

Laboratory Report

Date

01-February-2016

Customer YINTEC

306A CROWN STREET, WOLLONGONG NSW 2500

Test No:

AZT0009.16



NATA Accredited Laboratory No: 15147

Azuma Design Pty Limited 38-44 Redfern Street, Wetherill Park. NSW 2164 Ph 02 9604 0255 E-Mail info@azumadesign.com.au

TESTING LABORATORY REPORT



Reported Jayden Mudford by:

Checked Robert Irwin by:

Date : 01-Feb-16
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Wind and Water Penetration Testing

Testing to AS2047 and as per test method AS4420.0 to .6

Manufacturer / Customer

YINTEC

Test Sample Data

Deflection Ratio

250

Unit type	SLIDING I	DOOR
Unit code	0	
Size	H (mm)	2690
	W (mm)	2500
Design Pa:	0	

Tested For	Y/N	Rating	Units
Structural Deflection Positive	Yes	1500	Pa
Structural Deflection Negative	Yes	1500	Pa
Air Infiltration	Yes	75	Pa
Operating Force Initial / Constant	Yes	180/110	N
Water Penetration	Yes	200	Pa
Ultimate Strength Positive	Yes	3000	Pa
Ultimate Strength Negative	Yes	3000	Pa

Test Unit Specifications

Results

	Sizes		н	W	Area sq m	Glass Type	Structural Framing Member	Span (mm)	Allowable Deflection	Deflection Result	Actual Ratio	Test Press (Pa)	
Frame			2690	2500	6.73		Interlock P	2490	9.96	0.00		1500	_
	SLIDING		2570	1250	3.21		Interlock N	2490	9.96	0.00		1500	
Sash	FIXED		2570	1250	3.21		Mullion P	0		0.00			
		0	0	0	0.00		Mullion N	0		0.00			
	Thickne	ss (mm)	Н	W			Transom P	0		0.00			
	SLIDING	10.38x12x	2422	1142	2.77	TOUGHENED	Transom N	0		0.00			
Glass	FIXED	0	2422	1142	2.77	TOUGHENED	H/L Trans P	0		0.00	0		
		0 0	0	0	0.00		H/L Trans N	0		0.00	0		
		0 0	0	0	0.00		H/L Mullion P	0		0.00			
							H/L Mullion N	0		0.00			
							Meet Stile 1,2,3	0		0.00			
							Meet Stile 1,2,3	0		0.00			
							Meet Stile 4,5,6	0		0.00	0		
							Meet Stile 4,5,6	0		0.00	0		

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The test equipment and methods used in the above test comply with the requirements of AS 4420.1-6.

requirements of	AS 4420.2 in both the	positive and negative de	eflection at the
	handle of the sash to de	termine the force required	I to set the sash
to the operating maintain motion a			
	s per AS 4420.3.	Newtons	
	s per AS 4420.3.	Newtons Closing Force	
maintain motion a	Force in Opening Force 0	Closing Force	
ash 1	Force in Opening Force 0 0	Closing Force 0 0	
ash 1 ash 1 ash 2	Force in Opening Force 0 0 230	Closing Force 0 0 130	
ash 1 ash 1 ash 2 ash 2	Force in Opening Force 0 0 230 60	Closing Force 0 0 130 55	
ash 1 ash 1 ash 2	Force in Opening Force 0 0 230	Closing Force 0 0 130	

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Air Infiltration Test

The test was first completely sealed as per AS 4420.4 to determine the air leakage of the test rig. It was then subjected to 75 Pa of both positive and negative pressure. Differential pressures were recorded. The test sample was then unsealed and subjected to 75 Pa of both positive and negative pressure. Differential pressures were recorded and air leakage then calculated. The actual leakage of the test sample was then determined.

Barometric pre	ssure (Pbar):	996		Air tempe	erature (° C)	21
	SI	EALED	UNS	EALED		
Max Pressure (Pa)	Positive (Pa)	Negative (Pa)	Positive (Pa)	Negative (Pa)		
75	10	4	218	265		

Test Pressure	Pressure Direction	Building / Window Type	Allowable leakage flow L/s m ²		T	Test results	
				Is ⁻¹ m ⁻² Positive	is ⁻¹ m ⁻² Negative	Pos +	Neg -
75 Pa	+/-	Air conditioned	1.0	1.59	1.96	N/A	N/A
75 Pa	+	Non air conditioned	5.0	1.59	1.96	Passed	

Results of test

The test unit satisfied the requirement for a non air-conditioned classification. The test unit was tested to AS 4420.4. The net flow readings are as per previous page.

Observations

NIL CONTRACTOR OF THE PROPERTY	
《新元·1888年》,1987年,1987年,1987年,1987年,1987年,1987年,1987年	

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WATER PENETRATION

Water was applied to the exterior of the test sample with no less than 0.05 ls-1m-2 for a period of five minutes at zero pressure. After five minutes, a nominated pressure was applied for fifteen minutes as per AS 4420.5.

Maximum pressure (Pa) applied for 15 minutes (Nominated pressure)

200

Results of test

The test unit satisfied the requirement of AS 4420.5 in positive pressure at the nominated design pressure.

\sim	h	92	m	 4:	_	n	-

O D S C I VALIO II S	
Silicone seal sil to sub sill	

ULTIMATE STRENGTH TEST

The test sample shall be subjected to a smoothly increasing differential pressure. The pressure shall be conducted in both a positive and negative direction as per AS 4420.6. The test pressure shall be

Max. pressure read	ched for 10 seconds
Positive	Negative
3000	3000

Results of test:	Y or N
Dislodgement of any glass?	No
Dislodgement of a frame or any part of a frame?	No
Removal of alignment with or without its framing sash from a frame?	No
Loss of support of a frame such as when it is unstable in its opening in the building structure?	No
Failure of any sash, locking device, fasteners or supporting stay which would allow an opening light to come open?	No

Observations

NIL	



