

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-17012-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 01.12.2023

Date of issue: 14.02.2024

Holder of accreditation certificate:

**PfB GmbH & Co. Prüfzentrum für Bauelemente KG
Lackermannweg 24, 83071 Stephanskirchen**

with the location

**PfB GmbH & Co. Prüfzentrum für Bauelemente KG
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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.

Mechanical-technological, thermal-technological, acoustic testing for functionality and resistance, as well as testing for burglar resistance of windows and doors, gates and curtain walls, grille elements and closures

Testing of construction products (system of assessment and verification of constancy of performance 3) within the scope of the Regulation (EU) No 305/2011 laying down harmonised conditions for the marketing of construction products (Construction Products Regulation)

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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Testing of fire resistance and sound insulation performances of construction products for which the reference to a relevant harmonized technical specification is not required (point 3. Annex V, (EU) No 305/2011)

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.

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1 Testing of windows and doors, gates and curtain walls

1.1 Resistance to wind load

DIN EN 1932 2013-09	External blinds and shutters - Resistance to wind loads - Method of testing and performance criteria
DIN EN 12179 2000-09	Curtain walling - Resistance to wind load - Test method
DIN EN 12211 2016-10	Windows and doors - Resistance to wind load - Test method
DIN EN 12444 2001-02	Industrial, commercial and garage doors and gates - Resistance to wind load - Testing and calculation
DIN EN 13561 2015-08 + Corrigendum 1 2017-01	External blinds and awnings - Performance requirements including safety

1.2 Water tightness, resistance to water penetration

DIN EN 1027 2016-09	Windows and doors - Water tightness - Test method
DIN EN 12155 2000-10	Curtain walling - Watertightness - Laboratory test under static pressure
DIN EN 12489 2000-11	Industrial, commercial and garage doors and gates - Resistance to water penetration - Test methods
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
AAMA 501.1-05 2005-02	Standard Test Method for Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure
AAMA 501.2-15 2015-12	Quality Assurance and Diagnostic Water Leakage - Field Check of Installed Storefronts, Curtain Walls and Sloped Glazing Systems

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1.3 Air permeability

DIN EN 1026 2016-09	Windows and doors - Air permeability - Test method
DIN EN 12153 2000-09	Curtain walling - Air permeability - Test methods
DIN EN 12427 2000-11	Industrial, commercial and garage doors and gates - Air permeability - Test method
ASTM E 283 2004	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/E330M 2014	Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference
ASTM E 331 2000	Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
CWCT TN 44 2004	Whole building air leakage tests (7 pp)
NAFS 2011	North American fenestration standard for windows, doors and skylines

1.4 Impact resistance

DIN EN 13049 2003-08	Windows - Soft and heavy body impact - Test method, safety requirements and classification
DIN EN 14019 2016-11	Curtain Walling - Impact resistance - Performance requirements
DIN EN 16005 2013-01	Power operated pedestrian doorsets - Safety in use - Requirements and test methods

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DIN 18008-4 2013-07	Glass in Building - Design and construction rules - Part 4: Additional requirements for barrier glazing Annex A: Verification of the impact resistance of glazings by component test
DIN 18008-5 2013-07	Glass in Building - Design and construction rules - Part 5: Additional requirements for walk-on glazing Annex A: Verification of the impact resistance and the residual carrying capacity by component test
CWCT TN 66 2010	Safety and fragility of overhead glazing: guidance on specification (11 pp)
CWCT TN 67 2010	Safety and fragility of overhead glazing: testing and assessment (5 pp)
CWCT TN 75 2012	Impact performance of building envelopes: guidance on specification (10 pp)
CWCT TN 76 2012	Impact performance of building envelopes: method for impact testing cladding panels (6 pp)

1.5 Load-bearing capacity of safety devices

DIN EN 948 1999-11	Hinged or pivoted doors - Determination of the resistance to static torsion
DIN EN 14609 2004-09	Windows - Determination of the resistance to static torsion

1.6 Sound insulation

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 + Corrigendum 1 2009-09	Acoustics - Measurement of room acoustic parameters - Part 2: Reverberation time in ordinary rooms

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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
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>(here only Airborne sound excitation)</i>
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 <i>(here only Airborne sound excitation)</i>
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: Façade sound insulation

1.7 Thermal insulation

DIN EN ISO 6946 2018-03	Building components and building elements - Thermal resistance and thermal transmittance - Calculation method
DIN EN ISO 10077-1 2020-10	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 1: General Section 5: Description of the method
DIN EN ISO 10077-2 2018-01	Thermal performance of windows, doors and shutters - Calculation of thermal transmittance - Part 2: Numerical method for frames
DIN EN ISO 10211 2018-03	Thermal bridges in building construction - Heat flows and surface temperatures - Detailed calculations
DIN EN ISO 10456 2010-05	Building materials and products - Hygrothermal properties - Tabulated design values and procedures for determining declared and design thermal values

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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 hot box method - Part 2: Roof windows and other projecting windows
DIN EN ISO 12631 2018-01	Thermal performance of curtain walling - Calculation of thermal transmittance
DIN EN 673 2011-04	Glass in building - Determination of thermal transmittance (U value) - Calculation method
DIN EN 12412-2 2003-11	Thermal performance of windows, doors and shutters - Determination of thermal transmittance by hot box method - Part 2: Frames
DIN EN 12412-4 2003-11	Thermal performance of windows, doors and shutters - Determination of thermal transmittance by hot box method - Part 4: Roller shutter boxes
DIN EN 12428 2013-04	Industrial, commercial and garage doors - Thermal transmittance - Requirements for the calculation

1.8 Operating forces

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 12217 2015-07	Doors - Operating forces - Requirements and classification
DIN EN 13115 2020-11	Windows - Classification of mechanical properties - Racking, torsion and operating forces

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1.9 Burglar resistance

DIN 18104-1 2017-08	Mechanical security equipment - Part 1: Burglar resistant products for port installation for windows and doors - Requirements and test methods
DIN 18104-2 2013-05	Mechanical security devices - Part 2: Additional burglar resistant products for windows and doors - Requirements and test methods <i>(withdrawn standard)</i>
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 - Requirements and classification
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 V ENV 1627 1999-04	Windows, doors, shutters - Burglar resistance - Requirements and classification <i>(withdrawn standard)</i>
DIN V ENV 1628 1999-04	Windows, doors, shutters - Burglar resistance - Test method for the determination of resistance under static loading <i>(withdrawn standard)</i>
DIN V ENV 1629 1999-04	Windows, doors, shutters - Burglar resistance - Test method for the determination of resistance under dynamic loading <i>(withdrawn standard)</i>
DIN V ENV 1630 1999-04	Windows, doors, shutters - Burglar resistance - Test method for the determination of resistance to manual burglary attempts <i>(withdrawn standard)</i>

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1.10 Corrosion

DIN EN ISO 6988 1997-03	Metallic and other non-organic coatings - Sulfur dioxide test with general condensation of moisture <i>(withdrawn standard)</i>
DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres - Salt spray tests <i>(withdrawn standard)</i>
DIN EN 1670 2007-06 + Corrigendum 1 2008-07	Building hardware - Corrosion resistance - Requirements and test methods

1.11 Building hardware

DIN EN 179 2008-04	Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes - Requirements and test methods
DIN EN 1125 2008-04	Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes - Requirements and test methods
DIN EN 1303 2015-08	Building hardware - Cylinders for locks - Requirements and test methods
DIN EN 1906 2012-12	Building hardware - Lever handles and knob furniture - Requirements and test methods
DIN EN 12209 2016-10	Building hardware - Mechanically operated locks and locking plates - Requirements and test methods
DIN EN 14846 2008-11	Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods
E DIN EN 15685 2019-10	Building hardware - Requirements and test methods - Multipoint locks, latches and locking plates - Characteristics and test methods
DIN EN 16867 2022-02	Building hardware - Mechatronic door furniture - Requirements and test methods

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DIN 18251-1 2002-07	Locks - Mortice locks - Part 1: Mortice locks for rebated doors <i>(withdrawn standard)</i>
DIN 18251-2 2002-11	Locks - Mortise locks - Part 2: Mortise locks for tube frame doors <i>(withdrawn standard)</i>
DIN 18251-3 2002-11	Locks - Mortise locks - Part 3: Mortise locks as multipoint locks <i>(withdrawn standard)</i>
DIN 18257 2015-06	Building hardware - Security plates - Definitions, measurements, requirements, marking Section 8: Test procedures <i>(withdrawn standard)</i>
DIN 18273 1997-12	Building hardware - Lever handle units for fire doors and smoke control doors - Concepts and definitions, dimensions, requirements and testing <i>(withdrawn standard)</i>
DIN 18273 2015-07	Building hardware - Lever handle units for fire doors and smoke control doors - Terms and definitions, dimensions, requirements, testing and marking
E DIN 18273 2022-10	Building hardware - Mechanical and mechatronic lever handle sets for fire resistance doors, for fire resistance and smoke control doors or for smoke control doors - Terms and definitions, dimensions, requirements, marking

1.12 Smoke control

DIN 18095-2 1991-03	Smoke control doors; type testing for durability and leakage
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1.13 Continuous performance

DIN EN 1191 2013-04	Windows and doors - Resistance to repeated opening and closing - Test method
DIN 4102-18 1991-03	Fire behaviour of building materials and components; fire barriers, verification of automatic closure (continuous performance test)

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1.14 Climate

DIN EN 1121 Doors - Behaviour between two different climates - Test method
2000-09

1.15 Mechanical aspects/safety in use

DIN EN 12453 Industrial, commercial and garage doors and gates - Safety in use of
2022-08 power operated doors - Requirements and test methods

DIN EN 12604 Industrial, commercial and garage doors and gates - Mechanical aspects -
2021-05 Requirements and test methods

DIN EN 12605 Industrial, commercial and garage doors and gates - Mechanical aspects -
2000-08 Test methods
(withdrawn standard)

DIN EN 13659 Shutters and external venetian blinds - Performance requirements
2015-07 including safety

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2 Testing of construction products (system of assessment and verification of constancy of performance 3) under Regulation (EU) No 305/2011 laying down harmonized conditions for the marketing of construction products (Construction Products Regulation)

Decision of the Commission	System ¹⁾	Technical specification
1996/580/EC 2001/596/EC Construction kits for curtain walls	3	EN 13830:2003 Curtain walling - Product standard
1998/436/EC 2001/596/EC Roofing, skylights, roof windows and accessories	3	EN 14351-1:2006+A2:2016 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets
1999/93/EC 2011/246/EU Doors, windows, shutters, roller shutters, gates and associated parts	3	EN 13241:2003+A2:2016 Industrial, commercial, garage doors and gates - Product standard, performance characteristics
		EN 14351-1:2006+A2:2016 Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets
		EN 14351-2:2018 ²⁾ Windows and doors - Product standard, performance characteristics - Part 2: Internal pedestrian doorsets
		EN 16361:2013+A1:2016 ²⁾ Power operated pedestrian doors - Product standard, performance characteristics - Pedestrian doorsets, other than swing type, initially designed for installation with power operation

¹⁾ System for assessment and verification of consistency of performance

²⁾ Harmonization in preparation, intended system as indicated

The requirements for a testing laboratory are fulfilled according to article 43 of the Construction Products Regulation. Test procedures that are required to determine the product type and cannot be carried out by the certificate holder itself are listed in the list of subcontractors.

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

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3 Testing of resistance to fire and sound insulation properties of construction products for which the reference to a relevant harmonized technical specification is not required (point 3 of Annex V, (EU) No 305/2011)

3.1 Resistance to fire

EN 1634-2
2008 Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 2: Fire resistance characterisation test for elements of building hardware

EN 1634-3
2004+AC:2006 Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies

in conjunction with:

*EN 13501-2
2016*

Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

3.2 Acoustic performance

EN ISO 10140-1
2021 Acoustics - Laboratory measurement of sound insulation of building elements - Part 1: Application rules for specific products

The requirements for a testing laboratory in accordance with Article 43 of the Construction Products Regulation are fulfilled.

Abbreviations used:

AAMA	American Architectural Manufacturers Association
ASTM	American Society for Testing and Materials
CWCT TN	Centre for window and cladding technology – Technical Note
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 (International Organization for Standardisation)
NAFS	North American Fenestration Standard

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