

# Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung  
eingetragener Verein  
Hansastraße 27 c, 80686 München**

meets the requirements of DIN EN ISO/IEC 17025:2018 for the conformity assessment activities specified in the following partial accreditation certificates. 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 annexes to the partial accreditation certificates listed below.

**D-PL-11140-05-01**

**D-PL-11140-05-02**

**D-PL-11140-05-03**

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.

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 consists of this cover sheet, the reverse side of the cover sheet and the following annex. It only applies in connection with the partial accreditation certificates listed above and the notices referred to there.

Registration number of the certificate: **D-PL-11140-05-00**

Berlin, 03.11.2023

Dr. Haiko Blumenthal  
Head of Technical Unit

Translation issued:  
19.12.2023



Dr. Haiko Blumenthal  
Head of Technical Unit

*The certificate together with the annex 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 ([www.dakks.de](http://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

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

Office Braunschweig  
Bundesallee 100  
38116 Braunschweig

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](http://www.european-accreditation.org)

ILAC: [www.ilac.org](http://www.ilac.org)

IAF: [www.iaf.nu](http://www.iaf.nu)

## Deutsche Akkreditierungsstelle

### Annex to the Accreditation Certificate D-PL-11140-05-00 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 03.11.2023

**Date of issue:** 03.11.2023

Holder of accreditation certificate:

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Hansastraße 27 c, 80686 München**

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 in the annexes to the partial accreditation certificates listed below.

**D-PL-11140-05-01**

**D-PL-11140-05-02**

**D-PL-11140-05-03**

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.

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# Accreditation



The Deutsche Akkreditierungsstelle attests with this **Partial Accreditation Certificate** that the testing laboratory

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung  
eingetragener Verein  
Hansastraße 27 c, 80686 München**

meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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.

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 partial accreditation certificate only applies in connection with the notice of 03.11.2023 with accreditation number D-PL-11140-05.  
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the partial accreditation certificate: **PL-11140-05-01**  
It is a part of the accreditation certificate: D-PL-11140-05-00.

Berlin, 03.11.2023

Dr. Haiko Blumenthal  
Head of Technical Unit

Translation issued:  
19.12.2023



Dr. Haiko Blumenthal  
Head of Technical Unit

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# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-11140-05-01 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 03.11.2023

**Date of issue:** 03.11.2023

This annex is a part of the accreditation certificate D-PL-11140-05-00.

Holder of partial accreditation certificate:

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Hansastraße 27 c, 80686 München**

with the location

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI  
Riedenkamp 3, 38108 Braunschweig**

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 general with the principles of DIN EN ISO 9001.

Tests in the fields:

**Chamber emission testing of construction products and furnishings;  
Determination of odour emissions from construction products, furnishings and indoor air.**

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Abbreviations used: see last page

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

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.

**1 Chamber emission testing of construction products and furnishings;  
Determination of odour emissions from construction products, furnishings and indoor air**

ISO/IEC 28360-1 2018-09	Information technology - Office equipment - Determination of chemical emission rates from electronic equipment - Part 1: Using-consumables
DIN ISO 16000-3 2013-01	Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method
DIN ISO 16000-6 2022-03	Indoor air - Part 6: Determination of organic compounds (VVOC, VOC, SVOC) in indoor and test chamber air by active sampling on sorbent tubes, thermal desorption and gas chromatography using MS or MS-FID
DIN ISO 16000-28 2012-12	Indoor air - Part 28: Determination of odour emissions from building products using test chambers (Restriction: <i>valid for „Evaluation of the perceived intensity“</i> )
DIN EN ISO 16000-9 2008-04	Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method
DIN EN ISO 16000-11 2006-06	Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens
DIN EN ISO 16017-1 2001-10	Indoor, ambient and workplace air - Sampling and analysis of volatile organic compounds by sorbent tube/thermal desorption/capillary gas chromatography - Part 1: Pumped sampling
DIN EN 16516 2020-10	Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air (German version EN 16516:2017+A1:2020)

**Annex to the Partial Accreditation Certificate D-PL-11140-05-01**

**2 Determination of elements in material samples, construction products and furnishings using ICP-MS**

VA-6-Elemente    Determination of elements using ICP/MS or HPLC-ICP/MS in  
2021-05    material samples or extracts of these

**Abbreviations used:**

CEN/TS Comité Européen de Normalisation/Technical Specification  
DIN     Deutsches Institut für Normung e.V. – German institute for standardization  
EN     Europäische Norm – European Standard  
IEC     International Electrotechnical Commission  
ISO     International Organization for Standardization  
VA     In-house method of Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI



# Accreditation



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eingetragener Verein  
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meets the requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment activities listed in the annex to this certificate. This includes additional existing legal and normative requirements for the testing laboratory, including those in relevant sectoral schemes, provided they are explicitly confirmed in the annex to this certificate.

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This partial accreditation certificate only applies in connection with the notice of 03.11.2023 with accreditation number D-PL-11140-05.  
It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the partial accreditation certificate: **D-PL-11140-05-02**  
It is a part of the accreditation certificate: D-PL-11140-05-00.

Berlin, 03.11.2023

Evelyn Körner  
Head of Technical Unit

Translation issued:  
19.12.2023



Evelyn Körner  
Head of Technical Unit

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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.

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# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-11140-05-02 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 03.11.2023

**Date of issue:** 03.11.2023

This annex is a part of the accreditation certificate D-PL-11140-05-00.

Holder of partial accreditation certificate:

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Hansastraße 27 c, 80686 München**

with the location

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Verein  
Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI  
Riedenkamp 3, 38108 Braunschweig**

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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 general with the principles of DIN EN ISO 9001.

Tests in the fields:

**Emission testing of dangerous substances from construction products where a reference to a relevant harmonized technical specification is not required (item 3. Annex V, (EU) No. 305/2011)**

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Abbreviations used: see last page

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**Annex to the Partial Accreditation Certificate D-PL-11140-05-02**

**Emission of dangerous substances**

EN 16516                                      Construction products: Assessment of release of dangerous  
2017+A1:2020                                      substances - Determination of emissions into indoor air

*The requirements according to article 43 of the Construction Products Regulation for testing laboratories are fulfilled.*

*Without prior approval by the DAkkS German Accreditation Body, the testing laboratory body is permitted to use new revisions of harmonised technical specifications.*

**Abbreviations used:**

DIN      Deutsches Institut für Normung e.V. – German institute for standardization  
EN      Europäische Norm – European Standard  
IEC      International Electrotechnical Commission  
ISO      International Organization for Standardization  
VA      In-house method of Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI

# Accreditation



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eingetragener Verein  
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It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 3 pages.

Registration number of the partial accreditation certificate: **D-PL-11140-05-03**  
It is a part of the accreditation certificate: D-PL-11140-05-00.

Berlin, 03.11.2023

Barbara Tyralla  
Head of Technical Unit

Translation issued:  
19.12.2023

  
Barbara Tyralla  
Head of Technical Unit

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IAF: [www.iaf.nu](http://www.iaf.nu)

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-11140-05-03 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 03.11.2023

**Date of issue:** 03.11.2023

This annex is a part of the accreditation certificate D-PL-11140-05-00.

Holder of partial accreditation certificate:

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Hansastraße 27 c, 80686 München**

with the location

**Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung eingetragener  
Verein  
Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI  
Riedenkamp 3, 38108 Braunschweig**

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 general with the principles of DIN EN ISO 9001.

Tests in the fields:

**Determination of migratable elements from toys and consumer goods;  
Chamber emission testing of consumer goods**

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Abbreviations used: see last page

**Page 1 of 3**

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**Annex to the Partial Accreditation Certificate D-PL-11140-05-03**

**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.**

**1 Determination of migratable elements from toys and consumer goods using ICP-MS**

DIN EN 71-3 2021-06	Safety of toys - Part 3: Migration of certain elements; (German version EN 71-3:2019+A1:2021) (Restriction: <i>valid for „Certain elements including Cr (III) and Cr (VI)“</i> )
VA-6-Elemente 2021-05	Determination of elements using ICP/MS or HPLC-ICP/MS in material samples or extracts of these

**2 Chamber emission testing of consumer goods**

DIN ISO 16000-3 2013-01	Indoor air - Part 3: Determination of formaldehyde and other carbonyl compounds in indoor air and test chamber air - Active sampling method
DIN ISO 16000-6 2022-03	Indoor air - Part 6: Determination of organic compounds (VVOC, VOC, SVOC) in indoor and test chamber air by active sampling on sorbent tubes, thermal desorption and gas chromatography using MS or MS-FID
DIN ISO 16000-28 2012-12	Indoor air - Part 28: Determination of odour emissions from building products using test chambers (Restriction: <i>valid for „Evaluation of the perceived intensity“</i> ) (modification: <i>matrix consumer goods</i> )
DIN EN ISO 16000-9 2008-04	Indoor air - Part 9: Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method (modification: <i>matrix consumer goods</i> )
DIN EN ISO 16000-11 2006-06	Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens (modification: <i>matrix consumer goods</i> )

Valid from: 03.11.2023  
Date of issue: 03.11.2023



**Abbreviations used:**

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardization
VA	In-house method of Fraunhofer Institute for Wood Research, Wilhelm-Klauditz-Institut, WKI