



Building Products Beyond The Standards

Performance Results



Wintec Aluminium

Windows & Doors Performance Results

With modern design, utilising quality seals & hardware componentry, Wintec window & door products meet the high demands for energy efficiency & weather performance in today's market.

Some key features to consider with regard to energy efficiency include;

Economy

One important & very practical reason to select Wintec high performance windows is to reduce the annual cost of heating & cooling your home. This makes good economic sense & also contributes to the national effort to reduce the environmental impact of non-renewable energy use.

Good Sealing of Sash & Frame

Heat leaves or enters a home through gaps & cracks around sashes & frames. WERS-rated windows must satisfy Australian Standard AS 2047-1999 for air infiltration performance. Wintec windows & doors easily exceed the requirements of the Standard & achieve air leakage rates less than 0.5 litres per second per square metre of window area. Various seal types are used to help achieve these better ratings.

Structural & Water Resistance

The hollow aluminium extrusions used in Wintec windows & doors not only aid in their energy efficiency, but they give superior performance in water penetration resistance & structural rigidity. In addition, Wintec windows & doors incorporate a baffle in the drainage system that allows water to flow out but restricts air flowing through the window or door frame. Therefore reducing the energy loss normally encountered through drain holes. The Difference between a window that just meets AS 2047 (5 L/s.m² air infiltration) & a Wintec window is approximately half a heating star. The effect on cooling performance is much less.

Contact us for the right choice in Energy efficient Windows & Doors for your next project.

100mm Sliding Window

Water penetration resistance of 300Pa. Sash heights up to 1.5m. Single glazed up to 12mm thickness.

100mm Awning Window

Water penetration resistance up to 1100Pa. Single & Double glazing up to 18mm thickness.

Summit Awning

Water penetration resistance of 600Pa. Sash weight to 136kg. Single & double glazing up to 25mm thickness. High strength alloy for use in cyclonic areas.

Summit Casement

Ultimate strength pressure up to 3300Pa. Sash weight to 43kg. Single & double glazing up to 25mm thickness. Water penetration resistance of 600Pa. High strength alloy for use in cyclonic areas.

Summit Sliding Door

Sash heights in excess of 3.0m, water penetration resistance 550Pa. High strength alloy for use in cyclonic areas. Single glazing up to 10mm thickness. Heavy duty rollers capable of carrying 180kg.

Triple 1 Hinged Door

Sash heights to 3.0m. Single & double glazing up to 16mm thickness. Sash weight to 80kg. Outward & inward opening. Fully adjustable lift off hinges for ease of fitting & adjustment.

Multi-Track 200 Sliding Door

Triple sliding door with 300Pa water penetration resistance. Sash heights up to 2.7m. Single & double glazing up to 18mm thickness. Heavy duty rollers capable of carrying 180kg.

Winfold Bi-Folding Door

Sash heights to 3.0m, water penetration resistance up to 300Pa. Single & double glazing up to 16mm thickness. Available outward & inward opening. All hinges & running gear are stainless steel.

WERS Certified En

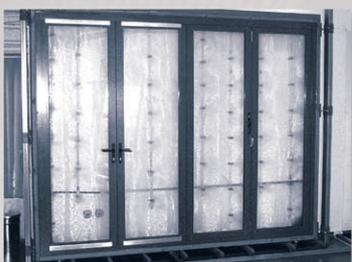
Wintec Aluminium						Cool %	Heat %	Total Window - NFRC			
Updated - 19-May-09								Uw	SHGC	Tvw	Air Inf.
Window ID	Glazing	Cooling Stars	Heating Stars								
48mm Aluminium Sliding Window - Single Glazed											
WAS-001-01	3Clr	☆	☆☆☆	8%	18%	6.5	0.77	0.79	0.13		
WAS-001-02	4Clr	☆	☆☆☆	10%	18%	6.4	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	☆	☆☆☆	13%	19%	6.3	0.72	0.78	0.13		
WAS-001-05	6.38CP	☆☆☆	☆☆☆☆☆	46%	30%	4.5	0.46	0.52	0.13		
48mm Direct Aluminium Sliding Window - Double Glazed											
WAS-002-01	3/6/3	☆☆	☆☆☆☆☆	29%	46%	4.0	0.68	0.71	0.13		
48mm Aluminium Sliding Window - Double Glazed											
WAS-003-01	4/8/4	☆☆	☆☆☆☆☆	35%	43%	4.1	0.62	0.66	0.13		
WAS-003-02	4EG/8/4	☆☆☆☆☆	☆☆☆☆☆	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 Aluminium Sliding Window - Double Glazed											
WAS-004-01	4/8/4	☆☆	☆☆☆☆☆	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	☆☆☆☆	☆☆☆☆	59%	37%	3.3	0.35	0.50	0.78		
Aluminium Sliding Door - Single Glazed											
WAS-005-01	6.38DLam	☆	☆☆☆	15%	22%	6.0	0.72	0.78	0.76		
WAS-005-02	6.38DLamGy	☆☆	☆☆☆	31%	16%	6.0	0.55	0.39	0.76		
WAS-005-03	6.38CP	☆☆☆	☆☆☆☆☆	48%	34%	4.2	0.45	0.52	0.76		
Aluminium Sliding Door - Double Glazed											
WAS-006-01	4/10/4	☆☆	☆☆☆☆☆	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 Awning Window - Double Glazed											
WAS-007-01	4/8/4	☆☆☆	☆☆☆☆☆	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 Casement Window - Double Glazed											
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 Double Hung Window - Double Glazed											
WAS-009-01	4/8/4	☆☆	☆☆☆☆☆	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 Fixed Window - Single Glazed											
WAS-010-01	3Clr	☆	☆☆☆	6%	27%	6.0	0.80	0.83	0.00		
WAS-010-02	4Clr	☆	☆☆☆	8%	27%	5.9	0.78	0.82	0.00		

Energy Performance

WAS-010-03	4EG	★★	★★★☆☆	33%	16%	5.9	0.53	0.68	0.00
WAS-010-04	6.38DLam	☆	★★★★	12%	27%	5.8	0.75	0.82	0.00
WAS-010-05	6.38CP	★★★	★★★★★	48%	39%	3.9	0.47	0.54	0.00
48mm Aluminium Awning Window - Single Glazed									
WAS-011-01	3Clr	★	★★★★☆	21%	33%	6.4	0.65	0.65	0.29
WAS-011-02	4EG	★★	★★★★	38%	24%	6.4	0.44	0.54	0.29
WAS-011-03	4Gn	★★	★★★★☆	32%	28%	6.4	0.51	0.59	0.29
WAS-011-04	4Gy	★★	★★★★☆	34%	27%	6.4	0.49	0.40	0.29
WAS-011-05	5Clr	★	★★★★☆	23%	33%	6.4	0.62	0.65	0.29
WAS-011-06	5EG	★★	★★★★	38%	24%	6.4	0.44	0.53	0.29
WAS-011-07	5Gy	★★	★★★★	36%	26%	6.4	0.47	0.37	0.29
WAS-011-08	6.38CP	★★★	★★★★★☆☆	48%	43%	4.8	0.40	0.43	0.29
WAS-011-09	6.38DLam	★☆☆	★★★★☆	26%	33%	6.3	0.60	0.64	0.29
WAS-011-10	6EG	★★☆☆	★★★★	41%	23%	6.3	0.40	0.48	0.29
WAS-011-11	6SnClr	★★☆☆	★★★★★☆☆	43%	41%	5.2	0.45	0.49	0.29
WAS-011-12	6SnGn	★★★☆☆	★★★★★	51%	34%	5.2	0.33	0.41	0.29
Aluminium Double Hung Window - Single Glazed									
WAS-012-01	4Gn	★☆☆	★★★	27%	8%	6.4	0.58	0.69	3.57
WAS-012-02	4Gy	★	★★★	19%	12%	6.4	0.66	0.47	3.57
WAS-012-03	5Clr	☆☆	★★★☆☆	14%	15%	6.3	0.71	0.75	3.57
WAS-012-04	5Gy	★☆☆	★★☆☆	31%	7%	6.3	0.53	0.42	3.57
WAS-012-05	6.38DLam	★	★★★☆☆	18%	15%	6.2	0.68	0.75	3.57
WAS-012-06	6.38CP	★★★	★★★★	47%	26%	4.5	0.44	0.50	3.57
WAS-012-07	6SnClr	★★☆☆	★★★★	40%	25%	4.9	0.51	0.57	3.57
WAS-012-08	6SnGn	★★★	★★★☆☆	49%	21%	4.7	0.40	0.48	3.57

NOTES

1. U_w is the whole window U-value
2. SHGC_w is the whole window solar heat gain coefficient
3. T_{vw} is the whole window visible (light) transmittance
4. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear 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.



Summit Awning

The New Summit Awning & Casement windows continue the trend of larger & larger windows, 2100 x 1500 awning in a single sash, 2100 x 1000 casement in a single sash. Single & double glazed up to 24mm thick.

Testing has produced the usual high performance results you would expect from the Wintec Summit suite of products.

- Water penetration resistance – 600Pa
- Air infiltration – 0.07l/s/m²
- Ultimate strength – 3300Pa
- Rw (CT, CTR) – 34 (-1, -2) with 10.38mm laminate
- Rw (CT, CTR) – 32 (-1, -2) with 6.38mm laminate
- Uw – 6.685, SHGCw – 0.471 with 6mm clear
- Uw – 5.670, SHGCw – 0.315 with 6.38mm ComfortPlus
- Uw – 4.383, SHGCw – 0.222 with 6mm SuperGreen/12mm air/6mm EnergyTech
- Uw – 4.761, SHGCw – 0.249 with 6mm SuperGreen/12mm air/6mm clear



• **Summit** Awning & Casement Windows Create Larger Views

• **Summit AW Max.**
2100 x 1500mm
136 kg Sash
600Pa Water

• **Summit CA Max.**
2100 x 1000mm
43 kg Sash
600Pa Water

• **Summit** Sliding Door Heights to 3 Metres

Larger Awning & Casement Windows



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Acoustic Results

The table below is a guide to the acoustic performance of Wintec Aluminium Windows & Doors. The Rw (Weighted Sound Reduction Index) ratings are results of tests conducted at the National Acoustic Laboratory.

Product	Configuration	Sample size	Glazing	Rw (C _T ; C _{TR})	STC	OITC	Test	Test date
Sliding door	XO	2100 x 1800	10.38mm laminate	35 (-2; -3)	34	31	ATF2094	13th December 2007
Sliding door	XO	2100 x 1800	6.38mm laminate	32 (-1; -3)	32	28	ATF2095	13th December 2007
Sliding door	XO	2100 x 1800	4mm toughened	30 (-1; -3)	30	25	ATF2096	13th December 2007
48mm awning window	AA	1200 x 1800	6.38mm laminate	31 (0; -2)	31	27	ATF2097	17th December 2007
48mm awning window	AA	1200 x 1800	4mm float	27 (-1; -2)	27	24	ATF2098	17th December 2007
48mm sliding window	XO	1200 x 1800	6.38mm laminate	31 (0; -2)	31	28	ATF2099	17th December 2007
48mm sliding window	XO	1200 x 1800	6.38mm laminate	31 (0; -2)	31	28	ATF2100	17th December 2007
48mm sliding window	XO	1200 x 1800	4mm float	30 (-1; -3)	29	25	ATF2101	17th December 2007
Double hung	DD	1200 x 1800	4mm float	28 (-1; -2)	27	25	ATF2102	18th December 2007
Double hung	DD	1200 x 1800	6.38mm laminate	31 (-1; -2)	31	27	ATF2103	18th December 2007
48mm awning window	AA	1200 x 1800	6.38mm laminate	32 (0; -1)	32	29	ATF2104	18th December 2007
48mm awning window	AA	1200 x 1800	6.38mm/6mm air/6.38mm	34 (-1; -3)	34	30	4201-1	16th September 2009
48mm awning window	AA	1200 x 1800	12.38mm laminate	35 (-1; -3)	35	31	4201-2	16th September 2009
48mm sliding window	XO	1200 x 1800	10.38mm laminate	31 (0; -2)	31	29	4201-3	16th September 2009
100mm awning window	AA	1200 x 1800	6.38mm laminate	32 (-1; -2)	32	28	4201-4	16th September 2009
100mm awning window	AA	1200 x 1800	10.38mm laminate	35 (-1; -3)	35	31	4201-5	16th September 2009
100mm sliding window	XO	1200 x 1800	10.38mm laminate	33 (-1; -2)	33	29	4201-6	16th September 2009
Summit sliding door	XO	2100 x 2100	10.38mm laminate	34 (-1; -3)	34	29	4201-7	6th October 2009
Summit sliding door	XO	2100 x 2100	6.38mm laminate	32 (-1; -3)	32	27	4201-8	6th October 2009
Triple 1 door	DF	2100 x 2100	12.38mm laminate	33 (-1; -2)	33	30	4201-9	6th October 2009
Summit awning	AF	2100 x 2100	10.38mm laminate	34 (-1; -2)	34	31	4201-10	6th October 2009
Summit awning	AF	2100 x 2100	6.38mm laminate	32 (-1; -2)	32	29	4201-11	6th October 2009

Care & Maintenance Warranty

Wintec Aluminium is a member of the Australian Window Association & as such conforms to an Industry Code of Conduct designed to protect consumers.

Wintec Aluminium is inspected by 3rd party NATA accredited auditors to validate that the window & door products examined have been manufactured to the relevant Australian Standards & the legislation requirements of the Australian Building Code.

7 YEAR GUARANTEE This guarantee is in addition to all other rights & remedies in respect of these products which you are entitled to under the Trade Practices Act & other similar State & Territory laws & should be read in addition to any guarantees provided specific to the company of issue.

Wintec Aluminium windows & doors are proudly guaranteed against defects arising from faulty workmanship or materials for a period of seven (7) years from the date of delivery by Wintec Aluminium, subject to the following.

- The product is installed & maintained in accordance with the relevant Australian Standards & recognized building practices.
- The product has not been subject to misuse, physical abuse or neglect.
- Only service work carried out by Wintec Aluminium personnel or authorized Wintec Aluminium agents is covered by this guarantee.
- Claims under this guarantee should be made within one month of the defect arising in the product.

