

Test Report No:	WTH2104#1-2
Date:	14/01/2021
Testing of:	Single top hung projecting casement window
Tested to:	BS 6375-1:2015+A1:2016
Prepared for:	Nico Manufacturing Ltd

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esting to	BS 6375-1:2015+A1:2016		
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Testing to BS 6375-1:2015+A1:2016	
AUTHORISATION	
Test completed by: D.Kury Assissted by: M.Currie Test witnessed by:	
Report produced by: D.Kury Signature:	Position: Senior Test Engineer
Signature: Junt Date: 17/02/2021	
For and on behalf of Nico Manufacturing Ltd Test I	Laboratory
Report authorised by: M. Franklin Signature:	Position: Laboratory Manager
For and on behalf of Nico Manufacturing Ltd Test I	Laboratory
Date of issue of report 02/03/2021	
Nico Manufacturing Ltd. Test Laboratory	
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Oxford Road Clacton-on-Sea ESSEX	0 11/10

	04#1-2 op hung projecting casement w 5-1:2015+A1:2016	Page indow	4 of 15	WTH
	TEST REQUESTED BY			
Origin of test reques	t			
Company Name	Nico Manufacturing Ltd			
Company Address	109 Oxford Road Clacton on Sea Essex CO15 3TJ			
Contact	lan Harrison			
Contact position	Sales Director			
Quotation Details				
Quotation No.	WTH2104			
Dated:	05/01/2021			

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Single top hung projecting casement window

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BS 6375-1:2015+A1:2016

DETAILS OF TEST

Description Model / type Make / Brand Any special requirements	Single top hung Projecting casement window Veka
Test Ores' (isstice	
Test Specification	BS 6375-1:2015+A1:2016 Performance of windows & doors. Classification for operation and strength characteristics
Date sample received	20/08/2020
Date testing started	14/01/2021
Date testing finished	15/01/2021
Job No.	WTH2104
Any special requirements	

Air permeability tests in accordance with BS EN 1026: 2016 -A series of positive and negative pressures was applied to the test sample and the air leakage through the sample was measured at each pressure step. Pressure steps applied are defined on the air permeability test sheets in this report.

Waterightness test in accordance with BS EN 1027: 2016 - A specified volume of water was constantly sprayed over the external face of the test sample while a positive pressure was applied, the positive pressure was increased at regular intervals. The test pressure, time and location of any water penetration was recorded. Pressure steps applied are defined on the watertightness test sheet in this report.

Resistance to wind load test in accordance with BS EN 12211: 2016 -Positive and negative pressures P1, were applied to the test sample and the deflection under load was measured, a series of 50 cycles of positive and negative pressure P2 were applied and any damage caused was noted and a safety test consisting of a single cycle of positive and negative pressures P3 was applied and any damage caused was noted P2 = 0.5P1, P3 = 1.5P1,

Values of these loads are defined on the Resistance to wind load test sheet in this report.

Test specimen details

Details of the samples construction and hardware components is based on information supplied by the test client, while these details have been checked and verified where possible WTH accepts no responsibility for the accuracy of details supplied.

Note : The test specimens were kept in the test laboratory for at least 12 hours at environmental conditions of between 10°C to 30°C, and 25% RH to 75% RH before each test was undertaken

The sample was mounted in a timber sub frame (nominal 100mm x 50mm in section) and sealed to the sub frame. The sample was mounted in the test rig without any twists or bends that might influence the test result.

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DETAILS OF SAMPLE

Sample number	WTH2104A
Sample details	Single top hung projecting casement window
Fabricator	Consort Ltd
Material:	PVC-U
	Veka part nos;- 56mm Frame, part no 101160
	75mm sculptured sash, part no 103264
Finish	White gloss
Lock & keeps	Lock - Nico Espag 750mm, part no 98820
	Keeps - Nico cast zinc keeps, part no 9003
	100p5 1100 0031 2110 100p3, part 110 3000
Hinges &	Hinges - Nico standard 24" Hinge, part no 7940
protectors	
Handle	Winlock, white, inline non-locking
Fixings	Hinges - 4.8 x 25mm pan head pierce point to sash and frame
, ango	Lock - 4.3 x 25mm c'sk head pierce point
	Keeps - 4.3 x 25mm c'sk head pierce point
	Cavity wedges - 4.3 x 25mm c'sk head pierce point
Weather sealing	Co-extruded gaskets
Glass	28mm Double glazed unit. 4-20-4mm.
(or infill)	
Glazing system	Internally bead glazed with co-extruded gaskets.
	Shaped 28mm bead, part no 107.155
Sample dimensions	900mm (W) x 900mm (H)
Additional information	Cavity wedges - Veka part no 9898 & 9905

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Testing of	Single top hung projecting casement win	dow			
Testing to	BS 6375-1:2015+A1:2016				



CONCLUSIONS OF TEST

Standard	Test Description	Test result
BS EN 1026: 2016	Air permeability of test sample (first test)	Class 4
BS EN 1027: 2016	Watertightness test	Class 9A
BS EN 12211: 2016	7.2 Deflection test	Class C4
BS EN 12211: 2016	7.3 Repeated pressure test	Pass
BS EN 1026: 2016	Air permeability of test sample (second test)	Class 4
BS EN 12211: 2016	Safety test	Pass

WTH are accredited to BS 6375-1:2015 Performance of windows and doors, part 1 Classification for weathertightness and guidance on selection and specification.

This standard refers to a dated version of BS EN 1027:2000, however WTH are accredited to the dated version BS EN 1027:2016

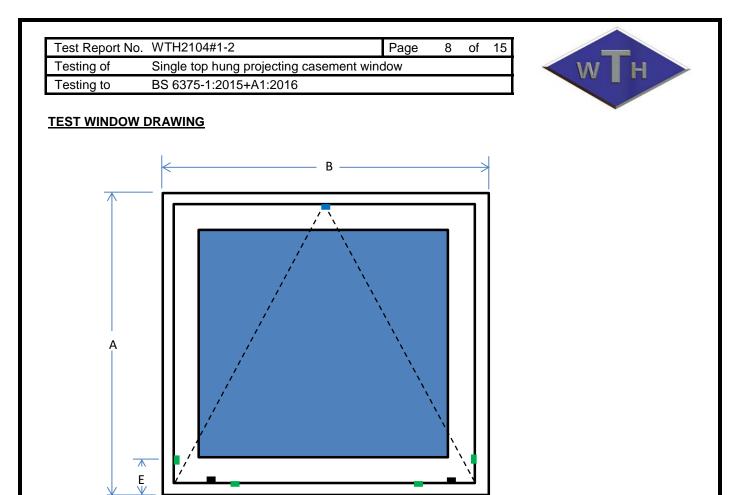
The purpose of the revision of this european standard is to clarify the test method, the changes relate to definitions and descriptions, they do not affect the methodology of the test or the results obtained.

Due to the minimal leakage from the test sample it was not possible to comply with BS EN 1026:2016 section 7.2.3 which states that "In no case shall the air permeability of the test chamber exceed 30% of the overall air permeability of the test specimen and the test chamber"

Exposure category classification in accordance with BS 6375-1:2015+a1:2016 (clauses 6, 7 & 8) **Classification achieved:**

UK exposure	Air permeability		Watertightness		Re	sistance	to wind lo	ad
category	Class	Maximum test pressure (Pa)	Class	Maximum test pressure	Class	P1	P2	P3
1600	4	600	9A	600	C4	1600	800	2400

The results contained in this test report relate only to the particular sample/s tested as received and to the specific tests carried out as detailed within this report.



C ≯

Cavity wedge	

F D ≥

 $_{\rm F} \rightarrow$

Run up block

 \leq

А	=	900	mm
В	=	900	mm
С	=	125	mm
D	=	105	mm
Е	=	100	mm
F	=	200	mm

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AIR PERMEABILITY: BS EN 1206: 2016

Closing condition of window	Latched
Window surfaces clean and dry	Yes
Window opened and closed before applying pressure pulses	Yes
Three positive pressure pulses applied	Yes

Sample No	WTH2104A	Temperature	20°C	Humidity	34%RH	Date	14/01/2021

Table 1 - Air permeability with positive pressure (adjusted for laboratory conditions)

Pressure differential	Air flow through test sample	Air flow per unit area of test sample	Air flow per metre of opening joints
Ра	m³/h	m³/h/m²	m³/h/m
50	0.00	0.00	0.00
100	0.00	0.00	0.00
150	0.88	1.08	0.26
200	0.22	0.27	0.07
250	0.42	0.52	0.13
300	0.50	0.62	0.15
450	0.55	0.68	0.17
600	0.43	0.54	0.13

Window opened and closed before applying pressure pulses	Yes
Three negative pressure pulses applied	Yes

Table 2 - Air permeability with negative pressure (adjusted for laboratory conditions)

			1
Pressure	Air flow through	Air flow per unit area	Air flow per metre of
differential	test sample	of test sample	opening joints
Pa	m³/h	m³/h/m²	m³/h/m
50	0.00	0.00	0.00
100	0.00	0.00	0.00
150	0.77	0.95	0.23
200	0.34	0.42	0.10
250	0.39	0.49	0.12
300	0.23	0.29	0.07
450	0.65	0.80	0.19
600	0.70	0.86	0.21

Table 3 - Air permeability averages with positive and negative pressures

Pressure	Air flow per average	Air flow average per	Total
differential	unit area of test sample	metre of opening joints	tes
Pa	m³/h/m²	m³/h/m	
50	0.00	0.00	
100	0.00	0.00	
150	1.01	0.24	Т
200	0.35	0.08	ope
250	0.50	0.12	
300	0.45	0.11	
450	0.74	0.18	
600	0.70	0.17	

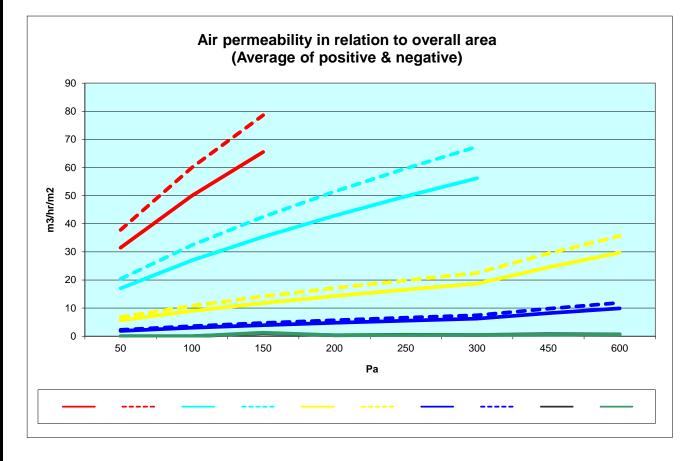
Total surface area of
test sample (m ²)
0.81

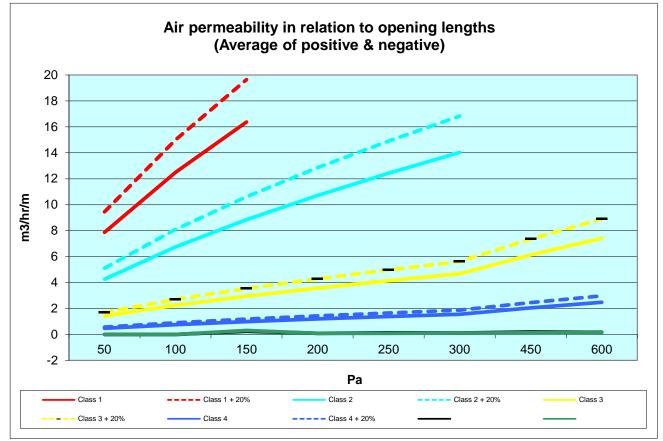
Total length of opening joints (m) 3.36

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AIR PERMEABILITY GRAPHS





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Test Report	No. WTH210)4#1-2			Page	11	of 15		
Testing of	-		ojecting casem	nent windo	w			< W	H
Testing to	BS 6375	5-1:2015+A	1:2016						
Sample No	WTH2104	ΑΤε	emperature	21°C	Hum	nidity	34%RH	Date	14/01/2021
WATERTIGH	TNESS: BS I	EN 1027: 2	2016						
N = 4 = 114 = 114 = 1	aa data /Ta		4 4)						
vatertighthe	ess data (Te	si methoa	IA)						
	n test pressure						maximum tes	st pressure +	10% or
Press	ure pulses	66	500	Pa whiche	ever is the	e grea	ater)		
	Closing	condition o	f window			Latc	hed		
			an and dry			Ye	es		
· · · ·			applying pres	·	es	Ye			
	I hree positive	pressure	pulses applied	1		Ye	es		
Required air	Recorded air	Required	Recorded	Wate	er		Position c	f leak	Time of leal
pressure	pressure	Spray	spray	Leak	s	(See	also leakage	diagram)	min:sec
(Pa)		duration	duration						
		(mins)							
0	0	15 +1/-0	15 min	No	ne				
50 +/-5%	51	5 +1/-0	5 min	No	None				
100 +/-5%	100	5 +1/-0	5 min	No	ne				
150 +/-5%	151	51 5 +1/-0 5 min None							
200 +/-5%	200	5 +1/-0			ne				
250 +/-5%	250	5 +1/-0			ne				
300 +/-5%	300	5 +1/-0	5 min	No	ne				
450 +/-5%	450	5 +1/-0	5 min	No	ne				
600 +/-5%	600	5 +1/-0	5 min	No	ne				
_aboratory C	Conditions					Clas	sification		
Air p	ressure (mba	r)	1018		Test pressu	ro	Classif Test	ication Test	Spec.
		(00)	<u> </u>	-	(Pa)		method A	method B	opec.
Labora	tory air temp.	(°C)	21		0		1A	1B	15 min
Relat	ive humidity (9	%)	34		50		2A	2B	C1+5 min
	2 (100		3A 44	3B 4B	C2+5 min

Number of spray nozzles3Total flow rate (LPM)6

ISC ŦA 3+5 min 200 5A 5B C4+5 min 250 6A 6B C5+5 min 7A 7B 300 C6+5 min 450 8A 8B C7+5 min 9A 600 9B C8+5 min

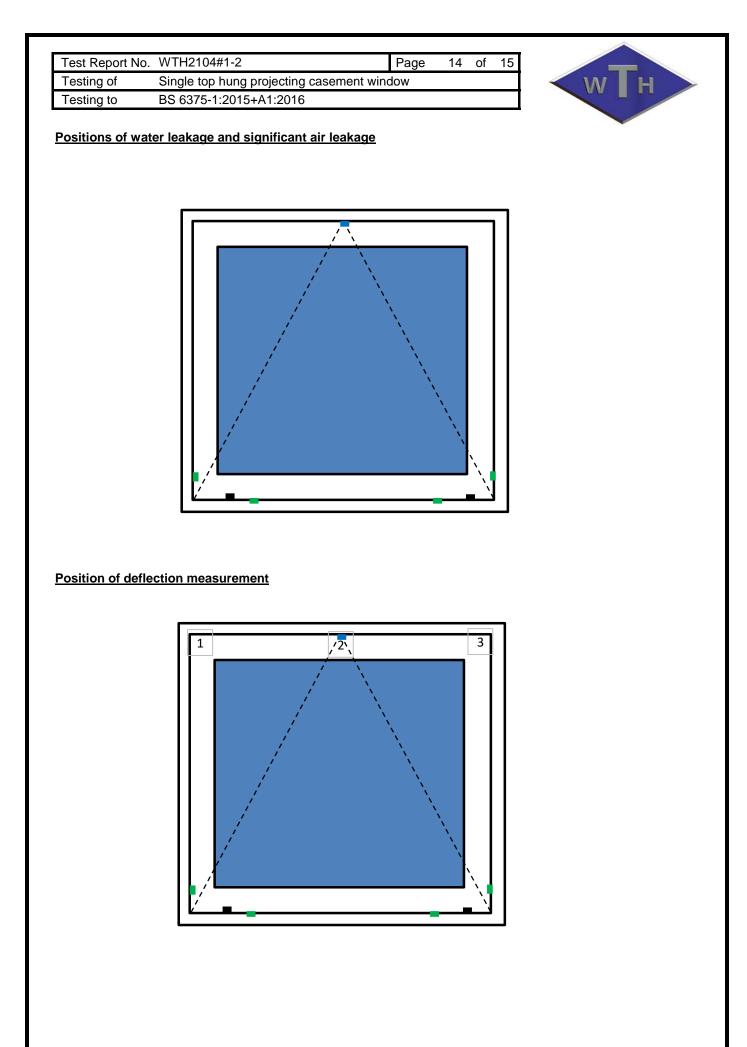
Test Report No. V	VTH2104#1	-2			Page 12	2 of	15		
	Single top h		-	ement wind	dow				
Testing to E	3S 6375-1:2	015+A1:20	16						
Sample No W	TH2104A	Tempe	rature	19°C	Humidit	V	36%RH	Date	15/01/2021
					Tarnon	y	0070111	Date	10/01/2021
RESISTANCE TO	WIND LOAI	D: BS EN 1	2211: 2	<u>016</u>					
С	losing cond	lition of win	dow		La	tched			
	ndow surfac					Yes			
Window opened a				ssure puls	ses	Yes			
· · · · · · · · · · · · · · · · · · ·	positive pre					Yes			
Doflootion toot. D								1600	Do
Deflection test: Po Section being mea		sure	Defler	tion acure	e readings (r		P1=	1000	Pa
Hinge side of		—	Denet		c reaulitys (I)	Net	Measured	Relative
3 pulses of	1760	1		2	3	de	flection	Length	deflection
Pre-test reading	1700	20.0		20.0	20.0				
Max reading		20.0		20.0	20.0	-			
Net deflection und	er load	0.4		1.2	0.5	-	0.8	782	1/ 1040
Residual reading		20.1		20.1	20.0	-			.,
					v				
Deflection test: N	egative pre	ssure					P1=	1600	Ра
Section being mea			Deflec	ction gauge	e readings (r	nm)		Measured	Relative
Hinge side of	sash	1		2	3		Net	Length	deflection
3 pulses of	1760			۷	5	de	flection	Longui	donootion
Pre-test reading		20.0		20.0	20.0				
Max reading		19.4		18.6	19.5	_			
Net deflection und	er load	-0.6		-1.4	-0.5	_	-0.8	782	1/ -920
Residual reading		20.0		20.0	20.0				
	11/0-01 -	ase deflect		/ 000	01	oot!		_	
Test conclusion:	vvorst C	ase uellect	tion 1,	/ -920	Classifi	cation	(0	
Cyclic repeated pr	essure tes	t					P2=	800	Ра
50 cycles +/-			NI 1		and a state of the				
at 800 Pa			No dar	nage or fu	nctioning de	rects			Pass
Safety test							P3=	2400	Ра
1 cycle +/-		Sample ren	nained c	closed with	no parts be	comine	a detache	ed	Pass
at 2400 Pa									
ah ana(0									
Laboratory Condit		1021.0	mhar	7					
Air pressu		1031.0 19.0	mbar °C	4					
Air tempera Relative hur		19.0 36.0	%	-					
	many	30.0	70	4					
Classifications									
Wind I	oad	— 1 r		Deflect	ion	וך	Re	sistance to w	ind load
Class P1		P3			ive frontal	1	Wind load		ntal defleection
	ot tested		Class		flection		class		B C
1 400		600	А	≤	1/150	1	1		31 C1
2 800		200	В		1/200	1	2		32 C2
3 1200		800	С		1/300	1	3		33 C3
4 1600		400					4		34 C4
5 2000		000					5		35 C5
J 2000	1000 3	000					5	7.0 E	50 03

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 Authorised: M Franklin
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	WTH2104#1-2	Ÿ	15
esting of	Single top hung projecting case	ment window	- $<$ W $ $ H $>$
esting to	BS 6375-1:2015+A1:2016		
ample No	WTH2104A Temperature	19°C Humidity 3	86%RH Date 15/01/202
R PERMEABIL	.ITY: BS EN 1206: 2016		
	Closing condition of window	Latched	
V	Vindow surfaces clean and dry	Yes	
Vindow opened	and closed before applying pres	sure pulses Yes	
	e positive pressure pulses applie		
ble 1 - Air pern	neability with positive pressure (a	djusted for laboratory conditio	ns)
Pressure	Air flow through	Air flow per unit area	Air flow per metre of
differential	test sample	of test sample	opening joints
Ра	m³/h	m³/h/m²	m³/h/m
50	0.00	0.00	0.00
100	0.00	0.00	0.00
150	1.27	1.56	0.38
200	0.17	0.21	0.05
250	0.17	0.21	0.05
300	0.24	0.29	0.07
450	0.14	0.18	0.04
600	0.40	0.49	0.12
	d and closed before applying pres e negative pressure pulses applie		
Three ble 2 - Air pern	e negative pressure pulses applie neability with negative pressure (a	d Yes adjusted for laboratory condition	
Three ble 2 - Air pern Pressure	e negative pressure pulses applie neability with negative pressure (a Air flow through	d Yes adjusted for laboratory condition Air flow per unit area	Air flow per metre of
Three ble 2 - Air pern Pressure differential	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample	d Yes adjusted for laboratory condition Air flow per unit area of test sample	Air flow per metre of opening joints
Three ble 2 - Air perm Pressure differential Pa	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m³/h	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m²	Air flow per metre of opening joints m³/h/m
Three ble 2 - Air perm Pressure differential Pa 50	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00	Air flow per metre of opening joints m³/h/m 0.00
Three ble 2 - Air pern Pressure differential Pa 50 100	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00	Air flow per metre of opening joints m³/h/m 0.00 0.00
Three ble 2 - Air perm Pressure differential Pa 50 100 150	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95	Air flow per metre of opening joints m³/h/m 0.00 0.00 0.23
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52	Air flow per metre of opening joints m³/h/m 0.00 0.00 0.23 0.12
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54	Air flow per metre of opening joints m³/h/m 0.00 0.00 0.23 0.12 0.13
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44 0.49	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61	Air flow per metre of opening joints m³/h/m 0.00 0.00 0.23 0.12 0.13 0.15
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.77 0.42 0.44 0.49 0.67	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61 0.83	Air flow per metre of opening joints m³/h/m 0.00 0.23 0.12 0.13 0.15 0.20
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44 0.49	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61	Air flow per metre of opening joints m³/h/m 0.00 0.00 0.23 0.12 0.13 0.15
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air perm	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44 0.49 0.67 0.73	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.95 0.52 0.54 0.61 0.83 0.90	Air flow per metre of opening joints m³/h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air perm Pressure	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44 0.49 0.67 0.73 neability averages with positive an Air flow per average	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61 0.83 0.90 ad negative pressures Air flow average per	Air flow per metre of opening joints m ³ /h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22 Total surface area of
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air perm Pressure differential	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.77 0.42 0.44 0.49 0.67 0.73 neability averages with positive ar Air flow per average unit area of test sample	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61 0.83 0.90 ad negative pressures Air flow average per metre of opening joints	Air flow per metre of opening joints m ³ /h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air perm Pressure differential Pa	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.00 0.77 0.42 0.44 0.49 0.67 0.73 neability averages with positive ar Air flow per average unit area of test sample m ³ /h/m ²	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61 0.83 0.90 and negative pressures Air flow average per metre of opening joints m³/h/m	Air flow per metre of opening joints m ³ /h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22 Total surface area of
Three ble 2 - Air perm Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air perm Pressure differential Pa 50	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.00 0.77 0.42 0.44 0.49 0.67 0.73 neability averages with positive ar Air flow per average unit area of test sample m ³ /h/m ² 0.00	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.95 0.52 0.54 0.61 0.83 0.90 ad negative pressures Air flow average per metre of opening joints m³/h/m 0.00	Air flow per metre of opening joints m³/h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22 Total surface area of test sample (m²)
Three ble 2 - Air pern Pressure differential Pa 50 100 150 200 250 300 450 600 ble 3 - Air pern Pressure differential Pa 50 100	e negative pressure pulses applie neability with negative pressure (a Air flow through test sample m ³ /h 0.00 0.77 0.42 0.44 0.49 0.67 0.73 neability averages with positive ar Air flow per average unit area of test sample m ³ /h/m ² 0.00 0.00 0.00	d Yes adjusted for laboratory condition Air flow per unit area of test sample m³/h/m² 0.00 0.00 0.95 0.52 0.54 0.61 0.83 0.90 ad negative pressures Air flow average per metre of opening joints m³/h/m 0.00 0.00 0.00	Air flow per metre of opening joints m³/h/m 0.00 0.23 0.12 0.13 0.15 0.20 0.22 Total surface area of test sample (m²) 0.81
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Testing of	Single top hung projecting casement window				
Testing to	BS 6375-1:2015+A1:2016				



PICTURE OF TEST WINDOW



END OF REPORT

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