



Schüco EasySlide CT 70

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**PVC-U systems**

Windows and doors

# Schüco product performance certificate

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

No. KS1007767\_EN-01  
Valid until 01/02/2023

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<b>System</b>	Schüco EasySlide CT 70
<b>Special features</b>	- / -
<b>Product families</b>	1. Lift-and-slide doors type 01
<b>Frame material</b>	PVC-U

Features	Class/value
 Resistance to wind load	Up to C2 / B2
 Resistance to snow and permanent loads	Not relevant**
 Reaction to fire	Not relevant**
 Watertightness	Up to 6 A
 Dangerous substances	In accordance with EN14351-1 section 4.6
 Impact resistance	Class 3
 Load-bearing capacity of safety devices	Threshold value achieved
 Height and width	Not relevant**
 Ability to release	Not relevant**
 Sound reduction	$R_w(C;C_{tr})$ to 43 (-2;-5) dB
 Thermal transmittance	*
 Radiation properties	CE marking for glazing
 Air permeability	Up to 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	Up to WK2

## PVC-U systems

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## Basic principles

EN 14351-1 (2006-03)

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

Weißenfels, 28/1/2019

p.p.



**M. Herbst**

Spokesman for the Executive Management Board

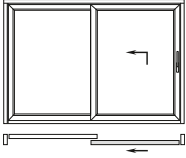



















p.p.



**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
		 <p>Lift-and-slide doors type 01</p>		
4.2	 Resistance to wind load	C2/B2		
4.3	 Resistance to snow and permanent load	Not relevant		
4.4	 Reaction to fire	Not relevant		
4.5	 Watertightness	6A		
4.6	 Dangerous substances	See EN 14351-1 section 4.6		
4.7	 Impact resistance	Class 3 *	*This property has been tested on the test specimen of product family 1, CT 70 AS system, by way of example.	
4.8	 Load-bearing capacity of safety devices	Threshold value achieved		
4.9	 Height and width (external doors only)	Not relevant		
4.10	 Ability to release (external doors only)	Not relevant		
4.11	 Sound reduction	Up to 43 (-2;-5) dB		
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		
4.16	 Operating forces (with manually operated windows only)	Class 1		
4.17	 Mechanical strength	Class 4		
4.18	 Ventilation	Project-specific certification		
4.19	 Bullet resistance	npd		
4.20	 Blast resistance	npd		
4.21	 Resistance to repeated opening and closing	Class 2		
4.22	 Behaviour between different climates	npd		
4.23	 Burglar resistance	Up to WK2		

Note 1 npd: no performance determined

Note 2 The numerical data in brackets is for information purposes only.

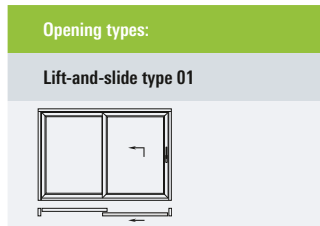
## 2. System features and performance characteristics of the product families

### 2.1 Product family 1












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

<b>Series</b>	<b>Schüco EasySlide CT 70</b>
<b>Versions</b>	<b>Lift-and-slide door type 01</b>
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	167 mm / 70 mm
<b>Frame assembly</b>	Lift-and-slide frame trim profile, square-cut / machined contour and screw-fixed butt join with joint sealing pieces, Vent frame mitre-cut and welded
<b>Rebate construction</b>	
Rebate gasket, outside	Sealing profile 22492500, EPDM, silver grey, butt-joined and bonded with gasket corner 24442200 Supplier: Schüco International KG
Centre joint	Sealing strips 18824... with brush seal 22414400 and sealing profile 22492500
Rebate gasket, inside	Sealing profile 22492500, EPDM, silver grey, butt-joined and bonded with gasket corner 24442200 Supplier: Schüco International KG
Rebate drainage	Lift-and-slide door type 01 2 slots, 5 mm x 30 mm, at the bottom of each vent
Pressure equalisation	External rebate gasket recessed at the top on the right and left
<b>Fittings</b>	Tested with: Lift-and-slide door type 01 HS-Portal 250 KF A0206 Supplier: Siegenia-Aubi
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 6 mm to 36 mm
Glazing gasket, outside	Sealing profile 22495900, EPDM, silver grey, mitre-cut and joined Supplier: Schüco International KG
Glazing gasket, inside	Sealing profile 28614200, PVC-P or 22490400 EPDM, silver grey, mitre-cut and joined Supplier: Schüco International KG
Pressure equalisation	Lift-and-slide door type 01 2 slots, 5 mm x 20 mm, at the top and bottom

## 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: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO1 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			Not relevant	
4.5	Watertightness	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO1 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	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2300 mm Leaf size: 2228 mm x 2176 mm	Test report 10127189 / 1 ift Rosenheim	Threshold value achieved	
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: 1978 mm x 2176 mm  Profiles: <ul style="list-style-type: none"> <li>▪ Lift-and-slide frame trim profile 18821...</li> <li>▪ Vent frame 18822...</li> </ul> Glazing: <ul style="list-style-type: none"> <li>▪ 6 / 16 / 6, argon gas filling</li> <li>▪ iplus neutral S (28) – 1.1</li> </ul>	Test report 161 27150 / 1.3.0 ift Rosenheim	$R_w(C;C_v) = 34$ dB (-2; -4)	Design in accordance with description in test reports for single-vent turn/tilt windows.  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, EN14351-1
		Glazing: <ul style="list-style-type: none"> <li>▪ 10 / 16 / 6, argon gas filling</li> <li>▪ iplus S / ipaphon 40/32 – 1.1</li> </ul>	Test report 161 27150 / 1.1.0 ift Rosenheim	$R_w(C;C_v) = 37$ dB (-1; -4)	
		Glazing: <ul style="list-style-type: none"> <li>▪ 9 LSG SF / 16 / 10, argon gas filling</li> <li>▪ iplus S / ipaphon SF 45/35 – 1.1</li> </ul>	Test report 161 27150 / 1.2.0 ift Rosenheim	$R_w(C;C_v) = 41$ dB (-1; -5)	
		Glazing: <ul style="list-style-type: none"> <li>▪ 13 SF / 16 / 9 SF argon gas filling</li> <li>▪ iplus S / ipaphon SF 45/35 – 1.1</li> </ul>	Test report 161 27150 / 2.1.0 ift Rosenheim	$R_w(C;C_v) = 43$ dB (-2; -5)	






















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> (<math>W/(m^2K)</math>)</b>	Cross sections with moving/fixed parts (vent/lift-and-slide frame trim profile combination and centre joint)	$U_i$ value certificate in accordance with DIN EN 10077 Part 2	$U_i = 1.87 W/(m^2K)$	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 $> 2.3 m^2$
4.13	 <b>Radiation properties</b>	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	 <b>Air permeability</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO1 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	 <b>Operating forces (with manually operated windows only)</b>	Lift-and-slide door with a sliding vent and fixed light Unit size: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO1 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: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO1 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: 4500 mm x 2300 mm Vent size: 2228 mm x 2176 mm	Test report 16-002944-PRO2 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>	HS-Portal 250 KF A0209, Siegenia-Aubi, GU 933 K-13335 with safety catch, Gretsch-Unitas GmbH Contact side: Closing side / closing surface in accordance with DIN 107 Glazing: Class P4A in accordance with DIN EN 356: 2000-02  Lift-and-slide door with a sliding vent and fixed light Unit size: 4000 mm x 2300 mm Vent size: 1978 mm x 2176 mm	Test report 211 27387 ift Rosenheim	WK2	Transfer to -20% and +10% of the total area of the test specimen when using the same type of fittings and same design

## 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
16-002944-PRO1/ PRO2 ift Rosenheim	20.09.2003	Until updated	Resistance to wind load, watertightness, air permeability, mechanical loading and resistance to repeated opening and closing	EN 14351-1
161 27150 ift Rosenheim	04.05.2003	Until updated	Airborne sound insulation	EN 20140-3; EN ISO 717-1
211 27387 ift Rosenheim	30.10.2003	Until updated	Burglar resistance	DIN V ENV 1627

## 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