

Test Report No: WTH1901#1-3

Date: 03/04/2019

Testing of: Single top hung & single side hung flush casement windows

Tested to: BS 6375-2:2009

Prepared for: Nico Manufacturing Ltd

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#### **AUTHORISATION**

Test completed by: D.

D.Kury

Assissted by:

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Report produced by: D.Kury

Position: Senior Test Engineer

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Date: 03/05/2019

For and on behalf of Nico Manufacturing Ltd Test Laboratory

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Date: 03/05/2019

For and on behalf of Nico Manufacturing Ltd Test Laboratory

Date of issue of report 03/05/2019

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#### **TEST REQUESTED BY**

# Origin of test request

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.	WTH1901
Dated:	25/03/2019

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#### **DETAILS OF TEST**

Description Flush casement windows Model / type Top hung & side hung Eurocell logic flush Make / Brand 03/04/2019

Date samples received

**Test Specification** 

Any special requirements

BS 6375-2:2009 Performance of windows & doors.

Classification for operation and strength characteristics

Date sample received 03/04/2019 Date testing started 03/04/2019 Date testing finished 12/04/2019 WTH1901 Job No.

Any special requirements

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

Characteristics	Test	Classification	Class for all
Characteristics	method	Standard	windows
Operating forces for windows	BS EN 12046-1	BS EN 13115	Class 1
Resistance to static torsion	BS EN 14609	BS EN 13115	Class 3
Racking	BS EN 14608	BS EN 13115	Class 3
Load-bearing capacity of safety devices	BS EN 14609	BS EN 14351	350 N
Resistance to repeated opening and closing	BS EN 1191	BS EN 12400	Class 3

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.

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# **DETAILS OF SAMPLE**

Fabricator  Fabricator  Material:  PN Ex Sa Re  Finish  Cock & keeps  Lock & keeps  Hinges & Hi protectors  Handle  W Fixings  Lock & Fr TI Hi	urocell Building Plastics Ltd  VC-U urocell profile numbers; Frame - EWS7021/7721 ash - EWS7015 einforcement - Frame & sash, none  loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Material:  Pi Eu Sa Re Re Re  Finish  Lock & keeps  Lock & keeps  Hinges & Hi protectors  Hindle  W  Fixings  Lock & Fr TI Hi	VC-U urocell profile numbers; Frame - EWS7021/7721 ash - EWS7015 einforcement - Frame & sash, none  loss white ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209 inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Finish  Cock & keeps  Hinges & Hi protectors  Handle  W  Fixings  Lock & Fr TI Hi	urocell profile numbers; Frame - EWS7021/7721 ash - EWS7015 einforcement - Frame & sash, none  loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Finish Gl Lock & keeps Lock & keeps Hinges & Hi Protectors Hi Handle W Fixings Lock & Fr TI Hi	ash - EWS7015 einforcement - Frame & sash, none  loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Finish Gl Lock & keeps Lock & keeps Hinges & Hi Protectors Hi Handle W Fixings Lock & Fr TI Hi	ash - EWS7015 einforcement - Frame & sash, none  loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Finish GI  Lock & keeps Lock & keeps Hinges & Hi  Protectors Hi  Handle W  Fixings Lock & Fr  TI  Hi	loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Finish GI Lock & keeps Lock & keeps Kee  Hinges & Hi protectors Hi  Handle W  Fixings Lock & Fr TI Hi	loss white  ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209  inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Lock & keeps  Hinges & Hi protectors  Handle  W  Fixings  Lock & keeps  Hi Handle  W  Fixings	ock - Nico Security espag, part no 921351 eeps - Nico steel security keep, part number 9209 inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Hinges & Hi protectors Hi  Handle W  Fixings Locker Fr TI Hi	eeps - Nico steel security keep, part number 9209 inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Hinges & Hi protectors Hi  Handle W  Fixings Locker From TI Hi	eeps - Nico steel security keep, part number 9209 inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Hinges & Hi protectors Hi  Handle W  Fixings Lo Ke Fr TI Hi	inges - Nico Atlas 12" Egress easy Clean S/H sash part no 8561 inge protectors - Nico Xtra bolt, part no 8100
Protectors His Handle W  Fixings Local Kee France TI His	inge protectors - Nico Xtra bolt, part no 8100
Protectors His Handle W  Fixings Local Kee France TI His	inge protectors - Nico Xtra bolt, part no 8100
Handle W Fixings Lo	
Fixings Lo Ke Fr TI Hi	
Ke Fr TI Hi	hite Inline locking handle, part number LSF1704
Fr TI Hi	ock - TIMco 4.30 x 30mm c'sk head gimlet point
TI Hi	eeps - TIMco 4.3 x 30mm c'sk head gimlet point
TI Hi	riction hinges - TIMco 4.3 x 20mm pan head gimlet point to frame
Hi	Mco 4.3 x 25mm pan head gimlet point to sash
	inge protectors - 4.8 x 30mm Pan head gimlet point to frame & sash
Weather sealing Co	g- p
vicaliter coaliting	o extruded gaskets
	12-4-12-4mm Toughened glass triple glazed unit
(or infill)	
Glazing system In	ternally bead glazed with co extruded gaskets
Sample dimensions 13	350mm (H) x 1200mm (W)
control Issued: 01/11/17 Va	

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# **DETAILS OF SAMPLE**

Sample number	WTH1901D
Sample details	Top hung flush casement window
Fabricator	Eurocell Building Plastics Ltd
Material:	PVC-U Eurocell profile numbers; Frame - EWS7021/7721 Sash - EWS7015 Reinforcement; Frame - EWS821P Sash - EWS7615S
Finish	Gloss white
Lock & keeps	Lock - Nico Security espag, part no 92951 Keeps - Nico steel security keep, part number 9209
Hinges & protectors	Hinges - Nico 24" Heavy Duty part no 8260HD Hinge protectors - Nico Xtra bolt, part no 8100
Handle	White Inline locking handle, part number LSF1704
Fixings	Lock - TIMco 4.30 x 30mm c'sk head gimlet point Keeps - TIMco 4.3 x 30mm c'sk head gimlet point Friction hinges - TIMco 4.3 x 20mm pan head gimlet point to frame TIMco 4.3 x 25mm pan head gimlet point to sash Hinge protectors - 4.8 x 30mm Pan head gimlet point to frame & sash
Weather sealing	Co extruded gaskets
Glass (or infill)	4-20-4mm Toughened glass double glazed unit
Glazing system	Internally bead glazed with co extruded gaskets
Sample dimensions	1350mm (H) x 1200mm (W)
Doc control Issued: 01/11	/17 Validated: 27/07/17 Effective: 27/07/17 Authorised: M Franklin Issue 03

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# **DETAILS OF SAMPLE**

Sample number	WTH1901B & WTH1901G
Sample details	Top hung flush casement window
Fabricator	Eurocell Building Plastics Ltd
Material:	PVC-U
	Eurocell profile numbers; Frame - EWS7021/7721
	Sash - EWS7015
	Reinforcement; Frame & sash - none
Finish	Gloss white
Lock & keeps	Lock - Nico Security espag, part no 92951
	Keeps - Nico steel security keep, part number 9209
	Thoops Thou stool seeding heop, part hamber 6266
Hinges &	Hinges - Nico 24" Heavy Duty part no 8260HD
protectors	Hinge protectors - Nico Xtra bolt, part no 8100
proteotoro	go p. 6.6.6.6.6
Handle	White Inline locking handle, part number LSF1704
Fixings	Lock - TIMco 4.30 x 30mm c'sk head gimlet point
	Keeps - TIMco 4.3 x 30mm c'sk head gimlet point
	Friction hinges - TIMco 4.3 x 20mm pan head gimlet point to frame
	TIMco 4.3 x 25mm pan head gimlet point to sash
	Hinge protectors - 4.8 x 30mm Pan head gimlet point to frame & sash
Weather sealing	Co extruded gaskets
Glass	4-20-4mm Toughened glass double glazed unit
(or infill)	
Glazing system	Internally bead glazed with co extruded gaskets
Sample dimensions	1350mm (H) x 1200mm (W)
·	
oc control Issued: 01/11/	17 Validated: 27/07/17 Effective: 27/07/17 Authorised: M Franklin Issue

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#### **CONCLUSIONS OF TEST**

Clause No.	Test Description	Sample No	Test result
C.5.1 (Test 1)	Operating forces  (BS 6375-2 Max force to operate lever handle 100N or 10Nm) (BS 6375-2 Max force to move casement of sash 100N)	WTH1901A WTH1901B WTH1901D WTH1901G	Pass Pass Pass Pass
C.5.2.1 (Test 2)	Mechanical strength - Resistance to static torsion  (BS EN 14609 Force 300N for 5 minutes - deflection and operating forces measured and recorded)	WTH1901A WTH1901D WTH1901G	Pass Pass Pass
C.5.2.2 (Test 3)	Mechanical strength - racking  (BS EN 14608 Force 600N for 5 minutes - deflection and operating forces measured and recorded)	WTH1901A WTH1901D WTH1901G	Pass Pass Pass
C.5.3 (Test 4)	Load-bearing capacity of safety devices  (BS EN 14351 & Documented in house test method WTH-LBCSD-SOP Resist force of 350N for 60 seconds)		N/A
C.5.5 (Test 5)	Resistance to repeated opening and closing  (BS EN 1191 Window opened and closed minimum of 10,000 cycles for Class 2 (BS EN 12400) or 20,000 for Class 3 with operating forces measured at start and finish of test)	WTH1901B	Pass Class 3

Please Note: No impact resistance test was completed as currently the requirement in the UK is Class 0 with zero drop height of the impactor.

The results contained in this report apply only to the samples tested and to the specific tests carried out within this report.

#### Test specimen details

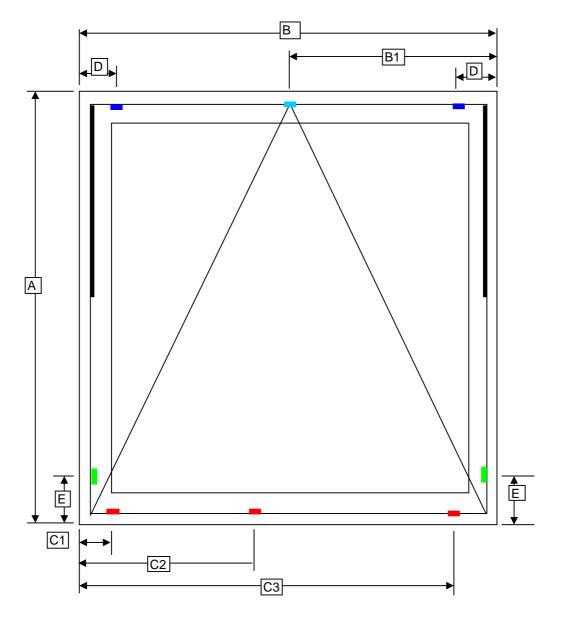
Details of the samples construction and hardware components is based on information supplied by the test client, while these details have been checked and verified where possible WTH accepts no responsibility for the accuracy of details supplied.

Note: The test specimens were kept in the test laboratory at the required temperature and humidity for a minimum of 12 hours before testing was undertaken as specified in BS EN 14608:2004, BS EN 14609:2004 & BS EN 1191:2012.

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#### **TEST WINDOW DRAWING**



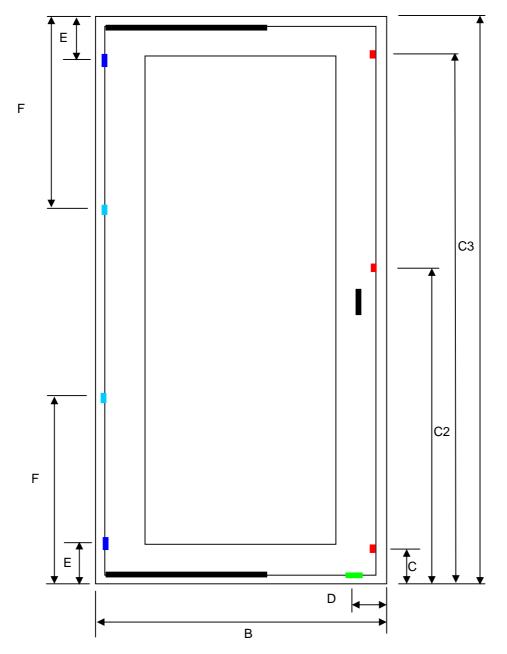
Weather wedge
Hinge protector
Locking cam
Run up block

1350 Α mm 1200 В mm 600 B1 mm C1 150 mm C2 480 mm С3 1020 mm D 120 mm Ε 130  $\mathsf{mm}$ 

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#### **TEST WINDOW DRAWING**



Weather wedgesRun up blockLocking pointsHinge protectors

1500 mm В 750 mm C1 110 mm C2 850 mm С3 1380 mm D 100 mm Е 120 mm F 550 mm

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## **RESULTS TEST 1-3**

Sample No WTH1	901A Temperature 19°C Hun	nidity 33%RH Date 10/04/2019
BS 6375-2 test	Requirement	Test results
Operating forces (Test 1)	BS EN 13115: 2001 Class 1  Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.6 Nm Open = 42.4 N Close = 56.6 N Engage = 2.8 Nm
Resistance to static torsion (Test 2)	Class 3. No damage or permanent deformation and remain operational BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
(1651.2)	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.6 Nm Open = 42.0 N Close = 60.9 N Engage = 3.4 Nm
Resistance to racking (Test 3)	Class 3. No damage or permanent deformation and remain operational BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.5 Nm Open = 31.3 N Close = 75.1 N Engage = 3.3 Nm

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## **RESULTS TEST 1-3**

Sample No WTH1	901D Temperature 19°C Hum	nidity 38%RH Date 12/04/2019
BS 6375-2 test	Requirement	Test results
Operating forces (Test 1)	BS EN 13115: 2001 Class 1  Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.6 Nm Open = 20.2 N Close = 51.8 N Engage = 2.0 Nm
Resistance to static torsion (Test 2)	Class 3. No damage or permanent deformation and remain operational BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
(16312)	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.5 Nm Open = 20.1 N Close = 60.7 N Engage = 2.7 Nm
Resistance to racking (Test 3)	Class 3. No damage or permanent deformation and remain operational  BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.6 Nm Open = 36.1 N Close = 75.4 N Engage = 2.3 Nm

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# **RESULTS TEST 1-3**

Sample No WTH	1901G Temperature 20°C Hui	midity 38%RH Date 12/04/2019
BS 6375-2 test	Requirement	Test results
Operating forces (Test 1)	BS EN 13115: 2001 Class 1  Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.3 Nm Open = 62.2 N Close = 74.9 N Engage = 1.1 Nm
Resistance to static torsion (Test 2)	Class 3. No damage or permanent deformation and remain operational BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
<b>,</b> ,	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.1 Nm  Open = 63.4 N  Close = 64.0 N  Engage = 1.2 Nm
Resistance to racking (Test 3)	Class 3. No damage or permanent deformation and remain operational  BS EN 13115: 2001 Class 1	Load applied and removed, operational forces still within allowable limits
	Lever handle operation, max 10Nm Movement of casement or sash Movement of casement or sash Lever handle operation, max 10Nm	Disengage = 1.3 Nm Open = 72.3 N Close = 81.8 N Engage = 2.3 Nm

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## **TEST RESULTS 4-5**

Sample No WTH1	901B Temperature 19°C	Humidity 36%RH Date 03/04/2019
BS 6375-2	Requirement	Test results
test		
Resistance	Class 3 Heavy duty as	
to repeated	classified by BS EN 12400:2002	Window remained fully functional on
opening and		completion of test and was
closing	The window is to remain	considered to be fit for purpose
	operation and functional	
(Test 5)	within accepted forces	
	Operating forces before test	
	BS EN 13115: 2001 Class 1	Disengage = 1.2 Nm
	Lever handle operation, max 10Nm	Open = 18.5 N
	Movement of casement	Close = 68.8 N
	or sash, max 100N	Engage = 1.7 Nm
	Operating forces after 2500 cycles	
	BS EN 13115: 2001 Class 1	Disengage = 1.3 Nm
	Lever handle operation, max 10Nm	Open = 19.2 N
	Movement of casement	Close = 53.4 N
	or sash, max 100N	Engage = 1.8 Nm
	Operating forces after 5000 cycles	
	BS EN 13115: 2001 Class 1	Disengage = 1.4 Nm
	Lever handle operation, max 10Nm	Open = 17.1 N
	Movement of casement	Close = 60.9 N
	or sash, max 100N	Engage = 2.0 Nm
	Operating forces after 7500 cycles	
	BS EN 13115: 2001 Class 1	Disengage = 1.4 Nm
	Lever handle operation, max 10Nm	Open = 17.0 N
	Movement of casement	Close = 61.5 N
	or sash, max 100N	Engage = 2.2 Nm
	Operating forces after 10000 cycle	s
	BS EN 13115: 2001 Class 1	Disengage = 1.2 Nm
	Lever handle operation, max 10Nm	Open = 16.5 N
	Movement of casement	Close = 68.9 N
	or sash, max 100N	Engage = 1.8 Nm
	Operating forces after 12500 cycle	
	BS EN 13115: 2001 Class 1	Disengage = 1.3 Nm
	Lever handle operation, max 10Nm	Open = 15.8 N
	Movement of casement	Close = 61.9 N
	or sash, max 100N	Engage = 2.1 Nm
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## **TEST RESULTS 4-5**

Requirement  Operating forces after 15000 cycles	Test results		
Operating forces after 15000 cycles			
Operating forces after 15000 cycles			
BS EN 13115: 2001 Class 1	Dioongogo	1.3	Nime
Lever handle operation, max 10Nm	Disengage = Open =	1.3 12.9	Nm N
Movement of casement	Close =	78.6	N
or sash, max 100N	Engage =		Nm
or sash, max room	Liigage =	1.0	14111
Operating forces after 17500 cycles			. — — — .
BS EN 13115: 2001 Class 1	Disengage =	1.4	Nm
Lever handle operation, max 10Nm	Open =	14.8	N
Movement of casement	Close =	59.8	N
or sash, max 100N	Engage =	1.9	Nm
-	D:	4.0	
			Nm
•	•		N
			N Nm
or Sasti, max room	Engage =	1.9	INIII
Operating forces after 200 cycles BS EN 1191:2012 G.4.2.4 Lever handle operation, max 10Nm Movement of casement or sash, max 100N	Disengage = Open = Close = Engage =		Nm N N Nm
	BS EN 13115: 2001 Class 1 Lever handle operation, max 10Nm Movement of casement or sash, max 100N  Operating forces after 20000 cycles BS EN 13115: 2001 Class 1 Lever handle operation, max 10Nm Movement of casement or sash, max 100N  Operating forces after 200 cycles BS EN 1191:2012 G.4.2.4 Lever handle operation, max 10Nm Movement of casement or sash, max 100N	BS EN 13115: 2001 Class 1 Lever handle operation, max 10Nm Movement of casement or sash, max 100N  Operating forces after 20000 cycles BS EN 13115: 2001 Class 1 Lever handle operation, max 10Nm Movement of casement or sash, max 100N  Movement of casement or sash, max 100N  Operating forces after 200 cycles Engage =  Disengage =  Close = Engage =  Disengage =  Open =  Close = Engage =  Disengage =  Open =  Close = Engage =  Disengage =  Open =  Close = Engage =  Disengage = Close = Engage =  Close = Engage =  Disengage = Close = Engage =  Close = Engage =  Disengage = Close = Engage =  Disengage = Engage =  Open = Close = Engage =  Disengage = Engage =  Open = Engage = E	Disengage   1.4

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## **PICTURE OF TEST WINDOW**





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## **PICTURE OF TEST WINDOW**



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## **PICTURE OF TEST WINDOW**



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