

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-12001-04-03 according to DIN EN ISO/IEC 17025:2018

Valid from: 23.08.2023

Date of issue: 23.08.2023

This annex is a part of the accreditation certificate D-PL-12001-04-00.

Holder of partial accreditation certificate:

**Industrieanlagen- Betriebsgesellschaft mit beschränkter Haftung
Burghof 1, 33165 Lichtenau**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the fields:

Dynamic testing of the strength properties of systems, components and materials for the rail and aerospace sectors

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at <https://www.dakks.de>.

Abbreviations used: see last page

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DIN EN 15152 2019-10	Railway applications - front windscreens for train cabs (here: only sections 6.2.6 and 6.2.7)
ASTM F 320 2021	Standard Test Method for Hail Impact Resistance of Aerospace Transparent Enclosures
ASTM F330 2021	Standard Test Method for Bird Impact Testing of Aerospace Transparent Enclosures
FRA CFR 49, Part 223 2011-10	Federal Railroad Administration, Part 223 Certification/testing of glazing materials - windows (here: only appendix A)
GM/RT 2100 Appendix B 2012-06	Requirements for rail vehicle structures Body side windows - small missile - test procedure
GM/RT 2456 2002-04	Structural requirements for windscreens and windows on railway vehicles
MIL-W-81752 1987-02	Windshield systems, fixed wing aircraft - General specification (here: only section 3.7.2. „bird impact“)
NF F 15-818 1996-12	Railway Rolling Stock - Frontal Windscreens Windscreens (here: only sections 18.5.2.4.1, 18.5.2.4.2, 18.5.2.4.3, 18.5.3)
NF F01-281 2014-04	Railway vehicles - parts from fibre reinforced composite materials with duroplastic matrix - specifications, test methods, qualification and conformity assessment
UIC 651 2002-07	Layout of driver's cabs in locomotives, railcars, multiple unit trains and driving trailers Laminate, compartment walls, windows (here: only section 2.7.4 and annex C)

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Abbreviations used:

ASTM	American Standard of Testing Materials
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
FRA	Federal Railroad Association
GM/RT	Railway Group Safety - Railway Safety
MIL-W	MILITARY SPECIFICATION
NF	Norme française
UIC	International union of railways