (Section 5.1.2)
ERRI B51/RP27:1995-07	Buffers and draw gear – Design and testing of new draw gear for freight wagons
ERRI B51/RP28:1995-09	Buffers and draw gear – Passenger coaches – Service life testing of hydrdynamic and hydrostatic coach buffers
UIC 526-1:2008-07	Freight wagons – Buffers with a stroke of 105 mm