

Deutsche Akkreditierungsstelle GmbH

Appendix to accreditation certificate D-PL-11030-01-00 in accordance with DIN EN ISO/IEC 17025:2018

Valid from: 11.10.2019

Issue date: 11.10.2019

Holder of certificate:

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

Tests in the areas of:

Mechanical-technological, thermotechnical and building acoustics tests on windows, facades, doors and accessories as well as environmental simulation tests (qualification tests) on technical products and electromagnetic compatibility

For the test areas marked with ⁽ⁱ⁾, the testing laboratory is permitted to freely select standard test methods or equivalent methods without obtaining prior notification and consent from DAkkS. The test methods listed are given by way of example. The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation.

Within the scope of accreditation marked with ⁽ⁱⁱ⁾, the testing laboratory is permitted to use the standardised test methods listed here with different revision levels of the standard without prior disclosure to or agreement by DAkkS.

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

Abbreviations used: see last page

The certificate, including the certificate appendix, reflects the status on the issue date. The current status of the scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (DAkkS) at <https://www.dakks.de/en/content/directory-accredited-bodies>

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1. Acoustics – On components, building elements and buildings^{(1)(II)}

DIN EN ISO 717-1 2013-06	Acoustics – Rating of sound insulation in buildings and of building elements – Part 1: Airborne sound insulation
DIN EN ISO 10052 2010-10	Acoustics – Field measurements of airborne and impact sound insulation and of service equipment sound – Survey method <i>(only noises from building service systems in conjunction with DIN 4109-4:2016-07)</i>
DIN EN ISO 10140-1 2016-12	Acoustics – Laboratory measurement of sound insulation of building elements – Part 1: Application rules for specific products <i>(only airborne sound insulation)</i>
DIN EN ISO 10140-2 2010-12	Acoustics – Laboratory measurement of sound insulation of building elements – Part 2: Measurement of airborne sound insulation
DIN EN ISO 10140-4 2010-12	Acoustics – Laboratory measurement of sound insulation of building elements – Part 4: Measurement procedures and requirements <i>(only airborne sound insulation)</i>
DIN EN ISO 10140-5 2014-09	Acoustics – Laboratory measurement of sound insulation of building elements – Part 5: Requirements for test facilities and equipment <i>(only airborne sound insulation)</i>
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 $D_{n,f}$)</i>

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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

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Laboratory acoustic noise measurement	Reverberation time	0.1	10	s	DIN EN ISO 10140-5
Airborne sound insulation	Rated sound reduction index $R_w(C;C_{tr})$	0	70	dB	DIN EN ISO 10140-2
	Rated sound reduction index $R_{45^\circ,w}(C;C_{tr})$ (laboratory)	0	40	dB	DIN EN ISO 16283-1
	Rated standard sound level difference $D_{n,e,w}$	0	75	dB	DIN EN ISO 10140-2
Flanking insulation	Standard flanking sound level difference $D_{n,f,w}$	0	75	dB	DIN EN ISO 10848-1

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2. Component tests^{(1)(II)}

DIN EN 14024 2005-01	Metal profiles with thermal barrier – Mechanical performance – Requirements, proof and tests for assessment <i>5.3 Transverse tensile strength Q</i> <i>5.4 Shear strength T and shear spring stiffness c</i> <i>5.5.2 Ageing, method 1</i> <i>5.6 Characteristic values</i>
PR-0153-05 2015-08	Determination of composite characteristic values (on composite profiles)
PR-0157-04 2018-02	Mechanical testing of T-joints
PR-0188-03 2016-04	Creep rupture test (on thermally separated profiles)
PR-0212-01 2015-09	Corner connector test

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Universal testing machine static (520x520 mm)	Compression/tension	0.1	100	kN	DIN EN 14024
	Traverse path	10	700	mm	
Universal testing machine static (820x820 mm)	Compression/tension	5	50	kN	PR-0212
	Traverse path	5	500	mm	
Creep rupture test equipment	Deformation	0	30	mm	DIN EN 14024
	Temperature	20	82	°C	
	Weight	500	2500	g	

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3. Leak tests^{(1)(II)}

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

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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

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Laboratory window and facade tests	Differential pressure (air)	2	10000	Pa	DIN EN 12211
		-2	-10000	Pa	
	Pressure (water)	0.5	6	bar	DIN EN 1027
	Volume flow (air)	0.1	1650	m ³ /h	DIN EN 1026
	Volume flow (water)	0.01	35	m ³ /h	DIN EN 1027
	Deformation	0.5	150	mm	DIN EN 12211
	Temperature	-20	85	°C	AAMA 501.5
Dynamic facade test (building)	Wind speed	0.5	30	m/s	DIN EN 13050
Dynamic facade test (propeller)	Wind speed	22	40	m/s	AAMA 501.1

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Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Seismic test (earthquake simulation stat.)	Path	0.5	150	mm	AAMA 501.4

4. Service life tests^{(1)(II)}

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

AAMA 910-16
2016-03 Voluntary Life Cycle Specifications and Test Methods for AW Class Architectural Windows and Doors

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Resistance to repeated opening and closing test equipment	Force	10	200	N	DIN EN 1191
	Torque	1	25	Nm	
	Speed	0.1	0.6	m/s	

5. Mechanical tests^{(1)(III)}

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
2004-04 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

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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

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Mechanical tests	Weight	50	2000	kg	DIN EN 14608
	Force	10	20000	N	DIN EN 14609
	Deformation	0.001	150	mm	
Pendulum impact	Weight	0.5	50	kg	DIN EN 13049
	Height of drop	100	1200	mm	
	Air pressure	1.2	12	bar	

6. Security tests⁽ⁱ⁾⁽ⁱⁱ⁾

DIN EN 1627 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification
DIN EN 1628 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading
DIN EN 1629 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading
DIN EN 1630 2011-09	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

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area	Char. test method

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Test equipment	Measurand	From	To	Size	
Dynamic burglary test	Weight	0.1	50	kg	DIN EN 1629
	Height of drop	100	1200	mm	
	Air pressure	1.2	12	bar	
Static burglary test	Force	1	20	kN	DIN EN 1628
	Time	0	900	s	
	Air pressure	1.2	12	bar	

7. Environmental simulation tests⁽¹⁾⁽¹¹⁾

DIN EN ISO 4892-2 2013-06	Plastics – Methods of exposure to laboratory light sources – Part 2: Xenon-arc lamps
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 – Part 2: Procedure for exposing test specimens in condensation-water atmospheres
DIN EN ISO 9227 2017-07	Corrosion tests in artificial atmospheres – Salt spray tests
DIN EN ISO 16474-3 2014-03	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
PR-0183-10 2018-05	Storage in condensation water atmosphere and salt spray
PR-0184-08 2019-01	Weathering (surfaces)
PR-0185-02 2011-12	Ageing

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PR-0225-00
2014-03

Behaviour between different climates windows / doors

In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Laboratory corrosion testing	Temperature	25	50	°C	DIN EN ISO 6270-2
	Humidity	10	90	%rF	
AASS (750x750x350 mm) NSS (1080x680x600 mm; 1560x570x350 mm)	pH value	3.1	3.3	pH	DIN EN ISO 9227
	pH value	6.5	7.2	pH	
	Salt content		50	g/l	
Laboratory ageing test equipment	Temperature	70	100	°C	DIN 53508
Laboratory weathering test – Xenon (air-cooled xenon spotlight)	Sample space temperature	20	80	°C	DIN EN ISO 4892-2
	Relative humidity	10	95	%rF	
	White standard temperature	60	120	°C	
	Wavelength range of control	300	400	nm	
	Irradiance (300 -400 nm)	45	120	W/m ²	
	Irradiance (300 - 800 nm)	244	1172	W/m ²	
Laboratory weathering test – QUV (lamp type UVA)	Sample space temperature	50	70	°C	DIN EN ISO 4892-3
Behaviour between different climates chamber (3000x3000 mm ²)	Temperature outside	-60	90	°C	DIN EN 1121
	Temperature change outside	0	±2.8	K/min	DIN EN 13420
	Temperature inside	10	90	°C	
	Temperature change inside	0	±0.5	K/min	
	Temperature constancy	0	±0.5	K	
	Humidity without thermal load	10	95	%rF	
	Humidity constancy	0	±0.5	%rF	
	Dew point temperature	5	89	°C	
Climate chambers (max 1500x2200x1100 mm; max floor load 150 kg)	Temperature	-70	150	°C	PR-0243
	Humidity	10	95	%rF	
	Humidity constancy	0	5	%rF	
	Dew point temperature	5	85	°C	
	Temperature change heating up	0	1.8	K/min	

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Test area					Char. test method
Test equipment	Measurand	From	To	Size	
	Temperature change cooling down	0	1.3	K/min	
Test equipment	Measurand	From	To	Size	
Climate chambers (max 1050x2050x1250 mm; max floor load 500 kg)	Temperature	-60	120	°C	PR-0243
	Humidity	10	98	%rF	
	Humidity constancy	0	3	%rF	
	Dew point temperature	4	89	°C	
	Temperature change heating up	0	11	K/min	
	Temperature change cooling down	0	8	K/min	
Climate chambers (max 500x450x600 mm; max floor load 30 kg)	Temperature	-42	180	°C	PR-0243
	Humidity	10	98	%rF	
	Humidity constancy	0	3	%rF	
	Dew point temperature	3	94	°C	
	Temperature change heating up	0	3.2	K/min	
	Temperature change cooling down	0	4	K/min	
IP protection test benches	Water flow	0.05	5	l/min	DIN EN 60529
		2	20	l/min	
	Air flow	40	600	l/min	DIN EN 60529

8. Thermal tests^{(1)(II)}

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

PR-0190-05
2017-02

Thermal transmittance (windows and doors)

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In the test areas listed, the characteristic test methods for the free selection of standardised or equivalent test methods are shown.

Test area					Char. test method
Test equipment	Measurand	From	To	Size	
Laboratory differential heat test Max installation dimension 1230x1480x240 mm	Thermal transmittance	0.1	10	W/m ² K	DIN EN 12412-2

9. Electromagnetic compatibility⁽¹⁾

Technical 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
EMC	DIN EN 61000-4-5 2015-03	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test (IEC 61000-4-5:2005); German version EN 61000-4-5:2006	(Restriction: No three-phase networks Single-phase networks only with 230V, ≤ 16A and 50Hz

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Technical field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
	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
EMC	DIN EN 61000-4-11 2005-02	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004); German version EN 61000-4-11:2004	(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			
	DIN EN 61000-6-1 2007-10	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005); German version EN 61000-6-1:2007	(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 2006-03	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments (IEC 61000-6-2:2005); German version EN 61000-6-2:2005	(Restriction: No tests in accordance with: DIN EN 61000-4-3 DIN EN 61000-4-8 DIN EN 61000-4-20

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Technical field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
EMC	DIN EN 61000-6-3 2011-09	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010); German version EN 61000-6-3:2007 + A1:2011	(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 2011-09	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German version EN 61000-6-4:2007 + A1:2011	(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
Product family standard			
EMC	DIN EN 55016-2-1 2014-12	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-1: Methods of measurement of disturbances and immunity – Conducted disturbance measurements (CISPR 16-2-1:2008 + A1:2010); German version EN 55016-2-1:2009 + A1:2011	(Restriction: Only single-phase networks with 230 V, ≤ 16 A and 50 Hz, as well as low-voltage DC networks with ≤ 16 A

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Technical field	Standard or in-house method / revision level	Title of standard or in-house method	Test method limitations
	DIN EN 55011 2011-04	Industrial, scientific and medical equipment - Radio frequency disturbance characteristics - Limits and methods of measurement (IEC/CISPR 11:2009, modified + A1:2010); German version EN 55011:2009 + A1:2010	(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
EMC	DIN EN 55014-1 2012-05	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 1: Emission (CISPR 14-1:2005 + A1:2008 + Cor. :2009 + A2:2011); German version EN 55014-1:2006 + A1:2009 + A2:2011	(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 55014-2 2016-01	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard (CISPR 14-2:2015); German version EN 55014-2:2015	(Restriction: No tests in accordance with: DIN EN 61000-4-3, DIN EN 61000-4-22
	DIN EN 55022 2011-12	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

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	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
	DIN EN 55032 2016-02	Electromagnetic compatibility of multimedia equipment – Emission requirements (CISPR 32:2015); German version EN 55032:2015	(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 2012-10	Household and similar electrical appliances – Safety Part 1: General requirements (IEC 60335-1:2010, modified); German version EN 60335-1:2012	(Restriction: Parts 19.11.4.1, 19.11.4.3 to 19.11.4.6 and 19.11.4.8 are applicable
	DIN EN 60335-2-103	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	

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AAMA	American Architectural Manufacturers Association
AS/NZS	Australian/New Zealand Standard
ASTM	American Society for Testing and Materials
PR-0000-00	In-house method of SCHÜCO International KG

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Valid from: 11.10.2019