AZUMA Design

Laboratory Report

Date	01-March-2013
Customer	Secureview
	Unit 3/29 McCotter Street Acacia Ridge 4110
Test No :	AZT0034.13.xls

NATA
WORLD RECOGNISED ACCREDITATION

NATA Accredited Laboratory No : 15147

Azuma Design Pty Limited
160 Newton Rd Wetherill Park. NSW 2164 Ph 02 9604 0255 E-Mail info@azumadesign.com.au

AZUMA DESIGN

TESTING LABORATORY REPORT

NATA
WORLD RECOGNISED ACCREDITATION

SIGNATORIES	
Reported by :	Nathan Olsen
Checked by :	Robert Irwin

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Air Infiltration Testing

Testing to AS4420.4

Manufacturer / Customer **Secureview**

Test Sample Data

Unit type	Perforated aluminium	
Unit code	C	
Size	H (mm)	1000
	W (mm)	1000
Design Pa	75/150	

Tested For	Y / N	Rating	Units
Air Infiltration ?	Yes	75/150	Pa

Test Unit Specifications

	H	W	Area sq m
Frame	1000	1000	1.00

Sample	Product ID	Infill	Material thickness	Aperture	Surface finish
C	Xceed	Perforated sheet	1.6mm	2.2mm	Powdercoat

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Air Infiltration Test

The test was first completely sealed against air leakage 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, and 150 Pa of both negative and positive pressure. Differential pressures were recorded. The test unit 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 unit was then determined.

Barometric pressure *(Pbar)*:	1017	Air temperature *(° C)*	28

Max Pressure *(Pa)*	SEALED		UNSEALED	
	Positive *(Pa)*	Negative *(Pa)*	Positive *(Pa)*	Negative *(Pa)*
75	1	30	3844	1509
150	4	16	3844	3384

Test Pressure	Pressure Direction	Building / Window Type	Allowable leakage flow L/s m^2	Test results			
				$ls^{-1}m^{-2}$ Positive	$ls^{-1}m^{-2}$ Negative	Pos +	Neg -
75 Pa	+	Insect screen	N/A	56.36	30.83	*N/A*	
150 Pa	+	Insect screen	N/A	55.43	50.05	*N/A*	

Observations

The test sample was covered and sealed using black plastic to ensure it was air tight around its installation. A 100mm x 100mm square hole was then cut in the centre of the plastic to focus testing on a smaller portion of the screen due to the high volume of air loss and test rig capability to produce the desired air flow. The above results indicate the air leakage through a 100mm x 100mm square portion of the screen.