

Laboratory Report

Date

11-October-2016

Customer YINTEC

306A Crown St Wollongong NSW

Test No:

AZT0349.16



NATA Accredited Laboratory No: 15147

The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards. 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:

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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	Front Glazed Awning						
Unit code	0						
Size	H (mm)	2700					
	W (mm)	1800					
Design Pa:	CONTRACTOR AS						

Tested For	Y/N	Rating	Units
Structural Deflection Positive	Yes	2000	Pa
Structural Deflection Negative	Yes	1800	Pa
Air Infiltration	Yes	75	Pa
Operating Force Initial / Constant	No	Not Tested	N
Water Penetration	Yes	800	Pa
Ultimate Strength Positive	Yes	4000	Pa
Ultimate Strength Negative	Yes	4000	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			2700	1800	4.86		Interlock P						
	Hi Lite		355	570	[[[[[0]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]		Interlock N						
Sash	Awning	allowing and	1190	505	0.60		Mullion P	2560	10.24	10.03	255	2000	
Sasn	Lo Lite		1075	570	0.61		Mullion N	2560	10.24	9.53	269	1800	
	Fixed Panel		2620	1180	3.09		Lo Lite Tran P	480	1.92	0.09	5333	2000	
	Thicknes	s (mm)	Н	W	m²		Lo Lite Tran N	480	1.92	0.08	6000	1800	Р
	Hi Lite	6x9x6	270	520	0.14	Toughened	H/L Trans P	470	1.88	0.10	4700	2000	Р
01	Awning	6x9x6	1110	420	0.47	Toughened	H/L Trans N	470	1.88	0.12	3917	1800	Р
Glass	Lo Lite	6x9x6	990	520	0.51	Toughened	H/L Mullion P	924					
	Fixed Panel	6x9x6	2550	1130	2.88	Toughened	H/L Mullion N	il.					
							Meet Stile P						Ш
							Meet Stile N						┦
							Awning Stile P	1075	4.30			2000	_
							Awning Stile N	1075	4.30	1.02	1054	1800	Р

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1631	Cu	u	ווע		160

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.

Results of Test

The test unit satisfied the requirements of AS 4420.2 in both the positive and negative deflection at the nominated design pressure.

Observations

Nil	
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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	Şash 1	0	0
Initiating Movement	Sash 2	Comment of the second	0
Sustaining Movement	Sash 2	0	0
Initiating Movement	Sash 3	0 200	0
Sustaining Movement	Sash 3	0	0

Results of test

Results of test	
Not tested	

Observations

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Nil	L. S. D. L. C. L.	0717-10	NAME AND DESCRIPTION OF THE PERSON OF THE PE		ASTRACTOR	
						TALESCON STATE

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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):		(<i>Pbar</i>): 995		Air temp	erature (° C)	22
Max Pressure	SI	EALED	UNS	EALED		
	Positive (Pa)	Negative (Pa)	Positive (Pa)	Negative (Pa)		
75	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	117	50		

Test Pressure	Pressure Direction			Test results				
rest Pressure				ls ⁻¹ m ⁻² Positive	ls ⁻¹ m ⁻² Negative	Pos +	Neg -	
75 Pa	+/-	Air conditioned	1.0	1.87	1.15	N/A	N/A	
75 Pa	+	Non air conditioned	5.0	1.87	1.15	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	

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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)

800

Results of test

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

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v	DO.		٧a	u	u		-

Nil		Property (September 1997)	

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			
4000	4000			

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		

