



Test Report No: WTH2008#1-4

Date: 15/12/2020

Testing of: Single top hung casement window

Tested to: BS 6375-2:2009 Clause 5.3  
Load bearing capacity of safety devices

\*\* This test is not UKAS  
accredited

\*\* Load requirements detailed in Strength data for design safety  
phase 2, referred to in Health Building Note 00-10 Part D:  
Windows and associated hardware.

Prepared for: Nico Manufacturing Ltd

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**CONTENTS**

	Page No.
Authorisation	3
Test requested by	4
Details of test	5
Details of samples	6
Test window drawing	7
Load-bearing capacity of safety devices, results	8 & 9
Conclusion of tests	8 & 9
Picture of test window	10



**AUTHORISATION**

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Assisted by:  
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Report produced by: D.Kury Position: Senior Test Engineer

Signature: 

Date: 15/12/2020

For and on behalf of Nico Manufacturing Ltd Test Laboratory

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Signature: 

Date: 15/12/2020

For and on behalf of Nico Manufacturing Ltd Test Laboratory

Date of issue of report 15/12/2020

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Test Report No. WTH2008#1-4	Page 4 of 10
Testing of Single top hung casement window	
Testing to BS 6375-2:2009 Clause 5.3	



**TEST REQUESTED BY**

**Origin of test request**

Company Name	Nico Manufacturing Ltd
Company Address	109 Oxford Road Clacton on Sea Essex CO15 3TJ
Contact	Ian Harrison
Contact position	Sales Director

**Quotation Details**

Quotation No.	WTH2008
Dated:	10/12/2020

Test Report No. WTH2008#1-4	Page 5 of 10
Testing of Single top hung casement window	
Testing to BS 6375-2:2009 Clause 5.3	



### DETAILS OF TEST

Description	Single top hung
Model / type	Projecting flush casement window
Make / Brand	Liniar
Date sample received	31/10/2019
Any special requirements	

Test Specification	BS 6375-1:2015+A1:2016 Performance of windows & doors. Classification for operation and strength characteristics
Date sample received	31/10/2019
Date testing started	15/12/2020
Date testing finished	15/12/2020
Job No.	WTH2008
Any special requirements	

#### **BS 6375-2: 2009 Table A.1 Summary of classification for windows**

Characteristics	Test method	Classification Standard	Class for all windows
Load-bearing capacity of safety devices	BS EN 14609:2004	BS EN 14351-1:2006 +A2:2016	350 N

The samples were mounted in timber sub frames (nominal 100mm x 50mm in section).  
The samples were mounted in the test rig without any twists or bends that might influence the test result.

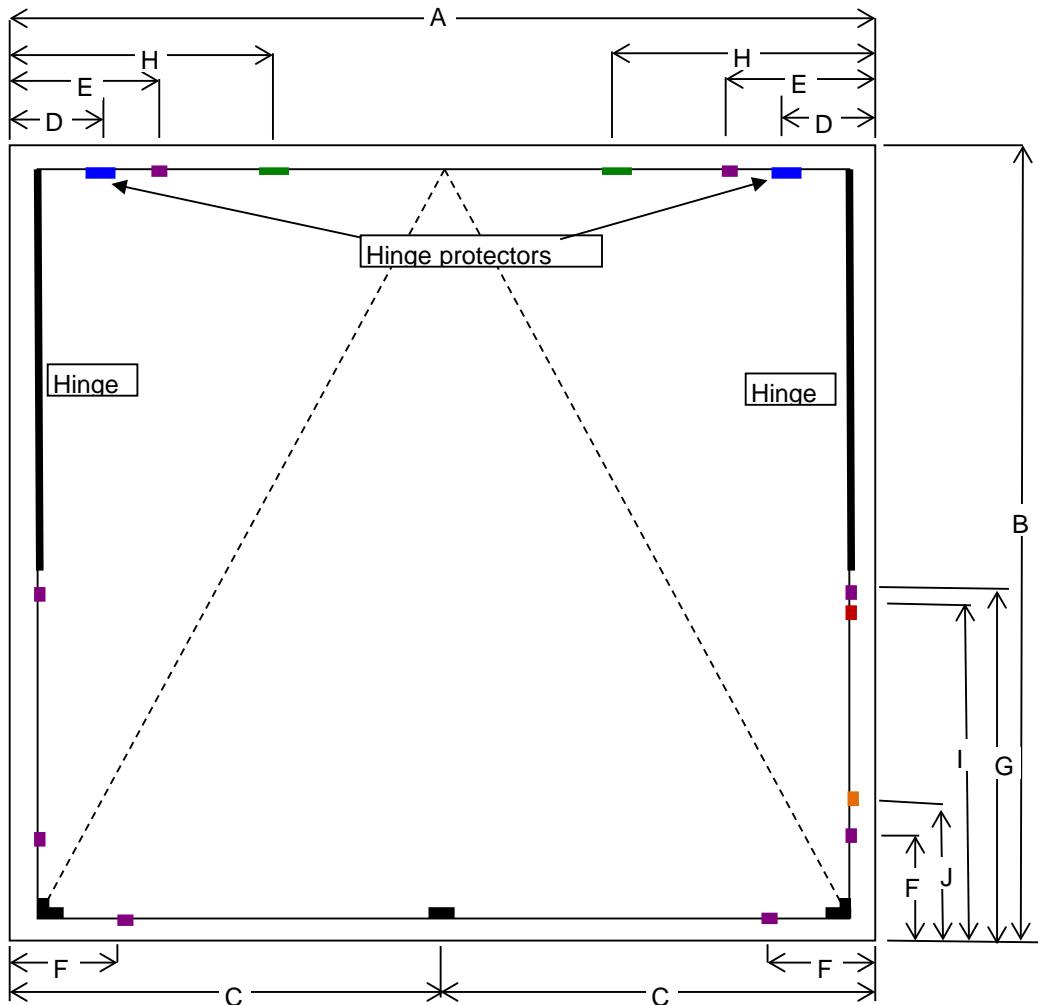


**DETAILS OF SAMPLE**

Sample number	WTH1910E
Sample details	Single top hung flush casement window
Fabricator	Britannia Windows (UK) Ltd
Material:	PVC-U Liniar part numbers; Frame - LCW011, Sash - LSW030 Reinforcement, frame & sash - LAN101
Finish	Gloss white
Lock & keeps	Nico Triple lock shootbolt, comprising; Gearbox - part no 93805, shootbolt extensions - part no 93845-TR Nico cast zinc keeps - part nos 9328L, R & C
Hinges & protectors	Hinges; Nico 24" Standard Top hung hinges, part no 8260 Hinge protector; Nico Xtra bolt, part no 8100
Handle	VBH Alpha cranked handles, part no 2QE1102 (RH)
Fixings	Lock - 4.3 x 32mm c'sk head gimlet point Keeps - 4.3 x 25mm c'sk head gimlet point Hinges - 4.3 x 25mm pan head gimlet point to sash and frame Hinge protector - 4.3 x 25mm pan head gimlet point to sash and frame Interlocking wedges - 4.3 x 25mm pan head gimlet point to sash and frame Restrictor safety catch - 4.3 x 25mm c'sk head gimlet point to sash and frame Healthcare restrictor - 4.3 x 25mm c'sk head gimlet point to sash and frame
Weather sealing	Co extruded gasket on outer frame Wool pile on sash Nico sash compressors, part nos Catch - 6100, keep - 6117
Glass (or infill)	4-20-4mm toughened glass unit
Glazing system	Internally bead glazed with co extruded gaskets
Sample dimensions	1200 x 1200mm
Additional Information	Run up blocks, Liniar LMO303 Nico Restrictor Safety catch, part no 6000 (catch), 6017 (pin) Nico Healthcare restrictor, part no 6060



**TEST WINDOW DRAWING**



- Healthcare restrictor
- Restrictor safety catch
- Interlocking wedge
- Hinge protector
- Run up block

A	=	1200	mm
B	=	1200	mm
C	=	600	mm
D	=	125	mm
E	=	200	mm
F	=	150	mm
G	=	530	mm
H	=	360	mm
I	=	500	mm
J	=	210	mm

Test Report No. WTH2008#1-4	Page 8 of 10
Testing of Single top hung casement window	
Testing to BS 6375-2:2009 Clause 5.3	



**TEST RESULT**

Sample No	WTH1910E	Temperature	22°C	Humidity	42%RH	Date	15/12/2020
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BS 6375-2 test	Requirement	Test results
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Load bearing capacity of safety devices	Withstand force of 350N for 60 seconds  BS EN 14351-1:2006 Clause 4.8	Withstood force and remained operational
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**CONCLUSIONS OF TEST**

Clause No.	Test Description	Test result
C.5.3 (Test 4)	<b>Load-bearing capacity of safety devices</b>  (BS EN 14351-1:2006 Resist force of 350N for 60 seconds)	Pass

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



Test Report No. WTH2008#1-4	Page 9 of 10
Testing of Single top hung casement window	
Testing to BS 6375-2:2009 Clause 5.3	



**TEST RESULT**

Sample No	WTH1910E	Temperature	22°C	Humidity	42%RH	Date	15/12/2020
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**Test with Healthcare restrictor fitted to window**

BS 6375-2 test	Requirement	Test results
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<b>Load bearing capacity of safety devices</b>	Withstand force of 350N for 60 seconds  BS EN 14351-1:2006 Clause 4.8	Withstood force and remained operational
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<b>Additional load bearing test</b>	Withstand force of 1000N for 5 minutes  Based on maximum loads detailed in strength data for design safety phase 2, referred to in Health Building Note 00-10 Part D: Windows and associated hardware.	Withstood force and remained operational  Clearance at engaged position 70mm Clearance under load 85mm Clearance after removing load 74mm
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**CONCLUSIONS OF TEST**

Clause No.	Test Description	Test result
C.5.3 (Test 4)	<b>Load-bearing capacity of safety devices</b>  (BS EN 14351-1:2006 Resist force of 350N for 60 seconds)	Pass

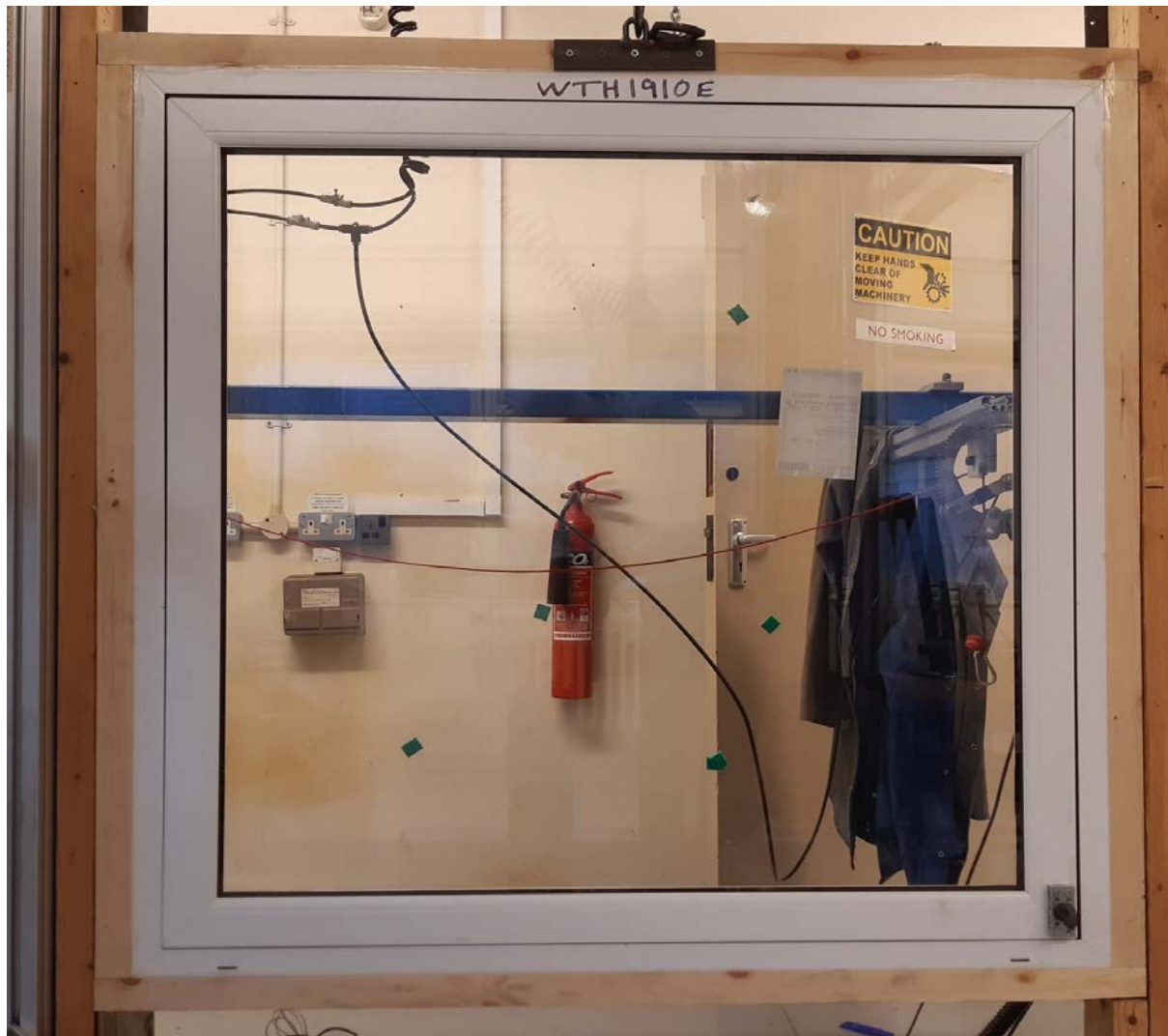
The results contained in this test report relate only to the particular sample/s tested and to the specific tests carried out as detailed within this report.

**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.



**PICTURE OF TEST WINDOW**



**END OF REPORT**