



Wintec Aluminium



Since our beginning in 1997, we have developed a range of window and door products that are innovative, functional and stylish.

Winter Aluminium windows and doors are an all Australian designed and manufactured product, with modern designs and quality finish at the forefront of the Winter philosophy.

An ongoing commitment to product development and service to our Australia wide fabricator base ensures that no matter where you are, you have access to the latest designs in the Window and Door industry.

"Australia's Leading Window and Door Systems"

Products and Services

Aluminium Windows & Doors

Wintec have products to suit all areas in Australia – consisting of, Sliding windows, Sliding doors, Awning and Casement windows, Double Hung windows, Louvres, Sliding Multi Track doors, French doors and Bi-folding doors.

Window & Door Testing Laboratory

The Wintec designed products are tested to Australian standard AS2047-1999 in NATA accredited laboratory No 14093. This ensures your windows and doors comply with the building code of Australia [BCA] and are suited to your particular location. In line with the BCA requirements Wintec windows and doors carry a 7 year guarantee.







Test Laboratory

Wintec

Accreditation number 14093

Winter Aluminium's dedication to good design practice required an in-house test laboratory to carry out R&D testing and formal NATA accredited testing.

The test laboratory has been accredited to ISO/IEC17025.

TESTING

The methods of test for windows and doors are specified in AS2047:1999 Windows in buildings – selection and installation. The tests specified in this Standard are given in the AS4420 suite of Standards.

AS4420.2 DEFLECTION TEST

Windows and doors shall be designed to control or limit the deflection of structural members at the Serviceability Limit State.

No structural member in a completely assembled and glazed window or door shall deflect by an amount greater than span/150 for "housing", Span/180 for "other residential" and some "housing" or Span/250 for "commercial".

AS4420.3 OPERATING FORCE TEST

The operating force test measures the forces required to operate windows and doors with moving sashes. The size of the operating force depends on the weight of the sash, the arrangement and compression of seals and the configuration of rollers or slides.

AS4420.4 AIR INFILTRATION TEST

The air infiltration rate is a measure of the ability of the window or door to resist the ingress or egress of air through the window at a nominated static air pressure. The air infiltration rate is important with regard to the thermal performance of windows and doors, and is used in the calculation of the window energy rating. There is also some correlation between the air infiltration rate and the sound transmission characteristics of the window or door.

AS4420.5 WATER PENETRATION RESISTANCE TEST

Water penetration resistance is a measure of the ability of the window or door to resist the ingress of water spray under positive air pressure to the interior of the building.

The window or door shall be designed such that there shall be no penetration of uncontrolled water through the window or door at a static positive air pressure.

The water penetration level is defined as the maximum static air pressure at which no penetration of uncontrolled water occurs for a given volume and application of water spray.

AS4420.6 ULTIMATE STRENGTH TEST

Structural members of a window and door that are likely to be subjected to stress resulting from actions by wind on the assembly shall be designed so that the stress due to the ULS design wind loads does not exceed the factored limit state stress of the material. The Ultimate Limit State is the maximum load carrying resistance of the window.









Wintec Pressure **Conversion Chart**





75 11.18 40.25 7.65 25.00 1.57 100 12.91 46.47 10.20 28.87 2.00 150 15.81 56.92 15.30 35.35 3.13 200 18.26 65.73 20.40 40.82 4.18 250 20.41 73.48 25.50 45.64 5.22 300 22.36 80.50 30.60 50.00 6.27 400 25.82 92.95 40.80 57.73 8.36 500 28.87 103.92 51.00 64.55 10.4 600 31.62 113.84 61.20 70.71 12.5 700 34.16 122.96 71.40 76.37 14.6 800 36.51 131.45 81.60 81.65 16.7 900 38.73 139.42 91.80 86.60 18.80 1000 40.83 146.97 102.00 91.28 20.8 1100	Pa	m/sec	km/hr	m/sec		mm H ₂ O	mph	psf	
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	8000	115.47		115.47		816.00	258.19	167.12	
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PRESSURE



2008 WERS Certified **Product Directory - NFRC**

NOTES

- 1. Uw is the whole window U-value
- 2. SHGC, is the whole window solar heat gain coefficient
- 3. Tyw is the whole window visible (light) transmittance
- 4. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm dear in standard aluminium frame)
- 5. A negative percentage improvement figure indicates performance worse than the base-case window
- 6. A positive percentage improvement figure indicates performance better than the base-case window
- 7. Maximum air infiltration is 5.0L/s.m² at a positive pressure difference of 75 Pa as measured according to AS 2047
- 8. Static performance (U_w SHGC_w T_{vw} T_{dw}) calculated using Window 5.2 and Therm 5.2 software (LBNL), 2000-2003
- 9. Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate) according to procedures of WERS 2008.
- 10. Results disclosed at National Fenestration Rating Council (NFRC) regulations

07-May-08

10. Results disclose	d at National Fenesti	ration Rating Council	(NFRC) regulations.						07-May-0
Wintec Alumir	nium				9m	Total Window System Values - NFRC			
Window ID	Glazing	Cooling Stars	Heating Stars	%		Uw	SHGCw	Tvw	Air Inf.
48mm Aluminiun	n Sliding Windov	v - Single Glazed							
WAS_001_01	3Clr	☆	★★☆	8%	18%	6.5	0.77	0.79	0.13
WAS_001_02	4Clr	ជ	黄黄☆	10%	18%	6.4	0.75	0.78	0.13
WAS_001_03	4EG	**	**	32%	8%	6.4	0.51	0.65	0.13
WAS_001_04	6.38DLam	☆	青黄☆	13%	19%	6.3	0.72	0.78	0.13
WAS_001_05	6.38CP	***	青黄青台	46%	30%	4.5	0.46	0.52	0.13
48mm Direct Alu	minium Sliding I	Window - Double	Glazed						
WAS_002_01	3/6/3	★☆	青黄青黄☆	29%	46%	4.0	0.68	0.71	0.13
48mm Aluminiun	n Sliding Windov	v - Double Glaze	i						
WAS_003_01	4/8/4	大大	会会会会会	35%	43%	4.1	0.62	0.66	0.13
WAS_003_02	4EG/8/4	安全安全	青黄青☆	52%	32%	4.1	0.39	0.55	0.13
WAS_003_03	4EG/10/4EA	***	***	59%	37%	3.4	0.35	0.50	0.13
300 Series Alumi	inium Sliding Wi	ndow - Double G	azed						
WAS_004_01	4/8/4	**	青大青大会	35%	43%	4.0	0.62	0.66	0.78
WAS_004_02	4EG/8/4	***☆	***	52%	32%	4.0	0.39	0.55	0.78
WAS_004_03	4EG/10/4EA	女女女女	***	59%	37%	3.3	0.35	0.50	0.78
Aluminium Slidin	ng Door - Single	Glazed	•						
WAS_005_01	6.38DLam	*	***	15%	22%	6.0	0.72	0.78	0.76
WAS_005_02	6.38DLamGy	**	青金☆	31%	16%	6.0	0.55	0.39	0.76
WAS_005_03	6.38CP	***	黄黄黄☆	48%	34%	4.2	0.45	0.52	0.76
Aluminium Slidin	ng Door - Double	Glazed	•						
WAS_006_01	4/10/4	★★	青青青青春	34%	47%	3.8	0.64	0.69	0.76
WAS_006_02	4EG/10/4	★★★☆	***	53%	35%	3.8	0.40	0.57	0.76
WAS_006_03	4EG/10/4EA	***	***	59%	40%	3.2	0.36	0.53	0.76
WAS_006_04	6.38CP/8/4	***	***	56%	40%	3.3	0.39	0.46	0.76
Aluminium Awni	ng Window - Doi	uble Glazed	'	<u>'</u>					
WAS_007_01	4/8/4	会会会	会会会会会会	39%	57%	4.3	0.56	0.58	0.28
WAS_007_02	4EG/8/4	★★★☆	****	53%	47%	4.3	0.36	0.48	0.28
WAS_007_03	4EG/10/4EA	***	****	59%	52%	3.7	0.32	0.44	0.28
Aluminium Caser									
WAS_008_01	4/8/4	★★☆	****	40%	60%	4.0	0.56	0.58	0.42
WAS_008_02	4EG/8/4	***	****	55%	50%	4.0	0.35	0.48	0.42
WAS 008 03	4EG/10/4EA	***	****	61%	55%	3.4	0.31	0.45	0.42
Aluminium Doub							5.52		
WAS_009_01	4/8/4	**	黄黄黄☆	37%	34%	4.4	0.57	0.61	3.57
WAS 009 02	4EG/8/4	***	***	52%	23%	4.4	0.36	0.50	3.57
WAS_009_03	4EG/10/4EA	***	***	58%	28%	3.8	0.32	0.46	3.57
48mm Aluminium				22,0	_5,0	5.0	5.52	2.10	5,07
WAS_010_01	3Clr	☆	***	6%	27%	6.0	0.80	0.83	
WAS_010_01 WAS_010_02	4Clr	**	**☆	8%	27%	5.9	0.78	0.82	
WAS_010_02 WAS_010_03	4EG	☆	***	33%	16%	5.9	0.53	0.68	
WAS_010_03 WAS_010_04	6.38DLam	***	***	12%	27%	5.8	0.75	0.82	
			_	_					
WAS_010_05	6.38CP	*	*	48%	39%	3.9	0.47	0.54	

Acoustic Performance Wintec Aluminium Windows & Doors

The table below represents the acoustic performance of Wintec Aluminium Windows & Doors. The Rw (Weighted Sound Reduction Index) ratings are the results of tests conducted at the National Acoustic Laboratory December 2007 in accordance with AS1191-2002.





WORLD RECOGNISED
ACCREDITATION
NO. 14093

WINDOW TYPE	GLASS	SEALS	Rw	STC	Test Report
Sliding Window	4.00 6.38	4.8 Qlon + Fin Pile 4.8 Qlon + Fin Pile	30 31	29 31	ATF2101 ATF2100
Sliding Door	4.00 6.38 10.38	4.8 Qlon + Fin Pile 4.8 Qlon + Fin Pile 4.8 Qlon + Fin Pile	30 32 35	30 32 34	ATF2096 ATF2095 ATF2094
Awning & Casement	4.00 6.38	4.8 Qlon / Double Seals on Sash 4.8 Qlon / Double Seals on Sash	27 31	27 31	ATF2098 ATF2097
Double Hung	4.00 6.38	4.8 Qlon + Fin Pile 4.8 Qlon + Fin Pile	28 31	27 31	ATF2102 ATF2103



ACOUSTICS

Wintec Aluminium Stock



Winter Aluminium sections are stocked throughout Ullrich Aluminium branches throughout Ullrich Aluminium branches Australia wide



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