

Laboratory Report

Date

07-October-2015

Customer Yintec

306A Crown St, Wollongong NSW 2500

Test No:

AZT0315.15

TESTING LABORATORY REPORT

Reported Jayden Midford by:

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Date : 07-Oct-15 Test No:

AZT0315.15

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

100

Unit type	18 Blade Louvre Window					
Unit code	2 LH Locking Handles					
Size	H (mm) 2647					
	W (mm) 850					
Design Pa:	0					

Tested For	Y/N	Rating	Units
Structural Deflection Positive	No	Not Tested	Pa
Structural Deflection Negative	No	Not Tested	Pa
Air Infiltration	Yes	Failed	Pa
Operating Force Initial / Constant	No	Not Tested	Ν
Water Penetration	Yes	150	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)	Results
Frame		2647	850	2.25		Interlock P	0		0.00			
	0 (1)	0	0	10 CH 10 CH 10 CH		Interlock N	0		0.00			
Sash	0	0	0	0.00		Mullion P	0		0.00	1		
	The state of the control of the cont	0	0	0.00		Mullion N	0		0.00			
	Thickness (mm)	Н	W			Transom P	0		0.00	0		
	0 6	700	153	0.11	Toughened	Transom N	0		0.00	0		
Glass	0 0	0	0	0.00	0	H/L Trans P	0		0.00	0		П
	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			П
						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			
						Meet Stile 4,5,6	0	277-2-73	0.00			

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Test	An	1111	nm	non	te
1031	Cu	u	711	101	

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

Test Specimen

See drawings at the end of this report.

Test Methods

The test sample was fixed into the rig as outlined in AS 4420.1.

Deflection Test

The test sample was subjected to both positive and negative pressure as prescribed in AS 4420.2. After the initial settling in of the unit at 50% of the required test pressure, the differential pressure was then applied slowly until the nominated design pressure was reached in positive. This process was then repeated for the negative.

Resu		-

recounts or root	- Control of the Control	The second leading to the second		
Not tested				
March 1997 Company of the Company of	SE EXCEPTED A			

Observations

Nil	

Operating Force Test

A force gauge was attached to the operating handle of the sash to determine the force required to set the sash in motion and thereafter to maintain motion as per AS 4420.3.

Force in Newtons

		Opening Force	Closing Force
Initiating Movement	Sash 1	0	0
Sustaining Movement	Sash 1		
Initiating Movement	Sash 2	的性确如为数据表示的 数据	Trie yn dae yn dae
Sustaining Movement	Sash 2		医原生生物 医重复
Initiating Movement	Sash 3		
Sustaining Movement	Sash 3		Grand Collage

Results of test			ADDRESS TAXABLE	V7740	-	
Not tested						

Observations

Observation	13
Nil	

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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 pressure (Pbar):		etric pressure (Pbar): 1028		Air temp	erature (° C)	23
	SE	ALED	UNSI	EALED		
Max Pressure (Pa)	Positive (Pa)	Negative (Pa)	Positive (Pa)	Negative (Pa)		
75	5	4	871	705		

Test Pressure	Pressure Direction	Building / Window Type	Allowable leakage flow L/s m²	Test results			
	•			ls ⁻¹ m ⁻² Positive	ls ⁻¹ m ⁻² Negative	Pos +	Neg -
75 Pa	+/-	Air conditioned	1.0	11.20	10.08	N/A	N/A
75 Pa	+	Non air conditioned	5.0	11.20	10.08	Failed	

Results of test

st unit failed the requirement of AS 4420.4. The net flow readings are as per previous page:				

Observations

Nil		

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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)

150

Results of test

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

Observations

Every louvre blade had fitted a UPVC moulding on the leading/ top edge.

The UPVC moulding ran the full width of the louvre blade.

At 150Pa eater leakedthrough the bottom locking lever.

With the UPVC moulding installed water did not penetrate the louvre blade.

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 reached 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







