



Schüco Corona CT 70 AS entrance door

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**PVC-U systems**

Windows and doors





















# Schüco product performance certificate

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

No. KS1007766\_EN-01  
Valid until 01/02/2023

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<b>System</b>	Schüco Corona CT 70 AS entrance door
<b>Special features</b>	- / -
<b>Product families</b>	1. Side-hung doors
<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 4 A
 Dangerous substances	In accordance with EN14351-1 section 4.6
 Impact resistance	Class 1
 Load-bearing capacity of safety devices	npd
 Height and width	2250 mm x 1100 mm
 Ability to release	EN 179 EN 1125 **
 Sound reduction	$R_w(C;C_{tr})$ to 38 (-1;-3) dB
 Thermal transmittance	*
 Radiation properties	CE marking for glazing
 Air permeability	Class 2
 Operating forces	Class 2
 Mechanical strength	Class 3
 Ventilation	*
 Bullet resistance	npd
 Blast resistance	npd
 Mechanical durability test	Class 5
 Behaviour between different climates	3D / 3E
 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

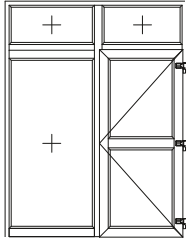





















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**C. Fischer**

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>Side-hung doors</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	4A		
4.6	 Dangerous substances	See EN 14351-1 section 4.6		
4.7	 Impact resistance	Class 1		
4.8	 Load-bearing capacity of safety devices	npd		
4.9	 Height and width (external doors only)	2250 mm x 1100 mm		
4.10	 Ability to release (external doors only)	In accordance with EN 179 / EN 1125		
4.11	 Sound reduction	Up to 38 (-1;-3) 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 2		
4.16	 Operating forces (with manually operated doors only)	Class 2		
4.17	 Mechanical strength	Class 3		
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 5		
4.22	 Behaviour between different climates	3D / 3E		
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.

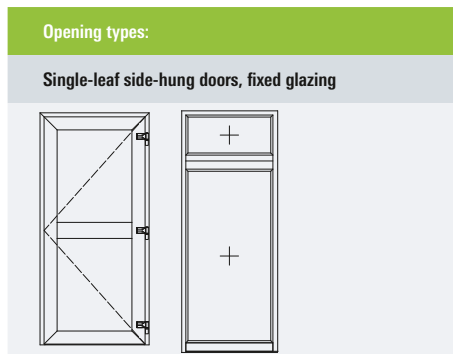
## 2. System features and performance characteristics of the product families

### 2.1 Product family 1








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

<b>Series</b>	<b>Schüco Corona CT 70 AS doors</b>
<b>Versions</b>	<b>Side-hung</b>
<b>Frame material</b>	PVC-U
<b>Profile depth</b>	70 mm
<b>Frame assembly</b>	Outer frame / leaf frame mitre-cut and welded
<b>Threshold</b>	Combination threshold with EPDM kick plate, drip bar with brush seal in the lower part of the leaf, two-part wind-stop Supplier: Schüco International KG
<b>Rebate construction</b>	
Rebate gasket, outside	Sealing profile, EPDM, mitre-cut and joined Supplier: Schüco International KG
Rebate gasket, inside	Sealing profile, EPDM, mitre-cut and joined Supplier: Schüco International KG
Rebate drainage	Single-leaf side-hung door Via threshold
Pressure equalisation	External rebate gasket recessed at the top on the right and left
<b>Fittings</b>	Tested with: Single-leaf side-hung door Schüco lock range Supplier: Schüco International KG
<b>Glazing</b>	Multi-pane insulating glass, glass thicknesses from 6 mm to 48 mm
Glazing gasket, outside	Sealing profile, EPDM, mitre-cut and joined Supplier: Schüco International KG
Glazing gasket, inside	Sealing profile, PVC-P or EPDM, mitre-cut and joined Supplier: Schüco International KG
Pressure equalisation	Single-leaf side-hung door 4 slots, 5 mm x 30 mm, at the bottom of each leaf, 3 slots, 5 mm x 30 mm, at the top of each leaf

## 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	<b>Resistance to wind load</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR01 ift Rosenheim	C2/B2	Transfer to -100% of the frame width and frame height of the test specimen
4.3	<b>Resistance to snow and permanent load</b>			Not relevant	
4.4	<b>Reaction to fire</b>			Not relevant	
4.5	<b>Watertightness</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR01 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	<b>Dangerous substances</b>			npd	
4.7	<b>Impact resistance</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR01 ift Rosenheim	1	< total area of the test specimen and in accordance with the distances between locking points
4.8	<b>Load-bearing capacity of safety devices</b>			npd	
4.9	<b>Height and width (external doors only)</b>	Single-leaf side-hung door		2250 mm x 1100 mm	
4.10	<b>Ability to release (external doors only)</b>			In accordance with EN 179 / EN 1125	
4.11	<b>Sound reduction</b>			npd	
4.12	<b>Thermal transmittance <math>U_w</math> (<math>W/(m^2K)</math>)</b>	Cross sections with moving parts (Leaf/outer frame combination) <ul style="list-style-type: none"> <li>▪ Leaf profile: 19108...</li> <li>▪ Basic depth: 70 mm</li> <li>▪ Outer frame profile: 18852...</li> <li>▪ Basic depth: 70 mm</li> <li>▪ Face width: 167 mm</li> </ul>	$U_i$ value certificate Calculation in accordance with EN ISO 10077	$U_i = 1.6 W/(m^2K)$	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 <sup>2</sup>
4.13	<b>Radiation properties</b>	All test specimens	See CE marking for glazing	Project-specific certification	
4.14	<b>Air permeability</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR01 ift Rosenheim	2	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 doors only)</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR02 ift Rosenheim	2	















Extract from product standard EN 14351-1		Type, design	Proof (See 3. for details)	Value/class	Area of application
4.17	 <b>Mechanical strength</b>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR02 ift Rosenheim	3	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>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR02 ift Rosenheim	5	Transfer to -100% of the total area of the test specimen in accordance with the maximum tested leaf 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>	Single-leaf side-hung door Leaf size: 1156 mm x 2298 mm	Test report 11-001800-PR02 ift Rosenheim	3D / 3E	All sizes
4.23	 <b>Burglar resistance</b>	Various multi-point locks Contact side: Closing side / closing surface in accordance with DIN 107 Glazing: Class P4A in accordance with DIN EN 356: 2000-02	Test report 25529881 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
		Single-leaf side-hung door Leaf size: 1062 mm x 2087 mm			
		Double-leaf side-hung door with opening centre section Leaf size: ▪ Access leaf: 1036 mm x 2068 mm ▪ Secondary leaf: 836 mm x 2068 mm	Test report 25529881 ift Rosenheim	WK2	

## 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
11-001800-PR01 ift Rosenheim	06.03.2012	Until updated	Resistance to wind load, watertightness, air permeability	EN 14351-1
11-001800-PR02 ift Rosenheim	09.10.2012	Until updated	Resistance to wind load, watertightness, air permeability, operating forces, mechanical loading, durability, impact resistance, behaviour in different climates	EN 14351-1
25529881 ift-Rosenheim	18.10.2005	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