



Schüco LivingSlide

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**PVC-U systems**

Windows and doors

















# Schüco product performance certificate

In accordance with DIN EN 14351-1:2016-12

No. KS1008444\_EN-01  
Valid until 01/02/2023

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<b>System</b>	Schüco LivIngSlide
<b>Special features</b>	-/-
<b>Product families</b>	1. Lift-and-slide door type 01 2. Lift-and-slide door type 01 TopAlu 3. Lift-and-slide door type 01 Panorama 4. Lift-and-slide door type 02 5. Lift-and-slide door type 06
<b>Frame material</b>	PVC-U

Properties	Class/value
 Resistance to wind load	Up to C3/B3
 Resistance to snow and permanent loads	Not relevant**
 Reaction to fire	Not relevant**
 Watertightness	Up to 8 A
 Dangerous substances	In accordance with EN14351-1 section 4.6
 Impact resistance	npd
 Load-bearing capacity of safety devices	npd
 Height and width	Not relevant**
 Ability to release	Not relevant**
 Sound reduction	$R_w(C;Ctr)$ to 45 (-1;-3) dB
 Thermal transmittance	*
 Radiation properties	CE marking for glazing
 Air permeability	Class 4
 Operating forces	Class 1
 Mechanical strength	Class 4
 Ventilation	*
 Bullet resistance	npd
 Blast resistance	npd
 Mechanical durability test	Class 2
 Behaviour between different climates	npd
 Burglar resistance	npd

## PVC-U systems

Windows and doors

## Schüco product performance certificate in accordance with DIN EN 14351-1:2016-12

No. KS1008444\_EN-01

Valid until 01/02/2023

### Basis

DIN EN 14351-1:2016-12

Windows and external doors

The Schüco performance certificate shows the performance characteristics of the systems named with their product families as per the specifications of the product standard.

The national building regulations and contractual arrangements apply to the use of the performance characteristics.

### Publication instructions

The Schüco International KG license conditions and conditions of use shall apply.

\* Project-specific certification – if necessary

\*\* Not mandatory for windows (exterior doors/roof windows only)

\*\*\* Only applies to windows with integrated ventilation devices

\*\*\*\* Certification in accordance with country of destination

npd no performance determined

Weißenfels, 02/09/2019

p.p.



**M. Herbst**

Spokesman for the Executive Management Board

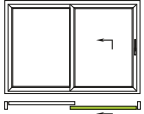
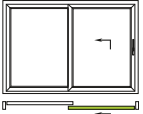
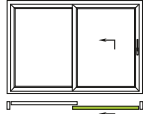

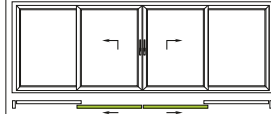





















p.p.



**C. Fischer**

Head of Technology

## 1. Performance matrix in accordance with product standard EN 14351-1

No.	Properties in accordance with EN 14351-1	Product family 1	Product family 2	Product family 3	Product family 4	Product family 5
		 Lift-and-slide door type 01	 Lift-and-slide door type 01 TopAlu	 Lift-and-slide door type 01 Panorama	 Lift-and-slide door type 02	 Lift-and-slide door type 06
4.2	 Resistance to wind load	C3/B3 C2/B3	C3/B3	C3/B3	C3/B3	C2/B2
4.3	 Resistance to snow and permanent load	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
4.4	 Reaction to fire	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
4.5	 Watertightness	8A	4A	8A	5A	6A
4.6	 Dangerous substances	See EN 14351-1 section 4.6				
4.7	 Impact resistance	npd	npd	npd	npd	npd
4.8	 Load-bearing capacity of safety devices	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
4.9	 Height and width (external doors only)	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
4.10	 Ability to release (external doors only)	Not relevant	Not relevant	Not relevant	Not relevant	Not relevant
4.11	 Sound reduction	Up to 45 (-2;-5) dB	npd	npd	npd	npd
4.12	 Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	$U_w$ values must be calculated based on the standard dimensions 1.23 m x 1.48 m or 1.48 m x 2.18 m or for specific projects.				
4.13	 Radiation properties	Must be provided for each project by means of CE markings for the glazing.				
4.14	 Air permeability	Class 4	Class 4	Class 4	Class 3	Class 4
4.16	 Operating forces (with manually operated windows only)	Class 1	npd	npd	npd	Class 1
4.17	 Mechanical strength	Class 4	npd	npd	npd	npd
4.18	 Ventilation	Project-specific certification				
4.19	 Bullet resistance	npd	npd	npd	npd	npd
4.20	 Blast resistance	npd	npd	npd	npd	npd
4.21	 Resistance to repeated opening and closing	Class 2	npd	npd	npd	This property has been tested on the test specimen of product family 1 by way of example.
4.22	 Behaviour between different climates	npd	npd	npd	npd	npd
4.23	 Burglar resistance	RC2	npd	npd	npd	npd

**Note 1** npd: no performance determined

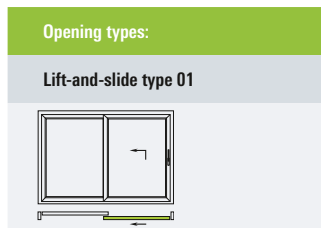
## 2. System features and performance characteristics of the product families

### 2.1 Product family 1











#### 2.1.1 Description of system features for product family 1

<b>Series</b>	Schüco LivIngSlide
<b>Version</b>	Type 01 – 1 sliding vent/1 fixed vent
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	194 mm/82 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile screwed with frame trim connector 25864400; vent frame mitre-cut and welded
<b>Rebate construction</b>	
<b>Frame trim gasket, outside</b>	Sealing profile 25897400/29520100, square-cut and butt-joined Supplier: Schüco Polymer Technologies KG
<b>Centre joint</b>	Sealing profile 25289700/25289800, EPDM, sealing profile 25897400/29520100 Supplier: Schüco Polymer Technologies KG
<b>Vent gasket, outside and inside</b>	Sealing profile 25289500/25289600, EPDM with corner sealing piece 25864100/25864200, square-cut, butt-joined and bonded Supplier: Schüco Polymer Technologies KG
<b>Rebate drainage</b>	Lift-and-slide door type 01 Via threshold On each vent, 5 mm x 35 mm slots towards the bottom, on the left and right-hand side, approx. 20 mm from the corner and in the centre, with a max. distance between slots of 600 mm
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area
<b>Fittings</b>	Tested with: Lift-and-slide door type 01 Schüco lift-and-slide Supplier: Schüco Polymer Technologies KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 24 mm to 52 mm
<b>Glazing gasket, outside</b>	Sealing profile, EPDM, mitre-cut and welded Supplier: Schüco Polymer Technologies KG
<b>Glazing gasket, inside</b>	Sealing profile, PVC-P, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area

## 2.1.2 Overview of performance characteristics for product family 1



Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application		
4.2		Resistance to wind load	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR01 ift Rosenheim	C3/B3	Transfer to -100 % of the frame width and frame height of the test specimen.	
			Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2632 mm Vent size: 2000 mm x 2500 mm	Test report 18-000084-PR02 ift Rosenheim	C2/B3		
4.3		Resistance to snow and permanent load			Not relevant		
4.4		Reaction to fire			Not relevant		
4.5		Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR01 ift Rosenheim	8A	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).	
			Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2632 mm Vent size: 2000 mm x 2500 mm	Test report 18-000084-PR02 ift Rosenheim	8A		
4.6		Dangerous substances			npd		
4.7		Impact resistance			npd		
4.8		Load-bearing capacity of safety devices			npd		
4.9		Height and width (external doors only)			Not relevant		
4.10		Ability to release (external doors only)			Not relevant		
4.11		Sound reduction	Lift-and-slide door with a sliding vent and fixed light Unit size: 4000 mm x 2300 mm Vent size: 1965 mm x 2010 mm			Dimensions can be transferred to alternative window formats in accordance with Section B.4 from Appendix B, EN 14351-1, glazing changed in accordance with Section B.2 from Appendix B, EN 14351-1	
			Glazing:	<ul style="list-style-type: none"> <li>▪ LSG SI4.4 / 12 / 4 / 12 / LSG SI4.4</li> <li>▪ SGG Climatop XN Silence 44/47</li> <li>▪ R<sub>w</sub> insulating glass 47 dB</li> </ul>	Test report 18-001821-PR01 V3 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 42 (-2;-5) dB
				<ul style="list-style-type: none"> <li>▪ 6 / 16 / 4</li> <li>▪ SGG Climatop N Acoustic 26/36</li> <li>▪ R<sub>w</sub> insulating glass 36 dB</li> </ul>	Test report 18-001821-PR01 V4 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 35 (-2;-5) dB
				<ul style="list-style-type: none"> <li>▪ 6 / 16 / 6</li> <li>▪ SGG Climatop N 28/33</li> <li>▪ R<sub>w</sub> insulating glass 33 dB</li> </ul>	Test report 18-001821-PR01 V5 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 33 (-1;-4) dB
				<ul style="list-style-type: none"> <li>▪ LSG SI 4.4 / 12 / 4 / 12 / 6</li> <li>▪ SGG Climatop N Silence 42/42</li> <li>▪ R<sub>w</sub> insulating glass 42 dB</li> </ul>	Test report 18-001821-PR01 V7 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 39 (-2;-5) dB
				<ul style="list-style-type: none"> <li>▪ 6 / 12 / 4 / 12 / 4</li> <li>▪ SGG Climatop N Acoustic 38/36</li> <li>▪ R<sub>w</sub> insulating glass 36 dB</li> </ul>	Test report 18-001821-PR01 V8 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 36 (-2;-6) dB
				<ul style="list-style-type: none"> <li>▪ LSG SI4.4 / 12 / 6 / 12 / LSG SI4.4</li> <li>▪ SGG Climatop XN Silence 50/50</li> <li>▪ R<sub>w</sub> insulating glass 50 dB</li> </ul>	Test report 18-001821-PR01 V9 ift Rosenheim		R <sub>w</sub> (C;Ctr) = 45 (-2;-5) dB

Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application	
4.12		<b>Thermal transmittance <math>U_w</math></b> ( $W/(m^2K)$ )	System $U_i$ value Cross sections in accordance with system description Glazing thickness, 44 mm	Calculation in accordance with EN ISO 10077-2	$U_i = 1.3 W/(m^2K)$	The $U_w$ values must be calculated based on the standard dimensions 1.23 m x 1.48 m or 1.48 m x 2.18 m or for specific projects in accordance with the processes described in Point 2.12 of this document. Transfer regulations for standard dimensions: for dimensions 1.23 m x 1.48 m, $U_w$ value for the window $\leq 2.3 m^2$ can be used; or for all windows if $U_g \leq 1.9 W/m^2K$ Standard dimensions: 1.48 m x 2.18 m $U_w$ value for windows $> 2.3 m^2$
4.14		<b>Air permeability</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
			Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2636 mm Vent size: 2000 mm x 2500 mm	Test report 18-000084-PR02 ift Rosenheim		
4.16		<b>Operating forces (with manually operated windows only)</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR02 ift Rosenheim	1	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and the same number of or fewer locking points.
4.17		<b>Mechanical strength</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and same design.
4.18		<b>Ventilation</b>		Project-specific certification	If required	
4.19		<b>Bullet resistance</b>			npd	
4.20		<b>Blast resistance</b>			npd	
4.21		<b>Resistance to repeated opening and closing</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR02 ift Rosenheim	2	Transfer to -100 % of the total area of the test specimen in accordance with the maximum tested vent weight, with similar W/H side ratios and when using the same type of fittings and same design.
4.22		<b>Behaviour between different climates</b>			npd	
4.23		<b>Burglar resistance</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 2490 mm x 2532 mm Vent size: 1800 mm x 2400 mm	Test report EH-19-02-26-01 2618293 EPH Dresden	RC2/RC2N	Transfer to -20 % and +10 % of the total area of the test specimen when using the same type of fittings and same design.



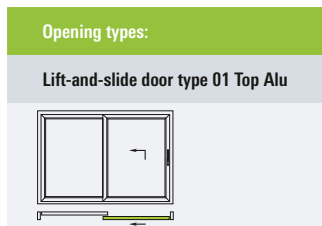
## 2.2 Product family 2

### 2.2.1 Description of system features for product family 2




<b>Series</b>	Schüco LivIngSlide
<b>Version</b>	Type 01 TopAlu – 1 sliding vent/1fixed vent
<b>Frame material</b>	PVC-U/aluminium cover cap, external
<b>Profile depth</b>	194 mm/82 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile screwed with frame trim connector 25864400; vent frame mitre-cut and welded
<b>Frame trim</b>	Trim with aluminium cover cap 147397000, butt-joined, clipped in Supplier: Schüco Polymer Technologies KG
<b>Vent</b>	Sliding vent with aluminium cover cap 147398000, fixed vent with aluminium cover cap 147398000, butt-joined, clipped in Supplier: Schüco Polymer Technologies KG
<b>Rebate construction</b>	
<b>Frame trim gasket, outside</b>	Sealing profile 28660300/28660400, butt-joined Supplier: Schüco Polymer Technologies KG
<b>Centre joint</b>	Sealing profile 25289700/25289800 EPDM, sealing profile 28660300/28660400, external Sealing profile 25897400/29520100, internal Supplier: Schüco Polymer Technologies KG
<b>Vent gasket, outside and inside</b>	Sealing profile 25289500/25289600, EPDM with corner sealing piece 25864100/25864200, square-cut, butt-joined and bonded Supplier: Schüco Polymer Technologies KG
<b>Rebate drainage</b>	Lift-and-slide door type 01 Via threshold On each vent, 5 mm x 35 mm slots towards the bottom, on the left and right-hand side, approx. 20 mm from the corner and in the centre, with a max. distance between slots of 600 mm
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area
<b>Fittings</b>	Tested with: Lift-and-slide door type 01 Schüco lift-and-slide Supplier: Schüco Polymer Technologies KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 24 mm to 52 mm
<b>Glazing gasket, outside</b>	Sealing profile, EPDM, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Glazing gasket, inside</b>	Sealing profile, PVC-P, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area



## 2.2.2 Overview of performance characteristics for product family 2



Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.2	Resistance to wind load	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR03 ift Rosenheim	C3/B3	Transfer to -100 % of the frame width and frame height of the test specimen
4.3	Resistance to snow and permanent load			Not relevant	
4.4	Reaction to fire			npd	
4.5	Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR03 ift Rosenheim	4A	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.6	Dangerous substances			npd	
4.7	Impact resistance			npd	
4.8	Load-bearing capacity of safety devices			npd	
4.9	Height and width (external doors only)			Not relevant	
4.10	Ability to release (external doors only)			Not relevant	
4.11	Sound reduction	Type in accordance with EN 14351-1:2006 + A2:2016	Project-specific certification	If required	
4.12	Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	See Point 4.12 in table 2.1.1			
4.13	Radiation properties	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	Air permeability	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 18-000656-PR03 ift Rosenheim	4	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.16	Operating forces (with manually operated windows only)	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR02 ift Rosenheim	1	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and the same number of or fewer locking points.
4.17	Mechanical strength	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and same design.
4.18	Ventilation		Project-specific certification	If required	
4.19	Bullet resistance			npd	
4.20	Blast resistance			npd	

Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.21	 <b>Resistance to repeated opening and closing</b>	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR02 ift Rosenheim	2	Transfer to -100 % of the total area of the test specimen in accordance with the maximum tested vent weight, with similar W/H side ratios and when using the same type of fittings and same design.
4.22	 <b>Behaviour between different climates</b>			npd	
4.23	 <b>Burglar resistance</b>			npd	

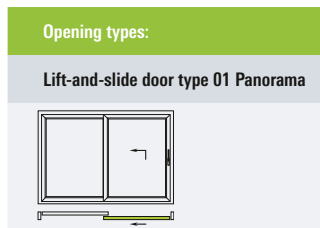


## 2.3 Product family 3






### 2.3.1 Description of system features for product family 3

<b>Series</b>	Schüco LivIngSlide
<b>Version</b>	Type 01 Panorama – 1 sliding vent/1 fixed vent
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	194 mm/82 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile screwed with frame trim connector 25864400; vent frame mitre-cut and welded
<b>Vent</b>	Fixed vent profile 82/32 Art. No. 19726...
<b>T-profile</b>	T-profile at centre joint 82/61 Art. No. 19728...
<b>Rebate construction</b>	
<b>Frame trim gasket, outside</b>	Sealing profile 25897400/29520100, square-cut and butt-joined Supplier: Schüco Polymer Technologies KG
<b>Centre joint</b>	Sealing profile 25289700/25289800 EPDM, sealing profile 25897400/29520100 Supplier: Schüco Polymer Technologies KG
<b>Vent gasket, outside and inside</b>	Sealing profile 25289500/25289600, EPDM with corner sealing piece 25864100/25864200, square-cut, butt-joined and bonded Supplier: Schüco Polymer Technologies KG
<b>Rebate drainage</b>	Lift-and-slide door type 01 Via threshold On each vent, 5 mm x 35 mm slots towards the bottom, on the left and right-hand side, approx. 20 mm from the corner and in the centre, with a max. distance between slots of 600 mm
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area
<b>Fittings</b>	Tested with: Lift-and-slide door type 01 Schüco lift-and-slide Supplier: Schüco Polymer Technologies KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 24 mm to 52 mm
<b>Glazing gasket, outside</b>	Sealing profile, EPDM, mitre-cut and welded Supplier: Schüco Polymer Technologies KG
<b>Glazing gasket, inside</b>	Sealing profile, PVC-P, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area

## 2.3.2 Overview of performance characteristics for product family 3



Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.2	Resistance to wind load	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-002796-PR01 ift Rosenheim	C3/B3	Transfer to -100 % of the frame width and frame height of the test specimen.
4.3	Resistance to snow and permanent load			Not relevant	
4.4	Reaction to fire			npd	
4.5	Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-002796-PR01 ift Rosenheim	8A	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.6	Dangerous substances			npd	
4.7	Impact resistance			npd	
4.8	Load-bearing capacity of safety devices			npd	
4.9	Height and width (external doors only)			Not relevant	
4.10	Ability to release (external doors only)			Not relevant	
4.11	Sound reduction	Type in accordance with Appendix B.2, EN 14351-1:2006	Project-specific certification	If required	
4.12	Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	See Point 4.12 in table 2.1.1			
4.13	Radiation properties	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	Air permeability	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-002796-PR01 ift Rosenheim	4	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.16	Operating forces (with manually operated windows only)	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR02 ift Rosenheim	1	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and the same number of or fewer locking points.
4.17	Mechanical strength	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and same design.
4.18	Ventilation		Project-specific certification	If required	

Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.19	 <b>Bullet resistance</b>			npd	
4.20	 <b>Blast resistance</b>			npd	
4.21	 <b>Resistance to repeated opening and closing</b>			npd	
4.22	 <b>Behaviour between different climates</b>			npd	
4.23	 <b>Burglar resistance</b>			npd	



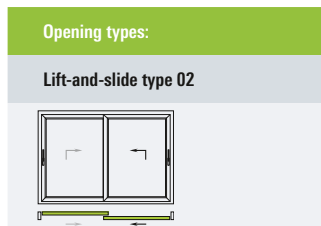
## 2.4 Product family 4

### 2.4.1 Description of system features for product family 4






<b>Series</b>	Schüco LivIngSlide
<b>Version</b>	Type 02 – 2 sliding vent
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	194 mm/82 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile screwed with frame trim connector 25864400; vent frame mitre-cut and welded
<b>Vent</b>	Sliding vent, internal, 19713.../sliding vent, external, 19713...
<b>Rebate construction</b>	
<b>Frame trim gasket, outside</b>	Sealing profile 25897400/29520100, square-cut and butt-joined Supplier: Schüco Polymer Technologies KG
<b>Centre joint</b>	Sealing profile 25289700/25289800 EPDM, sealing profile 25897400/29520100 Supplier: Schüco Polymer Technologies KG
<b>Vent gasket, outside and inside</b>	Sealing profile 25289500/25289600, EPDM with corner sealing piece 25864100/25864200, square-cut, butt-joined and bonded Supplier: Schüco Polymer Technologies KG
<b>Rebate drainage</b>	Lift-and-slide door type 02 Via threshold On each vent, 5 mm x 35 mm slots towards the bottom, on the left and right-hand side, approx. 20 mm from the corner and in the centre, with a max. distance between slots of 600 mm
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area
<b>Fittings</b>	Tested with: Lift-and-slide door type 02 Schüco lift-and-slide Supplier: Schüco Polymer Technologies KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 24 mm to 52 mm
<b>Glazing gasket, outside</b>	Sealing profile, EPDM, mitre-cut and welded Supplier: Schüco Polymer Technologies KG
<b>Glazing gasket, inside</b>	Sealing profile, PVC-P, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area



## 2.4.2 Overview of performance characteristics for product family 4



Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.2	Resistance to wind load	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-000084-PR03 ift Rosenheim	C3/B3	Transfer to -100 % of the frame width and frame height of the test specimen.
4.3	Resistance to snow and permanent load			Not relevant	
4.4	Reaction to fire			npd	
4.5	Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-000084-PR03 ift Rosenheim	5A	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.6	Dangerous substances			npd	
4.7	Impact resistance			npd	
4.8	Load-bearing capacity of safety devices			npd	
4.9	Height and width (external doors only)			Not relevant	
4.10	Ability to release (external doors only)			Not relevant	
4.11	Sound reduction	Type in accordance with Appendix B.2, EN 14351-1:2006	Project-specific certification	If required	
4.12	Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	See Point 4.12 in table 2.1.1			
4.13	Radiation properties	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	Air permeability	Lift-and-slide door with a sliding vent and fixed light Unit size: 4070 mm x 2232 mm Vent size: 2000 mm x 2100 mm	Test report 19-000084-PR03 ift Rosenheim	3	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.16	Operating forces (with manually operated windows only)	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR02 ift Rosenheim	1	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and the same number of or fewer locking points.
4.17	Mechanical strength	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and same design.
4.18	Ventilation		Project-specific certification	If required	

Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.19	 <b>Bullet resistance</b>			npd	
4.20	 <b>Blast resistance</b>			npd	
4.21	 <b>Resistance to repeated opening and closing</b>			npd	
4.22	 <b>Behaviour between different climates</b>			npd	
4.23	 <b>Burglar resistance</b>			npd	

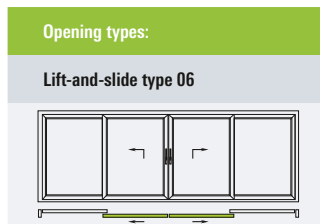


## 2.5 Product family 5






### 2.5.1 Description of system features for product family 5

<b>Series</b>	Schüco LivIngSlide
<b>Version</b>	Type 06 – 2 sliding vents with double-vent/2 fixed vents
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	194 mm/82 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile screwed with frame trim connector 25864400; vent frame mitre-cut and welded
<b>Rebate construction</b>	
<b>Frame trim gasket, outside</b>	Sealing profile 25897400/29520100, square-cut and butt-joined Supplier: Schüco Polymer Technologies KG
<b>Centre joint</b>	Sealing profile 25289700/25289800 EPDM, sealing profile 25897400/29520100 Supplier: Schüco Polymer Technologies KG
<b>Vent gasket, outside and inside</b>	Sealing profile 25289500/25289600, EPDM with corner sealing piece 25864100/25864200, square-cut, butt-joined and bonded Supplier: Schüco Polymer Technologies KG
<b>Rebate drainage</b>	Lift-and-slide door type 06 Via threshold On each vent, 5 mm x 35 mm slots towards the bottom, on the left and right-hand side, approx. 20 mm from the corner and in the centre, with a max. distance between slots of 600 mm
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area
<b>Fittings</b>	Tested with: Lift-and-slide door type 06 Schüco lift-and-slide Supplier: Schüco Polymer Technologies KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 24 mm to 52 mm
<b>Glazing gasket, outside</b>	Sealing profile, EPDM, mitre-cut and welded Supplier: Schüco Polymer Technologies KG
<b>Glazing gasket, inside</b>	Sealing profile, PVC-P, mitre-cut and joined Supplier: Schüco Polymer Technologies KG
<b>Pressure equalisation</b>	2 drill holes, diameter 8 mm, at the top of each vent Alternatively, make two notches on each vent at the top every 40 mm Alternatively, drill 2 holes with an 8 mm diameter at the top of each vent before welding in the intermediate bars of the mitred area

## 2.5.2 Overview of performance characteristics for product family 5



Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.2	Resistance to wind load	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2532 mm Vent size: 1300 mm x 2400 mm	Test report 18-000656-PR04 ift Rosenheim	C2/B2	Transfer to -100 % of the frame width and frame height of the test specimen.
4.3	Resistance to snow and permanent load			Not relevant	
4.4	Reaction to fire			npd	
4.5	Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2532 mm Vent size: 1300 mm x 2400 mm	Test report 18-000656-PR04 ift Rosenheim	6A	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.6	Dangerous substances			npd	
4.7	Impact resistance			npd	
4.8	Load-bearing capacity of safety devices			npd	
4.9	Height and width (external doors only)			Not relevant	
4.10	Ability to release (external doors only)			Not relevant	
4.11	Sound reduction	Type in accordance with Appendix B.2, EN 14351-1:2006	Project-specific certification	If required	
4.12	Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	See Point 4.12 in table 2.1.1			
4.13	Radiation properties	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	Air permeability	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2532 mm Vent size: 1300 mm x 2400 mm	Test report 18-000656-PR04 ift Rosenheim	4	Transfer to -100 % to +50 % of the total area of the test specimen, in accordance with the maximum distances between locking points with the same or a similar format (ratio of height to width).
4.16	Operating forces (with manually operated windows only)	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR02 ift Rosenheim	1	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and the same number of or fewer locking points.
4.17	Mechanical strength	This property has been tested on the test specimen of product family 1 by way of example.	Test report 18-000656-PR01 ift Rosenheim	4	Transfer to -100 % of the total area of the test specimen with the same or a similar format (ratio of height to width) when using the same type of fittings and same design.
4.18	Ventilation		Project-specific certification	If required	

Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.19	 <b>Bullet resistance</b>			npd	
4.20	 <b>Blast resistance</b>			npd	
4.21	 <b>Resistance to repeated opening and closing</b>			npd	
4.22	 <b>Behaviour between different climates</b>			npd	
4.23	 <b>Burglar resistance</b>			npd	

## 3. Details on listed test documentation

The original test reports serve as verification. You can obtain them via the internet at: [www.schueco.de](http://www.schueco.de)

Test report No. Test institute	Date	Valid to	Type of test	Underlying standards
Test report 18-000656-PR01 ift Rosenheim	2018-07-27	Until updated	Resistance to wind load, watertightness, air permeability, operating forces, mechanical loading	EN 14351-1:2006+A2:2016-09
Test report 18-000656-PR03 ift Rosenheim	19/11/2018	Until updated	Resistance to wind load, watertightness, air permeability	EN 14351-1:2006+A2:2016-09
Test report 18-000656-PR02 ift Rosenheim	2018-10-15	Until updated	Operating forces, resistance to repeated opening and closing	EN 14351-1:2006+A2:2016-09
Test report 18-000656-PR04 ift Rosenheim	2019-01-11	Until updated	Resistance to wind load, watertightness, air permeability, operating forces, mechanical loading	EN 14351-1:2006+A2:2016-09
Test report 19-000084-PR03 ift Rosenheim	2019-05-24	Until updated	Resistance to wind load, watertightness, air permeability	EN 14351-1:2006+A2:2016-09
Test report 19-000084-PR01 ift Rosenheim	2019-05-24	Until updated	Resistance to wind load, watertightness, air permeability	EN 14351-1:2006+A2:2016-09
Test report 19-000084-PR02 ift Rosenheim	2019-05-24	Until updated	Resistance to wind load, watertightness, air permeability, operating forces, mechanical loading	EN 14351-1:2006+A2:2016-09
Test report 18-001821-PR01 V3 ift Rosenheim	2018-08-28	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report 18-001821-PR01 V4 ift Rosenheim	2018-08-29	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report 18-001821- PR01 V5 ift Rosenheim	2018-08-29	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report 18-001821- PR01 V7 ift Rosenheim	2018-08-28	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report 18-001821- PR01 V8 ift Rosenheim	2018-08-28	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report 18-001821- PR01 V9 ift Rosenheim	2019-03-12	Until updated	Airborne sound reduction	EN ISO 10140-2:2010-09 EN ISO 717-1:2013-03 EN ISO 10140-1:2016-08
Test report EH-19-02-26-01 2618293 EPH Dresden	2019-02-26	Until updated	Burglar resistance	DIN EN V 1627 – 1630

## Appendix 1 Test, calculation and classification standards in accordance with EN 14351-1

No.	Properties in accordance with EN 14351-1	Test or calculation standard	Classification standard
4.2	 Resistance to wind load	EN 12211	EN 12210
4.3	 Resistance to snow and permanent load	National regulations	
4.4	 Reaction to fire	EN 13501-1	EN 13501-1
4.5	 Watertightness	EN 1027	EN 12208
4.6	 Dangerous substances	National regulations	
4.7	 Impact resistance	EN 13049	
4.8	 Load-bearing capacity of safety devices	prEN 14609 EN 948	
4.9	 Height and width (external doors only)	Measured values	
4.10	 Ability to release (external doors only)	EN 179, EN 1125, EN 1935, prEN 13633, prEN 13637	
4.11	 Sound reduction	EN ISO 140-3, EN ISO 717-1	Measured values
4.12	 Thermal transmittance $U_w$ (W/(m <sup>2</sup> K))	EN ISO 10077-1, prEN ISO 10077-2, EN ISO 12567-1, prEN ISO 12567-2	Measured values
4.13	 Radiation properties	EN 410, EN 13363-1, EN 13363-2	Measured values
4.14	 Air permeability	EN 1026	EN 12207
4.16	 Operating forces (with manually operated windows only)	EN 12046-1	EN 13115
4.17	 Mechanical strength	EN 14608, EN 14609, 12046-1	EN 13115
4.18	 Ventilation	EN 13141-1:2004	Measured values
4.19	 Bullet resistance	EN 1523	EN 1522
4.20	 Blast resistance	EN 13124	EN 13123
4.21	 Resistance to repeated opening and closing	EN 1191	EN 12400
4.22	 Behaviour between different climates	ENV 13420 EN 1121	EN 12219 Pending for windows
4.23	 Burglar resistance	ENV 1628, ENV 1629, ENV 1630	ENV 1627