

AN ULLRICH ALUMINIUM COMPANY

# 2017

PERFORMANCE  
RESULTS

*"Building products beyond the standards"*

# 2014 WERS CERTIFIED PRODUCTS DIRECTORY - AFRC

1. Uw is the whole window U-value; SHGCw is the whole window solar heat gain coefficient; Tvw is the whole window visible (light) transmittance.
2. Percentage improvement figures are compared with using base-case Generic Window 1 (3mm clear in standard aluminium frame). A negative percentage improvement figure indicates performance worse than the base-case window and a positive percentage improvement figure indicates performance better than the base-case window.
3. Maximum air infiltration is 5L/s.m<sup>2</sup> at a positive pressure difference of 75 Pa as measured according to AS 2047.
4. Static performance (Uw SHGCw Tvw Tdw) calculated using Window 6.3 and Therm 6.3 software (LBNL), 1999-2010.
5. Annual energy performance (stars and % improvements) calculated using Nationwide House Energy Rating Software (AccuRate) according to procedures of WERS 2008. Star rating is based on a 10 star scale.
6. Results disclosed at Australian Fenestration Rating Council (AFRC) regulations.
7. Products performance is based on products excluding reveals unless "with In-Line Reveal" is included in the product description.

WINDOW ID	GLAZING	COOLING STARS	HEATING STARS	COOL %	HEAT %	TOTAL WINDOW - AFRC				
						Uw	SHGC	Tvw	Air Inf	
FRASER 48mm Single Glazed Sliding Window										
WAS-001-01	3mm Clear	↓	★★★↓	8%	18%	6.5	0.77	0.79	0.1	
WAS-001-02	4mm Clear	↓	★★★↓	10%	18%	6.4	0.75	0.78	0.1	
WAS-001-03	4mm Evergreen	★★	★★	32%	8%	6.4	0.51	0.65	0.1	
WAS-001-04	6.38mm Clear Laminate	↓	★★★↓	13%	19%	6.3	0.72	0.78	0.1	
WAS-001-05	6.38mm ComfortPlus Neutral	★★★★	★★★★↓	46%	30%	4.5	0.46	0.52	0.1	
WAS-001-06	4mm Grey	★★↓	★★	26%	13%	6.4	0.59	0.49	0.1	
WAS-001-07	6mm Evantage Clear	★★	★★★★↓	36%	34%	4.7	0.57	0.6	0.1	
WAS-001-08	6mm Evantage Supergreen	★★★★↓	★★★	53%	22%	4.7	0.34	0.43	0.1	
WAS-001-09	6mm Evantage Grey	★★★★↓	★★★	51%	24%	4.7	0.37	0.28	0.1	
WAS-001-10	6mm Evantage Blue Green	★★★★	★★★	48%	26%	4.7	0.41	0.5	0.1	
WAS-001-11	6.38mm ComfortPlus Clear	★★	★★★★★	33%	38%	4.5	0.61	0.72	0.1	
WAS-001-12	6.38mm ComfortPlus Grey	★★★★	★★★★↓	46%	30%	4.5	0.45	0.34	0.1	
WAS-001-13	6.38mm ComfortPlus Green	★★★★	★★★★↓	46%	31%	4.5	0.46	0.63	0.1	
FRASER 48mm Direct Double Glazed Sliding Window										
WAS-002-01	3mm Clear / 6mm Air / 3mm Clear	★★↓	★★★★★↓	29%	46%	4.0	0.68	0.71	0.1	
FRASER 48mm Double Glazed Sliding Window										
WAS-003-01	4mm Clear / 8mm Air / 4mm Clear	★★	★★★★★↓	35%	43%	4.1	0.62	0.66	0.1	
WAS-003-02	4mm Evergreen / 8mm Air / 4mm Clear	★★★★↓	★★★★↓	52%	32%	4.1	0.39	0.55	0.1	
WAS-003-03	4mm Evergreen / 10mm Air / 4mm Energy Advantage	★★★★	★★★★★	59%	37%	3.4	0.35	0.5	0.1	
FRASER 48mm Single Glazed Fixed Window										
WAS-010-01	3mm Clear	↓	★★★	6%	27%	6.0	0.80	0.83	0	
WAS-010-02	4mm Clear	↓	★★★	8%	27%	5.9	0.78	0.82	0	
WAS-010-03	4mm Evergreen	★★	★★↓	33%	16%	5.9	0.53	0.68	0	
WAS-010-04	6.38mm Clear Laminate	↓	★★★	12%	27%	5.8	0.75	0.82	0	
WAS-010-05	6.38mm ComfortPlus Neutral	★★★★	★★★★★	48%	39%	3.9	0.47	0.54	0	
FRASER 65mm Single Glazed Sliding Window										
WAS-016-01	6.38mm ComfortPlus Grey	★★★★	★★★	47%	27%	4.6	0.43	0.33	1	
WAS-016-02	6.38mm ComfortPlus Neutral	★★★★	★★★	46%	28%	4.6	0.45	0.5	1	
WAS-016-03	6.38mm ComfortPlus Green	★★★★	★★★	47%	28%	4.6	0.44	0.6	1	
WAS-016-04	6.38mm ComfortPlus Clear	★★	★★★★★	35%	35%	4.6	0.59	0.69	1	
WAS-016-05	6.38mm Grey Laminate	★★	★★	32%	10%	6.3	0.53	0.35	1	
WAS-016-06	6mm EnergyTech	★★	★★★★★	34%	36%	4.6	0.60	0.69	1	
WAS-016-07	6mm EnergyTech Grey	★★★★	★★★	48%	25%	4.6	0.41	0.34	1	
WAS-016-08	6mm Grey	★★	★★	33%	8%	6.3	0.50	0.35	1	
WAS-016-09	6mm Green	★★↓	★★	31%	9%	6.3	0.53	0.65	1	
WAS-016-10	6mm Clear	↓	★★★↓	15%	17%	6.3	0.70	0.75	1	

WINDOW ID	GLAZING	COOLING STARS	HEATING STARS	COOL %	HEAT %	TOTAL WINDOW - AFRC			
						UW	SHGC	T <sub>vw</sub>	Air Inf
FLINDERS Double Glazed Sliding Window									
WAS-004-01	4mm Clear / 8mm Air / 4mm Clear	★★	★★★★★	35%	43%	4.0	0.62	0.66	0.8
WAS-004-02	4mm Evergreen / 8mm Air / 4mm Clear	★★★★	★★★★	52%	32%	4.0	0.39	0.55	0.8
WAS-004-03	4mm Evergreen / 10mm Air / 4mm Energy Advantage	★★★★★	★★★★★	59%	37%	3.3	0.35	0.5	0.8
WAS-004-04	4mm Clear / 8mm Argon / 4mm Clear	★★	★★★★★	34%	45%	3.9	0.63	0.66	0.8
WAS-004-05	4mm Clear / 8mm Argon / 4mm EnergyTech	★★	★★★★★	4%	51%	3.3	0.59	0.61	0.8
WAS-004-06	4mm Sunergy Clear / 8mm Argon / 4mm EnergyTech	★★★★	★★★★★	54%	43%	3.2	0.43	0.47	0.8
WAS-004-07	4mm Grey / 8mm Argon / 4mm Clear	★★★★	★★★★★	48%	37%	3.9	0.46	0.41	0.8
WAS-004-08	4mm Grey / 8mm Argon / 4mm EnergyTech	★★★★	★★★★★	54%	42%	3.3	0.42	0.38	0.8
HUDSON Single Glazed Double Hung Window									
WAS-012-01	4mm Green	★	★★	27%	8%	6.4	0.58	0.69	3.6
WAS-012-02	4mm Grey	★	★★	19%	12%	6.4	0.66	0.47	3.6
WAS-012-03	5mm Clear	★	★★	14%	15%	6.3	0.71	0.75	3.6
WAS-012-04	5mm Grey	★★	★	31%	7%	6.3	0.53	0.42	3.6
WAS-012-05	6.38mm clear Laminate	★	★★	18%	15%	6.2	0.68	0.75	3.6
WAS-012-06	6.38mm ComfortPlus Neutral	★★★	★★★	47%	26%	4.5	0.44	0.5	3.6
WAS-012-07	6mm Sunergy Clear	★★	★★★	40%	25%	4.9	0.51	0.57	3.6
WAS-012-08	6mm Sunergy Green	★★★	★★	49%	21%	4.7	0.40	0.48	3.6
WAS-012-09	6.38mm ComfortPlus Grey	★★★	★★★	47%	25%	4.5	0.43	0.33	3.6
WAS-012-10	6.38mm ComfortPlus Green	★★★	★★★	47%	26%	4.5	0.44	0.6	3.6
WAS-012-11	6.38mm ComfortPlus Clear	★★	★★★★	35%	33%	4.5	0.59	0.69	3.6
WAS-012-12	6mm Evantage Blue Green	★★★	★★	49%	21%	4.7	0.39	0.48	3.6
WAS-012-13	6mm Evantage Blue Grey	★★★★	★★	51%	19%	4.7	0.36	0.27	3.6
WAS-012-14	6mm Evantage Supergreen	★★★★	★★	53%	17%	4.7	0.32	0.41	3.6
WAS-012-15	6mm Evantage Clear	★★	★★★★	38%	30%	4.6	0.54	0.58	3.6
HUDSON Double Glazed Double Hung Window									
WAS-009-01	4mm Clear / 8mm Air / 4mm Clear	★★	★★★★	37%	34%	4.4	0.57	0.61	3.6
WAS-009-02	4mm Evergreen / 8mm Air / 4mm Air	★★★★	★★★	52%	23%	4.4	0.36	0.5	3.6
WAS-009-03	4mm Evergreen / 10mm Air / 4mm Energy Advantage	★★★★★	★★★	58%	28%	3.8	0.32	0.46	3.6
CASUARINA Double Glazed Fixed Window									
WAS-014-01	4mm Clear / 14mm Argon / 4mm Clear	★★	★★★★★	34%	57%	3.1	0.68	0.72	0
WAS-014-02	4mm Grey / 14mm Argon / 4mm Clear	★★★	★★★★★	49%	49%	3.1	0.50	0.45	0
WAS-014-03	4mm Clear / 14mm Argon / 4mm EnergyTech	★★	★★★★★	4%	64%	2.3	0.64	0.67	0
WAS-014-04	4mm Grey / 14mm Argon / 4mm EnergyTech	★★★★	★★★★★	57%	55%	2.3	0.45	0.41	0
WAS-014-05	5mm Clear / 12mm Argon / 4mm EnergyTech	★★	★★★★★	37%	56%	3.1	0.65	0.71	0
WAS-014-06	5mm Grey / 12mm Argon / 5mm Clear	★★★★	★★★★★	53%	46%	3.1	0.45	0.38	0
WAS-014-07	4mm Clear / 12mm Argon / 6mm EnergyTech	★★	★★★★★	42%	64%	2.3	0.64	0.66	0
WAS-014-08	4mm Grey / 12mm Argon / 6mm EnergyTech	★★★★	★★★★★	57%	55%	2.3	0.45	0.41	0
WAS-014-09	6mm Clear / 12mm Argon / 4mm Clear	★★	★★★★★	37%	56%	3.1	0.65	0.71	0
WAS-014-10	6mm Grey / 12mm Argon / 4mm Clear	★★★★	★★★★★	55%	45%	3.1	0.42	0.33	0
WAS-014-11	6mm Clear / 12mm Argon / 4mm EnergyTech	★★	★★★★★	44%	63%	2.3	0.61	0.66	0
WAS-014-12	6mm Grey / 12mm Argon / 4mm EnergyTech	★★★★	★★★★★	63%	50%	2.3	0.36	0.31	0
WAS-014-13	6.38mm ComfortPlus Grey / 12mm Air / 4mm Clear	★★★★	★★★★★	60%	49%	2.5	0.38	0.31	0
WAS-014-14	6.38mm ComfortPlus Neutral / 12mm Air / 4mm Clear	★★★★	★★★★★	59%	50%	2.5	0.40	0.47	0
WAS-014-15	6.38mm ComfortPlus Green / 12mm Air / 4mm Clear	★★★★	★★★★★	61%	52%	2.3	0.39	0.57	0
WAS-014-16	6.38mm ComfortPlus Clear / 12mm Air / 4mm Clear	★★★	★★★★★	48%	58%	2.5	0.55	0.66	0
WAS-014-17	6.38mm ComfortPlus Clear / 12mm Argon / 4mm Clear	★★★	★★★★★	49%	60%	2.3	0.55	0.66	0
WAS-014-18	4mm Clear / 14mm Argon / 4mm Lightbridge	★★★★	★★★★★	52%	61%	2.1	0.52	0.71	0
WAS-014-19	5mm Clear / 12mm Argon / 5mm Lightbridge	★★★★	★★★★★	64%	53%	2.1	0.37	0.44	0
WAS-014-20	4mm Grey / 14mm Argon / 4mm Lightbridge	★★★★	★★★★★	53%	61%	2.1	0.52	0.7	0
WAS-014-21	5mm Grey / 12mm Argon / 5mm Lightbridge	★★★★★	★★★★★	66%	51%	2.1	0.33	0.37	0
WAS-014-22	Viridian Lightbridge Grey Privacy SI 7.38/14/4	★★★★★	★★★★★	69%	48%	2.1	0.29	0.33	0
WAS-014-23	Viridian Lightbridge Grey Privacy SI 7.38/12/5	★★★★★	★★★★★	69%	49%	2.1	0.29	0.33	0
WAS-014-24	Viridian Lightbridge Clear Privacy SI 6.38/14/4	★★★★	★★★★★	62%	54%	2.1	0.39	0.52	0
WAS-014-25	Viridian Lightbridge Clear Privacy SI 6.38/12/5	★★★★	★★★★★	62%	54%	2.1	0.39	0.52	0
CASUARINA 22mm Double Glazed Awning Window									
WAS-015-01	4mm Clear / 14mm Argon / 4mm Clear	★★	★★★★★	40%	63%	3.9	0.57	0.58	0
WAS-015-02	4mm Grey / 14mm Argon / 4mm Clear	★★★★	★★★★★	51%	55%	3.9	0.42	0.36	0
WAS-015-03	4mm Clear / 14mm Argon / 4mm EnergyTech	★★★	★★★★★	46%	68%	3.3	0.53	0.54	0
WAS-015-04	4mm Grey / 14mm Argon / 4mm EnergyTech	★★★★	★★★★★	57%	60%	3.3	0.38	0.33	0
WAS-015-05	5mm Clear / 12mm Argon / 5mm Clear	★★	★★★★★	42%	62%	3.9	0.54	0.57	0
WAS-015-06	5mm Grey / 12mm Argon / 5mm Clear	★★★★	★★★★★	54%	53%	3.9	0.38	0.31	0
WAS-015-07	4mm Clear / 12mm Argon / 6mm EnergyTech	★★★	★★★★★	46%	68%	3.3	0.53	0.53	0
WAS-015-08	4mm Grey / 12mm Argon / 6mm EnergyTech	★★★★	★★★★★	57%	60%	3.3	0.38	0.33	0
WAS-015-09	6mm Clear / 12mm Argon / 4mm Clear	★★	★★★★★	42%	62%	3.9	0.54	0.57	0
WAS-015-10	6mm Grey / 12mm Argon / 4mm Clear	★★★★	★★★★★	56%	52%	3.9	0.36	0.27	0

WINDOW ID	GLAZING	COOLING STARS	HEATING STARS	COOL %	HEAT %	TOTAL WINDOW - AFRC			
						Uw	SHGC	T <sub>vw</sub>	Air Inf
CASUARINA 22mm Double Glazed Awning Window									
WAS-015-11	6mm Clear / 12mm Argon / 4mm EnergyTech	★★★	★★★★★★↓	48%	67%	3.3	0.51	0.53	0.0
WAS-015-12	6mm Grey / 12mm Argon / 4mm EnergyTech	★★★★↓	★★★★★★↓	62%	56%	3.3	0.31	0.25	0.0
WAS-015-13	6.38mm ComfortPlus Grey / 12mm Air / 4mm Clear	★★★★	★★★★★★↓	60%	55%	3.4	0.33	0.25	0.0
WAS-015-14	6.38mm ComfortPlus Grey / 12mm Argon / 4mm Clear	★★★★↓	★★★★★★↓	61%	57%	3.3	0.32	0.25	0.0
WAS-015-15	6.38mm ComfortPlus Neutral/ 12mm Air / 4mm Clear	★★★★	★★★★★★↓	59%	56%	3.4	0.34	0.38	0.0
WAS-015-16	6.38mm ComfortPlus Neutral / 12mm Argon / 4mm Clear	★★★★	★★★★★★↓	60%	58%	3.3	0.34	0.38	0.0
WAS-015-17	6.38mm ComfortPlus Green / 12mm Air / 4mm Clear	★★★★	★★★★★★↓	59%	56%	3.4	0.33	0.46	0.0
WAS-015-18	6.38mm ComfortPlus Green / 12mm Argon / 4mm Clear	★★★★↓	★★★★★★↓	60%	57%	3.3	0.33	0.46	0.0
WAS-015-19	6.38mm ComfortPlus Clear / 12mm Air / 4mm Clear	★★★★↓	★★★★★★	50%	63%	3.4	0.46	0.53	0.0
WAS-015-20	6.38mm ComfortPlus Clear / 12mm Argon / 4mm Clear	★★★★↓	★★★★★★	51%	65%	3.3	0.46	0.53	0.0
CASUARINA 48mm Single Glazed Awning Window									
WAS-011-01	3mm Clear	★	★★★★↓	21%	33%	6.4	0.65	0.65	0.3
WAS-011-02	4mm Evergreen	★★	★★★	38%	24%	6.4	0.44	0.54	0.3
WAS-011-03	4mm Green	★★	★★★★↓	32%	28%	6.4	0.51	0.59	0.3
WAS-011-04	4mm Grey	★★	★★★★↓	34%	27%	6.4	0.49	0.4	0.3
WAS-011-05	5mm Clear	★	★★★★↓	23%	33%	6.4	0.62	0.65	0.3
WAS-011-06	5mm Evergreen	★★	★★★	38%	24%	6.4	0.44	0.53	0.3
WAS-011-07	5mm Grey	★★	★★★	36%	26%	6.4	0.47	0.37	0.3
WAS-011-08	6.38mm ComfortPlus Neutral	★★★★	★★★★★★↓	48%	43%	4.8	0.40	0.43	0.3
WAS-011-09	6.38mm Clear Laminate	★↓	★★★★	26%	33%	6.3	0.60	0.64	0.3
WAS-011-10	6mm Evergreen	★★↓	★★★	41%	23%	6.3	0.40	0.48	0.3
WAS-011-11	6mm Sunergy Clear	★★↓	★★★★★★↓	43%	41%	5.2	0.45	0.49	0.3
WAS-011-12	6mm Sunergy Green	★★★★↓	★★★★	51%	34%	5.2	0.33	0.41	0.3
WAS-011-13	6.38mm ComfortPlus Grey	★★★★	★★★★★★↓	49%	43%	4.7	0.39	0.28	0.3
WAS-011-14	6.38mm ComfortPlus Green	★★★★	★★★★★★↓	49%	44%	4.7	0.4	0.52	0.3
WAS-011-15	6.38mm ComfortPlus Clear	★★↓	★★★★★★	40%	50%	4.7	0.52	0.6	0.3
WAS-011-16	6mm Evantage Blue Green	★★★★↓	★★★★	51%	40%	4.9	0.36	0.41	0.3
WAS-011-17	6mm Evantage Grey	★★★★↓	★★★★	53%	38%	4.9	0.33	0.23	0.3
WAS-011-18	6mm Evantage Clear	★★↓	★★★★★★↓	42%	46%	4.9	0.48	0.5	0.3
WAS-011-19	6mm Evantage Supergreen	★★★★↓	★★★★	54%	36%	4.9	0.3	0.36	0.3
CASUARINA Double Glazed Awning Window									
WAS-007-01	4mm Clear / 8mm Air / 4mm Clear	★★↓	★★★★★★↓	39%	57%	4.3	0.56	0.58	0.3
WAS-007-02	4mm Evergreen / 8mm Air / 4mm Air	★★★★↓	★★★★★★↓	53%	47%	4.3	0.36	0.48	0.3
WAS-007-03	4mm Evergreen / 10mm Air / 4mm Energy Advantage	★★★★	★★★★★★	59%	52%	3.7	0.32	0.44	0.3
WAS-007-04	4mm Clear / 10mm Argon / 4mm Clear	★★↓	★★★★★★	40%	61%	4	0.56	0.58	0.3
WAS-007-05	4mm Clear / 10mm Argon / 4mm EnergyTech	★★★★	★★★★★★	46%	67%	3.4	0.53	0.54	0.3
WAS-007-06	Viridian Lightbridge Clear SO 4/10/4	★★★★↓	★★★★★★	53%	64%	3.2	0.44	0.57	0.3
WAS-007-07	Viridian Lightbridge Grey SO 4/10/4	★★★★↓	★★★★★★↓	62%	57%	3.2	0.31	0.35	0.3
WAS-007-08	Viridian Lightbridge Clear SO 5/8/5	★★★★↓	★★★★★★	53%	62%	3.3	0.43	0.56	0.3
WAS-007-09	Viridian Lightbridge Grey SO 5/8/5	★★★★↓	★★★★★★	63%	54%	3.3	0.29	0.3	0.3
WAS-007-10	Viridian Lightbridge Clear SO 4/8/4	★★★★↓	★★★★★★	53%	62%	3.3	0.44	0.57	0.3
WAS-007-11	Viridian Lightbridge Grey SO 4/8/4	★★★★↓	★★★★★★↓	61%	55%	3.3	0.32	0.35	0.3
WAS-007-12	Viridian Lightbridge Grey Privacy SI 7.38/8/4	★★★★★	★★★★★★	65%	52%	3.3	0.26	0.27	0.3
WAS-007-13	Viridian Lightbridge Clear Privacy SI 6.38/8/4	★★★★	★★★★★★↓	60%	57%	3.3	0.33	0.42	0.3
WAS-007-14	Viridian Lightbridge Grey Privacy SI 7.38/6/5	★★★★↓	★★★★★★	63%	50%	3.5	0.26	0.27	0.3
WAS-007-15	Viridian Lightbridge Clear Privacy SI 6.38/6/5	★★★★	★★★★★★↓	58%	55%	3.5	0.34	0.42	0.3
WAS-007-16	Viridian Lightbridge Grey Privacy SI 7.38/6/4	★★★★↓	★★★★★★	64%	50%	3.5	0.26	0.27	0.3
WAS-007-17	Viridian Lightbridge Clear Privacy SI 6.38/6/4	★★★★	★★★★★★	59%	54%	3.5	0.34	0.42	0.3
WHITSUNDAY Single Glazed Awning Window									
WAS-017-01	6.38mm ComfortPlus Grey	★★★★↓	★★★	52%	25%	5.6	0.28	0.18	1
WAS-017-02	6.38mm ComfortPlus Neutral	★★★★↓	★★★	52%	26%	5.6	0.29	0.27	1
WAS-017-03	6.38mm ComfortPlus Green	★★★★↓	★★★	52%	26%	5.6	0.29	0.33	1
WAS-017-04	6.38mm ComfortPlus Clear	★★★★	★★★★↓	47%	31%	5.6	0.37	0.38	1
WAS-017-05	6.38mm Grey Laminate	★★★★	★★↓	45%	17%	6.4	0.33	0.19	1
WAS-017-06	6.38mm Clear Laminate	★★↓	★★★	39%	21%	6.4	0.41	0.41	1
WAS-017-07	6mm EnergyTech	★★↓	★★★	40%	21%	6.4	0.4	0.38	1
WAS-017-08	6mm EnergyTech Grey	★★★★↓	★★★	53%	24%	5.6	0.27	0.19	1
WAS-017-09	6mm Grey	★★★★	★★↓	46%	16%	6.4	0.32	0.19	1
WAS-017-10	4mm EnergyTech	★★★★	★★★★↓	45%	31%	5.6	0.38	0.38	1
WAS-017-11	4mm Grey	★★↓	★★↓	43%	17%	6.5	0.36	0.26	1
WHITSUNDAY Double Glazed Awning Window									
WAS-018-01	Viridian Lightbridge Grey Privacy SI 7.38/12/5	★★★★★	★★★★	65%	36%	4.2	0.19	0.17	1
WAS-018-02	Viridian Lightbridge Clear SO 5/14/5	★★★★	★★★★★★↓	57%	44%	4.2	0.31	0.36	1
WAS-018-03	Viridian Lightbridge Grey SO 5/14/5	★★★★↓	★★★★★★	64%	37%	4.2	0.21	0.19	1
WAS-018-04	6mm Clear / 12mm Air / 6mm Clear	★★★★	★★★★★★↓	50%	41%	4.8	0.37	0.36	1



WINDOW ID	GLAZING	COOLING STARS	HEATING STARS	COOL %	HEAT %	TOTAL WINDOW - AFRC				
						UW	SHGC	T <sub>wv</sub>	Air Inf	
WHITSUNDAY Double Glazed Awning Window										
WAS-018-05	6mm Clear / 12mm Argon / 6mm Clear	★★★★	★★★★★	50%	42%	4.7	0.37	0.36	1	
WAS-018-06	6mm Clear / 12mm Air / 6mm EnergyTech	★★★★	★★★★★	53%	44%	4.4	0.35	0.34	1	
WAS-018-07	6mm Clear / 12mm Argon / 6mm EnergyTech	★★★★	★★★★★	53%	45%	4.3	0.36	0.34	1	
WAS-018-08	6mm Grey / 12mm Air / 6mm Clear	★★★★	★★★★	58%	34%	4.8	0.25	0.17	1	
WAS-018-08	6mm Grey / 12mm Argon / 6mm Clear	★★★★	★★★★	58%	34%	4.7	0.25	0.17	1	
WAS-018-10	Viridian Lightbridge Grey Privacy SI 6.38/12/5	★★★★↓	★★★★	61%	40%	4.2	0.24	0.27	1	
DENNISON Double Glazed Casement Window										
WAS-008-01	4mm Clear / 8mm Air / 4mm Clear	★★★↓	★★★★★↓	40%	60%	4	0.56	0.58	0.4	
WAS-008-02	4mm Evergreen / 8mm Air / 4mm Air	★★★★↓	★★★★★	55%	50%	4	0.35	0.48	0.4	
WAS-008-03	4mm Evergreen / 10mm	★★★★↓	★★★★★↓	61%	55%	3.4	0.31	0.45	0.4	
LINDEMAN Single Glazed Casement Window										
WAS-019-01	6.38mm ComfortPlus Grey	★★★★	★★★★	53%	27%	5.4	0.28	0.18	1	
WAS-019-02	6.38mm ComfortPlus Neutral	★★★★	★★★★	53%	27%	5.4	0.29	0.27	1	
WAS-019-03	6.38mm ComfortPlus Green	★★★★	★★★★	53%	27%	5.4	0.28	0.33	1	
WAS-019-04	6.38mm ComfortPlus Clear	★★★★	★★★★	47%	32%	5.4	0.36	0.38	1	
WAS-019-05	6.38mm Grey Laminate	★★★	★★★	45%	18%	6.3	0.33	0.19	1	
WAS-019-06	6.38mm Clear Laminate	★★★↓	★★★	40%	23%	6.3	0.41	0.41	1	
WAS-019-07	6mm EnergyTech	★★★↓	★★★	41%	23%	6.3	0.4	0.38	1	
WAS-019-08	6mm EnergyTech Grey	★★★★↓	★★★	54%	26%	5.5	0.26	0.19	1	
WAS-019-09	6mm Grey	★★★	★★↓	46%	17%	6.3	0.31	0.19	1	
WAS-019-10	4mm EnergyTech	★★★	★★★★↓	46%	32%	5.5	0.38	0.38	1	
WAS-019-11	4mm Grey	★★★↓	★★★	43%	19%	6.4	0.36	0.26	1	
*HAMILTON 22mm Double Glazed Sliding Door										
WAS-013-01	4mm Clear / 14mm Argon / 4mm Clear	★★	★★★★★	34%	48%	3.6	0.65	0.68	1.5	
WAS-013-02	4mm Grey / 14mm Argon / 4mm Clear	★★★	★★★★	48%	40%	3.6	0.48	0.42	1.5	
WAS-013-03	4mm Clear / 14mm Argon / 4mm EnergyTech	★★↓	★★★★★↓	41%	54%	2.9	0.61	0.63	1.5	
WAS-013-04	4mm Grey / 14mm Argon / 4mm EnergyTech	★★★★	★★★★↓	55%	46%	2.9	0.43	0.39	1.5	
WAS-013-05	5mm Clear / 12mm Argon / 5mm Clear	★★	★★★★↓	37%	47%	3.6	0.62	0.67	1.5	
WAS-013-06	5mm Grey / 12mm Argon / 5mm Clear	★★★★↓	★★★★	52%	38%	3.6	0.43	0.36	1.5	
WAS-013-07	4mm Clear / 12mm Argon / 6mm EnergyTech	★★↓	★★★★★↓	41%	55%	2.9	0.61	0.63	1.5	
WAS-013-08	4mm Grey / 12mm Argon / 6mm EnergyTech	★★★★↓	★★★★↓	55%	46%	2.9	0.43	0.39	1.5	
WAS-013-09	6mm Clear / 12mm Argon / 4mm Clear	★★	★★★★↓	36%	47%	3.6	0.62	0.68	1.5	
WAS-013-10	6mm Grey / 12mm Argon / 4mm Clear	★★★★↓	★★★★	54%	36%	3.6	0.4	0.32	1.5	
WAS-013-11	6mm Clear / 12mm Argon / 4mm EnergyTech	★★↓	★★★★★↓	43%	53%	2.9	0.58	0.63	1.5	
WAS-013-12	6mm Grey / 12mm Argon / 4mm EnergyTech	★★★★↓	★★★★	61%	41%	2.9	0.35	0.3	1.5	
WAS-013-13	Viridian Lightbridge Clear SO 1/14/4	★★★★↓	★★★★★	51%	52%	2.7	0.5	0.67	1.5	
WAS-013-14	Viridian Lightbridge Grey SO 4/14/4	★★★★↓	★★★★↓	61%	43%	2.7	0.35	0.42	1.5	
WAS-013-15	Viridian Lightbridge Clear SO 5/12/5	★★★★↓	★★★★★	51%	51%	2.7	0.5	0.67	1.5	
WAS-013-16	Viridian Lightbridge Grey SO 5/12/5	★★★★↓	★★★★↓	64%	42%	2.7	0.32	0.36	1.5	
*HAMILTON Single Glazed Sliding Door										
WAS-005-01	6.38mm Clear Laminate	★	★★★	15%	22%	6	0.72	0.78	0.8	
WAS-005-02	6.38mm Grey Laminate	★★	★★↓	31%	16%	6	0.55	0.39	0.8	
WAS-005-03	6.38mm ComfortPlus Neutral	★★★	★★★★	48%	34%	4.2	0.45	0.52	0.8	
WAS-005-04	6.38mm ComfortPlus Grey	★★★	★★★★	49%	33%	4.2	0.44	0.34	0.8	
WAS-005-05	6.38mm ComfortPlus Green	★★★	★★★★	48%	33%	4.2	0.44	0.62	0.8	
WAS-005-06	6.38mm ComfortPlus Clear	★★	★★★★	36%	41%	4.2	0.6	0.72	0.8	
WAS-005-07	6mm Eantage Blue Green	★★★★↓	★★★★↓	50%	28%	4.4	0.4	0.49	0.8	
WAS-005-08	6mm Eantage Grey	★★★★↓	★★★	53%	26%	4.4	0.36	0.28	0.8	
WAS-005-09	6mm Eantage Supergreen	★★★★↓	★★★	55%	24%	4.4	0.33	0.43	0.8	
WAS-005-10	6mm Eantage Clear	★★↓	★★★★	38%	37%	4.4	0.56	0.6	0.8	
WAS-005-11	5mm Grey	★★	★★	31%	13%	6.1	0.54	0.42	0.8	
*HAMILTON Double Glazed Sliding Door										
WAS-006-01	4mm Clear / 10mm Air / 4mm Clear	★★	★★★★↓	34%	47%	3.8	0.64	0.69	0.8	
WAS-006-02	4mm Evergreen / 10mm Air / 4mm Air	★★★★↓	★★★★	53%	35%	3.8	0.4	0.57	0.8	
WAS-006-03	4mm Evergreen / 10mm Air / 4mm Energy Advantage	★★★★	★★★★	59%	40%	3.2	0.36	0.53	0.8	
WAS-006-04	6.38mm ComfortPlus Neutral / 8mm Air / 4mm Clear	★★★★	★★★★	56%	40%	3.3	0.39	0.46	0.8	
WAS-006-05	4mm Clear / 10mm Argon / 4mm Clear	★★	★★★★★	33%	49%	3.7	0.65	0.69	0.8	
WAS-006-06	4mm Clear / 10mm Argon / 4mm EnergyTech	★★↓	★★★★★↓	41%	55%	3	0.61	0.64	0.8	
WAS-006-07	Viridian Lightbridge Clear SO 4/10/4	★★★★↓	★★★★★	51%	52%	2.7	0.51	0.68	0.8	
WAS-006-08	Viridian Lightbridge Grey SO 4/10/4	★★★★↓	★★★★↓	61%	45%	2.7	0.36	0.42	0.8	
WAS-006-09	Viridian Lightbridge Clear SO 5/8/5	★★★★↓	★★★★★	50%	51%	2.9	0.5	0.67	0.8	
WAS-006-10	Viridian Lightbridge Grey SO 5/8/5	★★★★↓	★★★★	62%	41%	2.9	0.33	0.36	0.8	
WAS-006-11	Viridian Lightbridge Clear SO 4/8/4	★★★	★★★★★	50%	51%	2.9	0.51	0.68	0.8	
WAS-006-12	Viridian Lightbridge Grey SO 4/8/4	★★★★	★★★★↓	60%	43%	2.9	0.36	0.42	0.8	

\*Same results apply for the Brooke sliding door and the Brampton sliding door

WINDOW ID	GLAZING	COOLING STARS	HEATING STARS	COOL %	HEAT %	TOTAL WINDOW - AFRC				
						Uw	SHGC	T <sub>vw</sub>	Air Inf	
BEDARRA Single Glazed Bi-fold Door										
WAS-021-01	6.38mm ComfortPlus Grey	★★★★	★★★	53%	26%	4.4	0.36	0.27	1	
WAS-021-02	6.38mm ComfortPlus Neutral	★★★★	★★★	52%	26%	4.4	0.37	0.41	1	
WAS-021-03	6.38mm ComfortPlus Green	★★★★	★★★	52%	26%	4.4	0.37	0.5	1	
WAS-021-04	6.38mm ComfortPlus Clear	★★★★	★★★	43%	33%	4.4	0.49	0.57	1	
WAS-021-05	6.38mm Grey Laminate	★★★	★★	40%	11%	5.9	0.45	0.29	1	
WAS-021-06	6.38mm Clear Laminate	★★	★★	30%	17%	5.9	0.57	0.61	1	
WAS-021-07	6mm EnergyTech	★★	★★	33%	16%	5.8	0.54	0.57	1	
WAS-021-08	6mm EnergyTech Grey	★★★★	★★★	54%	24%	4.5	0.34	0.28	1	
WAS-021-09	6mm Grey	★★★	★★	41%	9%	5.9	0.42	0.29	1	
WAS-021-10	4mm EnergyTech	★★★	★★★	41%	33%	4.5	0.52	0.58	1	
WAS-021-11	4mm Grey	★★	★★	37%	12%	6	0.48	0.39	1	
BEDARRA Double Glazed Bi-fold Door										
WAS-022-01	Viridian Lightbridge Clear SO 4/8/4	★★★★	★★★★	54%	43%	3.2	0.42	0	1	
WAS-022-02	Viridian Lightbridge Grey SO 4/8/4	★★★★	★★★★	62%	36%	3.2	0.3	0	1	
WAS-022-03	4mm Clear / 8mm Air / 4mm Clear	★★★	★★★★	41%	39%	4.1	0.54	0	1	
WAS-022-04	4mm Clear / 8mm Argon / 4mm Clear	★★★	★★★★	42%	41%	3.9	0.54	0	1	
WAS-022-05	4mm Clear / 8mm Air / 4mm EnergyTech	★★★★	★★★★	46%	42%	3.6	0.5	0	1	
WAS-022-06	4mm Clear / 8mm Argon / 4mm EnergyTech	★★★★	★★★★	47%	45%	3.4	0.51	0	1	
WAS-022-07	4mm Grey / 8mm Air / 4mm Clear	★★★★	★★★★	51%	32%	4.1	0.41	0	1	
WAS-022-08	4mm Grey / 8mm Argon / 4mm Clear	★★★★	★★★★	52%	34%	3.9	0.4	0	1	
WAS-022-09	4mm Grey / 8mm Air / 4mm EnergyTech	★★★★	★★★★	56%	35%	3.6	0.37	0	1	
WAS-022-10	4mm Grey / 8mm Argon / 4mm EnergyTech	★★★★	★★★★	57%	38%	3.4	0.37	0	1	
ASPEN Hinged Door										
WAS-023-01	6.38mm ComfortPlus Grey	★★★★	★★★	53%	26%	4.3	0.36	0.27	1	
WAS-023-02	6.38mm ComfortPlus Neutral	★★★★	★★★	52%	27%	4.3	0.37	0.41	1	
WAS-023-03	6.38mm ComfortPlus Green	★★★★	★★★	53%	27%	4.3	0.36	0.5	1	
WAS-023-04	6.38mm ComfortPlus Clear	★★★★	★★★	44%	33%	4.3	0.49	0.57	1	
WAS-023-05	6.38mm Grey Laminate	★★★	★★	40%	12%	5.8	0.44	0.29	1	
WAS-023-06	6.38mm Clear Laminate	★★	★★	31%	18%	5.8	0.56	0.61	1	
WAS-023-07	6mm EnergyTech	★★	★★	34%	17%	5.8	0.53	0.57	1	
WAS-023-08	6mm EnergyTech Grey	★★★★	★★★	54%	24%	4.4	0.34	0.28	1	
WAS-023-09	6mm Grey	★★★	★★	42%	10%	5.9	0.42	0.29	1	
WAS-023-10	4mm EnergyTech	★★★	★★★	42%	34%	4.4	0.52	0.58	1	
WAS-023-11	4mm Grey	★★	★★	37%	12%	5.9	0.48	0.39	1	
WACS Residential Size - Double Glazed										
ULL-022-01	6.38mm Clear Laminate / 12mm Argon / 6.38mm Clear Laminate	★★★	★★★★★	40%	49%	3.5	0.59	0.66	0.1	
ULL-022-02	6.38mm Clear Laminate / 12mm Air / 6.38mm Clear Laminate	★★★	★★★★★	40%	48%	3.6	0.59	0.66	0.1	
ULL-022-03	6.38mm Clear Laminate / 12mm Argon / 6.38mm ComfortPlus Grey	★★★★	★★★★★	48%	54%	2.8	0.53	0.29	0.1	
ULL-022-04	6.38mm Clear Laminate / 12mm Air / 6.38mm ComfortPlus Grey	★★★★	★★★★★	48%	52%	3	0.52	0.29	0.1	
ULL-022-05	6.38mm Clear Laminate / 12mm Argon / 6.38mm ComfortPlus Neutral	★★★★	★★★★★	48%	54%	2.8	0.53	0.43	0.1	
ULL-022-06	6.38mm Clear Laminate / 12mm Air / 6.38mm ComfortPlus Neutral	★★★★	★★★★★	48%	51%	3	0.52	0.43	0.1	
ULL-022-07	6.38mm Clear Laminate / 12mm Argon / 6.38mm ComfortPlus Green	★★★★	★★★★★	48%	54%	2.8	0.54	0.53	0.1	
ULL-022-08	6.38mm Clear Laminate / 12mm Air / 6.38mm ComfortPlus Green	★★★★	★★★★★	48%	52%	3	0.53	0.53	0.1	
ULL-022-09	6.38mm Clear Laminate / 12mm Argon / 6.38mm ComfortPlus Clear	★★★★	★★★★★	46%	55%	2.8	0.56	0.61	0.1	
ULL-022-10	6.38mm Clear Laminate / 12mm Air / 6.38mm ComfortPlus Clear	★★★★	★★★★★	45%	53%	3	0.56	0.61	0.1	
ULL-022-11	6.38mm Clear Laminate / 12mm Argon / 6mm EnergyTech	★★★★	★★★★★	46%	55%	2.8	0.56	0.6	0.1	
ULL-022-12	6.38mm Clear Laminate / 12mm Air / 6mm EnergyTech	★★★★	★★★★★	45%	53%	3	0.56	0.6	0.1	

# ACOUSTIC RATINGS

PRODUCT	CONFIGURATION	SAMPLE SIZE	GLAZING	Rw(Ct;Ctr)	TEST
Fraser 48mm sliding window	XO	1200 x 1800	4mm float	30 (-1 ; -3)	ATF2101
Fraser 48mm sliding window	XO	1200 x 1800	6.38mm laminate	31 (0 ; -2)	ATF2099
Fraser 48mm sliding window	XO	1200 x 1800	6.38mm laminate	31 (0 ; -2)	ATF2100
Fraser 48mm sliding window	XO	1200 x 1800	10.38mm laminate	31 (0 ; -2)	4201-3
Fraser 100mm sliding window	XO	1200 x 1800	6.38mm laminate	31 (-1 ; -2)	ESTIMATE
Fraser 100mm sliding window	XO	1200 x 1800	10.38mm laminate	33 (-1 ; -2)	4201-6
Fraser 100mm sliding window	XO	1200 x 1800	12.38mm laminate	34 (-1 ; -2)	ESTIMATE
Hudson double hung window	DD	1200 x 1800	4mm float	28 (-1 ; -2)	ATF2102
Hudson double hung window	DD	1200 x 1800	6.38mm laminate	31 (-1 ; -2)	ATF2103
Hudson double hung window	DD	1200 x 1800	10.38mm laminate	31 (-1 ; -2)	ESTIMATE
Casuarina 48mm awning window	AA	1200 x 1800	4mm float	27 (-1 ; -2)	ATF2098
Casuarina 48mm awning window	AA	1200 x 1800	6.38mm laminate	31 (0 ; -2)	ATF2097
Casuarina 48mm awning window	AA	1200 x 1800	6.38mm laminate	32 (0 ; -1)	ATF2104
Casuarina 48mm awning window	AA	1200 x 1800	10.38mm laminate	33 (-1 ; -2)	ESTIMATE
Casuarina 48mm awning window	AA	1200 x 1800	12.38mm laminate	35 (-1 ; -3)	4201-2
Casuarina 48mm awning window	AA	1200 x 1800	6.38mm/ 6mm air/ 6.38mm	34 (-1 ; -3)	4201-1
Casuarina 100mm awning window	AA	1200 x 1800	6.38mm laminate	32 (-1 ; -2)	4201-4
Casuarina 100mm awning window	AA	1200 x 1800	10.38mm laminate	35 (-1 ; -3)	4201-5
Casuarina 100mm awning window	AA	1200 x 1800	12.38mm laminate	37 (-1 ; -2)	ESTIMATE
Whitsunday awning window	AF	2100 x 2100	6.38mm laminate	32 (-1 ; -2)	4201-11
Whitsunday awning window	AF	2100 x 2100	10.38mm laminate	34 (-1 ; -2)	4201-10
Hamilton sliding door *	XO	2100 x 1800	4mm toughened	30 (-1 ; -3)	ATF2096
Hamilton sliding door *	XO	2100 x 1800	6.38mm laminate	32 (-1 ; -3)	ATF2095
Hamilton sliding door *	XO	2100 x 1800	10.38mm laminate	35 (-2 ; -3)	ATF2094
Hamilton sliding door *	XO	2100 x 1800	12.38mm laminate	36 (-1 ; -3)	ESTIMATE
Ashmore 165mm sliding door	XO	2100 x 1800	10.76mm sound control/ 75mm air/ 6.76mm sound control	47 (-1 ; -7)	4857-12
Ashmore 165mm sliding door	XO	2100 x 1800	6.38mm laminate/ 75mm air/ 6.38mm laminate	43 (-1 ; -5)	4857-13
Macleay sliding door	XO	2100 x 2100	6.38mm laminate	32 (-1 ; -3)	4201-8
Macleay sliding door	XO	2100 x 2100	10.38mm laminate	34 (-1 ; -3)	4201-7
Aspen hinged door	DF	2100 x 2100	6.38mm laminate	-	ESTIMATE
Aspen hinged door	DF	2100 x 2100	10.38mm laminate	-	ESTIMATE
Aspen hinged door	DF	2100 x 2100	12.38mm laminate	33 (-1 ; -2)	4201-9

\*Same results apply for the Brooke sliding door and the Brampton sliding door

WITH A MODERN DESIGN THAT UTILISES QUALITY SEALS AND HARDWARE COMPONENTS, WINTEC SYSTEMS EXCEED THE HIGHEST DEMANDS FOR ENERGY EFFICIENCY AND WEATHER PERFORMANCE. KEY FEATURES TO CONSIDER WHEN CHOOSING YOUR WINDOW OR DOOR SYSTEM INCLUDE:

1. **ECONOMY:** Reduce the annual cost of heating and cooling your home by choosing one of our high performance systems. As well as making sense economically, this contributes to the national effort to reduce the environmental impact of non-renewable energy use.
2. **SASH AND FRAME SEALING:** Heat leaves or enters a home through gaps around sashes and frames. WERS rated windows must satisfy Australian Standard 2047 for air infiltration performance. Wintec Systems utilise various seal types to achieve air leakage rates less than 0.5 litres per second per square metre of window area.
3. **WATER RESISTANCE:** The hollow aluminium extrusions we use not only aid in energy efficiency, they give superior performance in water penetration resistance and structural rigidity. In addition, our products incorporate a baffle in the drainage system that allows water to flow out but restricts air flowing through the window or door frame. This technique reduces the energy loss normally encountered through drain holes. The difference between a window that just meets AS2047 (5 L/s.m<sup>2</sup> air infiltration) and a Wintec Systems window is approximately half a heating star. The effect on cooling performance is much less.
4. **COMPLIANCE:** Wintec Systems is a member of the Australian Window Association and as such, conforms to an Industry code of conduct designed to protect consumers. Wintec Systems is inspected by third party NATA accredited auditors to validate that the window and door products examined have been manufactured to the relevant Australian standards and the legislation requirements of the Australian building code.
5. **SEVEN YEAR GUARANTEE:** This guarantee is in addition to all other rights and remedies in respect of these products which you are entitled to under the trade practices act and other similar state and territory laws and should be read in addition to any guarantees provided specific to the company of issue.

Wintec Systems are proudly guaranteed against defects arising from faulty workmanship or materials for a period of seven years from the date of delivery by Wintec Systems, subject to the following:

- a) The product is installed and maintained in accordance with the relevant Australian standards and recognised building practices.
- b) The product has not been subject to misuse, physical abuse or neglect.
- c) Only service work carried out by Wintec Systems personnel or authorised Wintec Systems agents is covered by this guarantee.
- d) Claims under this guarantee should be made within one month of the defect arising in the product.

[www.wintecsystems.com.au](http://www.wintecsystems.com.au) | 07 5535 4477 | 1/34 Township Drive, Burleigh Heads, QLD, 4220

