

WERS: WINDOW ENERGY RATING SCHEME

WERS is the Window Energy Rating Scheme for windows in Australia, an independent scheme owned and managed by the Australian Window Association. Lidco's windows and door systems have been WERS rated, enabling specifiers to easily evaluate the relative energy performance of its different types of windows and doors and then make an informed decision suited to their requirements.

The window's cooling and heating performance is rated separately on a scale of 0-10 stars: the more stars the better. These ratings indicate the effect the window will have on the energy performance of the whole house.

The rating of a window is based on its U-Value and Solar Heat Gain Coefficient (SHGC) for the whole window, including glass, frame and seals.



1 U-VALUE

The U-Value is the measure of how much heat is transferred through the window. The lower the U-Value the better the insulation properties of the window – the better it is at keeping the heat or cold out.

2 Solar Heat Gain Coefficient (SHGC)

SHGC is a measure of how much solar radiation passes through the window. In a cool climate, windows which have a high SHGC allow a greater amount of solar radiation to pass through, offering free solar heating for the home.

When windows are rated under WERS they are ranked using a 10-star scale against 17 generic window types. The generic windows range from very high performance to very low performance for heating and cooling. A 10 star rating indicates the perfect window system. In reality in Australia the highest performing windows typically fall between 6 and 7 stars for heating and 4 and 5 stars for cooling.

Lidco's aluminium window and door systems fall within this range.

For more details please refer to the accompanying list of Lidco systems that have been WERS rated. For additional information about WERS visit the WERS website (www.wers.net).

2011 WERS CERTIFIED PRODUCTS DIRECTORY - AFRC

NOTES:

- 1 Uw is the whole window U-value
- 2 SHGCw is the whole window solar heat gain coefficient
- 3 Tvw 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 (Uw SHGCw Tvw Tdw) 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

Commercial System WERS Ratings



LIDCO				Cool	Heat	Total Window - NFRC Air Inf.			
Window ID	Glazing	Cooling Stars	Heating Stars	%	%	Uw	SHGC	Tvw	Air Inf.
Emporia Centre Glazed (710 System) - Single Glazed									
LID-039-01	6 Clr	☆	★★★	14%	16%	6.1	0.72	0.77	5.00
LID-039-02	6 EG	★★	★★	38%	4%	6.1	0.45	0.57	5.00
LID-039-03	6 SpGy	★★★		48%	-5%	6.1	0.30	0.07	5.00
LID-039-04	6.38 Lam	★	★★★	17%	16%	6.1	0.70	0.77	5.00
LID-039-05	6.38 CP	★★★	★★★	47%	28%	4.3	0.45	0.51	5.00
LID-039-06	6.38 CPGn	★★★	★★★	48%	28%	4.2	0.44	0.62	5.00
LID-039-07	6.38 CPGy	★★★	★★★	48%	27%	4.2	0.43	0.34	5.00
LID-039-08	6.38 CPClr	★★	★★★★	35%	36%	4.2	0.60	0.71	5.00
LID-039-09	4 Clr	☆	★★★	11%	17%	6.2	0.75	0.77	5.00
LID-039-10	5 Clr	☆	★★★	13%	16%	6.2	0.73	0.77	5.00
LID-039-11	5 SpGn	★★	★★	35%	5%	6.2	0.48	0.61	5.00
LID-039-12	6 ET	★★	★★★★	34%	36%	4.3	0.61	0.71	5.00
LID-039-13	10 Clr	★	★★★	21%	16%	6.0	0.66	0.74	5.00
LID-039-14	10.38 Lam	★	★★★	20%	17%	6.0	0.67	0.76	5.00
Emporia Centre Glazed (710 System) - Double Glazed									
LID-040-01	6 Clr/12/6 Clr	★★	★★★★★	37%	44%	3.6	0.61	0.67	5.00
LID-040-02	6 Clr/12 Ar/6 Clr	★★	★★★★★	38%	46%	3.5	0.61	0.67	5.00
LID-040-03	6.38 DLam/12/6.38 CP	★★★	★★★★★	48%	47%	2.9	0.52	0.45	5.00
LID-040-04	6.38 DLam/12 Ar/6.38 CP	★★★	★★★★★	48%	50%	2.7	0.53	0.45	5.00
LID-040-05	10.38 DLam/12 Ar/8.38 CP	★★★★☆	★★★★★	50%	49%	2.7	0.51	0.44	5.00
Emporia Centre Glazed (710 System) with Awning Window - Single Glazed									
LID-041-01	4 Clr	★☆☆	★★★	26%	14%	7.1	0.54	0.53	5.00
LID-041-02	5 Clr	★☆☆	★★★	27%	14%	7.1	0.54	0.53	5.00
LID-041-03	5 EG	★★	★★	38%	6%	7.1	0.39	0.43	5.00
LID-041-04	6 Clr	★☆☆	★★★	27%	14%	7.0	0.53	0.52	5.00
LID-041-05	6.38 DLam	★☆☆	★★★	28%	15%	7.0	0.53	0.53	5.00
LID-041-06	10 Clr	★☆☆	★★★	31%	15%	6.9	0.50	0.51	5.00
LID-041-07	10.38 DLam	★☆☆	★★★	31%	16%	6.8	0.50	0.52	5.00
LID-041-08	6 EA	★★	★★★★	38%	27%	5.9	0.46	0.49	5.00
LID-041-09	6.38 CP	★★★	★★★	46%	21%	5.9	0.35	0.35	5.00
Emporia Centre Glazed (710 System) with Awning Window - Double Glazed									
LID-042-01	6 Clr/12/6 Clr	★★★☆☆	★★★★★	44%	39%	4.9	0.44	0.45	5.00
LID-042-02	6 Clr/12 Ar/6 Clr	★★★☆☆	★★★★★	44%	40%	4.9	0.44	0.45	5.00
LID-042-03	6.38 DLam/12/6.38 CPNtl	★★★	★★★★★	50%	41%	4.5	0.39	0.30	5.00
LID-042-04	6.38DLam/12 Ar/6.38CPNtl	★★★★☆	★★★★★	50%	43%	4.4	0.39	0.30	5.00

LIDCO				Cool	Heat	Total Window - NFRC Air Inf.			
Window ID	Glazing	Cooling Stars	Heating Stars	%	%	Uw	SHGC	Tvw	Air Inf.
Emporia Centre Glazed (710 System) with Awning Window - Double Glazed									
LID-042-01	6 Clr/12/6 Clr	★★★☆☆	★★★★★	44%	39%	4.9	0.44	0.45	5.00
LID-042-02	6 Clr/12 Ar/6 Clr	★★★☆☆	★★★★★	44%	40%	4.9	0.44	0.45	5.00
LID-042-03	6.38 DLam/12/6.38 CPNtl	★★★★★	★★★★★	50%	41%	4.5	0.39	0.30	5.00
LID-042-04	6.38DLam/12 Ar/6.38CPNtl	★★★★★☆☆	★★★★★☆☆	50%	43%	4.4	0.39	0.30	5.00
Emporia Face Glazed (715 System) - Single Glazed with Subsill									
LID-029-01	4 Clr	☆☆	★★★☆☆	9%	15%	6.3	0.75	0.77	5.00
LID-029-02	5 Clr	☆☆	★★★☆☆	12%	14%	6.3	0.73	0.77	5.00
LID-029-03	5 SpGn	★★★☆☆	★★★☆☆	34%	3%	6.3	0.49	0.61	5.00
LID-029-04	6 Clr	☆☆	★★★☆☆	13%	15%	6.3	0.73	0.77	5.00
LID-029-05	6 ET	★★★☆☆	★★★★★☆☆	32%	34%	4.5	0.62	0.71	5.00
LID-029-06	6.38 Lam	☆☆	★★★☆☆	16%	14%	6.2	0.70	0.77	5.00
LID-029-07	6.38 CP	★★★★★	★★★★★	46%	26%	4.4	0.45	0.51	5.00
LID-029-08	10 Clr	☆☆	★★★☆☆	20%	13%	6.2	0.66	0.74	5.00
LID-029-09	10.38 Lam	☆☆	★★★☆☆	18%	15%	6.1	0.68	0.76	5.00
Emporia Face Glazed (715 System) - Double Glazed with Subsill									
LID-030-01	6 Clr/12/6 Clr	★★★☆☆	★★★★★☆☆	36%	44%	3.7	0.62	0.68	5.00
LID-030-02	6 Clr/12 Ar/6 Clr	★★★☆☆	★★★★★☆☆	36%	45%	3.5	0.62	0.68	5.00
LID-030-03	6.38 DLam/12/6.38 CP	★★★★★	★★★★★☆☆	47%	47%	3.0	0.53	0.45	5.00
LID-030-04	6.38 DLam/12 Ar/ 6.38 CP	★★★★★	★★★★★	47%	49%	2.8	0.54	0.45	5.00
LID-030-05	10.38 DLam/12 Ar/8.38 CP	★★★★★	★★★★★	49%	48%	2.8	0.52	0.45	5.00
Emporia Face Glazed (715 System) with Awning Window - Single Glazed									
LID-031-01	4 Clr	★★★☆☆	★★★☆☆	36%	14%	6.7	0.44	0.41	5.00
LID-031-02	5 Clr	★★★☆☆	★★★☆☆	36%	14%	6.7	0.43	0.41	5.00
LID-031-03	5 EG	★★★★★☆☆	★★★☆☆	44%	7%	6.7	0.31	0.34	5.00
LID-031-04	6 Clr	★★★☆☆	★★★☆☆	37%	14%	6.7	0.42	0.41	5.00
LID-031-05	6.38 DLam	★★★☆☆	★★★☆☆	37%	15%	6.6	0.42	0.41	5.00
LID-031-06	10 Clr	★★★★★☆☆	★★★☆☆	39%	14%	6.6	0.40	0.40	5.00
LID-031-07	10.38 DLam	★★★★★☆☆	★★★☆☆	39%	15%	6.5	0.40	0.40	5.00
LID-031-08	6 EA	★★★★★	★★★★★	45%	24%	5.8	0.37	0.38	5.00
LID-031-09	6.38 CP	★★★★★☆☆	★★★★★	51%	19%	5.8	0.29	0.27	5.00
Emporia Face Glazed (715 System) with Awning Window - Double Glazed									
LID-032-01	6 Clr/12/6 Clr	★★★★★☆☆	★★★★★	44%	39%	4.9	0.44	0.44	5.00
LID-032-02	6 Clr/12 Ar/6 Clr	★★★★★	★★★★★	45%	40%	4.8	0.44	0.44	5.00
LID-032-03	6.38 DLam/12/ 6.38 CPNtl	★★★★★☆☆	★★★★★☆☆	50%	41%	4.5	0.39	0.30	5.00
LID-032-04	6.38 DLam/12Ar/6.38 CPNtl	★★★★★☆☆	★★★★★☆☆	51%	43%	4.4	0.39	0.30	5.00

Commercial System WERS Ratings



LIDCO				Cool	Heat	Total Window - NFRC Air Inf.			
Window ID	Glazing	Cooling Stars	Heating Stars	%	%	Uw	SHGC	Tvw	Air Inf.
Emporia Bead Glazed Door (716 System) - Single Glazed									
LID-033-01	4 Clr	☆☆	★★	24%	12%	6.1	0.62	0.62	5.00
LID-033-02	5 Clr	☆☆	★★	26%	12%	6.1	0.60	0.62	5.00
LID-033-03	5 SpGn	☆☆☆	★★☆	41%	2%	6.1	0.41	0.49	5.00
LID-033-04	6 Clr	☆☆	★★	26%	12%	6.1	0.60	0.62	5.00
LID-033-05	6 ET	☆☆☆	★★★★	41%	28%	4.6	0.51	0.57	5.00
LID-033-06	6.38 Lam	☆☆	★★	28%	12%	6.0	0.58	0.62	5.00
LID-033-07	6.38 CP	☆☆☆☆	★★★☆☆	50%	20%	4.6	0.38	0.41	5.00
LID-033-08	10 Clr	☆☆	★★	31%	11%	6.0	0.55	0.60	5.00
LID-033-09	10.38 Lam	☆☆	★★	30%	12%	5.9	0.56	0.61	5.00
Emporia Bead Glazed Door (716 System) - Double Glazed									
LID-034-01	6 Clr/12/6 Clr	☆☆☆☆	★★★★☆	46%	33%	4.0	0.48	0.51	5.00
LID-034-02	6 Clr/12 Ar/6 Clr	☆☆☆☆	★★★★☆	46%	34%	3.9	0.48	0.51	5.00
LID-034-03	6.38 DLam/12/6 CP	☆☆☆☆☆	★★★★☆	53%	35%	3.5	0.41	0.34	5.00
LID-034-04	6.38 DLam/12 Ar/6 CP	☆☆☆☆☆	★★★★★	53%	37%	3.4	0.42	0.34	5.00
LID-034-05	10.38 DLam/12 Ar/8.38 CP	☆☆☆☆☆	★★★★★	55%	36%	3.3	0.40	0.34	5.00
Emporia Face Glazed (718 System) - Single Glazed with Subsill									
LID-035-01	4 Clr	☆	★★	10%	13%	6.5	0.75	0.76	5.00
LID-035-02	5 Clr	☆	★★	12%	13%	6.4	0.72	0.76	5.00
LID-035-03	5 SpGn	☆☆	★★☆	34%	1%	6.4	0.48	0.60	5.00
LID-035-04	6 Clr	☆	★★	13%	13%	6.4	0.72	0.76	5.00
LID-035-05	6 ET	☆☆	★★★★☆	32%	32%	4.6	0.62	0.70	5.00
LID-035-06	6.38 Lam	☆	★★	16%	12%	6.3	0.69	0.76	5.00
LID-035-07	6.38 CP	☆☆☆☆	★★★★	45%	24%	4.6	0.45	0.50	5.00
LID-035-08	10 Clr	☆	★★	20%	12%	6.3	0.66	0.73	5.00
LID-035-09	10.38 Lam	☆	★★	18%	13%	6.2	0.67	0.75	5.00
Emporia Face Glazed (718 System) - Double Glazed with Subsill									
LID-036-01	6 Clr/12/6 Clr	☆☆	★★★★☆	36%	45%	3.9	0.61	0.67	0.36
LID-036-02	6 Clr/12 Ar/6 Clr	☆☆	★★★★☆	36%	47%	3.8	0.62	0.67	0.36
LID-036-03	6.38 DLam/12/6.38 CP	☆☆☆☆	★★★★★	46%	48%	3.3	0.53	0.45	0.36
LID-036-04	6.38 DLam/12 Ar/6.38 CP	☆☆☆☆	★★★★★	47%	51%	3.1	0.53	0.45	0.36
LID-036-05	10.38 DLam/12 Ar/8.38 CP	☆☆☆☆	★★★★★	49%	50%	3.0	0.51	0.44	0.36

LIDCO				Cool	Heat	Total Window - NFRC Air Inf.			
Window ID	Glazing	Cooling Stars	Heating Stars	%	%	Uw	SHGC	Tvw	Air Inf.
Emporia Face Glazed (718 System) with Awning Window - Single Glazed									
LID-037-01	4 Clr	☆☆	★★★☆☆	26%	16%	7.3	0.54	0.52	0.36
LID-037-02	5 Clr	☆☆	★★★☆☆	26%	16%	7.2	0.54	0.52	0.36
LID-037-03	5 SpGn	☆☆	★★★☆☆	37%	9%	7.2	0.39	0.43	0.36
LID-037-04	6 Clr	☆☆	★★★☆☆	27%	16%	7.2	0.53	0.52	0.36
LID-037-05	6 EA	☆☆	★★★★★☆☆	37%	29%	6.1	0.46	0.48	0.36
LID-037-06	6.38 DLam	☆☆	★★★☆☆	28%	17%	7.2	0.52	0.52	0.36
LID-037-07	6.38 CPNtl	☆☆☆☆	★★★★★☆☆	45%	23%	6.1	0.35	0.35	0.36
LID-037-08	10 Clr	☆☆	★★★☆☆	30%	17%	7.1	0.50	0.50	0.36
LID-037-09	10.38 DLam	☆☆	★★★☆☆	30%	17%	7.1	0.50	0.51	0.36
Emporia Face Glazed (718 System) with Awning Window - Double Glazed									
LID-038-01	6 Clr/12/6 Clr	☆☆☆☆	★★★★★☆☆	44%	42%	5.1	0.44	0.44	0.36
LID-038-02	6 Clr/12 Ar/6 Clr	☆☆☆☆	★★★★★☆☆	44%	43%	5.0	0.45	0.44	0.36
LID-038-03	6.38 DLam/12/3.68 CPNtl	☆☆☆☆	★★★★★☆☆	50%	44%	4.7	0.39	0.30	0.36
LID-038-04	6.38 DLam/12Ar/6.38 CPNtl	☆☆☆☆	★★★★★☆☆	50%	45%	4.6	0.39	0.30	0.36
Pinnacle Sliding/Stacking Door (735 System) - Single Glazed									
LID-027-01	4 Clr	☆☆	★★★☆☆	17%	12%	6.3	0.68	0.70	5.00
LID-027-02	6 Clr	☆☆	★★★☆☆	20%	12%	6.3	0.66	0.69	5.00
LID-027-03	6 EA	☆☆	★★★★★☆☆	36%	30%	4.6	0.56	0.64	5.00
LID-027-04	5 Clr	☆☆	★★★☆☆	19%	12%	6.3	0.66	0.69	5.00
LID-027-05	5 EG	☆☆	★★★☆☆	36%	2%	6.3	0.46	0.57	5.00
LID-027-06	6.38 LamClr	☆☆	★★★☆☆	21%	12%	6.2	0.65	0.70	5.00
LID-027-07	3.38 CPClr	☆☆	★★★★★☆☆	38%	29%	4.6	0.55	0.64	5.00
LID-027-08	10 Clr	☆☆	★★★☆☆	26%	11%	6.2	0.60	0.67	5.00
LID-027-09	10.38 LamClr	☆☆	★★★☆☆	34%	7%	6.1	0.51	0.53	5.00
Pinnacle Sliding/Stacking Door (735 System) - Double Glazed									
LID-004-01	3/12/3	☆☆	★★★★★☆☆	35%	42%	4.1	0.62	0.63	0.46
LID-004-02	6 EG/7/5	☆☆☆☆	★★★★★☆☆	55%	25%	4.3	0.33	0.46	0.46
LID-004-03	6 EG/7/5 EA	☆☆☆☆	★★★★★☆☆	59%	29%	3.9	0.30	0.43	0.46
LID-004-04	5/8/5 EA	☆☆☆☆	★★★★★☆☆	42%	43%	3.8	0.55	0.58	0.46
LID-004-05	4/10/4	☆☆	★★★★★☆☆	36%	41%	4.2	0.60	0.63	0.46
LID-004-06	6/12/6	☆☆☆☆	★★★★★☆☆	39%	41%	4.1	0.57	0.61	0.46
LID-004-07	6/12 Ar/6	☆☆☆☆	★★★★★☆☆	39%	42%	4.0	0.57	0.61	0.46
LID-004-08	6.38 LamClr/12/6.38 CPClr	☆☆☆☆	★★★★★☆☆	45%	46%	3.5	0.53	0.57	0.46
LID-004-09	6.38 LamClr/12Ar/6.38 CPClr	☆☆☆☆	★★★★★☆☆	46%	48%	3.3	0.53	0.57	0.46

Commercial System WERS Ratings



LIDCO				Cool	Heat	Total Window - NFRC Air Inf.			
Window ID	Glazing	Cooling Stars	Heating Stars	%	%	Uw	SHGC	Tvw	Air Inf.
Pinnacle Bifold Door (744 System) - Single Glazed									
LID-025-01	4 Clr	☆☆	☆☆☆	27%	17%	6.1	0.60	0.60	0.19
LID-025-02	5 Clr	☆☆	☆☆☆	28%	16%	6.1	0.58	0.59	0.19
LID-025-03	5 EG	☆☆☆	☆☆	41%	8%	6.1	0.41	0.49	0.19
LID-025-04	6 Clr	☆☆	☆☆☆	29%	16%	6.0	0.58	0.59	0.19
LID-025-05	6 EA	☆☆☆	☆☆☆☆	42%	31%	4.6	0.49	0.55	0.19
LID-025-06	6.38 LamClr	☆☆	☆☆☆	30%	17%	6.0	0.57	0.60	0.19
LID-025-07	6.38 CPClr	☆☆☆	☆☆☆☆	44%	31%	4.6	0.48	0.55	0.19
LID-025-08	10 Clr	☆☆	☆☆☆	33%	16%	5.9	0.53	0.57	0.19
LID-025-09	10.38 LamClr	☆☆☆	☆☆	40%	12%	5.9	0.45	0.45	0.19
Pinnacle Bifold Door (744 System) - Double Glazed									
LID-014-01	4/10/4	☆☆☆	☆☆☆☆	43%	38%	4.1	0.51	0.53	0.19
LID-014-02	3/12/3	☆☆☆	☆☆☆☆	42%	38%	4.1	0.53	0.54	0.19
LID-014-03	6 EG/7/5	☆☆☆☆	☆☆☆☆	58%	23%	4.3	0.29	0.39	0.19
LID-014-04	6 EG/7/5 EA	☆☆☆☆☆	☆☆☆☆	62%	26%	3.9	0.26	0.36	0.19
LID-014-05	5/8/5 EA	☆☆☆☆	☆☆☆☆	48%	39%	3.8	0.47	0.49	0.19
Pinnacle Bifold Door (744 System) - Double Glazed (Wet Glazed)									
LID-013-01	6/10/6	☆☆☆☆	☆☆☆☆	45%	29%	4.6	0.46	0.47	0.19
LID-013-02	6 EG/10/6	☆☆☆☆	☆☆☆	57%	18%	4.6	0.28	0.35	0.19
LID-013-03	6/10/6 EA	☆☆☆☆	☆☆☆☆	49%	32%	4.2	0.43	0.43	0.19
LID-013-04	6 EG/10/6 EA	☆☆☆☆☆	☆☆☆	61%	21%	4.2	0.25	0.32	0.19
LID-013-05	5/12/5	☆☆☆☆	☆☆☆☆	44%	37%	4.1	0.50	0.53	0.19
LID-013-06	6.38 LamClr/10/6.38 CPClr	☆☆☆☆	☆☆☆☆	50%	41%	3.7	0.46	0.49	0.19
LID-013-07	6.38 LamClr/10Ar/6.38 CPClr	☆☆☆☆☆	☆☆☆☆☆	50%	43%	3.5	0.46	0.49	0.19
LID-013-08	6/12/6	☆☆☆☆	☆☆☆☆	45%	37%	4.1	0.49	0.53	0.19
LID-013-09	6/12 Ar/6	☆☆☆☆	☆☆☆☆	45%	18%	4.0	0.50	0.53	0.19