

# 2008 WERS Certified Products Directory - NFRC



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## 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.m<sup>2</sup> 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.

08-May-08

Crane Aluminium Systems				%	%	Total Window System Values - NFRC				
Window ID	Glazing	Cooling Stars	Heating Stars			Uw	SHGCw	Tvw	Air Inf.	
<b>BST Aluminium Sliding Window - Single Glazed</b>										
CAS_001_01	3Clr	☆	★★★	10%	17%	6.5	0.75	0.77	1.3	
CAS_001_02	4EG	★★	★★	33%	6%	6.4	0.50	0.63	1.3	
CAS_001_03	4EA	★★	★★★★	32%	36%	4.6	0.62	0.70	1.3	
CAS_001_04	6.38CP	★★★	★★★	46%	28%	4.5	0.45	0.50	1.3	
<b>1C Aluminium Sliding Window - Single Glazed</b>										
CAS_003_01	3Clr	☆	★★★	8%	18%	6.4	0.76	0.78	0.9	
CAS_003_02	4EA	★★	★★★★	31%	38%	4.5	0.63	0.72	0.9	
CAS_003_03	6.38CP	★★★	★★★★☆	46%	30%	4.5	0.46	0.51	0.9	
<b>Mk7 Aluminium Sliding Window - Single/Double Glazed</b>										
CAS_004_01	3Clr	☆	★★★	9%	16%	6.5	0.75	0.77	2.1	
CAS_004_02	4EA	★★	★★★★	32%	35%	4.6	0.62	0.70	2.1	
CAS_004_03	6.38CP	★★★	★★★	46%	28%	4.5	0.45	0.50	2.1	
CAS_004_04	6.38CP/8Ar/3	★★★★	★★★★	57%	37%	3.4	0.37	0.44	2.1	
CAS_004_05	3/10/3	★★	★★★★☆	33%	42%	4.1	0.64	0.66	2.1	
CAS_004_06	3/10Ar/3EA	★★☆	★★★★★	40%	50%	3.3	0.60	0.61	2.1	
<b>Mk10 Aluminium Awning Window - Double Glazed</b>										
CAS_005_01	6.38CP/8Ar/3	★★★★	★★★★★	58%	54%	3.6	0.34	0.39	0.29	
CAS_005_02	3/10/3	★★	★★★★☆	38%	59%	4.2	0.58	0.59	0.29	
CAS_005_03	3/10Ar/3EA	★★☆	★★★★★	44%	66%	3.5	0.54	0.54	0.29	
<b>Mk15 Aluminium Awning Window - Double Glazed</b>										
CAS_006_01	6.38CP/8Ar/3	★★★★	★★★★☆	59%	55%	3.5	0.34	0.38	0.29	
CAS_006_02	3/10/3	★★☆	★★★★★	39%	62%	4.0	0.57	0.58	0.29	
CAS_006_03	3/10Ar/4EA	★★★	★★★★★	45%	67%	3.4	0.54	0.54	0.29	
<b>Aluminium Awning Window - Single Glazed</b>										
CAS_007_01	3Clr	★★☆	★★★★☆	26%	31%	6.4	0.59	0.58	0.07	
CAS_007_02	4EA	★★☆	★★★★☆	41%	45%	5.0	0.49	0.53	0.07	
CAS_007_03	6.38CP	★★★	★★★	50%	39%	5.0	0.37	0.38	0.07	
<b>9000 Series Aluminium Awning Window - Single Glazed</b>										
CAS_009_01	3Clr	★	★★★★☆	19%	29%	6.8	0.64	0.64	0.09	
CAS_009_02	4EA	★★	★★★★☆	36%	44%	5.3	0.54	0.58	0.09	
CAS_009_03	6.38CP	★★★	★★★	46%	38%	5.2	0.40	0.42	0.09	
<b>AMP Aluminium Double Hung Window - Single Glazed</b>										
CAS_010_01	3Clr	☆	★★★	13%	17%	6.2	0.73	0.75	3.4	
CAS_010_02	4EA	★★	★★★	35%	36%	4.4	0.60	0.68	3.4	
CAS_010_03	6.38CP	★★★	★★★	48%	28%	4.3	0.43	0.49	3.4	

Mk10 Aluminium Awning Window - Single Glazed									
CAS_012_01	3Clr	★	★★★★☆	20%	31%	6.6	0.65	0.65	0.29
CAS_012_02	4EA	★★	★★★★☆	37%	47%	5.0	0.54	0.59	0.29
CAS_012_03	6.38CP	★★★	★★★★	47%	41%	5.0	0.40	0.43	0.29
Mk5C Aluminium Sliding Door - Single Glazed									
CAS_016_01	5Clr	★	★★★	15%	19%	6.2	0.71	0.75	1.465
CAS_016_02	5EA	★★	★★★★	35%	39%	4.3	0.61	0.69	1.465
CAS_016_03	6.38CP	★★★	★★★★☆	48%	30%	4.3	0.43	0.49	1.465
Mk5C Aluminium Sliding Door - Double Glazed									
CAS_017_01	5/6/5	★★	★★★★	36%	39%	4.2	0.59	0.64	1.465
CAS_017_02	5EG/6/5EA	★★★★	★★★★☆	56%	31%	3.8	0.35	0.49	1.465
CAS_017_03	5/6/5EA	★★☆	★★★★☆	42%	42%	3.8	0.55	0.59	1.465
9000 Series Aluminium Awning Window - Double Glazed									
CAS_018_01	3/12/3	★★☆	★★★★☆	39%	57%	4.3	0.56	0.56	0.09
CAS_018_02	3/12Ar/4EA	★★★	★★★★★	45%	64%	3.6	0.52	0.51	0.09
CAS_018_03	6.38CP/8Ar/3	★★★★	★★★★★	58%	52%	3.8	0.33	0.37	0.09
Aluminium Casement Window - Double Glazed									
CAS_019_01	3/12/3	★★☆	★★★★☆	43%	59%	4.1	0.53	0.53	0.09
CAS_019_02	3/12Ar/4EA	★★★	★★★★★	48%	64%	3.4	0.49	0.49	0.09
CAS_019_03	6.38CP/8Ar/3	★★★★	★★★★★	60%	53%	3.6	0.31	0.35	0.09
Platinum Sliding Door - Double Glazed									
CAS_020_01	5/6/5	★	★★★★	39%	41%	3.9	0.58	0.63	2.81
CAS_020_02	6/12/6EA	★★☆	★★★★☆	44%	46%	3.3	0.55	0.59	2.81
CAS_020_03	6.38/12/6	★★★★	★★★★	58%	36%	3.3	0.36	0.42	2.81
CAS_020_04	6EG/12/6EA	★★★★☆	★★★★☆	63%	32%	3.3	0.29	0.44	2.81
Platinum Sliding Door - Single Glazed									
CAS_029_01	5Clr	★	★★★	17%	15%	6.3	0.68	0.72	2.81
CAS_029_02	5EA	★★	★★★★☆	35%	34%	4.5	0.58	0.67	2.81
CAS_029_03	6.38CP	★★★	★★★	48%	26%	4.5	0.42	0.48	2.81
CAS_029_04	5EG	★★	★★	36%	5%	6.3	0.47	0.59	2.81
CAS_029_05	5Gy	★★	★★	33%	7%	6.3	0.51	0.41	2.81
Platinum French Door: Open-out - Single Glazed									
CAS_030_01	5CI	★★☆	★★	26%	13%	6.2	0.60	0.61	1.91
CAS_030_02	5EA	★★☆	★★★★☆	40%	28%	4.8	0.52	0.56	1.91
CAS_030_03	6.38CP	★★★	★★★	50%	21%	4.7	0.38	0.40	1.91
CAS_030_04	5EG	★★☆	★★	40%	4%	6.2	0.42	0.50	1.91
CAS_030_05	5Gy	★★	★★	38%	5%	6.2	0.45	0.34	1.91
Platinum French Door: Open-out - Double Glazed									
CAS_031_01	6/12/6	★★☆	★★★★☆	43%	34%	4.3	0.51	0.53	1.91
CAS_031_02	6/12/6EA	★★★	★★★★	47%	39%	3.8	0.48	0.50	1.91
CAS_031_03	6.38CP/12/6	★★★★	★★★★☆	58%	30%	3.8	0.33	0.36	1.91
CAS_031_04	6EG/12/6EA	★★★★☆	★★★	62%	26%	3.8	0.27	0.37	1.91
Platinum Bi- Fold Door - Single Glazed									
CAS_32_01	5Clr	★★☆	★★★	26%	15%	6.1	0.60	0.61	1.371
CAS_32_02	5EA	★★☆	★★★★☆	41%	31%	4.6	0.51	0.57	1.371
CAS_32_03	6.38CP	★★★★☆	★★★	51%	23%	4.6	0.37	0.40	1.371
CAS_32_04	5EG	★★☆	★★	40%	6%	6.1	0.42	0.50	1.371
CAS_32_05	5Gy	★★☆	★★	38%	8%	6.1	0.45	0.35	1.371
Platinum Bi-Fold Door - Double Glazed									
CAS_33_01	6/12/6	★★☆	★★★★	43%	36%	4.1	0.51	0.54	1.371
CAS_33_02	6/12/6EA	★★★	★★★★	48%	41%	3.6	0.49	0.50	1.371
CAS_33_03	6.38CP/12/6	★★★★	★★★★☆	59%	32%	3.6	0.33	0.36	1.371
CAS_33_04	6EG/12/6EA	★★★★☆	★★★	63%	28%	3.6	0.27	0.37	1.371

Platinum Fixed Light - Single Glazed									
CAS_041_01	5Clr	☆	☆☆☆	12%	18%	6.4	0.73	0.77	0.22
CAS_041_02	5EA	☆☆	☆☆☆☆	32%	38%	4.5	0.63	0.72	0.22
CAS_041_03	6.38CP	☆☆☆	☆☆☆☆☆	46%	30%	4.5	0.45	0.51	0.22
CAS_041_04	5EG	☆☆	☆☆	33%	8%	6.4	0.51	0.63	0.22
CAS_041_05	5Gy	☆☆	☆☆	30%	10%	6.4	0.54	0.44	0.22
Platinum Fixed Light - Double Glazed									
CAS_42_01	6/12/6	☆☆	☆☆☆☆☆	36%	47%	3.7	0.62	0.68	0.22
CAS_42_02	6/12/6EA	☆☆☆	☆☆☆☆☆	42%	53%	3.1	0.59	0.63	0.22
CAS_42_03	6.38CP/12/6	☆☆☆☆	☆☆☆☆☆	58%	43%	3.1	0.39	0.45	0.22
CAS_42_04	6EG/12/6EA	☆☆☆☆☆	☆☆☆☆	63%	39%	3.1	0.31	0.47	0.22
Platinum Large Casement - Single Glazed									
CAS_057_01	3Clr	☆☆	☆☆☆	26%	25%	6.8	0.57	0.55	0.22
CAS_057_02	4EA	☆☆☆	☆☆☆☆	39%	38%	5.5	0.48	0.50	0.22
CAS_057_03	6.38CP	☆☆☆	☆☆☆☆☆	48%	32%	5.5	0.35	0.36	0.22
Platinum Large Casement - Double Glazed									
CAS_058_01	6/12/6	☆☆☆	☆☆☆☆☆	44%	48%	4.7	0.47	0.48	0.22
CAS_058_02	6/12/6EA	☆☆☆	☆☆☆☆☆	47%	51%	4.3	0.45	0.45	0.22
CAS_058_03	6.38CP/12/6	☆☆☆☆	☆☆☆☆☆	57%	44%	4.3	0.30	0.32	0.22
CAS_058_04	6EG/12/6EA	☆☆☆☆☆	☆☆☆☆	61%	40%	4.3	0.25	0.33	0.22
Platinum Large Awning - Single Glazed									
CAS_059_01	3Clr	☆☆	☆☆☆	24%	20%	7.1	0.57	0.55	0.81
CAS_059_02	4EA	☆☆	☆☆☆☆☆	37%	33%	5.9	0.48	0.50	0.81
CAS_059_03	6.38CP	☆☆☆	☆☆☆☆☆	46%	27%	5.8	0.36	0.36	0.81
Platinum Large Awning - Double Glazed									
CAS_060_01	6/12/6	☆☆☆	☆☆☆☆☆	43%	47%	4.8	0.47	0.48	0.81
CAS_060_02	6/12/6EA	☆☆☆	☆☆☆☆☆	47%	51%	4.3	0.45	0.45	0.81
CAS_060_03	6.38CP/12/6	☆☆☆☆	☆☆☆☆☆	57%	43%	4.3	0.30	0.32	0.81
CAS_060_04	6EG/12/6EA	☆☆☆☆☆	☆☆☆☆	60%	40%	4.3	0.25	0.33	0.81