CAMPBELL LUSCOMBE
ARCHITECTS

330 - 334 Galston Rd, Galston, NSW

Solar Access Chart

Internal and External Solar Penetration Studies

NOVEMBER   2011

SOALR ACCESS

METHODOLOGY

The attached Solar Access Chart covers the three "apartment" blocks for the seniors living development at 330 Galston Road, Galston, DA/850/2011.

The results of this chart have been achieved by utilizing the detail 3D digital model of the scheme (generated in ArchiCAD) and casting hourly shadow projections between 9 am and 3 pm. The building was viewed from a number of angles and positions and the results came from either observing external window surfaces and the fall of light on that surface or in some instances by positioning the digital "observer" internally within the Unit's living space.

For the purposes of the solar access chart each unit is numbered in accordance with the following diagrams.

Attached also are a number of sample views illustrating the methodology used to examine the solar access. Over 400 hundred images were produced for this study. Further examples of the views can be provided on request.

SOLAR ACCESS CHART - Apartment blocks.

BLOCK A

UNIT	TIME							Complies	%	COMPLIES
1	9	10	11	12	13	14	15	Y		
2					13	14	15	Y		
3					13	14	15	Y		
4					13	14		N		
5	9	10	11	12	13	14		Y		
6		10	11	12	13	14	15	Y		
7	9	10	11	12	13	14	15	Y		
8		10	11	12	13	14	15	Y		
9			11	12	13	14		Y		
10	9							N		
11	9							N		
12				12	13	14	15	Y		
13				12	13	14	15	Y		
14	9	10	11	12	13	14	15	Y		
15	9	10	11	12	13	14	15	Y		
16				12	13	14	15	Y		
17				12	13	14	15	Y		
18					13			N		
19	9	10	11	12	13	14		Y		
20		10	11	12	13	14		Y		
21	9	10	11	12	13	14		Y		
22	9	10	11	12	13	14	15	Y		
23		10						N		
24		10						N		
25		10						N		
26	9	10	11	12	13	14	15	Y		
27				12	13	14	15	Y		
28				12	13	14	15	Y	75.0%	YES

BLOCK B

UNIT	TIME							Complies	%	COMPLIES
1	9	10	11	12	13	14		Y		
2					13	14	15	Y		
3				12	13	14	15	Y		
4				12	13	14	15	Y		
5				12	13	14	15	Y		
6	9	10						N		
7	9	10						N		
8	9	10	11	12	13	14		Y		
9					13	14	15	Y		
10				12	13	14	15	Y		
11				12	13	14	15	Y		
12			11	12	13	14	15	Y		
13	9	10						N		
14	9	10						N	71.0%	YES

BLOCK C

UNIT	TIME							Complies	%	COMPLIES
1	9	10	11	12	13			Y		
2					13	14	15	Y		
3					13	14	15	Y		
4					13	14	15	Y		
5					13	14	15	Y		
6	9	10	11	12	13	14	15	Y		
7	9	10	11	12				Y		
8	9	10	11	12				Y		
9	9	10	11	12	13			Y		
10					13	14	15	Y		
11					13	14	15	Y		
12					13	14	15	Y		
13					13	14	15	Y		
14	9	10	11	12	13	14	15	Y		
15	9	10	11	12				Y		
16	9	10	11	12				Y	100.0%	YES

TOTAL units complying with required Solar Access	81.0%