DAkkS
Deutsche
Akkreditierungsstelle

Accreditation

The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that

IFAB Ingenieure für angewandte Brandschutzforschung GmbH
Pankstraße 8, Haus A, 13127 Berlin

operates a testing laboratory that fulfills the requirements according to DIN EN ISO/IEC 17025:2018 for those conformity assessment activities specified in detail in the annex listed below. This includes additional existing legal and normative requirements for the testing laboratory including those in relevant sectoral schemes, provided that these are explicitly confirmed in the annex listed below.

D-PL-19994-01-01 **Valid from:** 29.08.2025

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

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notice of 29.08.2025
It consists of this cover sheet, the reverse side of the cover sheet and the corresponding annex.

Registration number of the accreditation certificate: **D-PL-19994-01-00**

Berlin, 29.08.2025 Dipl.-Ing. Evelyn Körner
Head of Technical Unit

Translation issued:
29.08.2025 Dipl-Ing. Evelyn Körner
Head of Technical Unit

This accreditation certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS). It is digital sealed and valid without signature. It reflects the status as indicated by the date of issue. The current status of any valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

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

The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

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 Co-operation (ILAC).

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

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-19994-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: **29.08.2025**

Date of issue: 29.08.2025

This annex is part of the Accreditation Certificate D-PL-19994-01-00.

Holder of the Accreditation Certificate:

IFAB Ingenieure für angewandte Brandschutzforschung GmbH
Pankstraße 8 Haus A, 13127 Berlin

with the location

IFAB Ingenieure für angewandte Brandschutzforschung GmbH
Pankstraße 8 Haus A, 13127 Berlin

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 they conform to the principles of DIN EN ISO 9001.

Tests in the fields:

Fire tests for rail vehicles, industrial plants, public spaces, storage rooms, machine and plant rooms, tunnel and transport infrastructure facilities, and high-voltage energy storage systems;

This annex to the certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS) and is digitally sealed.
This annex to the certificate 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 valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

Experimental investigations of real fire tests on vehicles, industrial facilities and rooms, infrastructure facilities, and high-voltage energy storage systems to test the effectiveness of water-based firefighting systems (in-house procedure)

Within the indicated test areas the testing laboratory is permitted without being required to prior inform and obtain approval from DAkkS
[Flex A] to use standardised or equivalent test methods listed here with different issue dates.
[Flex C] to modify, develop or further develop test methods.
The test methods listed are examples. The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory

1 Fire tests for rail vehicles, industrial plants, public spaces, storage rooms, machine and plant rooms, tunnel and transport infrastructure facilities, and high-voltage energy storage systems [Flex A]

IMO Resolutions MSC 265 (84) 05-2008	Amendments to the revised guidelines for approval of sprinkler systems equivalent to that referred to in SOLAS regulation II-2/12 (Resolution A.800(19)) *(Supplement to the revised guidelines for the approval of sprinkler systems in accordance with the SOLAS regulations referenced in Resolution A.800(19))*
UNI 11565 07-2021	Railway Vehicles - Design, Installation, Validation and maintenance of fire detection and extinguishing systems to be utilized in rail vehicles - General Principles Annex B - Fire protection/Extinguishing system test
SOLIT Engineering Guidance 2012	Engineering Guidance for a Comprehensive Evaluation of Tunnels with Fixed Fire Fighting Systems Annex 7: Fire Tests and Fire Scenarios for Evaluation of FFFS
ARGE-Richtlinie BBA - part 2 2018	Fire-fighting in Rolling Stock - Functional assessment procedure for the effectiveness of fire-fighting systems in rooms accessible to persons, in electric cabinets and in areas of combustion engines
FM 5560 2021	Approval standard for water mist systems / Fire tests Appendices: A - N

2 In-house procedure - Experimental investigations of real fire tests on vehicles, industrial facilities and rooms, infrastructure facilities, and high-voltage energy storage systems to test the effectiveness of water-based firefighting systems [Flex C]

Test Type / Method / Procedure	Parameter / Property	Matrix / Test Object	Flex	Characteristic Procedure
Fire tests with/without fire suppression system	Temperature, pressure, gas concentration	Vehicles, industrial facilities and rooms, infrastructure systems, and high-voltage energy storage	C	IFAB 7-1-1 2025-05, according to DIN EN 14972-1:2021-06
Thermoelectric temperature measuring	Temperature	Fire test bodies and fire test room	C	IFAB 7-1-1/1 2023-08
Electronic pressure measuring	Relative pressure	Fire suppression systems	C	IFAB 7-1-1/2 2023-08
Electrochemical measuring	Gas concentration (O_2, CO, CO_2)	Smoke gases from fire tests	C	IFAB 7-1-1/3 2023-08
FTIR spectroscopy	Gas concentration (various fire gases)	Smoke gases from fire tests	C	IFAB 7-1-1/4 2023-08

Abbreviations used:

ARGE	Cooperation of consortium for fire protection technologies
FM	Associated Factory Mutual Fire Insurance Companies
IFAB	In-house procedures of IFAB GmbH
IMO	International Maritime Organisation
SOLIT	Safety of Life in Tunnels
TS	Technical Specification
UNI	Ente Nazionale Italiano di Unificazione