

## Test report

**Test report relating to a building product according to European standard EN 14351-1: 2006 + A2:2016, Windows and doors – Product standard, concerning the product marked as: trademark: Veka System 10 and type: Double Doors, manufactured by: Window Warehouse**

Report number	89218289-30
Date	4th February 2021
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Project number	89218289-30
Project name	ERCT 0765 Ongoing BS 6375-1
Number of pages	13



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## 1 Introduction

### 1.1 Purpose

The tests have been performed in order to establish whether or not the product meets the applicable requirements of the European standard EN 14351-1 [1].

For this report, the test results from “89218289-30 ERCT 0765 Window Warehouse Veka Ongoing DDoor BS 6375-1” [2], dated 4th February 2021, have been used.

### 1.2 Description of the samples

#### General

Name of the manufacturer	Window Warehouse
Address of the manufacturer	Unit 1-8 Dragon Industrial Estate, Fitzherbet Road, Farlington, Portsmouth, PO6 1SQ, UK
Production plant of the samples	As above
Line ID where the samples are made	Not indicated
Production date	01/12/2020
The product was marked as	Veka System 10 Double Doors
Dimensions of the sample(s)	1800mm x 2200mm

#### Specific

Product description	Veka System 10 Double Doors
Type(s) of construction	Welded
Profile references	P10502 72mm Outer A00345 44mm Low Threshold P10510 110mm Open In Sash P10612 Floating Mullion P10431 28mm Bead
Origin of materials/type(s) of material	PVCu

Types of doors	Family Leader name (representative test specimen - most unfavourable)	Maximum sold size (width x height)
Double door hung on opposite jamb. Open In	Veka System 10 Double Doors	Not Indicated

### Construction and hardware

Method of frame jointing	Welded
Framing, profile and reinforcement detail	P10502 72mm Outer – S00191 A00345 44mm Low Threshold – n/a P10510 110mm Open In Sash – S00162 P10612 Floating Mullion
Types of beading, gaskets, glazing method or any other security feature present	P10431 28mm Bead PCE Seals 1* Cylinder and Cylinder Guard Hinge Guards Glass Locks 4 No. Run up Blocks
Type and (overall) thickness of glazing (or infill medium)	4/20/4
Types and details of hardware	Avantis Locks and Keeps 3 No. Mila Evolution Hinges per Sash 3 No. GT Guardian Hinge Guards per Sash Avantis 1* Cylinder Avantis Cylinder Guard Lever / Lever Handles GT Glass Locks Snap Fit Shoot bolts to both sashes
Types and details of hardware fixings	Master and Slave Locks – 4.3 x 32 NP Master Keeps into Profile – 4.3 x 32 NP Master Keeps into Reinforcing – 4 x 25 DP Slave Keeps into Reinforcing – 4.8 x 45 DP Hinges – 4.2 x 55 bugle Hinge Guards into Profile – 4.3 x 32 NP Hinge Guards into Reinforcing – 4 x 38 DP Cylinder, Cylinder Guard and Handles as supplied Floating Mullion - 4.8 x 70 Wafer Head Shootbolts – 4.3 x 32 NP

### 1.3 Sampling procedure

The test house, acting as notified test body, has had no influence on the selection of the samples.

### 1.4 Application

The request for testing was submitted by Avantis Hardware on behalf of the manufacturer on 24/11/2020, order or reference number or name: 159218. Assignment Form number: ERCT 0765.

### 1.5 Method of testing

All applicable tests have been performed according to the European standard EN 14351-1 [1].

### 1.6 Put out to contract

Tests were performed on manufacturer's samples and executed by personel of ERC Testing Ltd, Unit A8(3), Pennington Court, Walter Leigh Way, Moss Industrial Estate, Leigh WN7 3PT, United Kingdom under responsability of the Notified Body TÜV Rheinland Nederland B.V.

### **1.7 Privacy statement**

Due to privacy reasons, the names of involved personnel that executed the tests, are not disclosed in the report. However, this information is available on internal work sheets, test forms etc. in the project file.

### **1.8 Notifications and accreditations**

TÜV Rheinland Nederland B.V. has been notified by the Dutch Ministry of Infrastructure and the Environment as Notified Test Laboratory and Notified Product Certification Body (number 0336) for the European Construction Products Regulation EU No 305/2011.

TÜV Rheinland Nederland B.V. has been accredited by the Dutch Accreditation Council (RvA) as ISO 17025 Test Laboratory (accreditation number L 484) and ISO 17065 Certification Body (accreditation number C078).

The reported tests were performed under ISO 17025 accreditation.

### **Period of measurement**

The measurements took place on 28-01-2021.

## 2 Test results

Test results after performing the applicable tests according to European standard EN 14351-1 [1].

Req. Nr.	Characteristics	Classification standard	Test or calculation standard	Value	Classification
4.2	Resistance to wind load	EN 12210	EN 12211	Pa	
4.3	Resistance to snow and permanent load	Info on the infill	National regulations		
4.4	Fire characteristics				
4.4.1	Reaction to fire (roof windows only)	EN 13501-1	EN 13501-1		
4.4.2	External fire performance (roof windows only)	EN 13501-5	ENV 1187		
4.5	Water tightness	EN 12208	EN 1027	100 Pa	Class A3
4.6	Dangerous substances	European database			
4.7	Impact resistance	EN 13049	EN 13049	mm	
4.8	Load-bearing capacity of safety devices	Threshold value	EN 14609		
4.9	Height and width of doorsets and French windows	No classification	EN 12519		
4.10	Ability to release	No classification	EN 179, EN 1125, prEN 13633 or prEN 13637		
4.11	Acoustic performance	EN ISO 717-1	EN ISO 140-3, EN-ISO 717-1	dB	
4.12	Thermal transmittance	EN ISO 12567-1	EN ISO 10077-1:2000, Table F.1	W/(m <sup>2</sup> – K)	
4.13	Radiation properties	No classification	EN 13363-1 or EN 13363-2	g	
4.14	Air permeability	EN 12207	EN 1026	600 Pa	Class 4
4.15	Durability	No action			
4.16	Operating forces	EN 13115 EN 12217	EN 12046-1 EN 12046-2		
4.17	Mechanical strength	EN 13115 EN 1192	EN 14608 and EN 14609; EN		

Req. Nr.	Characteristics	Classification standard	Test or calculation standard	Value	Classification
			12046-1; EN 947, EN 948, EN 949 and EN 950		
4.18	Ventilation	EN 13141-1	EN 13141-1:2004		
4.19	Bullet resistance	EN 1522	EN 1523		
4.20	Explosion resistance				
4.20.1	Shock tube	EN 13123-1	EN 13124-1		
4.20.2	Range test	EN 13123-2	EN 13124-2		
4.21	Resistance to repeated opening and closing	EN 12400	EN 1191	Cycles	
4.22	Behaviour between different climates	EN 12219	prEN 13420 EN 1121		
4.23	Burglar resistance	EN 1627	EN 1628, EN 1629, EN 1630		
4.24	Special requirements	No classification	Various standards		

### Test data

Date of test	28 <sup>th</sup> January 2021
Test equipment	KS Schulten Prüfeinrichtung
Test Report	ERCT 0765 Window Warehouse DDoor 28 01 21.pdf

### Watertightness: EN 12208 -

Spraying method A                      Number of nozzles: 5                      Vol. Water: 600.0 litre/hour  
 Spraying angle: 24 Degree                      : 10.0 litre/minute  
 Add. spraying pipe                      Number of nozzles: 0                      Vol. Water: 0.0 litre/hour  
 ( 1.0 litre/nozzle )                      : 0.0 litre/minute

#### 1. Watertightness pressure

Pressure Pa		Time	Remark
Nominal	Real		
0	0	00:15:00	OK
50	50	00:05:00	OK
100	99	00:05:00	OK
150	151	00:05:00	Flow: 00:00:49
200	0	00:05:00	-
250	0	00:05:00	-
300	0	00:05:00	-
450	0	00:05:00	-
600	0	00:05:00	-

Watertightness Class: A3

Point of water ingress :

Bottom of floating mullion.

Air Permeability: EN 12207 in accordance with BS EN 1026

Window surface: 3.960 m<sup>2</sup> Seal length: 9.828 m

1. Air Permeability pressure / Air Permeability suction

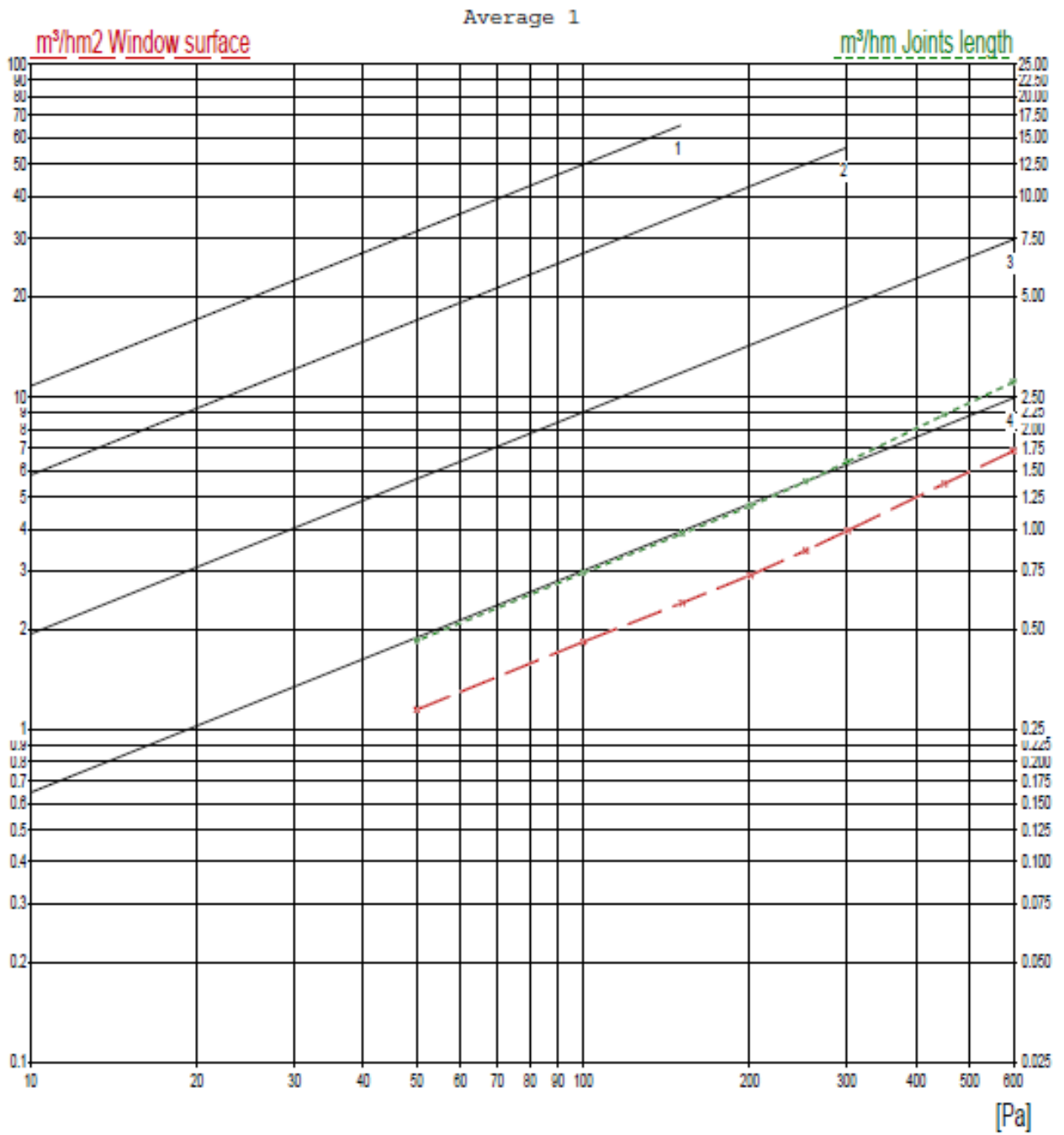
3 Pressure bump(s) 657 Pa performed  
 3 Pressure bump(s) -650 Pa performed

Pressure Pa Nominal	Pressure Pa Real	Qc m <sup>3</sup> /h	Qtc m <sup>3</sup> /h	Window surface m <sup>3</sup> /h/m <sup>2</sup>	Window surface class	Joints length m <sup>3</sup> /h/m	Joints length class
<b>+</b>							
50	50	0.00	4.57	1.15	4	0.46	4
100	100	0.00	7.32	1.84	4	0.74	4
150	151	0.00	9.58	2.41	4	0.97	4
200	200	0.00	11.68	2.95	4	1.18	4
250	254	0.00	14.17	3.58	4	1.44	3
300	303	0.00	16.68	4.21	4	1.69	3
450	448	0.00	24.17	6.10	4	2.45	3
600	599	0.00	31.17	7.87	4	3.17	3
<b>-</b>							
-50	-50	0.00	4.49	1.13	4	0.45	4
-100	-100	0.00	7.18	1.81	4	0.73	4
-150	-151	0.00	9.43	2.38	4	0.96	4
-200	-201	0.00	11.34	2.86	4	1.15	4
-250	-251	0.00	13.11	3.31	4	1.33	4
-300	-299	0.00	14.67	3.70	4	1.49	4
-450	-451	0.00	19.18	4.84	4	1.95	4
-600	-601	0.00	23.18	5.85	4	2.35	4
<b>Average</b>							
50	50	0.00	4.53	1.14	4	0.46	4
100	100	0.00	7.25	1.83	4	0.73	4
150	151	0.00	9.51	2.40	4	0.96	4
200	200	0.00	11.51	2.90	4	1.17	4
250	252	0.00	13.64	3.44	4	1.38	4
300	301	0.00	15.67	3.95	4	1.59	3
450	449	0.00	21.68	5.47	4	2.20	3
600	600	0.00	27.17	6.86	4	2.76	3

Pressure: 4      Suction: 4      Average value: 4



Air Permeability Average:



### 3 Conclusion

The tested construction product (door), marked by the client or manufacturer as trade mark: Veka System 10 and type: Double Doors, manufactured by: Window Warehouse meets the manufacturer chosen requirements from the European standard EN 14351-1 [1].

The test results exclusively relate to the tested objects.

#### Remark 1

When and if changes are made in production method and/or equipment, assessment according to this standard shall be reconsidered and re-tests shall be performed when the changes can lead to different specifications. The decision and responsibility lay with the manufacturer.

#### Remark 2

It was to the manufacturer's responsibility that the samples for initial type test are representative to the product range.

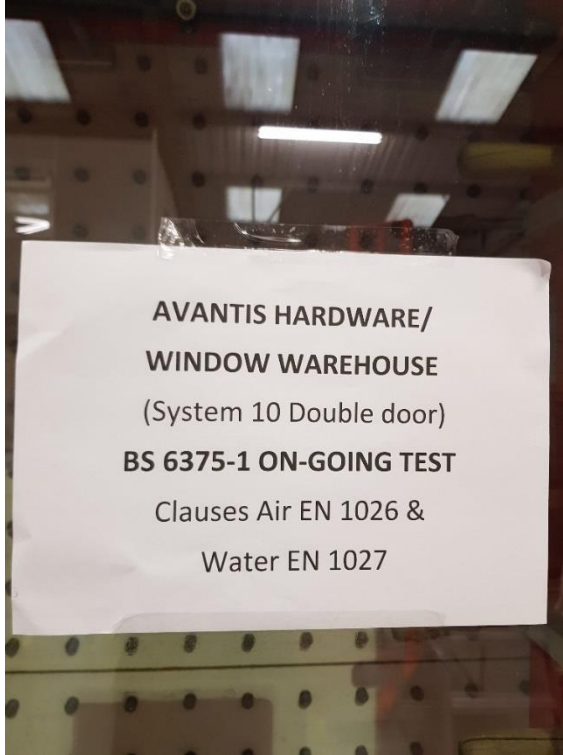
## 4 References

- 1 European standard EN 14351-1:2006+A2:2016 (E),  
Windows and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets,  
European Committee of Standardisation, September 2016.
- 2 Test results “89218289-30 ERCT 0765 Window Warehouse Veka Ongoing DDoor BS 6375-1” by ERC  
Testing Ltd, Unit A8 (3), Pennington Court, Walter Leigh Way, Moss Industrial Estate, Leigh WN7 3PT,  
United Kingdom.

### 5 Signatures

Author	Signature
Mr M. Hackett  ERC Testing Ltd	
Approved by	Signature
Mr. R. Brandhorst  Senior Expert	

## Appendix A, Pictures and drawings of the tested object(s)



(This is the end of this report).