

ift System Passport



Windows as per EN 14351-1:2006+A2:2016-09

Number	15-002286-PR01 (SP-A01-UZ02-en-03)						
Gültigkeit	The validity of this ift system pass is linked to the validity of the ift Certificate of Conformity and bound by the ift Certification and Surveillance Agreement No. 181S 8019747						
Client (system supplier)	Miroplast LLC 1, Sobinova Str. 49083 Dnepropetrovsk Ukraine						
System / System variants	WDS 8 series						
Product families	1. Single-sashed side-hung, tilt and turn, and bottom-hung with fixed light 2. Double-sashed side-hung, tilt and turn with openable centre part						
Framing material	uPVC						
Characteristics	Operating forces	Air permeability	Resistance to wind load	Watertightness	Mechanical resistance ¹⁾	Resistance to repeated opening and closing	Impact resistance
Class / value	up to 1	up to 4	up to C3 / B3	up to E750	up to 4	up to 2	up to 2
Characteristics	Acoustic insulation	Thermal transmittance	Radiation properties	Dangerous substances ²⁾	Burglar resistance	Load-bearing capacity of safety devices	Behaviour between different climates
Class / value	R _w (C; C _{tr}) up to 39 (-2; -7) dB	Standard procedure	CE mark glazing	Country specific	npd		npd
Characteristics	Ventilation ⁴⁾	Ability to release	Height and width ³⁾	Reaction to fire ¹⁾	Resistance to snow and permanent loads ¹⁾	Explosion resistance	Bullet resistance
Class / value	npd	not applicable	not applicable	not applicable	not applicable	npd	npd

1) applies to roof windows only
2) evidence as set out by country of destination
3) clear opening dimensions as specified by manufacturer
4) applies only to windows with integrated ventilation device

ift Rosenheim
13.11.2020

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Basis
EN 14351-1:2006+A2:2016-09
Windows and external doors
ift Certification scheme for
licenser of windows and external
doors as per EN 14351-1:2006 +
A2:2016 as well as curtain
walling as per EN 13830:2003
(QM320SG)
ift Certification and Surveillance
contract No. 181S 8019747
System documents of licensers

Instructions for use
The ift-system passport demonstrates the general performance of the designated product family - determined on the basis of testing, calculation or assessment.
The values / classes indicated refer to both the object described in the individual evidence of performance and the defined field of application. Application of the performance characteristics is subject to the national technical provisions referring to building construction and the respective contractual provisions.
This system Pass can be used by the manufacturer to draw up the declaration of performance in accordance with the Construction Products Regulation 305/2011/EC and for issuing the ift Certificate of Conformity, which documents the conformity of the finished products and the factory quality/production control through regular third party audits of the manufacturers by the ift Rosenheim.

Notes on publication
"Conditions and Guidance on the Use of ift Test Documents" apply. This system passport shall only be published in its unabbreviated form.

Contents
The product passport contains a total of 10 pages


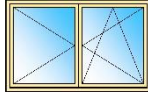



















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1 Summary of performance characteristics as per EN 14351-1

No.	Properties according to EN 14351-1	Product family 1	Product family 2
			
		Tilt and turn window	Double-sashed tilt and turn windows with openable center part
4.2	 Resistance to wind load ⁽¹⁾	up to C3 / B3	C3 / B3
4.5	 Watertightness	up to E750	up to 5A
4.6	 Dangerous substances	The manufacturer must prepare and supply suitable information about the components in accordance with the legal requirements of the intended country of destination.	
4.7	 Impact resistance	up to 2	
4.8	 Load-bearing capacity of safety devices	not applicable	not applicable
4.11	 Acoustic performance ⁽²⁾	$R_w(C; C_{tr})$ up to 39 (-2; -7) dB	Standard procedure
4.12	 Thermal transmittance	Standard procedure	Standard procedure
4.13	 Radiation properties	The manufacturer must prepare and supply suitable information about the components in accordance with the legal requirements of the intended country of destination.	
4.14	 Air permeability	up to 4	up to 4
4.16	 Operating forces	up to 1	
4.17	 Mechanical strength	up to 4	
4.18	 Ventilation	npd	npd
4.19	 Bullet resistance	npd	npd
4.20	 Explosion resistance	npd	npd
4.21	 Resistance to repeated opening and closing	up to 2	
4.22	 Behaviour between different climates	npd	npd
4.23	 Burglar resistance	npd	npd
System technical requirements fulfilled for the following certification level: (see ift certification program QM 320, Annex 2)			

Note: The listed performance characteristics represent the product characteristics of the tested specimen. The possibility of combining performance characteristics shall be verified in each individual case.
 Superscripts see Section 5

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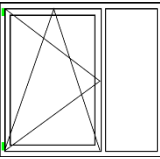
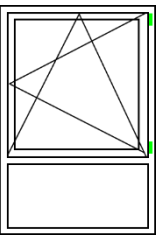
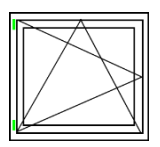
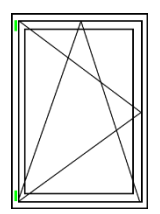


2 Overview of the performance of individual product families

2.1 System evidences

The tables below show the essential evidences.

Table 1 Evidences Operating forces, Mechanical resistance, Air permeability, Resistance to wind load, Watertightness

Product family	Evidence	Date					
			Operating forces	Air permeability	Resistance to wind load	Water-tightness	Mechanical resistance
	Test Report 13-000348-PR03 ift Rosenheim Vent dimensions: 820 mm x 2,094 mm Overall dimensions: 1,321 mm x 2,170 mm hardware AXOR K3, max. 560 mm	10.04.2014	1	3	C2/B3	4A	4
	Test Report 13-000348-PR04 ift Rosenheim Vent dimensions: 1,424 mm x 1,140 mm Overall dimensions 1,500 mm x 1,790 mm hardware Winkhaus aktivPilot, max. 730 mm	08.04.2014	1	4	C3/B3	6A	-
	Classification Report 17-002131-PR01 ift Rosenheim Vent dimensions: 1,154 mm x 1,404 mm Overall dimensions: 1,230 mm x 1,480 mm hardware AXOR K3, max. 640 mm	10.08.2017	-	4	C3/B3	E750	-
	Classification Report 17-002131-PR02 ift Rosenheim Vent dimensions: 924 mm x 2,324 mm Overall dimensions: 1,000 mm x 2,400 mm hardware AXOR K3, max. 720 mm	01.09.2017	-	4	C3/B3	9A	-

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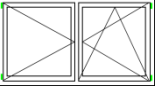
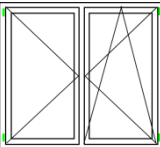




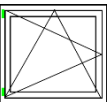
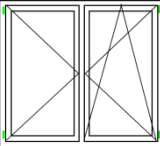
Product family	Evidence	Date					
			Operating forces	Air permeability	Resistance to wind load	Water-tightness	Mechanical resistance
	Classification Report 17-002131-PR03 ift Rosenheim Vent dimensions: 858 mm x 1,524 mm Overall dimensions: 1,800 mm x 1,600 mm hardware AXOR K3, max. 660 mm	10.08.2017	1	4	C3/B3	5A	4
	Classification Report 17-002130-PR04 ift Rosenheim Vent dimensions: 758 mm x 2,324 mm Overall dimensions: 1,600 mm x 2,400 mm hardware AXOR K3, max.720 mm	04.09.2017	1	4	C3/B3	3A	-

Table 2 Evidences Operating forces, Mechanical durability, Impact resistance, Reveal and rebate hindrance test

Product family	Evidence	Date					
			Operating forces	Mechanical durability	Impact resistance	Reveal and rebate hindrance test	
	Test Report 13-000348-PR09 ift Rosenheim Vent dimensions: 924 mm x 924 mm Overall dimensions: 1,000 mm x 1,000 mm hardware AXOR K3, max. 650 mm	09.04.2014	-	-	2	-	-
	Test Report 15-002161-PR04 ift Rosenheim Vent dimensions: 1124 mm x 1424 mm Overall dimensions: 1200 mm x 1500 mm hardware AXOR K3, max. 670 mm Vent weight 100 kg	14.01.2016	-	2	-	-	-

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Table 3 Evidences Acoustic insulation


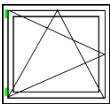

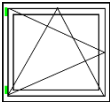
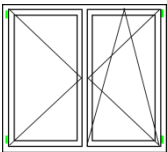
Product family	Evidence	Date	R _w Glass	
				Acoustic insulation
	Test Report 17-002131-PR06 ift Rosenheim Vent dimensions: 1,154 mm x 1,404 mm Overall dimensions 1,230 mm x 1,480 mm	25.08.2017	-	$R_w(C; C_{tr}) = 39 (-2; -7) \text{ dB}$

Table 4 Evidences Thermal transmittance

Product family	Evidence	Date	Replacement panel	
				Thermal transmittance
	Test Report 17-002131-PR05 ift Rosenheim WDS 8 Series casement 080 – frame 046	04.09.2017	edge cover: 18 mm thickness: 44mm	$U_f = 1.2 \text{ W/m}^2\text{K}$
	Test Report 17-002131-PR05 ift Rosenheim	04.09.2017	edge cover: 18 mm thickness: 44mm	-
	WDS 8 Series casement 047 – overlap profile 068			$U_f = 1.2 \text{ W/m}^2\text{K}$
	WDS 8 Series casement 080 – overlap profile 068			$U_f = 1.2 \text{ W/m}^2\text{K}$
	WDS 8 Series casement 080 – frame 046			$U_f = 1.2 \text{ W/m}^2\text{K}$

2.2 Evidences for hardware (optional)

Table 5 Evidences for approved hardware

Type of opening	Type / Manufacturer	Maximum locking distance	Certificate / Evidence (Test report or validation report)
Turn-Only / Tilt&Turn	K3 / AXOR	720 mm	Certificate 228-9003481-1
	activPilot / Winkhaus	730 mm	Certificate 228-7019950-1

The rules for interchangeability of fittings according to QM 328 and QM 347, Annex 1 must be fulfilled.

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3 Scope of application

The scope of the "ift system pass" is defined by the listed proofs according to section 4 and defines the direct scope of application according to the product standard. The selection of the test specimens for the tests performed was made by the system provider on the basis of his system description. The updating of the system description is the responsibility of the system provider.

4 General Information on ift-System Passport

4.1 Specified performance characteristics according to the product standard

All listed performance characteristics were tested and evaluated to the test and classifications standards contained in the product standard EN 14351-1. They are based on the evidence of performance/reports presented by the client. At the request of the client, reduced classes/values were displayed if necessary. For more detailed information refer to the respective individual evidence of performance/test reports referring to the performance characteristics listed in Section 2.

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4.2 Comparison of requirements for windows "ift Standard" to "ift Quality"

Table 6: Comparison of requirements according to ift certification scheme QM 320SG




















N°	Characteristic	Classification standard / Verification method	Minimum requirements	
			"ift Standard"	"ift Quality"
1	Resistance to wind load	EN 12210	none	B1
2	Reaction to fire (at roof windows)	EN 13501-1	none	E
3	Watertightness	EN 12208	none	4A
4	Impact resistance	EN 13049	none	1
5	Load-bearing capacity of safety devices*	EN 14609	none	Requirement fulfilled
6	Air permeability	EN 12207	none	2
7	Operating forces	EN 13115	none	1
8	Mechanical resistance	EN 13115	none	3
9	Mechanical durability	EN 12400	none	2
10	Acoustic insulation	EN ISO 717-1	none	none
11	Thermal transmittance	or calculated as per - EN ISO 10077-1 or - EN ISO 10077-1 and EN ISO 10077-2 or by hot box method using: - EN ISO 12567-1 or - EN ISO 12567-2	none	none
12	Burglar resistance	EN 1627	none	none
13	Reveal and rebate hindrance test	EN 13126-8	none	no failure

* This requirement only applies to additionally fitted safety devices (e.g. restrictor and cleaning stays) for an imposed load of 350 N.

Client: Miroplast LLC
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4.3 Extrapolation rules according to EN 14351-1 – Annex E

Table 7: Extrapolation rules according to EN 14351-1:2006+A2:2016 - Annex E

	Characteristic	Field of direct application of characteristics (similar construction assumed)
	Resistance to wind load	- 100 % of frame width and - 100 % of frame height of test specimen
	Resistance to snow load	- 100 % of total area of test specimen
	Reaction to fire	see EN 13501-1
	Watertightness	- 100 % to + 50 % of total area of test specimen
	Dangerous substances	as specified
	Impact resistance	> Total area of test specimen
	Load-bearing capacity of safety devices	- 100 % of total area of test specimen
	Acoustic insulation	see EN 14351-1, Annex B
	Thermal transmittance	For U-value from table: all sizes
		For U-value from calculation or measurement: Test specimen: 1.23 m x 1.48 m ≤ total area of 2.3 m ²
		Test specimen: 1.48 m x 2.18 m > total area of 2.3 m ²
	Radiation properties	All sizes
	Air permeability	- 100 % to + 50 % of total area of test specimen
	Operating forces	- 100 % of total area of test specimen
	Mechanical resistance	- 100 % of total area of test specimen
	Ventilation	Same construction and size of ventilation device
	Bullet resistance	Until appropriate standards and/or guidelines are established, the unidentified conditions shall be agreed between the manufacturer and the testing body.
	Explosion resistance	Until appropriate standards and/or guidelines are established, the unidentified conditions shall be agreed between the manufacturer and the testing body.
	Mechanical durability	- 100 % of total area of test specimen
	Behaviour between different climates	All sizes
	Burglar resistance	see ENV 1627

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4.4 Comparison of requirements for vendor parts “ift Standard” to “ift Quality”

Table 8: Requirements for vendor parts according to ift-certification scheme QM320SG

Vendor part / Component	Specification	
	“ift Standard”	“ift Quality”
Turn/Tilt&Turn hardware	none	Certification scheme QM 328*
Fold&Slide hardware	none	Certification scheme QM 345*
Hardware for sliding door	none	Certification scheme QM 346*
Tilt&Slide hardware	none	Certification scheme QM 347*
Seals/Gaskets	none	Certification scheme QM338* / Alternatively, verification by test report or by testing of air permeability and watertightness as well as operating forces
Locks	none	Certification scheme QM 342*
Hinges	none	Certification scheme QM 343*
Profiles	none	Wood ift-Guideline HO-10/1
	none	Plastic RAL-GZ 716* Part 1
	none	Aluminium RAL-GZ 695*, Annex 1
Weather boards / thresholds	none	Certification scheme QM 340*
Top-hung hardware	none	Certification scheme QM 364*

* If there are no evidences with regard to the required certification schemes, it shall be checked in the individual case whether a comparable certification system or a comparable system to ensure the constant properties of the components exists.

4.5 Usability of results (optional extras)

The test results determined within the ift licenser certification meet the minimum requirements for rank “ift Standard” and/or “ift Quality”. The test results determined within the ift licenser certification for rank “ift Quality” meet the minimum requirements as per RAL-GZ 695.

4.6 Basis of the ift-system passport

- Existing surveillance contract n° 181S 8019747 between ift Rosenheim and the client
- Evidences according to section 2
- System description section 2.2
- annual surveillance of client (licenser)

Client: Miroplast LLC
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5 Special instructions for use

The special instructions for use listed in the following are rules for applying the different performance characteristics specified by the standard. They are based on the normative provisions and the experience of the **ift** Rosenheim.

The identified characteristics (classifications) are applicable to windows and screens for installation in vertical wall apertures covered by the scope of application of EN 14351-1. Application is subject to the relevant national rules and regulations.

According to the product standard and the Construction Products Regulation, the manufacturer is responsible for ensuring the declared properties.

The overview given in this ift-System Passport is based on the evidence provided. No legal claim can be derived from this.

As set out by the Regulation (EC) No. 842/2006 of the European Parliament and of the Council of 17.05.2006 on certain fluorinated greenhouse gases, insulating glass units filled with Argon / SF₆ are not allowed to be placed on the market as of 04.07.2007 or 04.07.2008, respectively.

The rules for the interchangeability of window hardware are defined in the **ift** Certification Schemes for hardware (QM 328, QM 345, QM 346, QM 347, QM 343)

With termination of the surveillance contract 181S 8019747, the validity of this ift system passport n° 15-002286-PR01 (SP-A01-UZ02-en-03) dated ends.

Superscripts

- (1) The structural properties of thermal-break profiles shall be taken into account. Mullion and transom profile sections shall be dimensioned adequately on the basis of structural engineering.
- (2) Acoustic insulation: Application to tested designs (TABULATED VALUES): Tables B.1 and B.2 can be used for single windows. An application to double windows without a fixed central meeting stile (French windows) is not explicitly mentioned. However, testing experience has shown that if one or two completely circumferential sealing levels are guaranteed with regard to the range up to $R_w = 38$ dB, this table can also be applied to French windows.

The product standard does not cover the transfer of test results from measurements on single windows to French windows.