

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11030-01-00 according to DIN EN ISO/IEC 17025:2018

 Valid from:
 12.06.2024

 Date of issue:
 12.06.2024

Holder of accreditation certificate:

Technologiezentrum der SCHÜCO International KG Karolinenstraße 1-15, 33609 Bielefeld

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-11030-01-01 D- PL-11030-01-02

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 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.



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Valid from: 12.06.2024

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This annex is a part of the accreditation certificate D-PL-11030-01-00.

Holder of partial accreditation certificate:

Technologiezentrum SCHÜCO International KG Karolinenstraße 1-15, 33609 Bielefeld

with the location

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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 principles of DIN EN ISO 9001.

Mechanical-technological, thermotechnical and building acoustics tests on windows, facades, doors and accessories as well as environmental simulation tests

Within the given testing field (see chapter headings), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:

1) the free choice of standard or equivalent testing methods (including revisions)

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Abbreviations used: see last page

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The listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

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1. Acoustics – Sound insulation of components and building elements (laboratory conditions and on the building site

DIN EN ISO 717-1 2021-05	Acoustics – Rating of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation
DIN EN ISO 3382-2 2008-09	Acoustics - Measurement of room acoustic parameters - Part 2: Reverberation time in ordinary rooms (ISO 3382-2:2008)
DIN EN ISO 10052 2021-11	Acoustics – Field measurements of airborne and impact sound insulation and of service equipment sound – Survey method (only noises from building service systems in conjunction with DIN 4109-4:2016-07)
DIN EN ISO 10140-1 2021-09	Acoustics – Laboratory measurement of sound insulation of building elements – Part 1: Application rules for specific products (only airborne sound insulation)
DIN EN ISO 10140-2 2021-09	Acoustics – Laboratory measurement of sound insulation of building elements – Part 2: Measurement of airborne sound insulation
DIN EN ISO 10140-4 2021-09	Acoustics – Laboratory measurement of sound insulation of building elements – Part 4: Measurement procedures and requirements (only airborne sound insulation)



DIN EN ISO 10140-5 2021-09	Acoustics – Laboratory measurement of sound insulation of building elements – Part 5: Requirements for test facilities and equipment (only airborne sound insulation)
DIN EN ISO 10848-1 2018-02	Acoustics – Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms – Part 1: Frame document (<i>only flanking level differences</i> $D_{n,f}$)
DIN EN ISO 10848-2 2018-02	Acoustics – Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms – Part 2: Application to Type B elements when the junction has a small influence
DIN EN ISO 10848-3 2018-02	Acoustics – Laboratory and field measurement of flanking transmission for airborne, impact and building service equipment sound between adjoining rooms – Part 3: Application to Type B elements when the junction has a substantial influence
DIN EN ISO 16283-1 2018-04	Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation
DIN EN ISO 16283-3 2016-09	Acoustics – Field measurement of sound insulation in buildings and of building elements – Part 3: Facade sound insulation
ASTM E 413 2016-04	Classification for Rating Sound Insulation
ASTM E 1414/E1414M-16 2016-10	Standard Test Method for Airborne Sound Attenuation Between Rooms Sharing a Common Ceiling Plenum

2. Mechanical performance of metal profiles and components

DIN EN 14024	Metal profiles with thermal barrier – Mechanical performance –
2005-01	Requirements, proof and tests for assessment
	5.3 Transverse tensile strength Q
	5.4 Shear strength T and shear spring stiffness c
	5.5.2 Ageing, method 1
	5.6 Characteristic values
DIN EN 16758	Curtain walling - Determination of the strength of shear connections
2021-11	Test method and requirements;



3. Leak tests (air, wind, watertightness) of windows and doors

DIN EN 1026 2016-09	Windows and doors – Air permeability – Test method
DIN EN 1027 2016-09	Windows and doors – Watertightness – Test method
DIN EN 12152 2002-08	Curtain walling – Air permeability – Performance requirements and classification
DIN EN 12153 2000-09	Curtain walling – Air permeability – Test methods
DIN EN 12154 2000-06	Curtain walling – Watertightness – Performance requirements and classification
DIN EN 12155 2000-10	Curtain walling – Watertightness – Laboratory test under static pressure
DIN EN 12179 2000-09	Curtain walling – Resistance to wind load – Test methods
DIN EN 12207 2017-03	Windows and doors – Air permeability – Classification
DIN EN 12208 2000-06	Windows and doors – Watertightness – Classification
DIN EN 12210 2016-09	Windows and doors – Resistance to wind load –Classification
DIN EN 12211 2016-10	Windows and doors – Resistance to wind load – Test method
DIN EN 13050 2011-09	Curtain walling – Watertightness– Laboratory test under dynamic condition of air pressure and water spray
DIN EN 13051 2001-11	Curtain walling – Watertightness – Site test
DIN EN 13116 2001-11	Curtain walling – Resistance to wind load – Performance requirements



ASTM E 283 2004-03	Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
ASTM E 330/E 330M 2014-01	Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E 331 2000-12	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E 547 2000-12	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors and Curtain Walls by Cyclic Static Air Pressure Difference
AAMA 501.1 2017-05	Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure
AAMA 501.4 2009-11	Recommended Static Testing Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstory Drift
AAMA 501.5 2007-04	Test Method for Thermal Cycling of Exterior Walls
AS/NZS 4420.1 2016-12	Windows, external glazed, timber and composite doors – Methods of Test - Part 1: Test sequence, sampling and test methods

4. Service life tests of windows and doors

DIN EN 1191	Windows and doors – Resistance to repeated opening and closing –
2013-04	Test method

5. Mechanical tests of the resistance of windows and doors

DIN EN 947 1999-05	Hinged or pivoted doors – Determination of the resistance to vertical load
DIN EN 948 1999-11	Hinged or pivoted doors – Determination of the resistance to static torsion



DIN EN 12046-1 2020-11	Operating forces – Test method – Part 1: Windows
DIN EN 12046-2 2000-12	Operating forces – Test method – Part 2: Doors
DIN EN 13049 2003-08	Windows – Soft and heavy body impact – Test method, safety requirements and classification
DIN EN 14608 2004-09	Windows – Determination of the resistance to racking
DIN EN 14609 2004-09	Windows – Determination of the resistance to static torsion
DIN EN 14019 2016-11	Curtain walling – Impact resistance – Performance requirements

6. Security tests (burglar resistance) of windows and doors

DIN EN 1627 2021-11	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification
DIN EN 1628 2021-11	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading
DIN EN 1629 2021-11	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading
DIN EN 1630 2021-11	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts
DIN 18008-4 2013-07	Glass in building – Design and construction rules – Part 4: Additional requirements for barrier glazing

7. Environmental simulation tests by methods of exposure to laboratory light sources of plastic elements, instruments and building components

DIN EN ISO 4892-2	Plastics - Methods of exposure to laboratory light sources - Part 2:
2021-11	Xenon-arc lamps (ISO 4892-2:2013 + Amd 1:2021)



DIN EN ISO 4892-3 2016-10	Plastics – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps
DIN EN ISO 6270-2 2018-04	Paints and varnishes – Determination of resistance to humidity – Frij0524 Part 2: Procedure for exposing test specimens in condensation-water atmospheres
DIN EN ISO 9227 2023-03	Corrosion tests in artificial atmospheres – Salt spray tests
DIN EN ISO 16474-3 2021-04	Paints and varnishes – Methods of exposure to laboratory light sources – Part 3: Fluorescent UV lamps, Type 1A
DIN EN 1121 2000-09	Doors – Behaviour between two different climates
DIN EN 13420 2011-06	Windows – Behaviour between different climates – Test method
DIN EN 60529 2014-09	Degrees of protection provided by enclosures (IP Code)
DIN 53508 2000-03	Testing of rubber – Accelerated ageing – Test in accordance with 4.1.1

8. Thermal performance tests (Determination of thermal transmittance) of windows and doors

DIN EN ISO 12567-1 2010-12	Thermal performance of windows and doors – Determination of thermal transmittance by the hot-box method – Part 1: Complete windows and doors
DIN EN ISO 12567-2 2006-03	Thermal performance of windows and doors – Determination of thermal transmittance by the hot-box method – Part 2: Roof windows and other projecting windows
DIN EN 12412-2 2003-11	Thermal performance of windows, doors and shutters – Determination of thermal transmittance by hot box method – Part 2: Frames



Abbreviations used:

AAMA	American Architectural Manufacturers Association
AS/NZS	Australian/New Zealand Standard
ASTM	American Society for Testing and Materials
DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation



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Tests in the fields:

electromagnetic compatibility

Within the given testing field marked with *), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the following:

1) the free choice of standard or equivalent testing methods.

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1. Electromagnetic compatibility*

Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
		Basic standards	
EMC	DIN EN 61000-4-2 2009-12	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test (IEC 61000-4-2:2008); German version EN 61000-4-2:2009 EN 61000-4-2:2009	
	DIN EN 61000-4-4 2013-04	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German version EN 61000-4-4:2012	Restriction: No testing on signal and control connections using a conductive tape or metal foil
	DIN EN 61000-4-5 2019-03	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017	Restriction: No three-phase networks Single-phase networks only with 230V, ≤ 16A and 50Hz
	DIN EN 61000-4-6 2014-08	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008); German version EN 61000-4-6:2009	(Restriction: No multi-phase networks, no tests using a current clamp



Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
	DIN EN 61000-4-11 2021-10	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase (IEC 61000- 4-11:2020 + COR1:2020); German version EN IEC 61000-4-11:2020 + AC:2020	Restriction: Only single-phase networks with 230 V, ≤ 16 A and 50 Hz No voltage fluctuations
	DIN EN 61000-4-29 2001-10	Electromagnetic compatibility (EMC) – Part 4-29: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests (IEC 61000-4-29:2000); German version EN 61000-4-29:2000	Restriction: Tests with ≤ 16 A
		Generic standards	
EMC	DIN EN 61000-6-1 2019-11	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 61000- 6-1:2016); German version EN IEC 61000- 6-1:2019	Restriction: No tests in accordance with: DIN EN 61000-4-3 DIN EN 61000-4-8 DIN EN 61000-4-20
	DIN EN 61000-6-2 2019-11	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016); German version EN IEC 61000-6-2:2019	Restriction: No tests in accordance with: DIN EN 61000-4-3 DIN EN 61000-4-8 DIN EN 61000-4-20



Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
EMC	DIN EN 61000-6-3 2022-06	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments (IEC 61000-6-3:2020); German version EN IEC 61000-6-3:2021	Restriction: No testing of radiated interference emission No tests in accordance with: DIN EN 61000-3-3 DIN EN 61000-3-11 DIN EN 61000-4-20
	DIN EN 61000-6-4 2020-09	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018); German version EN IEC 61000-6-4:2019	Restriction: No testing of radiated interference emission No tests in accordance with: DIN EN 61000-3-3 DIN EN 61000-3-11 DIN EN 61000-4-20
	DIN EN 61000-6-7 2015-05	Electromagnetic compatibility (EMC) – Part 6-7: Generic standards – Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations (IEC 61000-6-7:2014); German version EN 61000-6-7:2015	Restriction: No tests in accordance with: DIN EN 61000-4-3, DIN EN 61000-4-16, DIN EN 61000-4-34



Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations	
	Product family standard			
EMC	DIN EN 55016-2-1 2019-11	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2014 + A1:2017); German version EN 55016-2- 1:2014 + A1:2017	Restriction: Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low- voltage DC networks with ≤ 16 A	
	DIN EN 55011 2017-03 (withdrawn)	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified); German version EN 55011:2016	Restriction: No testing of radiated interference emission Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low- voltage DC networks with ≤ 16 A	
	DIN EN 55011 2022-05	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified + A1:2016 + A2:2019); German version EN 55011:2016 + A1:2017 + A11:2020 + A2:2021	Restriction: No testing of radiated interference emission Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low- voltage DC networks with ≤ 16 A	



Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
DIN EN 55014-1 2018-08 (withdrawn)Electromagnetic con Requirements for ho electric tools and sir 1: Emission (CISPR 1 COR1:2016); Germa 1:2017DIN EN 55014-2 2022-10Electromagnetic con Requirements for ho electric tools and sir 2: Immunity - Produ (CISPR 14-2:2020); G IEC 55014-2:2021EMCDIN EN 55022 2011-12Information technol Radio disturbance cl 	DIN EN 55014-1 2018-08 (withdrawn)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2016 + COR1:2016); German version EN 55014- 1:2017	Restriction: No testing of radiated interference emission Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low- voltage DC networks with ≤ 16 A
	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2020); German version EN IEC 55014-2:2021	Restriction: No tests in accordance with: DIN EN 61000-4-3, DIN EN 61000-4-22	
	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement (CISPR 22:2008, modified); German version EN 55022:2010	Restriction: No testing of radiated interference emission Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low- voltage DC networks with ≤ 16 A	
	DIN EN 55024 2016-05	Information technology equipment – Immunity characteristics – Limits and methods of measurement (CISPR 24:2010); German version EN 55024:2010	Restriction: No tests in accordance with: DIN EN 61000-4-3 DIN EN 61000-4-8



Technic al field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
	DIN EN 55032 2016-02	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2015 + COR1:2016 + A1:2019); German version EN 55032:2015 + AC:2016 + A11:2020 + A1:2020	Restriction: Tests of radiated disturbance emission only single- phase 230 V networks less than or equal to 16 A and 50 Hz and low- voltage DC networks less than or equal to 16 A
	DIN EN 55035 2018-04	Electromagnetic compatibility of multimedia equipment – Immunity requirements (CISPR 35:2016, modified); German version EN 55035:2017	Restriction: No tests in accordance with: DIN EN 61000-4-3 DIN EN 61000-4-8 DIN EN 61000-4-20 DIN EN 61000-4-21
	DIN EN 60335-1 2020-08	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, modified + COR1:2010 + COR2:2011 + A1:2013, modified + A1:2013/COR1:2014 + A2:2016 + A2:2016/COR1:2016); German version EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019	Restriction: Parts 19.11.4.1, 19.11.4.3 to 19.11.4.6 and 19.11.4.8 are applicable
EMC	DIN EN 60335-2-103 2014-12	Household and similar electrical appliances – Safety Part 2-103: Particular requirements for drives for gates, doors and windows (IEC 60335-2-103:2006, modified + A1:2010, modified); German version EN 60335-2-103:2015	



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 Standardisation