

NCC VOLUME ONE GLAZING CALCULATOR (first issued with NCC 2014)

Building name/description

Science & Technology Building, Medowie Christian School, 6 Waropara Road, Medowie

Application

other

Climate zone

5

Storey

First

Facade areas

N	NE	E	SE	S	SW	W	NW	internal
	88m ²		89m ²		88m ²		89m ²	
								n/a

Option A

Option B

Glazing area (A) 16.82m² 15.75m² 15.32m² 24.75m²

Number of rows preferred in table below

15 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	D08	SW		2.40	1.80	4.32	3.6	0.51	2.740	2.500	1.10	0.10	0.57	0.48	4.32	25% of 25%
2	D09	NE		2.40	1.80	4.32	3.6	0.51	7.900	3.460	2.28	1.06	0.30	0.36	4.32	14% of 47%
3	W05a	SW		1.54		6.00	3.6	0.51	0.530	1.540	0.34	0.00	0.86	0.79	6.00	42% of 25%
4	W05b	SW		1.13		5.00	3.6	0.51	0.530	1.130	0.47	0.00	0.80	0.71	5.00	33% of 25%
5	W06a	NW		1.54		4.00	3.6	0.51	0.530	1.540	0.34	0.00	0.88	0.72	4.00	16% of 64%
6	W06b	NW		1.13		5.00	3.6	0.51	0.530	1.130	0.47	0.00	0.80	0.62	5.00	17% of 64%
7	W07	NW		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.84	0.66	6.08	22% of 64%
8	W08	NW		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.84	0.66	6.08	22% of 64%
9	W09	NE		1.50	3.50		3.6	0.51	0.630	1.500	0.42	0.00	0.81	0.67	5.25	33% of 47%
10	W10	NW		1.50	2.40		3.6	0.51				0.00	1.00	1.00	3.60	22% of 64%
11	W11	SE		1.50	2.40		3.6	0.51				0.00	1.00	1.00	3.60	27% of 31%
12	W12	NE		1.50	3.50		3.6	0.51	0.630	1.500	0.42	0.00	0.81	0.67	5.25	33% of 47%
13	W13	SE		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.77	0.71	6.08	37% of 31%
14	W14	SE		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.77	0.71	6.08	37% of 31%
15	W23	NE				2.00	3.6	0.51				0.00	1.00	1.00	2.00	20% of 47%

IMPORTANT NOTICE AND DISCLAIMER IN RESPECT OF THE GLAZING CALCULATOR

The Glazing Calculator has been developed by the ABCB to assist in developing a better understanding of glazing energy efficiency parameters.

While the ABCB believes that the Glazing Calculator, if used correctly, will produce accurate results, it is provided "as is" and without any representation or warranty of any kind, including that it is fit for any purpose or of merchantable quality, or functions as intended or at all.

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if inputs are valid



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Science & Technology Building, Medowie Christian School, 6 Waropara Road, Medowie

Application

other

Climate zone

5

Storey

Ground

Facade areas

N	NE	E	SE	S	SW	W	NW	internal
	64m ²		43m ²				43m ²	
								n/a

Option A

Option B

Glazing area (A) 12.96m² 18.72m² 14.04m²

Number of rows preferred in table below

11 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	D01	NW		2.40	1.80	4.32	3.6	0.51	0.630	2.400	0.26	0.00	0.92	0.79	4.32	35% of 75%
2	D02	NW		2.40	1.80	4.32	3.6	0.51	0.630	2.400	0.26	0.00	0.92	0.79	4.32	35% of 75%
3	D03	NE		2.40	1.80	4.32	3.6	0.51	2.530	2.400	1.05	0.00	0.06	0.33	4.32	39% of 22%
4	D04	NE		2.40	1.80	4.32	3.6	0.51	7.900	2.400	3.29	0.00	0.00	0.20	4.32	22% of 22%
5	D05	NE		2.40	1.80	4.32	3.6	0.51	2.530	2.400	1.05	0.00	0.06	0.33	4.32	39% of 22%
6	D06	SE		2.40	1.20		3.6	0.51	3.750	2.400	1.56	0.00	0.46	0.37	2.88	15% of 56%
7	D07	SE		2.40	1.20		3.6	0.51	3.750	2.400	1.56	0.00	0.46	0.37	2.88	15% of 56%
8	W01	NW		1.20	2.25		3.6	0.51	0.630	1.200	0.53	0.00	0.76	0.58	2.70	15% of 75%
9	W02	NW		1.20	2.25		3.6	0.51	0.630	1.200	0.53	0.00	0.76	0.58	2.70	15% of 75%
10	W03	SE		2.40	2.70		3.6	0.51	3.750	2.400	1.56	0.00	0.46	0.37	6.48	35% of 56%
11	W04	SE		2.40	2.70		3.6	0.51	3.750	2.400	1.56	0.00	0.46	0.37	6.48	35% of 56%

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Application

other

Climate zone

5

Storey

Second

Facade areas

N	NE	E	SE	S	SW	W	NW	internal
	77m ²		78m ²		77m ²		79m ²	
								n/a

Option A

Option B

Glazing area (A) 18.82m² 15.75m² 10m² 26.75m²

Number of rows preferred in table below

14 (as currently displayed)

GLAZING ELEMENTS, ORIENTATION SECTOR, SIZE and PERFORMANCE CHARACTERISTICS									SHADING		CALCULATED OUTCOMES OK (if inputs are valid)					
Glazing element		Facing sector		Size			Performance		P&H or device		Shading		Multipliers		Size	Outcomes
ID	Description (optional)	Option A facades	Option B facades	Height (m)	Width (m)	Area (m ²)	Total System U-Value (AFRC)	Total System SHGC (AFRC)	P (m)	H (m)	P/H	G (m)	Heating (S _H)	Cooling (S _C)	Area used (m ²)	Element share of % of allowance used
1	D10	NE		2.40	1.80	4.32	3.6	0.51	7.900	2.400	3.29	0.00	0.00	0.20	4.32	6% of 61%
2	W15	NW		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.84	0.66	6.08	21% of 76%
3	W16	NW		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.84	0.66	6.08	21% of 76%
4	W17	NE		1.50	3.50		3.6	0.51	0.630	1.500	0.42	0.00	0.81	0.67	5.25	29% of 61%
5	W18	NW		1.50	2.40		3.6	0.51				0.00	1.00	1.00	3.60	20% of 76%
6	W19	SE		1.50	2.40		3.6	0.51				0.00	1.00	1.00	3.60	27% of 36%
7	W20	NE		1.50	3.50		3.6	0.51	0.630	1.500	0.42	0.00	0.81	0.67	5.25	29% of 61%
8	W21	SE		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.77	0.71	6.08	37% of 36%
9	W22	SE		1.50	4.05		3.6	0.51	0.630	1.500	0.42	0.00	0.77	0.71	6.08	37% of 36%
10	W05c	SW		1.180		5.00	3.6	0.51	0.530	1.180	0.45	0.00	0.81	0.72	5.00	50% of 19%
11	W05d	SW		1.180		5.00	3.6	0.51	0.530	1.180	0.45	0.00	0.81	0.72	5.00	50% of 19%
12	W06c	NW		1.180		5.50	3.6	0.51	0.530	1.180	0.45	0.00	0.81	0.64	5.50	19% of 76%
13	W06d	NW		1.180		5.50	3.6	0.51	0.530	1.180	0.45	0.00	0.81	0.64	5.50	19% of 76%
14	W23a	NE				4.00	3.6	0.51				0.00	1.00	1.00	4.00	35% of 61%

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