

7 APPENDIX A – NCC GLAZING CALCULATOR

7.1 Ground Level

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

Building name/description: **Campbell Stores** Application: **other** Climate zone: **5**

Storey: **G**

Facade areas		N	NE	E	SE	S	SW	W	NW	internal	
Option A			289.1m ²						42.88m ²		
Option B										n/a	
Glazing area (A)		51.3m ²					7.68m ²				

Number of rows preferred in table below: **5** (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
	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 _a)	Cooling (S _c)	Area used (m ²)	
1	NE		1.50	22.00		5.0	0.71					0.00	1.00	1.00	33.00	64% of 100%
2	NE		2.10	5.25		5.0	0.71					0.00	1.00	1.00	11.03	22% of 100%
3	NE		2.40	1.60		5.0	0.71					0.00	1.00	1.00	3.84	7% of 100%
4	NE		1.70	2.00		5.0	0.71					0.00	1.00	1.00	3.40	7% of 100%
5	NW		1.60	4.80		5.0	0.83					0.00	1.00	1.00	7.68	100% of 100%

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 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. Your use of the Glazing Calculator is entirely at your own risk and the ABCB accepts no liability of any kind.

if inputs are valid

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7.2 Level 1

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

Building name/description: **Campbell Stores** Application: **other** Climate zone: **5**

Storey: **1**

Facade areas		N	NE	E	SE	S	SW	W	NW	internal	
Option A			289m ²				224m ²	42.6m ²	42.9m ²		
Option B										n/a	
Glazing area (A)		88.9m ²					7.36m ²		3.6m ²		7.68m ²

Number of rows preferred in table below: **9** (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
	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 _a)	Cooling (S _c)	Area used (m ²)	
1	NE		1.50	10.00		5.0	0.42					0.00	1.00	1.00	15.00	17% of 100%
2	NE		2.10	10.00		5.0	0.42					0.00	1.00	1.00	21.00	24% of 100%
3	NE		2.10	21.00		5.0	0.42					0.00	1.00	1.00	44.10	50% of 100%
4	NE		1.60	3.60		5.0	0.42					0.00	1.00	1.00	5.76	6% of 100%
5	NE		1.80	1.70		5.0	0.42					0.00	1.00	1.00	3.06	3% of 100%
6	NW		1.60	4.80		5.0	0.82					0.00	1.00	1.00	7.68	100% of 99%
7	W		1.80	2.00		5.0	0.82					0.00	1.00	1.00	3.60	100% of 39%
8	SW		1.40	5.00		5.0	0.82					0.00	1.00	1.00	7.00	95% of 9%
9	SW		0.90	0.40		5.0	0.82					0.00	1.00	1.00	0.36	5% of 9%

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7.3 Level 2

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

Building name/description: **Campbell Stores** Application: **other** Climate zone: **5**

Storey: **2**

Facade areas	N	NE	E	SE	S	SW	W	NW	Internal
Option A		263m ²				224m ²	42.6m ²	42.9m ²	
Option B									n/a
Glazing area (A)	96.1m ²				13.5m ²		8.34m ²	1.08m ²	

Number of rows preferred in table below: **9** (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		NE		1.40	20.00		5.0	0.36				0.00	1.00	1.00	28.00	29% of 100%
2		NE		2.80	21.00		5.0	0.36				0.00	1.00	1.00	58.80	61% of 100%
3		NE		1.80	3.20		5.0	0.36				0.00	1.00	1.00	5.76	6% of 100%
4		NE		2.10	1.70		5.0	0.36				0.00	1.00	1.00	3.57	4% of 100%
5		NW		1.20	0.90		5.0	0.82				0.00	1.00	1.00	1.08	100% of 14%
6		W		1.80	2.00		5.0	0.82				0.00	1.00	1.00	3.60	43% of 90%
7		W		1.80	1.80		5.0	0.82				0.00	1.00	1.00	3.24	39% of 90%
8		W		1.50	1.00		5.0	0.82				0.00	1.00	1.00	1.50	18% of 90%
9		SW		1.50	9.00		5.0	0.82				0.00	1.00	1.00	13.50	100% of 16%

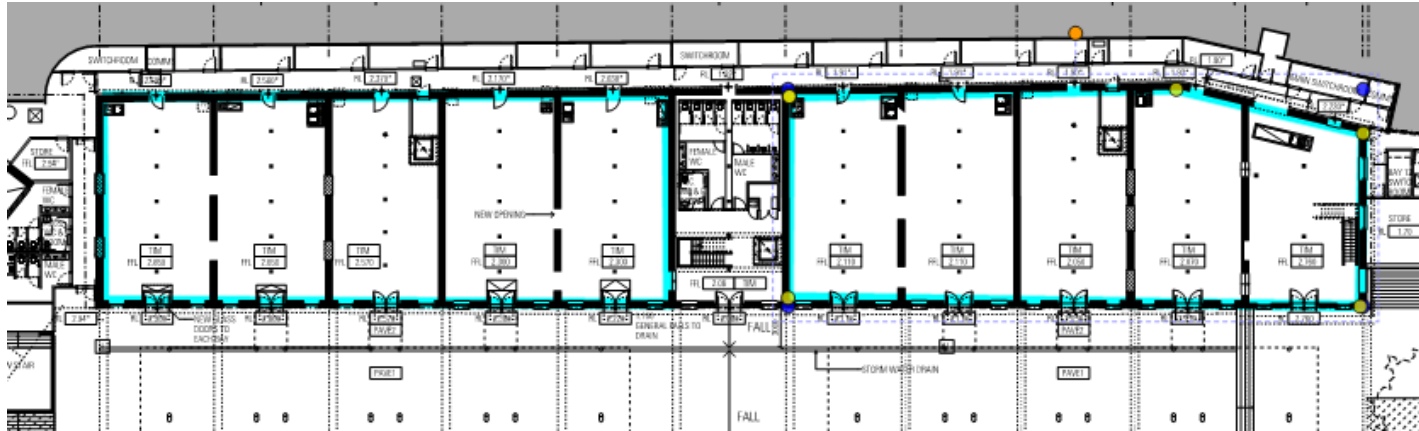
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8 APPENDIX B – BUILDING ENVELOPE CONSTRUCTION

8.1 Ground



8.2 Level 1

