Daylight & Sunlight Report

STRATEGIC HOUSING DEVELOPMENT at the former O'DEVANEY GARDENS SITE, DUBLIN 7

ASSESSMENT OF DAYLIGHT AND SUNLIGHT

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1 Executive Summary

J.V. Tierney & Co. have been commissioned to undertake a daylight and sunlight study for the proposed strategic housing development at the former O'Devaney Gardens Site, Dublin 7.

The study follows the guidance outlined in '*Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities'* (Department of Housing, Planning and Local Government, 2020), and '*Urban Development and Building Heights: Guidelines for Planning Authorities'* (Department of Housing, Planning and Local Government, 2018), which state "*planning authorities should have regard to quantitative performance approaches to daylight provision outlined in guides like the BRE guide 'Site Layout Planning for Daylight and Sunlight' (2nd edition) or BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting'"* (Department of Housing, Planning and Local Government, 2020).

The study follows the Guidance set out and where it has diverged from it, we have availed of alternative compensatory design solutions, as allowed within the Guidance, such that the design meets with the principles of the BRE guide - '*Site Layout Planning for Daylight and Sunlight'* (Littlefair, 2011), and BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting' (British Standard Institution, 2008) for new apartments with good quality daylight available across a substantial portion of the development. Good levels of sunlight will also be available in the development's amenity areas.

1.1 Apartments

Kitchen/living rooms and bedrooms have been assessed under the 'Average Daylight Factor' (ADF) methodology; 81.5% of all occupiable rooms will have adequate access to daylight.

Over 1050 rooms tested within the overall development and this allowed results to be extrapolated for all Occupied Rooms within the development - Please refer to Section 5.1 for further details.

J.V. Tierney & Co's analysis indicates that the proposed development will have significant access to daylight across the site based on representative samples within each block.

The below table schedule all Occupiable rooms in the apartment blocks (ie. Blocks 02, 05, 06, 07, 08, 09 and 10) and demonstrates the number of rooms in each block which will meet guideline ADF values based on a significant representative sample within each block. Block 10 performs best and achieves 85.8% which the courtyard blocks (ie. Blocks 05, 07 and 09) achieve lower levels but still remain high for a development of this type at 82.1%, 77.2% and 83.5% respectively.

In all instances J.V. Tierney & Co engaged in a detailed and iterative design process with O'Mahony Pike Architects, considered alternative design solutions and availed of all available alternative, compensatory design solutions to optimise daylight to all apartments (Please refer to Section 5.2 for details).

Table 1: Estimated ADF Compliance for All Occupied Rooms Within the Proposed Development Against BRE Guidelines

Block	No. of Kitchen/Living rooms	Estimated to Meet BRE 2.0% ADF Target	No. of Bedrooms	Estimated to Meet BRE 1.0% ADF Target	Overall Percentage of Rooms Estimated to Meet BRE Targets (%)
02	76	58	111	102	85.6
05	294	175	600	557	81.9
06	92	67	176	160	84.7
07	264	144	456	412	77.2
08C (Duplex)	14	4	36	25	58.0
09	192	124	316	300	83.5
10	92	71	176	159	85.8
Total	1023	643	1871	1715	81.5

Table 2: Estimated ADF Compliance for All Occupied Rooms Within the Proposed Development Against Industry Targets

Block	No. of Kitchen/Living rooms	Estimated to Meet Industry 1.5% ADF Target	No. of Bedrooms	Estimated to Meet Industry 1.0% ADF Target	Overall Percentage of Rooms Estimated to Meet Industry Targets (%)
02	76	73	111	102	93.6
05	293	216	600	557	86.6
06	92	81	176	160	89.9
07	264	187	456	412	83.2
08C (Duplex)	14	9	36	25	68.0
09	192	143	316	300	87.2
10	92	81	176	159	89.6
Total	1023	787	1871	1715	86.5

When looked at as a total, the quantum of spaces meeting the daylight factor targets (i.e., 81.5%) is greater than 80% which exceeds international environmental assessment standards such as BREEAM, which targets a figure of 80% and LEED, which targets a figure of 75% to award a credit under the daylighting criteria and demonstrates that the development has '*maximised the daylight*' for the occupied spaces.

Overall, having regard to the nature, scale and density of the proposed development in an inner-city location, it is considered that the proposed development achieves a high quality of daylight amenity for apartments and can therefore be deemed to meet the qualitative requirements of the Apartment Guidelines (2018).

1.2 Houses

Kitchen/dining rooms, living spaces and bedrooms have been assessed under the 'Average Daylight Factor' (ADF) methodology; 96.1% of all occupiable rooms will have adequate access to daylight. The below table demonstrates the number of rooms which will meet guideline ADF values based on daylight analysis undertaken on all houses (Please refer to Section 6.1 for further details).

Table 3: Estimated ADF Compliance for All Occupied Rooms Within the Proposed Development

Block	Kitchen/Dining Rooms	Kitchen/Dining Rooms Meeting BRE Guidelines	Living Rooms	Living Rooms Meeting BRE Guidelines	No. of Bedrooms	Bedrooms Meeting BRE Guidelines
04	11	11	11	11	33	33
08A/B	12	12	12	12	24	20

1.3 Open Space & Communal Amenity Spaces

All proposed communal amenity spaces have been assessed under the 'Gardens and Open Spaces' methodology; 100% of all assessed communal amenity spaces meet the guidelines on March 21. A combination of building form and building height adjustments has contributed to the improvement in sunlight access to courtyard amenity areas (Refer to Section 7.2 for details on compensatory design solutions applied).

Table 4: BRE Gardens & Open Spaces Results for the Proposed Development on March 21

General Information			Proposed		
			21 March		
Amenity Reference	BRE Garden & Open Spaces Target (%)	Total Area (m²)	Total Amenity Area Receiving More Than 2 Hours (m²)	Percentage of Amenity Receiving more than 2 Hours (%)	Status (Meets/Below BRE target)
Block 02	50	510.0	510.0	100.0	Meets
Block 05	50	2020.0	1366.0	67.6	Meets
Block 06	50	697.0	697.0	100.0	Meets
Block 07	50	2147.0	1675.0	78.0	Meets
Block 09	50	1280.0	1152.0	90.0	Meets
Block 10	50	690.0	674.0	97.7	Meets

1.4 Adjacent Residential Areas

The design approach with regard to adjacent residential areas has been to position lower rise elements opposite residential units to minimise the impact to daylight and sunlight (Refer to Section 8.4 for details on compensatory design solutions applied).

To assess the daylight and sunlight impact to adjacent residential areas:

1. 432 windows have been assessed under the 'Light from the Sky' methodology which assesses daylight access to windows; 81.5% of all assessed windows meet the guidelines.

2. 187 windows have been assessed under the 'Loss of Sunlight' methodology which assesses sunlight access to windows; 90.3% of all assessed windows meet the guidelines.

3. 43 gardens have been assessed under the 'Gardens and Open Spaces' methodology which assesses sunlight access to gardens; 95.8% of all assessed gardens meet the guidelines on March 21.

Table 5: Impact on the Adjoining Residential Areas

Reference	Percentage of Windows Meeting *'Light from the Sky'* Guidelines	Percentage of Windows Meeting *'Loss of Sunlight'* Guidelines	Percentage of Gardens Meeting *'Gardens & open Spaces'* Guidelines
North Circular Road	90.4	82.7	100.0
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	94.4	89.7	83.3
Montpelier Gardens, Kinahan St.	94.0	91.7	100.0
Montpelier Park, Montpelier Gardens	100.0	100.0	100.0
DCC Phase 1	28.9	87.2	-
Total	81.5	90.3	95.8

2 Introduction

J.V. Tierney & Co. have undertaken the daylight and sunlight study for the proposed strategic housing development at the former O'Devaney Gardens Site, Dublin 7.

The analysis has been carried out in line with '*Site Layout Planning for Daylight and Sunlight'* (Littlefair, 2011). This guide is a comprehensive revision of the 1991 edition of '*Site Layout Planning for Daylight and Sunlight: A guide to good practice'* (Littlefair, 1991).

A 3D geometric model of the site was created using software IES-VE 2019 and using drawings issued by O'Mahony Pike Architects. The analysis procedure considers the following daylighting and sun lighting calculation methodologies; Average Daylight Factor (ADF), Gardens and Open Spaces, Light from the Sky and Loss of Sunlight.

It should be noted that the guidance in this document should be seen as advice only and it should not constrain the design, "*The advice given here is not mandatory and the guide should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design*" (Littlefair, 2011).

The guidance from '*Site Layout Planning for Daylight and Sunlight'*, should be seen as not being suitable for rigid application to all developments in the context of national and local policies for the consolidation and densification of urban areas.

The '*Urban Design Manual, A Best Practice Guide'* (Environment, Heritage and Local Government, 2009) states that it may not always be possible to meet the criteria within '*Site Layout Planning for Daylight and Sunlight'* for urban areas. "*Where design standards are to be used (such as the UK document Site Layout Planning for Daylight and Sunlight, published by the BRE), it should be acknowledged that for higher density proposals in urban areas it may not be possible to achieve the specified criteria, and standards may need to be adjusted locally to recognise the need for appropriate heights or street widths*" (Environment, Heritage and Local Government, 2009).

The '*Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities'* (Department of Housing, Planning and Local Government, 2020), also reiterates the point mentioned above and states that, "*High density apartment schemes in urban locations should include shadow analysis diagrams at application stage. While overshadowing is clearly not generally desirable, it must be accepted that there may inevitably be some element of overshadowing at certain times of*

the day and/or year, subject to orientation, layout etc., in order to achieve urban development. In assessing development proposals, planning authorities must weigh up the overall quality of the design and layout of the scheme and measures undertaken to avoid overshadowing, with the location of the site and the need to ensure an appropriate scale or urban residential development" (Department of Housing, Planning and Local Government, 2020). (See Appendix B).

The '*Urban Development and Building Heights: Guidelines for Planning Authorities*' (Department of Housing, Planning and Local Government, 2018) have been prepared in response to the publication of '*Project Ireland 2040*' and the '*National Planning Framework*'. The '*Building Heights*' guidelines state "*that appropriate and reasonable regard should be taken of quantitative performance approaches to daylight provision outlined in guides like the Building Research Establishment's 'Site Layout Planning for Daylight and Sunlight' (2nd edition) or BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting'* (Department of Housing, Planning and Local Government, 2018).

The '*Building Heights*' guidelines also state "*where a proposal may not be able to fully meet all the requirements of the daylight provisions above, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, in respect of which the planning authority or An Bord Pleanála should apply their discretion, having regard to local factors including specific site constraints and the balancing of that assessment against the desirability of achieving wider planning objectives. Such objectives might include securing comprehensive urban regeneration and or an effective urban design and streetscape solution"* (Department of Housing, Planning and Local Government, 2018). These alternative, compensatory design solutions have been considered throughout the design process and are outlined in more detail in Sections 5.2, 7.2 and 8.4.

In line with the provisions of the '*Apartment Guidelines*' as discussed above, the '*Building Heights*' guidelines make allowances for where a proposal may not fully meet all requirements of daylight provisions, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, which planning authorities should apply their discretion in accepting. Again these alternative, compensatory design solutions have been considered throughout the design process and are outlined in more detail in Sections 5.2, 7.2 and 8.4.

With this report discretion should be applied where it is desired that a scheme meets wider planning objectives such as comprehensive urban regeneration. This is applicable to the subject scheme whereby the requirement to provide for a sustainable level of development results in a need for some discretion to be applied in terms of completely meeting performance standards.

Comments in relation to overshadowing from the 'Site Layout Planning for Daylight and Sunlight', guide also state that some degree of overshadowing is to be expected. The guide states that, "*It must be borne in mind that nearly all structures will create areas of new shadow, and some degree of transient overshadowing of a space is to be expected*" (Littlefair, 2011).

In general, the design meets with the principles of the *BRE guide* and *BS 8206-2 2008* (British Standard Institution, 2008) and the latest guidelines for new apartments as issued by the Department of Housing with good quality daylight available across a substantial portion of the development. Good levels of sunlight will also be available in the development's amenity areas.

2.1 BRE Guidelines

The purpose of this guide is to provide advice on a buildings site plan and layout to achieve good levels of daylighting and sun lighting. The guide provides calculation methodologies which aims to assist clients, consultants and planning officials make informed decisions on site layout to ensure no significant loss of light occurs. It should be noted that the guidance in this document should be seen as advice only and it should not constrain the design.

If this guidance is followed the end result is a site which is positioned and laid out in such a way which will provide adequate levels of sun lighting and daylighting while creating an ambience that will appeal to any building occupant.

2.2 Glossary

ADF – Average Daylight Factor. This is the ratio of total daylight flux incident on the working plane to the area of the working plane, expressed as a percentage of the outdoor illuminance on a horizontal plane due to an unobstructed CIE Standard Overcast Sky.

CIE - The standard CIE (Commission Internationale de L'Eclairage – International Commission on Illumination) overcast sky. The CIE Overcast sky is intended for two purposes; to be a universal basis for the classification of measured sky luminance distributions and to give a method for calculating sky luminance in daylighting design procedures.

VSC - Vertical Sky Component. This is the ratio of the direct sky illuminance falling on the vertical wall at a reference point (usually the centre of the window), to the simultaneous horizontal illuminance under an unobstructed sky that is received from a CIE overcast sky.

APSH – Annual Probable Sunlight Hours. Here "probable sunlight hours" means the total number of hours in the year that the sun is expected to shine on unobstructed ground, allowing for average levels of cloudiness for the location in question.

3 Assessment Methodology

BRE Guidelines – 'Site Layout Planning for Daylight and Sunlight' puts forth assessment methodologies which consider daylight and sunlight for existing buildings and new developments.

3.1 Average Daylight Factor

In order to assess the quality of daylight enjoyed within the proposed apartments an Average Daylight Factor (ADF) calculation was used. The Average Daylight Factor (ADF) is a ratio between indoor illuminance and outdoor illuminance expressed as a percentage. In dwellings, the following figures should be used to assess if there is a good level of natural light in a space.

- Bedrooms = 1.0% ADF
- Living Spaces = 1.5% ADF
- Kitchens = 2.0% ADF

3.2 Gardens and Open Spaces/Site Shadow Analysis

While providing good levels of daylight and sunlight in living spaces is important, it is also essential to apply the same approach to outside spaces and amenity areas. An adequately lit garden or open space creates a rich ambience that any occupant would find appealing. A well-lit garden or open space will add value to a property, so it is essential that careful consideration is taken when assessing these spaces.

This methodology is therefore used to assess sunlight access to communal amenity spaces within the proposed development and to adjacent residential gardens.

The basis of this calculation is to assess if 50% of the garden area or open space will achieve more than two hours' worth of sunlight on 21 March (Equinox). If the garden or open space can meet this criterion then no further analysis needs to be carried out.

If the above thresholds cannot be met, then a comparison is made between the sunlight received in the gardens/ open space as the existing site currently stands and the sunlight received in the gardens/ open space with the proposed development in place. If the reduction is greater than 20% then the occupants will notice the reduction in sunlight.

As per the BRE guide – "*the equinox (21 March) is the best date for which to prepare shadow plots as it gives an average level of shadowing"* (Littlefair, 2011), additionally "*plots for summertime (eg 21 June) may be helpful as they will show the reduced shadowing then"* (Littlefair, 2011). *(Refer to Section 13.3).*

3.3 Light from the Sky

This assessment methodology is used to assess daylight access to the adjacent residential areas and is explained below.

This assessment methodology is for vertical windows and is called the "*Vertical Sky Component (VSC)*". This is the ratio of the direct sky illuminance falling on the vertical wall at a reference point (usually the centre of the window), to the simultaneous horizontal illuminance under an unobstructed sky. The standard CIE (Commission Internationale de L'Eclairage – International Commission on Illumination) overcast sky is used. The CIE Overcast sky is intended for two purposes; to be a universal basis for the classification of measured sky luminance distributions and to give a method for calculating sky luminance in daylighting design procedures. This methodology is broken into the following two parts.

a) If the VSC is greater than 27% then enough skylight should still be reaching the window of the existing building.

b) If the VSC, with the new development in place, is both less than 27% and less than 0.8 times its former value, (i.e., 20% reduction) occupants of the existing building will notice a reduction in the amount of skylight.

3.4 Loss of Sunlight

When designing a new development careful consideration should be taken to safeguard access to sunlight for any nearby buildings. As stated in 'Site Layout Planning for Daylight and Sunlight', "*people are particularly likely to notice a loss of sunlight to their homes and if it is extensive then it will usually be resented*" (Littlefair, 2011).

Therefore, this assessment methodology is used to assess sunlight access to the adjacent residential areas and is explained below.

To assess loss of sunlight to a property, consideration should only be taken to any window facing within 90° of due south. Main living rooms and conservatories should be assessed but bedrooms and kitchens are seen as less important. If the centre of a window facing within 90° of due south can

receive more than 25% of APSH (Annual Probable Sunlight Hours), including at least 5% of APSH in the winter months between the 21st of September and the 21st of March, then the room should still receive enough sunlight.

If the available sunlight hours are both less than the amount above and less than 0.8 times their formal value (i.e., 20% reduction), either over the whole year or just in the winter months (21st September to 21st March), then the occupants of the existing building will notice the loss of sunlight.

Here "*probable sunlight hours*" means the total number of hours in the year that the sun is expected to shine on unobstructed ground, allowing for average levels of cloudiness for the location in question.

4 Site Information

The site plan for the proposed development site located at the former O'Devaney Gardens Site, Dublin 7 is shown in Figure 1 below.

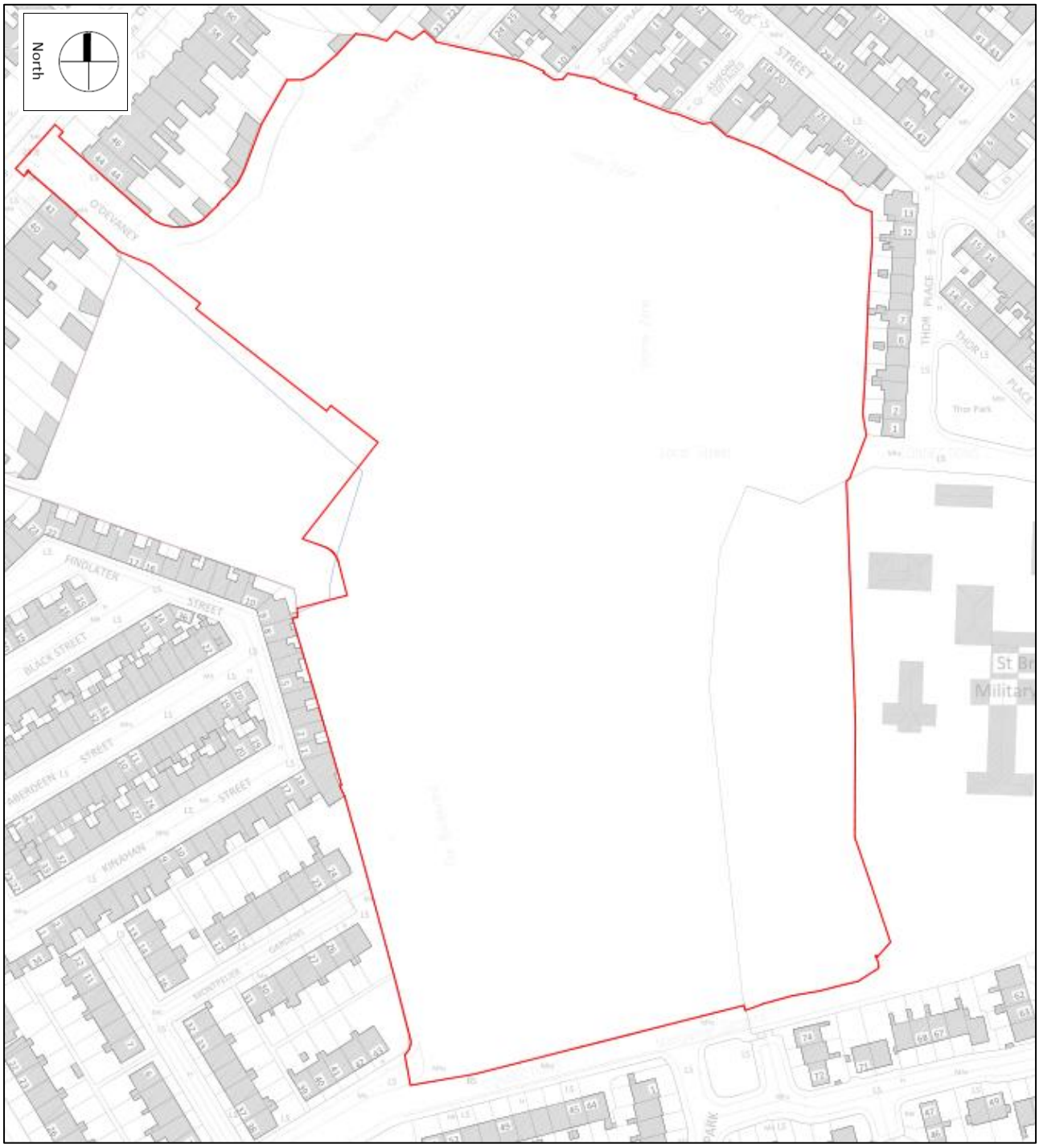

Figure 1: Proposed Development Site at former O'Devaney Gardens Site, Dublin 7.

4.1 Proposed Development

The proposed development which consists of apartment buildings of one, two- and three-bedrooms and houses. This study addresses access to daylight and sunlight within the proposed development; therefore, two methodologies will be used. Habitable rooms of apartment buildings will be assessed for Average Daylight Factor as this methodology is used for assessing the daylight quality. Amenity areas will be assessed with BRE's Gardens and Open Spaces methodology as this test's sunlight provision within the amenity areas.

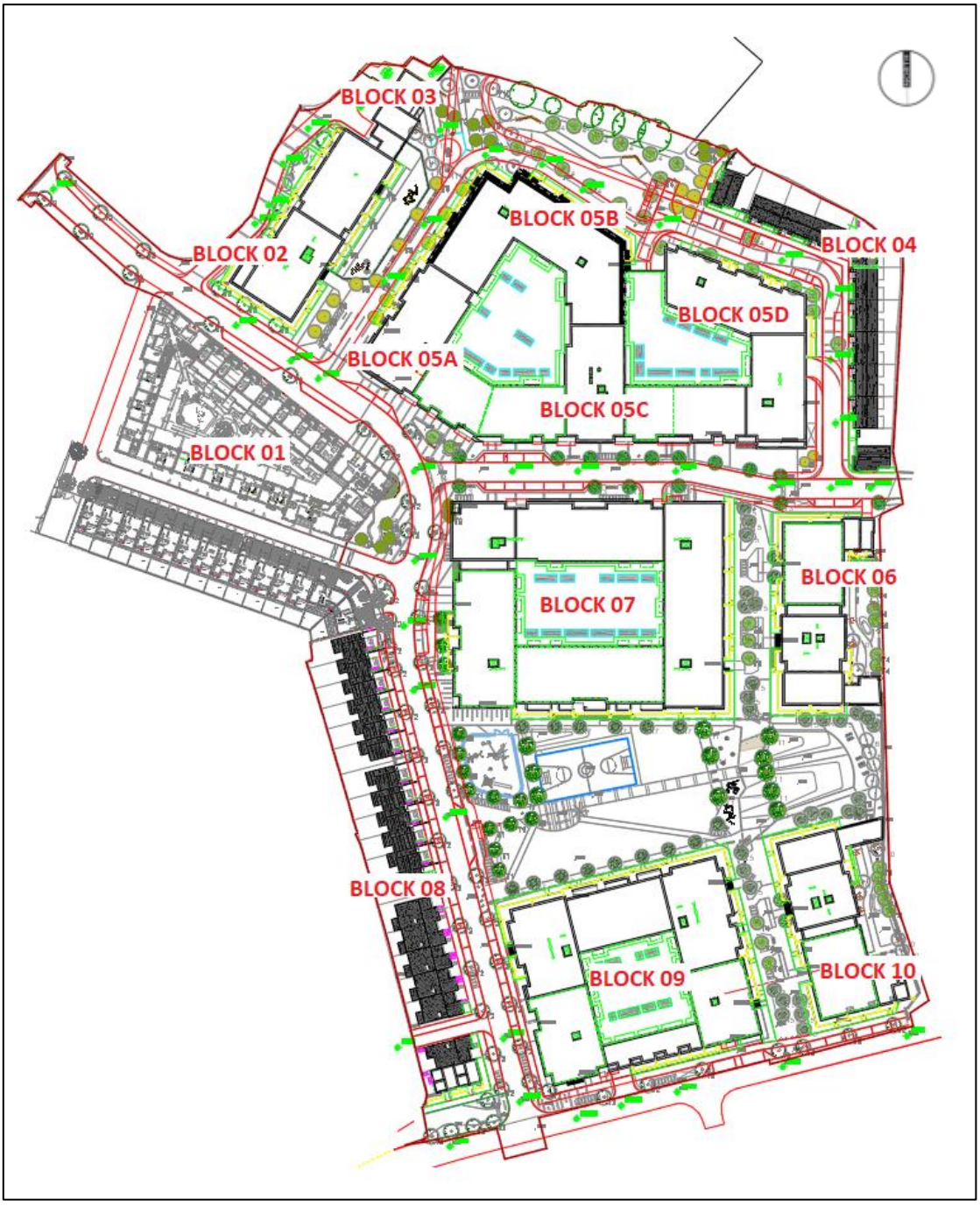

Figure 2: Proposed Development at former O'Devaney Gardens Site, Dublin 7.

Figure 3: Proposed Amenity Spaces at former O'Devaney Gardens Site, Dublin 7.

5 Apartments

5.1 Alternative Design Solutions

As part of the iterative design process, a number of Alternative Design Solutions were considered throughout in order to maximise the daylight provisions while balancing the specific site constraints, achieving wider planning objectives, securing comprehensive urban regeneration and an effective urban design and streetscape solution. These solutions included:

- **Site Layout including adjacencies** – 'maximise access to natural daylight, ventilation and views and to minimise overshadowing and loss of light'
- **Building form and heights** – 'coordinated building design to reduce the impact to daylight and sunlight from the building itself and on surrounding areas'
- **Larger windows** – 'maximise penetration of natural light into a space'
- **Floor to ceiling heights especially at ground level** – 'reduces the impact from obstructions above'
- **Apartment Layout** – 'strategic layout of apartments to promote access to daylight and sunlight to priority spaces i.e. living rooms'
- **Balcony positions** – 'strategic balcony positions maximise access to daylight and optimise residential amenity'

Throughout this iterative design process, the optimum solution was reached while balancing all the competing criteria from the alternate solutions proposed and these are detailed further in Sections 5.2, 7.2 and 8.4.

5.2 Average Daylight Factors

In order to assess the quality of daylight enjoyed within the proposed O'Devaney Gardens development an Average Daylight Factor (ADF) calculation was carried out on representative sample rooms in Blocks 02 – 10.

The Average Daylight Factor (ADF) is a ratio between indoor illuminance and outdoor illuminance expressed as a percentage. The BRE Guide and BS 8206-2 'Code of practice for daylighting, give minimum ADF values for housing, therefore the following figures should be used to assess if there is a good level of natural light in a space;

- Bedrooms = 1.0%
- Living Spaces = 1.5%

- Kitchens = 2.0%

The scheme design has utilised a combined kitchen/living/dining (KLD) room typology within apartments where the kitchen is located on the internal wall to the rear of the living space. It is common for non-daylit kitchens of this type to receive less daylight therefore the kitchens are linked to a well daylit living room as per the BRE guide section 2.1.14. As per the BS 8206 – Code of Practice for Daylighting which outlines where one room serves more than one purpose, then the minimum average daylight factor that should be used is the room with the higher value, which in the case of this development all the living rooms are connected to a kitchen and therefore the 2% ADF value has been targeted in the design. Given the typical layouts for apartments designed today where the kitchen resides at the back of the living space with usually no direct access to daylight, the achievement of the 2% ADF figure is challenging from a design viewpoint. In some cases, the combined kitchen/living/dining rooms have not met the 2% minimum ADF value, however alternative, compensatory design solutions have been explored and implemented throughout the scheme to maximise access to daylight as much as reasonably possible (refer to Section 5.2).

One critical design issue is the use of balconies which are appropriate in the context of the Apartment Guidelines of 2018 but do impact on the ability to transfer daylight to the inner kitchen spaces. As an example, the % ADF for a KLD space on the 1st floor of Block 02 has a % ADF of 2.4% without the balcony but with the balcony this drops to below the 2% to 1.33%. Therefore, the approach has been to balance the quality of the design with regard to daylight provision while achieving good urban design and acknowledging that balconies are required in the overall design even though they impact on the %ADF achieved in the KLD spaces. Table 6 and Table 7 highlight the impact balconies have on daylight access.

Table 6: Sample ADF Results for Block 02 With & Without Balconies

Block 02 with Balconies	L00	L01	L02	L03	L04
L02 - BEDROOM 01 0211	2.07	2.20	2.47	2.72	3.21
L02 - KITCHEN/LIVING 0211	1.18	1.33	1.61	1.89	3.22
Block 02 without Balconies	**L00**	**L01**	**L02**	**L03**	**L04**
L02 - BEDROOM 01 0211	2.33	2.45	2.73	2.98	3.23
L02 - KITCHEN/LIVING 0211	2.33	2.40	2.71	3.00	3.25

Table 7: Sample ADF Results for Block 07 With & Without Balconies

Block 07 with Balconies	L00	L01	L02	L03	L04	L05	L06	L07
L00 - BEDROOM 01 B.G04	0.69	1.04	0.78	1.40	1.11	2.00	1.48	2.47
L00 - BEDROOM 02 B.G04	0.97	0.70	1.16	0.86	1.57	1.20	2.07	2.34

L00 - KITCHEN/LIVING B.G04	0.68	0.79	0.72	0.99	1.02	1.39	1.45	2.10

Block 07 without Balconies	L00	L01	L02	L03	L04	L05	L06	L07
L00 - BEDROOM 01 B.G04	0.93	1.17	1.28	1.51	1.79	2.06	2.28	2.46
L00 - BEDROOM 02 B.G04	0.98	1.06	1.25	1.46	1.68	1.91	2.13	2.34
L00 - KITCHEN/LIVING B.G04	0.87	1.03	1.14	1.30	1.52	1.75	2.02	2.10

The design target for daylight provision for the KLD is 2% ADF and this has been achieved in over 62% of the kitchen/living/dining rooms and if a more traditional target of 1.5% ADF was used, the spaces meet a target in over 76%. Overall, the design sees 81.5% of all rooms meet the BRE guidelines (1% ADF for bedrooms and 2% ADF for kitchen/living/dining rooms) but with the more traditional target of 1% ADF in bedrooms and 1.5% ADF in kitchen/living/dining rooms, the design sees 86.5% overall.

As can be seen from the results in the tables below, a significant portion of the room's meet the criteria (i.e., 81.5%) set out in the BRE guidelines and BS-8206-2 2008 and are also in line with the development standards for new apartments as set out by the Department of Housing.

When looked at as a total, the quantum of spaces meeting the daylight factor targets is greater than 80% which exceeds international environmental assessment standards such as BREEAM, which targets a figure of 80% and LEED, which targets a figure of 75% to award a credit under the daylighting criteria and demonstrates that the development has '*maximised the daylight'* for the occupied spaces.

The below tables are a breakdown of the 'Average Daylight Factors' based on the analysis of significant representative samples within the proposed development which were extrapolated to assessment all occupiable rooms. For detailed results see Appendix A. The assessment has fully analysed every occupied space in Level 00 – Level 02 (inclusive) as a significant representative sample within each block and has shown the 'lower level's' will receive good quality daylight within the rooms assessed. It should also be noted that the sunlight and daylight requirements must be considered in the context of other competing guidelines and requirements and in particular the requirement for private open space.

These lower-level units were chosen as a representative sample, as from a daylight perspective, the 'lower level's' will always receive the least amount of daylight due their location and to opposing obstructions. As the upper levels will receive higher levels of daylight by nature of their location, the representative sample analysed here would therefore demonstrate the high-quality daylight that will be available throughout the development.

To confirm this, a sample strip of apartments in Blocks 05 & 07 were also analysed from Level 03 upwards demonstrating the actual results obtained on each floor up to roof, justifying the assumptions made across the development, see Table 4 and Table 5 below.

Table 8: Sample ADF Results for Block 07

Apartment Ref.	L03	L04	L05	L06	L07
BED01 B07B.0307	1.40	1.11	2.00	1.48	2.47
BED02 B07B.0307	0.86	1.57	1.20	2.07	2.34
KLD B07B.0307	0.99	1.02	1.39	1.45	2.10

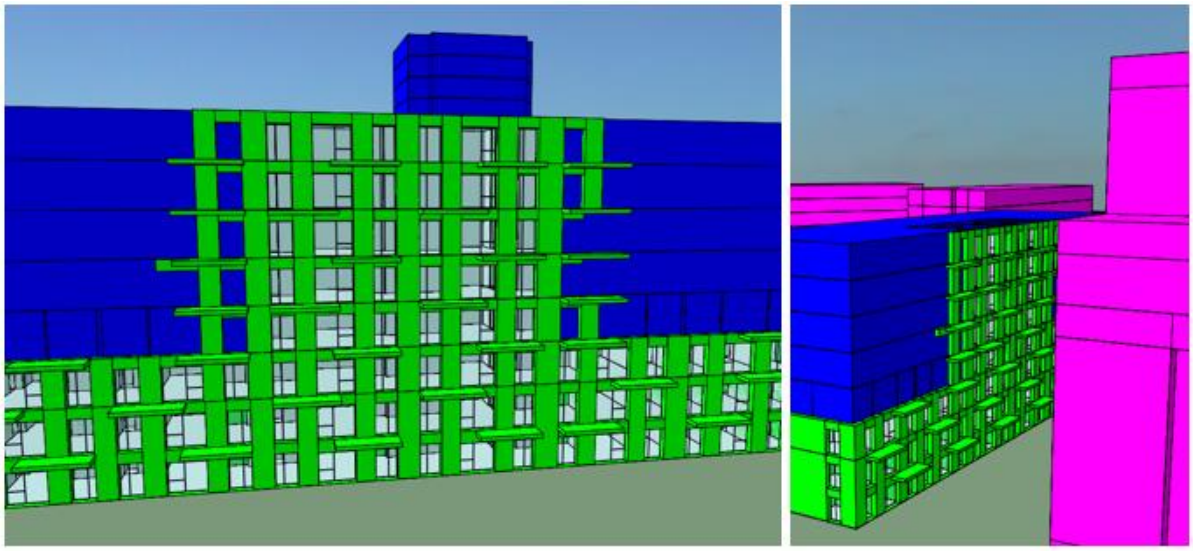

Figure 4: Block 07 Model Image - Sample Strip on East Facade

Table 9: Sample ADF Results for Block 05A

Apartment Ref.	L03	L04	L05	L06	L07	L08
BED01 B05A.0309	1.44	1.56	1.63	5.44	5.51	7.09
BED02 B05A.0309	2.57	2.76	2.89	2.95	2.96	2.97
KLD B05A.0309	2.58	2.74	2.85	2.92	2.95	3.14

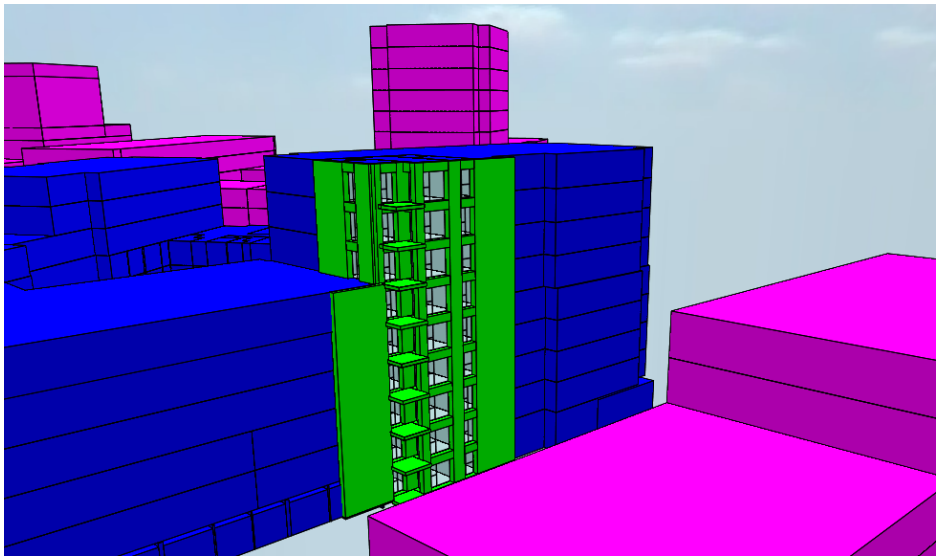

Figure 5: Block 05a Model Image - Sample Strip on Northwest Facade

5.2.1 Block 02

Table 10: Estimated ADF Compliance for Block 02.

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	14	9	20	18	79.4
1	14	9	20	18	79.4
2	14	9	20	18	79.4
3	14	11	20	18	85.3
4	14	14	20	19	97.1
5	6	6	11	11	100
	76	58	111	102	85.6

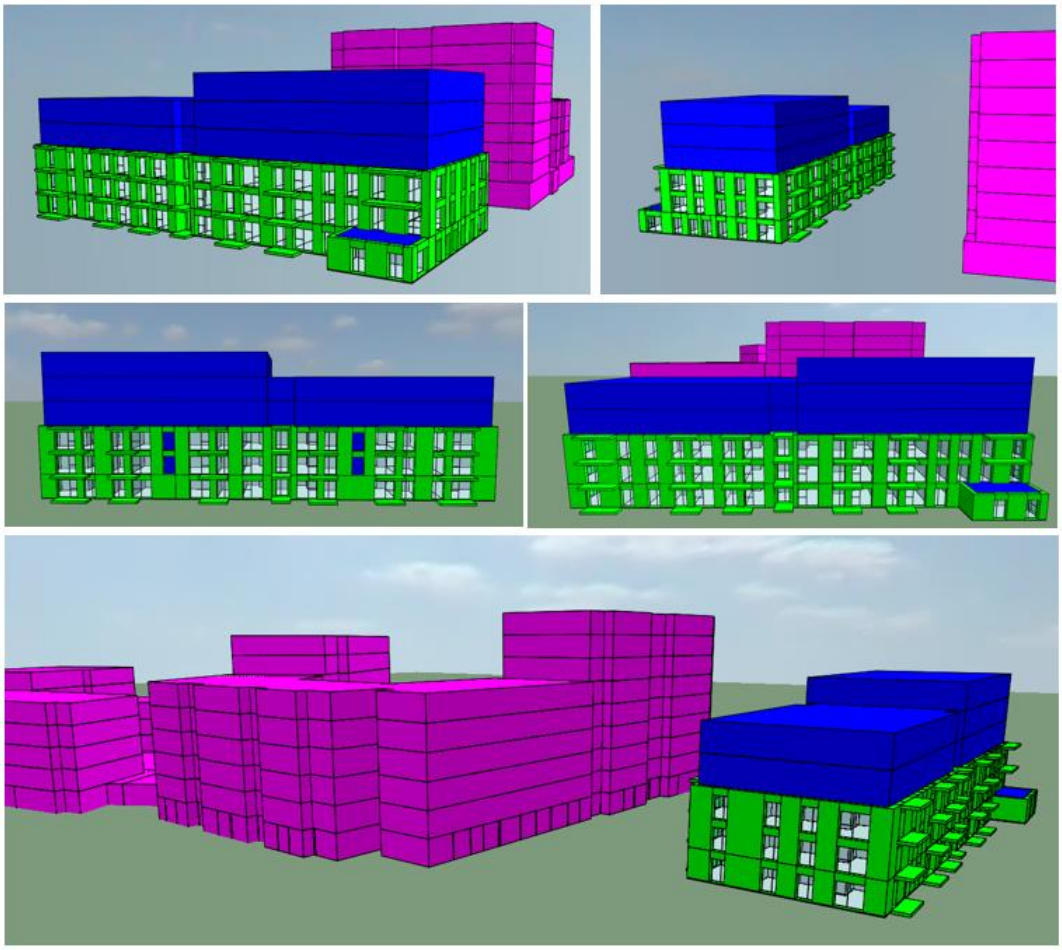

Figure 6: Block 02 - Simulation Model

5.2.2 Block 05

Table 11: Estimated ADF Compliance for Block 05.

Floor	No. of Kitchen/Living rooms	Estimated Meet BRE Target	No. of Bedrooms	Estimated Meet BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	15	11	26	24	85.4
1	55	19	112	94	67.7
2	55	23	112	99	73.1
3	55	28	112	105	79.6
4	49	32	99	98	87.8
5	32	29	70	70	97
6	13	13	27	27	100
7	13	13	27	27	100
8	7	7	13	13	100
	294	175	600	557	81.9

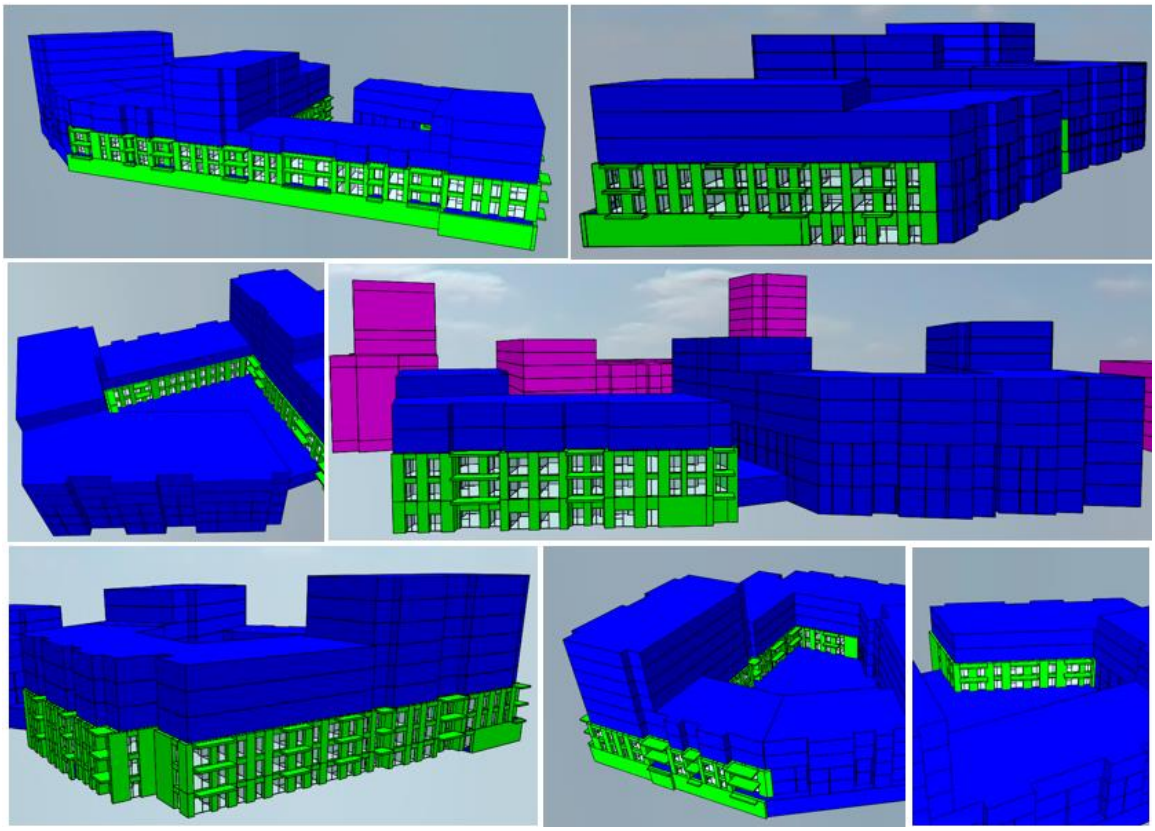

Figure 7: Block 05 - Simulation Model

5.2.3 Block 06

Table 12: Estimated ADF Compliance for Block 06.

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	9	6	18	14	74.1
1	11	5	22	19	72.7
2	11	6	22	19	75.8
3	11	6	22	19	75.8
4	11	7	22	20	81.8
5	11	9	22	21	90.9
6	6	6	12	11	94.4
7	6	6	12	11	94.4
8	4	4	7	7	100
9	4	4	7	7	100
10	4	4	5	5	100
11	4	4	5	5	100
	92	67	176	160	84.7

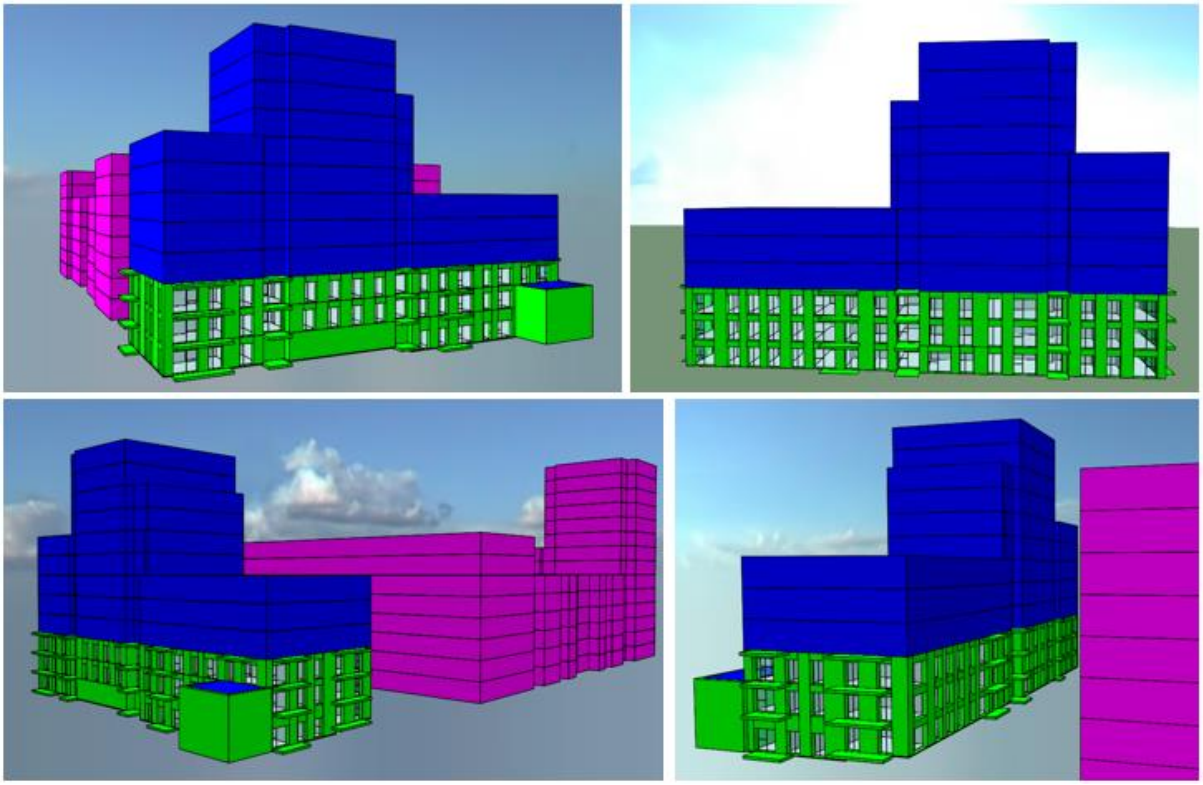

Figure 8: Block 06 - Simulation Model

5.2.4 Block 07

Table 13: Estimated ADF Compliance for Block 07.

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	14	8	24	20	73.7
1	17	8	32	22	61.2
2	41	13	70	64	69.4
3	42	14	72	65	69.3
4	42	16	72	70	75.4
5	42	19	72	70	78.1
6	21	21	37	37	100
7	23	23	41	41	100
8	4	4	6	6	100
9	4	4	6	6	100
10	4	4	6	6	100
11	4	4	6	6	100
12	3	3	6	6	100
13	3	3	6	6	100
	264	144	456	412	77.2

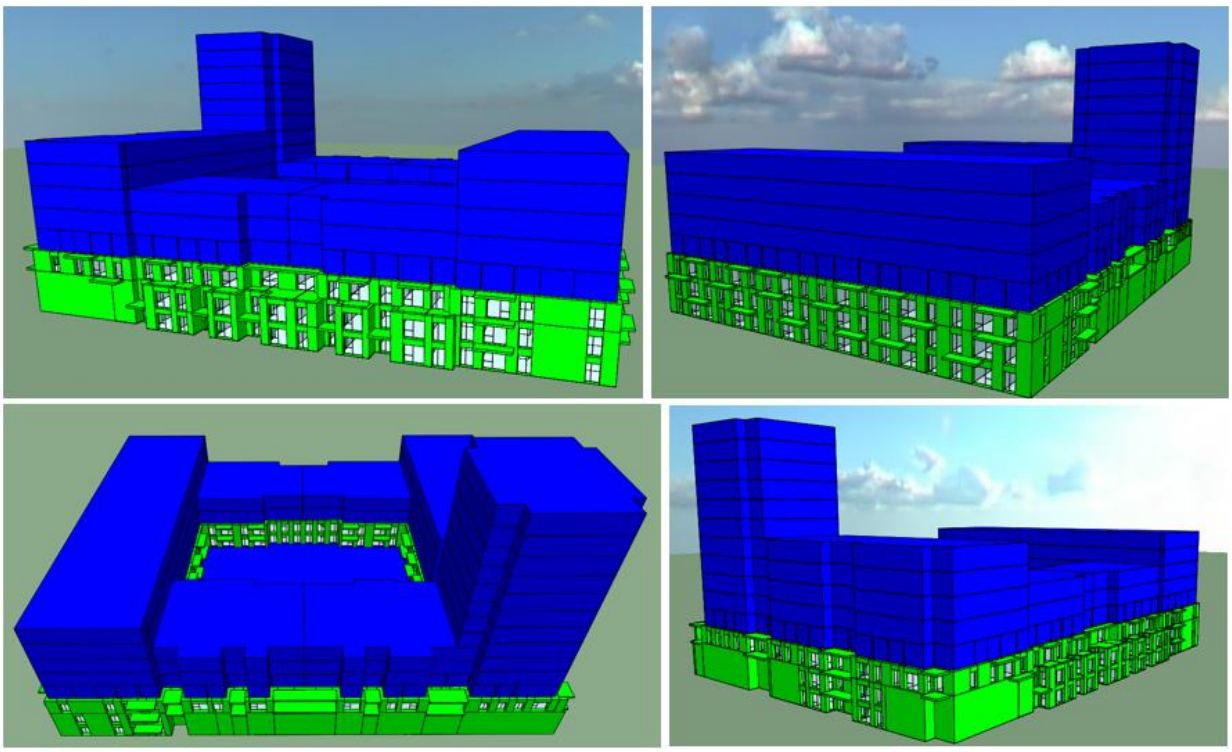

Figure 9: Block 07 - Simulation Model

5.2.5 Block 08

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	6	1	10	10	68.8
1	2	2	18	7	45.0
2	6	1	8	8	64.3
	14	4	36	25	58

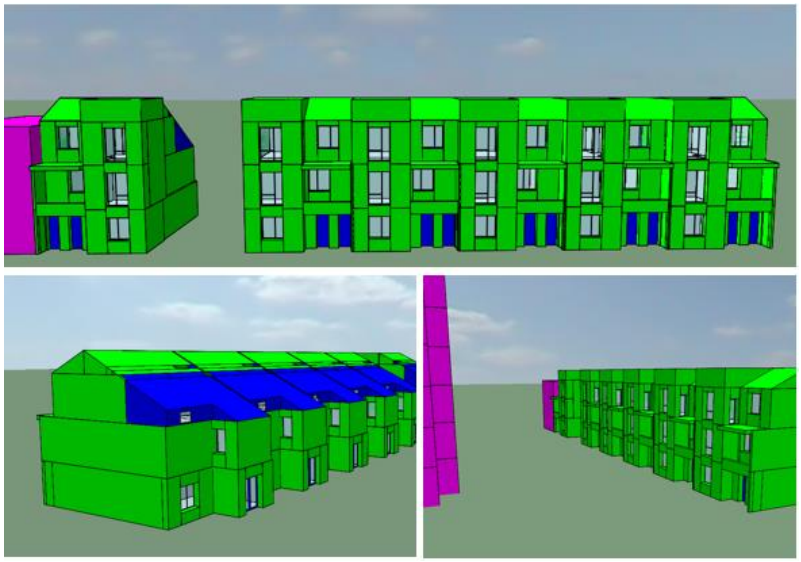

Figure 10: Block 08 (Duplex Apartments) - Simulation Model

5.2.6 Block 09

Table 14: Estimated ADF Compliance for Block 09.

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	16	12	23	20	82.1
1	32	18	54	51	80.2
2	28	15	46	42	77.0
3	28	15	46	42	77.0
4	28	15	46	44	79.7
5	28	17	46	46	85
6	9	9	16	16	100
7	11	11	19	19	100
8	6	6	10	10	100
9	6	6	10	10	100
	192	124	316	300	83.5

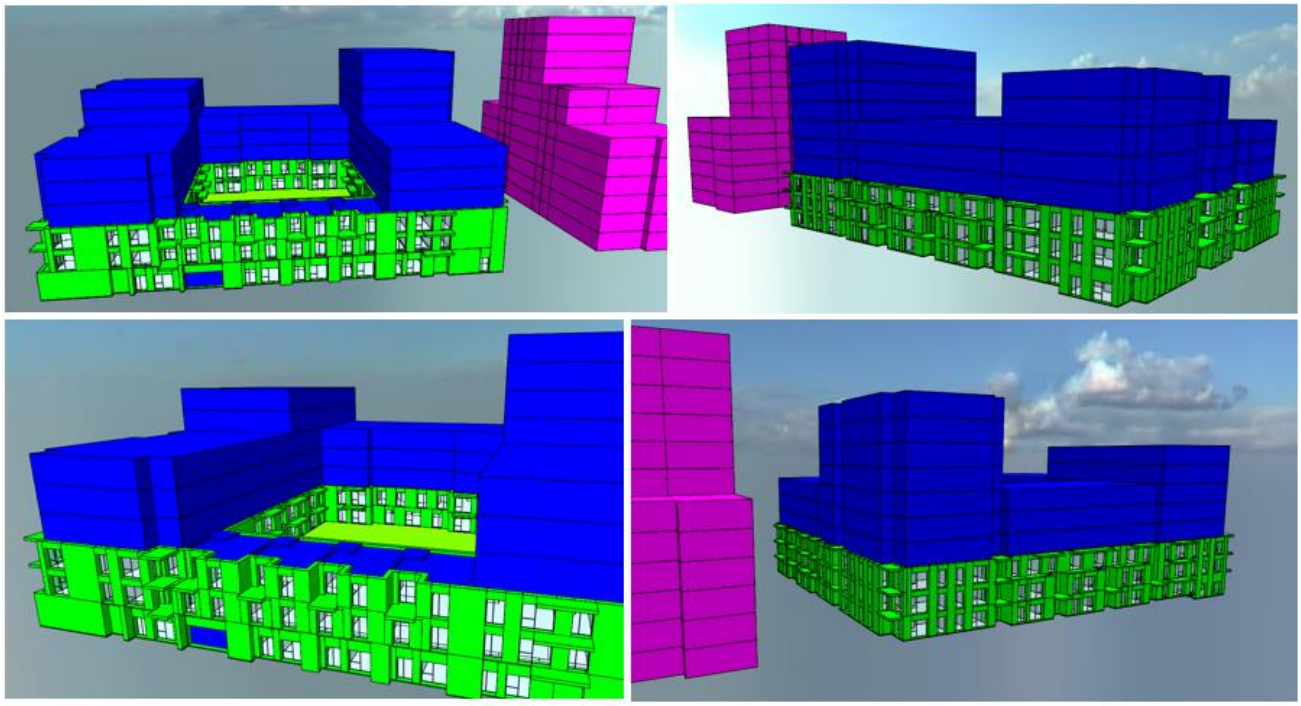

Figure 11: Block 09 - Simulation Model

5.2.7 Block 10

Table 15: Estimated ADF Compliance for Block 10.

Floor	No. of Kitchen/Living rooms	Kitchen/Living Meeting BRE Target	No. of Bedrooms	Bedrooms Meeting BRE Target	Percentage Meet (Kitchen/living + bedrooms) [%]
0	9	6	18	14	74.1
1	11	6	22	18	72.7
2	11	7	22	19	78.8
3	11	7	22	20	81.8
4	11	8	22	21	87.9
5	11	9	22	21	90.9
6	6	6	12	11	94.4
7	6	6	12	11	94.4
8	4	4	7	7	100
9	4	4	7	7	100
10	4	4	5	5	100
11	4	4	5	5	100
	92	71	176	159	85.8

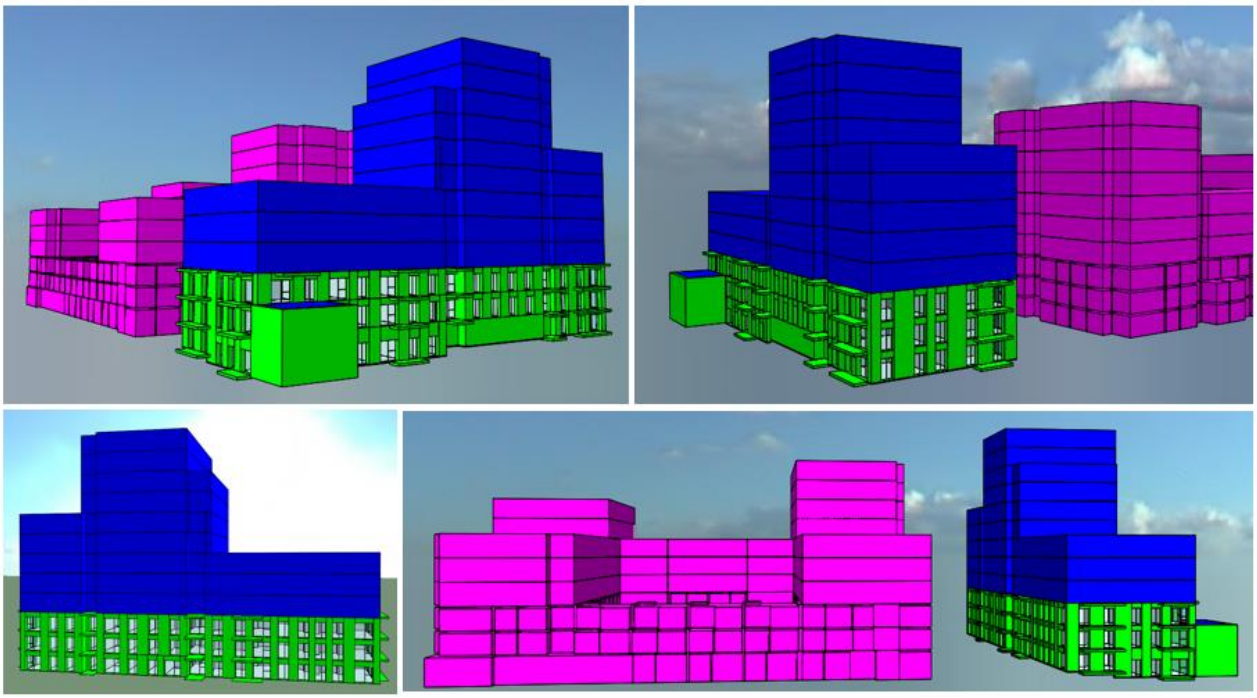

Figure 12: Block 10 - Simulation Model

5.3 Alternative Compensatory Design Solutions

To achieve the desired daylight and sunlight levels within the guidelines, the design process considered a number of different iterations in relation to daylight/ sunlight within the proposed development scheme. The analysis for the Stage 2 submission carried out in line with '*Site Layout Planning for Daylight and Sunlight'* (Littlefair, 2011) and *BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting'* (British Standard Institution, 2008) informed the design team of a baseline performance in relation to the daylight received within the apartments comprising the scheme. Following analysis of the Stage 2 design a range of 'alternative, compensatory design solutions' were identified to potentially improve daylight performance across the site. As outlined below, design solutions considered were:

- **Balcony positions**
- **Glazing areas**
- **Floor to ceiling heights**
- **Site layout and building heights**

Discussions with the design team concluded that utilising the 'alternative, compensatory design solutions' identified would maximise the amount of natural light penetration into the scheme, therefore the solutions were implemented across the site, where feasible.

5.3.1 Balcony Positions

Balconies are an essential part of any apartment as they provide a number of benefits for the resdients that use the space. Balconies provide additional floor space to the units as well as an external area of personal amenity space with direct access to daylight and sunlight all of which are deemed desirable. Therefore, in any large scale residential development there will always be the same design conflict of providing a balcony to meet the requirements of occupants whilst maintaining good levels of daylight access. Traditionally balconies are found stacked above one another as with the Stage 2 design in Figure 13 below, the initial analysis has shown this to limit access to daylight in the apartment spaces below. To combat this, where apppropriate the balconies have been staggered to reduce the impact to daylight, where utilised this solution has shown to be effective at improving daylight access, for the example in Block 07 below, twice as many rooms meet the guidelines in the Stage 3 design (12/24 rooms) compared with the Stage 2 design (6/24 rooms).

Figure 13: Block 07 East Elevation - Stage 2 Design (left), Stage 3 Design (right)

Offsetting the balcony position from directly over the living room is a design solution implemented across the scheme. Figure 2 below illustrates how balcony postions have been altered, this example is for a two bedroom apartment in Block 02. The image to the left is from the Stage 2 scheme and the image to the right is Stage 3. The following highlights the impact offsetting the balcony has on the daylight performance (Average Daylight Factors – ADF):

- Stage 2 – (Bedroom 01 2.21% ADF, Bedroom 02 2.85% ADF, Kitchen/living Room 1.61% ADF)
- Stage 3 – (Bedroom 01 2.97% ADF, Bedroom 02 3.81% ADF, Kitchen/living Room 2.58% ADF)

By adjsuting the balcony postion daylight access can be evenly distributed between the bedroom and kitchen/living area allowing both rooms to meet the guidelines.

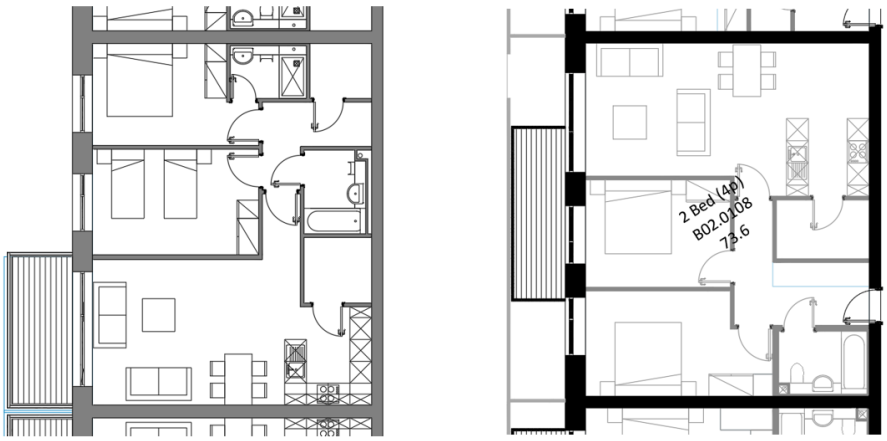

Figure 14: Block 02 1-Bed Apartment Facing Southeast onto Block 05; Stage 2 (left), Stage 3 (right)

5.3.2 Windows

Windows size and placement can dictate daylight access to any space, so they are an important consideration when looking to improve daylight access. A comprehensive review of the fenestration

design highlighted potential areas of improvement, which were to increase window sizes and adjust window positioning. These window design changes were incorporated into the scheme which ultimately led to an improvement in daylight access.

5.3.3 Floor to Ceiling Heights

In large scale developments it is common to see ground floor apartments receive lower amounts of daylight when compared to the upper levels. In order to combat this design constraint, where possible the lower-level apartments have included for higher floor to ceiling heights which reduces the obstruction from balconies above, therefore ensuring that the development still receives good levels of light penetration. It is also important to note that while the lower-level units have less access to daylight generally, this is compensated for in having direct access to courtyards and amenities. Figure 15 below highlights an area within Block 09 where higher floor to ceiling heights has been utilised. The distance from window head height to balcony above in Stage 2 design is 450mm whereas the Stage 3 design allows 1450mm, thus creating a reduced overhang obstruction to light penetration.

Figure 15: Block 09 East Elevation - Stage 2 Design (left), Stage 3 Design (right)

5.3.4 Site Layout and Building Heights

Site layout is the basis for good quality daylight and sunlight throughout any scheme. The planning authorities have pointed out the need to carefully modulate building form, massing, and height in order to "*maximise access to natural daylight, ventilation and views and to minimise overshadowing and loss of light*". Therefore, strategic site layout was at the forefront of design development.

5.3.4.1 Building Form

As a result of modification and adjustments to the block layouts and unit layouts dual aspect units now comprise 38% of the Stage 3 development scheme. Dual-aspect apartments deliver a high-quality amenity for residents by allowing access to daylight and sunlight on two facades. Where building from

has resulted in single aspect north-facing units, these have been designed to overlook significant amenities such as; the central public park, northern public park and the retail street area which has been designed between Block 07 and Block 05.

The opinion issued by An Bord Pleanála in relation to residential amenity requested "*an adequate design response for ground floor units at more sensitive locations*". Figure 16 therefore demonstrates the design response taken to improve daylight provision within habitable rooms at sensitive locations and sunlight in amenity spaces by adjusting the block configurations. Within each block shown, the red overlay highlights the design solution which sought to redesign sections of the blocks that previously caused significant obstruction thereby allowing greater access to daylight.

Figure 16: Stage 3 Development – Red Overlay is the Previous Stage 2 Scheme Design

The Stage 2 scheme has been improved based on the design response highlighted in Figure 3.

Table 16, Table 17 and Table 18 below draw attention to the progress made with the current Stage 3 design in sensitive locations. Example apartments were selected for each block and a comparison is

made from Stage 2 to Stage 3. As can be seen in each of the examples for Blocks 05, 07 and 09 there has been a steady increase in daylight quality across the blocks.

Table 16: Block 05 Design Progress for Podium Level Apartments

REV 2		ADF (%)			REV 3		ADF (%)		
FLOOR	REF.	BED	BED	KLD	FLOOR	REF.	BED	BED	KLD
L01	APT.11	0.89	1.04	0.92	*L01*	5C.0111/0211	0.93	2.18	1.10
L02		1.03	1.30	1.15	*L02*		1.19	2.55	1.39
L01	APT.15	1.33	1.28	1.23	*L01*	5C.0113/213	2.33	-	1.47
L02		1.46	1.32	1.51	*L02*		2.64		1.82
L01	APT.16	0.77	0.88	0.88	*L01*	5B.0109/209	1.16	1.98	1.06
L02		0.75	0.80	0.88	*L02*				

Figure 17: Block 05 Floor Plan with Room References; Stage 2 (left), Stage 3 (right)

Table 17: Block 07 Design Progress for Podium Level Apartments

Block 07 Stage 2		ADF (%)		*Block 07 Stage 3*		ADF (%)	
FLOOR	REF.	BED	KLD	FLOOR	REF.	BED	KLD
L02	APT.02	1.21	0.41	*L02*	A.217/A.317	1.40	0.99
L03		1.45	0.55	*L03*		1.60	1.19
L02	APT.05	0.71	0.93	*L02*	A.219/A.319	2.12	1.32
L03		0.78	1.17	*L03*		2.31	1.54

Figure 18: Block 07 Floor Plan with Room References; Stage 2 (left), Stage 3 (right)

Table 18: Block 09 Design Progress for Podium Level Apartments

Block 09 Stage 2		ADF (%)		*Block 09 Stage 3*		ADF (%)	
FLOOR	REF.	BED	KL	FLOOR	REF.	BED	KL
L01	APT.A	1.59	0.63	*L01*	A.111/A.211	1.92	0.89
L02		1.88	1.10	*L02*		2.05	0.99
L01	APT.C	0.91	0.64	*L01*	A.113/A.213	1.03	0.72
L02		1.00	0.87	*L02*		1.80	1.10

Figure 19: Block 09 Floor Plan with Room References; Stage 2 (left), Stage 3 (right)

6 Houses

In order to assess the quality of daylight enjoyed within the proposed O'Devaney Gardens development an Average Daylight Factor (ADF) calculation was carried out on representative sample rooms in Block 04. The Average Daylight Factor (ADF) is a ratio between indoor illuminance and outdoor illuminance expressed as a percentage. In houses, the following figures should be used to assess if there is a good level of natural light in a space;

- Bedrooms = 1%
- Living Spaces = 1.5%
- Kitchens = 2%

As can be seen from the results in the tables below, 96.1% of all occupiable room's meet the criteria set out in the BRE guidelines and BS-8206-2 2008 based on daylight analysis undertaken on all rooms.

Table 19: ADF Compliance for Houses Within the Proposed Development.

Block	Kitchen/Dining Rooms	Kitchen/Dining Rooms Meeting BRE Guidelines	Living Rooms	Living Rooms Meeting BRE Guidelines	No. of Bedrooms	Bedrooms Meeting BRE Guidelines
04	11	11	11	11	33	33
08A/B	12	12	12	12	24	20

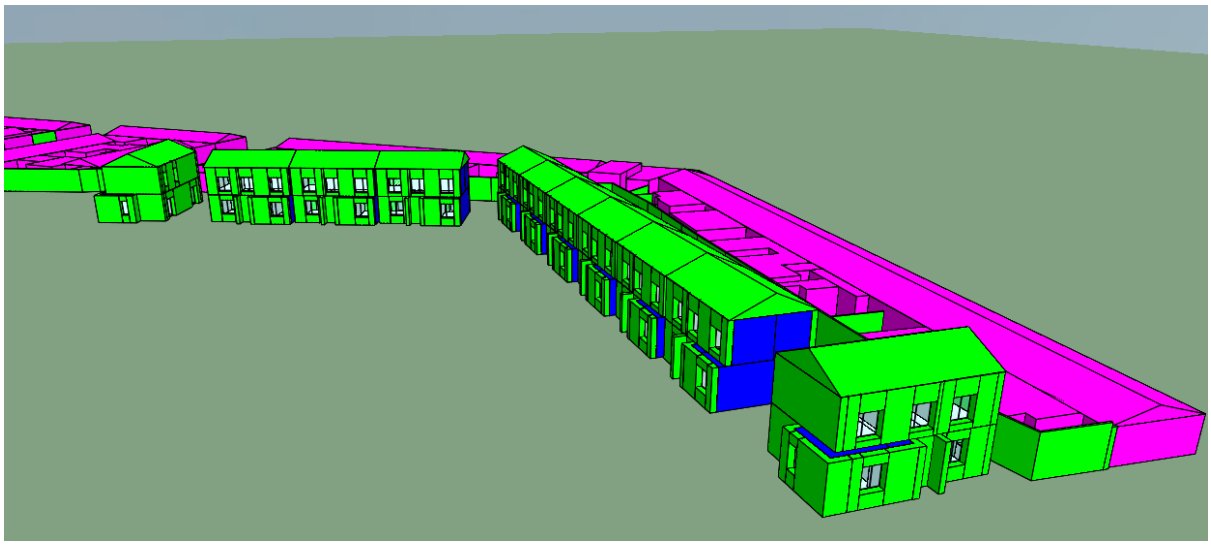

Figure 20: Block 04 Houses - Simulation Model

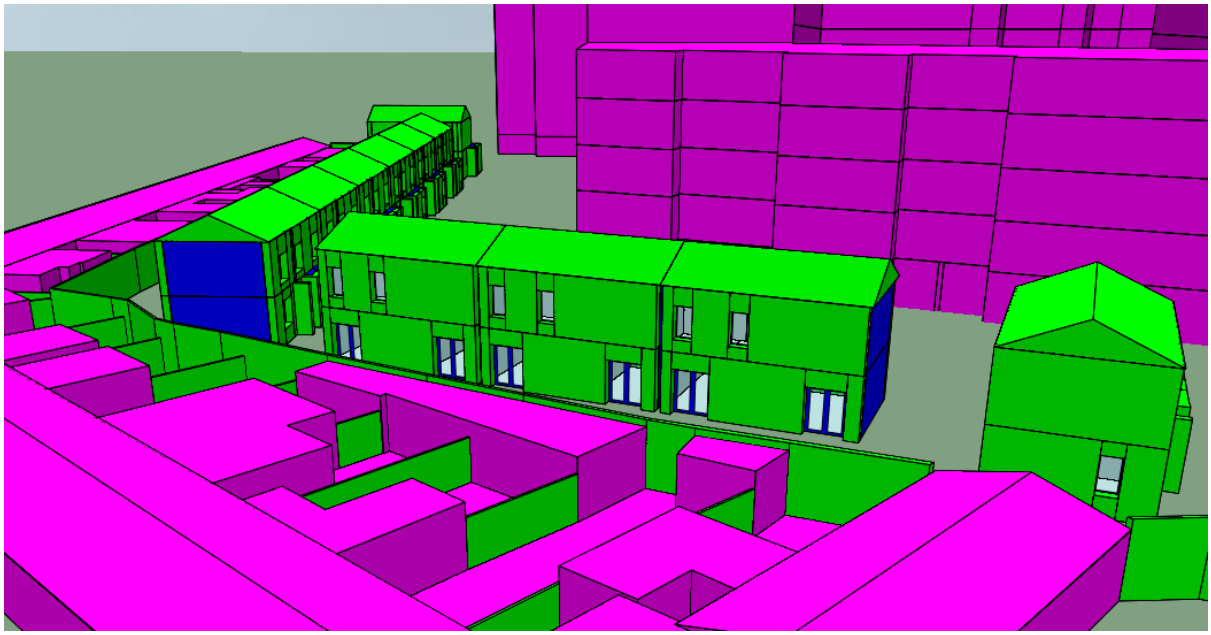

Figure 21: Block 04 Houses - Simulation Model

Figure 22: Block 08a/08b Houses - Simulation Model

7 Open Space & Communal Amenity Spaces

7.1 Gardens & Open Spaces

While providing good levels of daylight and sunlight in living spaces is important, it is also essential to apply the same mentality to outside spaces and amenity areas. An adequately lit garden or open space creates a rich ambience that any occupant would find appealing. A well-lit garden/open space will add value to a property, so it is essential that careful consideration is taken when assessing these spaces.

The below table summarises the access to sunlight within amenity areas across the proposed development.

Table 20: BRE Gardens & Open Spaces Results for the Proposed Development on March 21

General Information			Proposed		
			21 March		
Amenity Reference	BRE Garden & Open Spaces Target (%)	Total Area (m²)	Total Amenity Area Receiving More Than 2 Hours (m²)	Percentage of Amenity Receiving more than 2 Hours (%)	Status (Meets/Below BRE target)
Block 02	50	510.0	510.0	100.0	Meets
Block 05	50	2020.0	1366.0	67.6	Meets
Block 06	50	697.0	697.0	100.0	Meets
Block 07	50	2147.0	1675.0	78.0	Meets
Block 09	50	1280.0	1152.0	90.0	Meets
Block 10	50	690.0	674.0	97.7	Meets

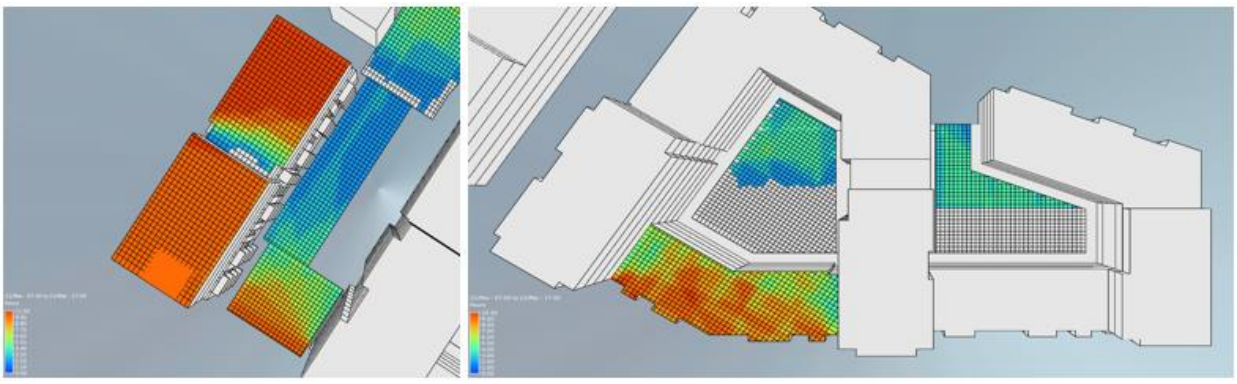

Figure 23: Sun Exposure Image (Block 02- left), (Block 05 - right)

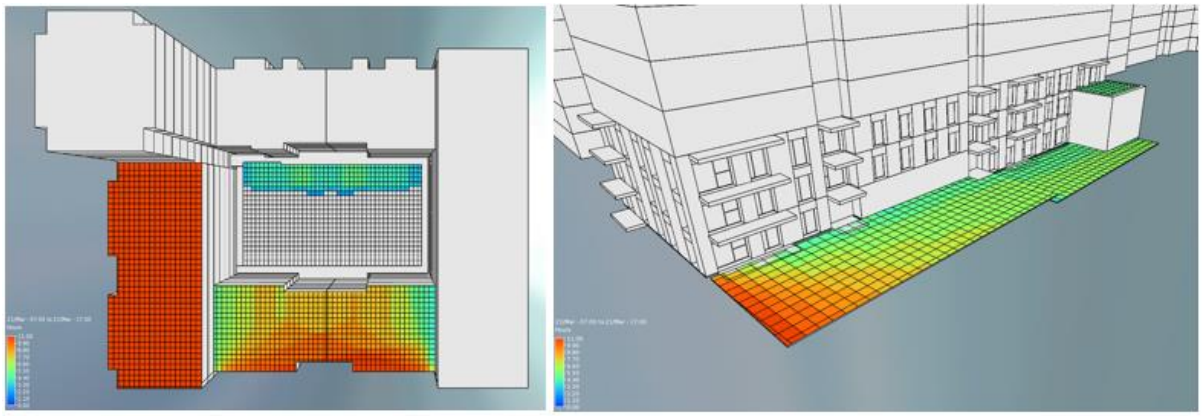

Figure 24: Sun Exposure Image (Block 07- left), (Block 06 - right)

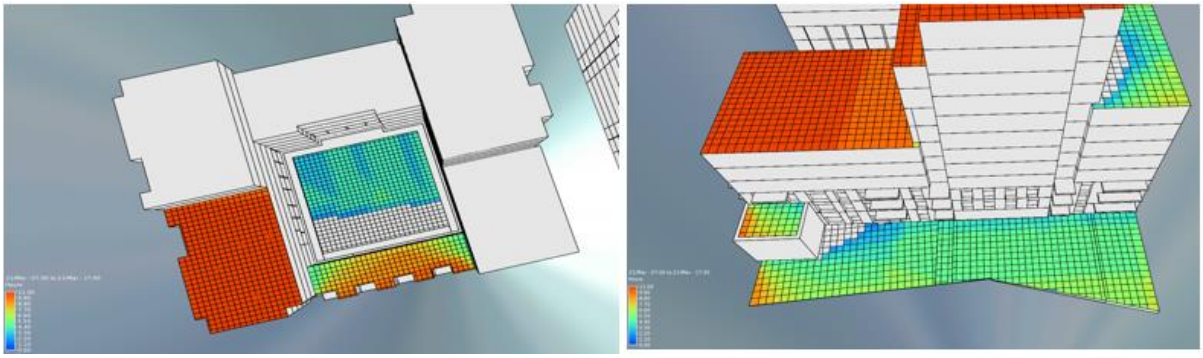

Figure 25: Sun Exposure Image (Block 09- left), (Block 10 - right)

7.2 Alternative Compensatory Design Solutions

7.2.1 Building Form & Heights

Building heights were considered with the objective of avoiding unnecessary overshadowing and loss of light to amenity spaces, therefore a number of 'alternative, compensatory design solutions' were implemented. For example, the southern section of Block 05D has been reduced in height to allow greater access to sunlight in the courtyard amenity, now at level 03. Stage 2 sunlight in courtyards sees Block 05 with 22.2% meetings the guidelines where Stage 3 now sees Block 05d with 51.1%. To improve access to sunlight in the courtyard amenity space of Block 07, the podium now sits a floor above at level 02 therefore reducing the impact from the southern block. A combination of building form and building height adjustments has contributed to the improvement in sunlight access to courtyard amenity areas (Refer to Section 5.6.1 for changes to building form).

8 Adjacent Residential Areas

The design approach with regard to adjoining areas has been to position lower rise elements adjacent neighbouring residential units to minimise the impact to daylight and sunlight for current residents. To demonstrate this the following sections: Light from the Sky, Loss of Sunlight and Gardens and Open Spaces consider the impact to adjacent residential areas.

8.1 Light from the Sky

Table 21: BRE 'Light from the Sky' Summary Results

Reference	Windows Assessed	Windows Meeting 'Light from the Sky' Guidelines	Percentage of Windows Meeting 'Light from the Sky' Guidelines
North Circular Road	52	47	90.4
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	108	102	94.4
Montpelier Gardens, Kinahan St.	50	47	94.0
Montpelier Park, Montpelier Gardens	94	94	100.0
DCC Phase 1	128	37	28.9
Total	432	327	81.5

8.2 Loss of Sunlight

Table 22: BRE 'Loss of Sunlight' Summary Results

Reference	Windows Assessed	Windows Meeting 'Loss of Sunlight' Guidelines	Percentage of Windows Meeting 'Loss of Sunlight' Guidelines
North Circular Road	52	43	82.7
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	68	61	89.7
Montpelier Gardens, Kinahan St.	24	22	91.7
Montpelier Park, Montpelier Gardens	21	21	100.0
DCC Phase 1	22	16	72.7
Total	187	163	87.2

8.3 Gardens and Open Spaces

The below table summarises the access to sunlight within gardens and open spaces adjacent the proposed development.

Table 23: BRE 'Gardens & Open Spaces' Summary Results

Reference	Gardens Assessed	Gardens Meeting 'Gardens & Open Spaces' Guidelines	Percentage of Gardens Meeting 'Gardens & open Spaces' Guidelines
North Circular Road	11	11	100.0
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	6	5	83.3
Montpelier Gardens, Kinahan St.	13	13	100.0
Montpelier Park, Montpelier Gardens	13	13	100.0
Total	43	42	97.7

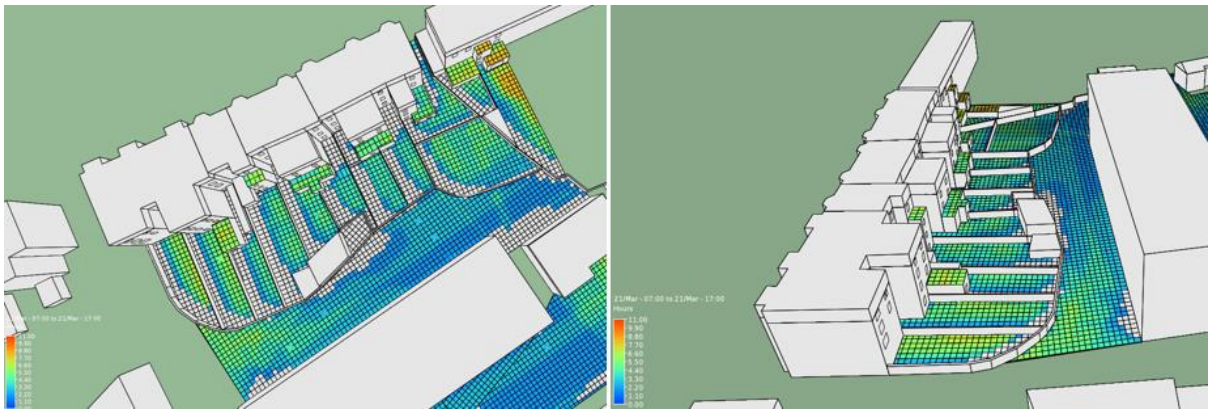

Figure 26: North Circular Road - Sun Exposure March 21

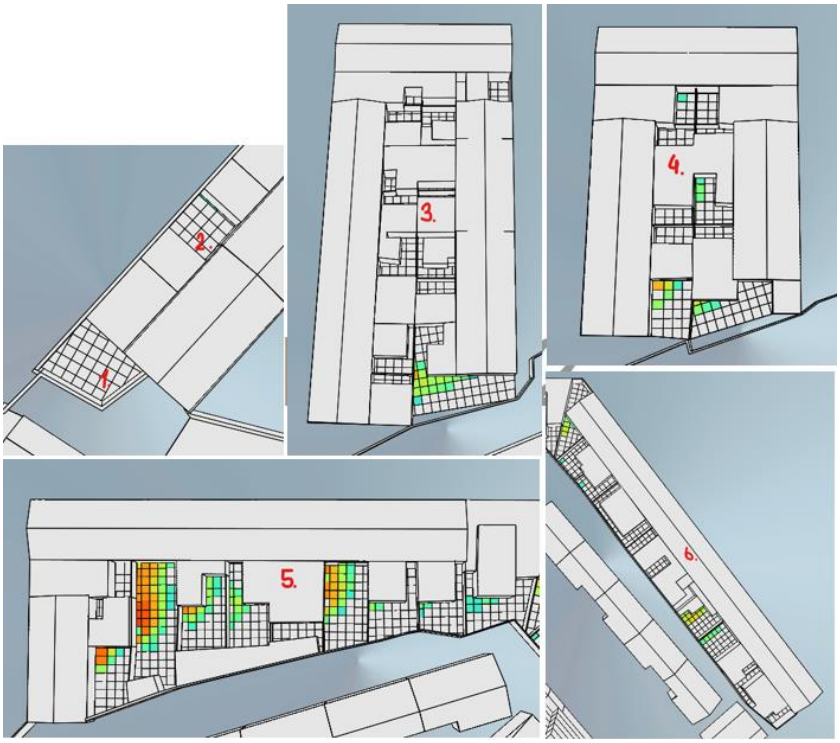

Figure 27: Ashford Cottages - Sun Exposure March 21

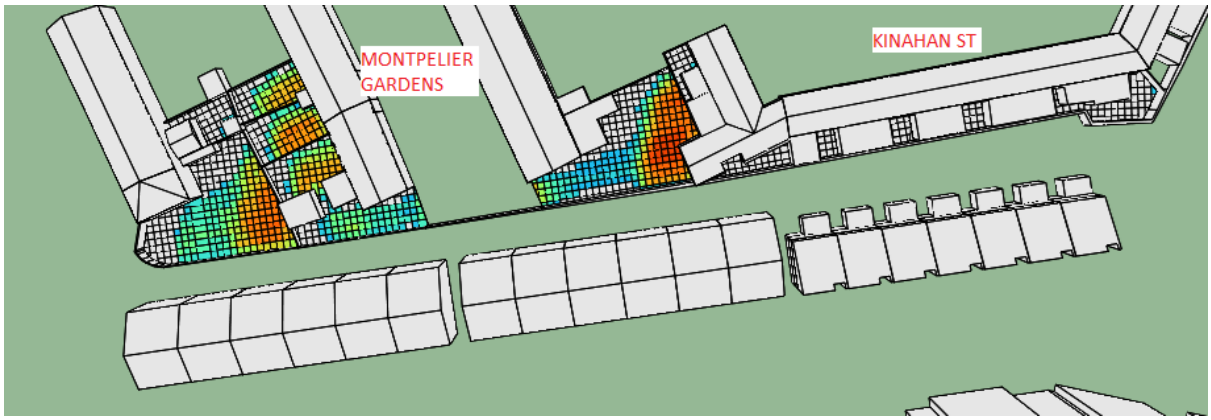

Figure 28: Kinahan St. & Montpelier Gardens - Sun Exposure March 21

8.4 Alternative Compensatory Design Solutions

8.4.1 Impact on Adjacent Residential Areas

Building heights were considered with respect to adjacent properties on the boundary of the site, see Figure 29, Figure 30 and Figure 31. By designing the highest blocks towards the centre of the site whilst positioning lower rise elements to the boundary and maintaining an appropriate separation distance, the impact to daylight and sunlight in adjoining properties is sufficiently negated. All areas which boundary the development site have been assessed with BRE daylight and sunlight methodologies which highlight the minimal impact the proposed development has on adjoining areas, see below:

1. 432 windows have been assessed under the 'Light from the Sky' methodology; 81.5% of all assessed windows meet the guidelines.

2. 187 windows have been assessed under the 'Loss of Sunlight' methodology; 90.3% of all assessed windows meet the guidelines.

3. 43 gardens have been assessed under the 'Gardens and Open Spaces' methodology; 95.8% of all assessed gardens meet the guidelines on March 21.

Figure 29: Block 02 Boundary Relationship with North Circular Road

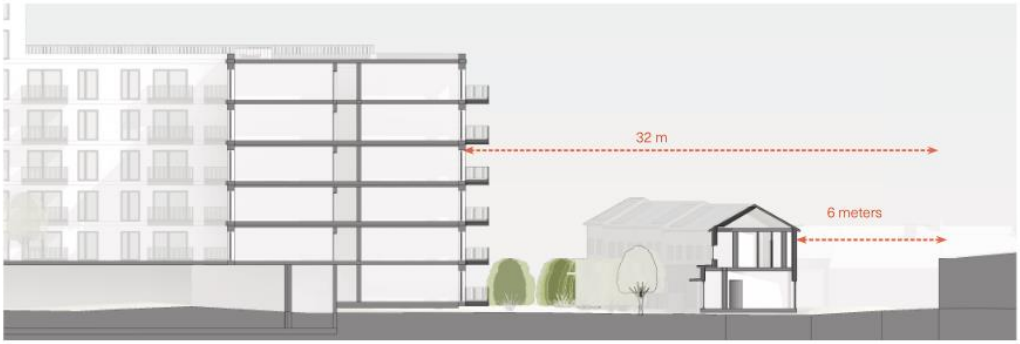

Figure 30: Block 05 Boundary Relationship with Ashford Cottages

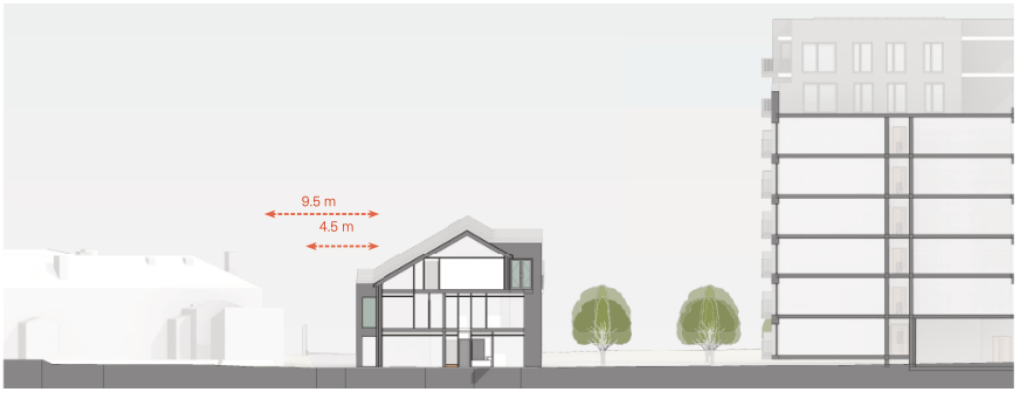

Figure 31: Block 09 Boundary Relationship with Montpelier Gardens

9 Design Progress

Through collaboration with the design team the 'alternative, compensatory design solutions' discussed above, where feasible, were implemented across the site and the progress at this assessment stage is highlighted in the tables below.

Table 24: Design Progress - Average Daylight Factor

Reference	Stage 2 ADF (%)	Stage 3 ADF (%)
Block 02	86.3	85.6
Block 05	75.7	81.9
Block 06	80.7	84.7
Block 07	77.9	77.2
Block 09	81.5	83.5
Block 10	82.9	85.8

Table 25: Design Progress – Gardens & Open Spaces

Reference	Stage 2 Gardens & Open Spaces (%)	Stage 3 Gardens & Open Spaces (%)
Block 02	88.1	100.0
Block 05	61.5	67.6
Block 06	80.5	100.0
Block 07	55.9	78.0
Block 09	78.4	90.0
Block 10	94.1	97.7

Table 26: Impact on the Adjoining Residential Areas

Reference	Percentage of Windows Meeting *'Light from the Sky'* Guidelines	Percentage of Windows Meeting *'Loss of Sunlight'* Guidelines	Percentage of Gardens Meeting *'Gardens & open Spaces'* Guidelines
North Circular Road	90.4	82.7	100.0
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	94.4	89.7	83.3
Montpelier Gardens, Kinahan St.	94.0	91.7	100.0

Montpelier Park, Montpelier Gardens	100.0	100.0	100.0
DCC Phase 1	28.9	87.2	-
Total	81.5	90.3	95.8

10 Results Summary

The following summarise the analysis discussed within this report.

10.1 Apartments

Kitchen/living rooms and bedrooms have been assessed under the 'Average Daylight Factor' methodology; 81.5% of all occupiable rooms will have adequate access to daylight. The below table estimates the number of rooms which will meet guideline ADF values based on representative sample daylight analysis within each block.

Table 27: Estimated ADF Compliance for All Occupied Rooms Within the Proposed Development Against BRE Guidelines

Block	No. of Kitchen/Living rooms	Estimated to Meet BRE 2.0% ADF Target	No. of Bedrooms	Estimated to Meet BRE 1.0% ADF Target	Overall Percentage of Rooms Estimated to Meet BRE Targets (%)
02	76	58	111	102	85.6
05	294	175	600	557	81.9
06	92	67	176	160	84.7
07	264	144	456	412	77.2
08C (Duplex)	14	4	36	25	58.0
09	192	124	316	300	83.5
10	92	71	176	159	85.8
Total	1023	643	1871	1715	81.5

Table 28: Estimated ADF Compliance for All Occupied Rooms Within the Proposed Development Against Industry Targets

Block	No. of Kitchen/Living rooms	Estimated to Meet Industry 1.5% ADF Target	No. of Bedrooms	Estimated to Meet Industry 1.0% ADF Target	Overall Percentage of Rooms Estimated to Meet Industry Targets (%)
02	76	73	111	102	93.6
05	293	216	600	557	86.6
06	92	81	176	160	89.9

07	264	187	456	412	83.2
08C (Duplex)	14	9	36	25	68.0
09	192	143	316	300	87.2
10	92	81	176	159	89.6
Total	1023	787	1871	1715	86.5

10.2 Houses

Kitchen/dining rooms, living spaces and bedrooms have been assessed under the 'Average Daylight Factor' methodology; 96.1% of all occupiable rooms will have adequate access to daylight. The below table estimates the number of rooms which will meet guideline ADF values based on daylight analysis undertaken on all houses.

Table 29: Estimated ADF Compliance for Proposed Development

Block	Kitchen/Dining Rooms	Kitchen/Dining Rooms Meeting BRE Guidelines	Living Rooms	Living Rooms Meeting BRE Guidelines	No. of Bedrooms	Bedrooms Meeting BRE Guidelines
04	11	11	11	11	33	33
08A/B	12	12	12	12	24	20

10.3 Open Space & Communal Amenity Spaces

All proposed communal amenity spaces have been assessed under the 'Gardens and Open Spaces' methodology; 100% of all assessed communal amenity spaces meet the guidelines on March 21.

Table 30: BRE Gardens & Open Spaces Results for the Proposed Development on March 21

General Information			Proposed		
			21 March		
Amenity Reference	BRE Garden & Open Spaces Target (%)	Total Area (m²)	Total Amenity Area Receiving More Than 2 Hours (m²)	Percentage of Amenity Receiving more than 2 Hours (%)	Status (Meets/Below BRE target)
Block 02	50	510.0	510.0	100.0	Meets
Block 05	50	2020.0	1366.0	67.6	Meets
Block 06	50	697.0	697.0	100.0	Meets

Block 07	50	2147.0	1675.0	78.0	Meets
Block 09	50	1280.0	1152.0	90.0	Meets
Block 10	50	690.0	674.0	97.7	Meets

10.4 Adjacent Residential Areas

1. 432 windows have been assessed under the 'Light from the Sky' methodology which assesses daylight access to windows; 81.5% of all assessed windows meet the guidelines.

2. 187 windows have been assessed under the 'Loss of Sunlight' methodology which assesses sunlight access to windows; 90.3% of all assessed windows meet the guidelines.

3. 43 gardens have been assessed under the 'Gardens and Open Spaces' methodology which assesses sunlight access to gardens; 95.8% of all assessed gardens meet the guidelines on March 21.

Table 31: Impact on the Adjoining Residential Areas

Reference	Percentage of Windows Meeting *'Light from the Sky'* Guidelines	Percentage of Windows Meeting *'Loss of Sunlight'* Guidelines	Percentage of Gardens Meeting *'Gardens & open Spaces'* Guidelines
North Circular Road	90.4	82.7	100.0
Ross St., Ashford St., Ashford Place, Ashford Cottages, Thor Place	94.4	89.7	83.3
Montpelier Gardens, Kinahan St.	94.0	91.7	100.0
Montpelier Park, Montpelier Gardens	100.0	100.0	100.0
DCC Phase 1	28.9	87.2	-
Total	81.5	90.3	95.8

11 Conclusions

When interpreting results, consideration should be given to the notes outlined in the introduction of this report.

With regard to adjoining areas, the design approach to the positioning of lower rise elements adjacent to neighbouring residential units has shown to sufficiently negate the impact to daylight and sunlight for current residents, therefore preserving the amenity enjoyment.

The scheme design has utilised a combined kitchen/living/dining (KLD) room typology within apartments where the kitchen is located on the internal wall to the rear of the living space. As per the BS 8206 – Code of Practice for Daylighting which outlines where one room serves more than one purpose, then the minimum average daylight factor that should be used is the room with the higher value, which in the case of this development all the living rooms are connected to a kitchen and therefore the 2% ADF value has been targeted in the design.

Collaboration with the design team through preliminary analysis highlighted potential areas for optimisation such as increased window sizes, balcony layouts, building separation distances etc. this iterative design process, considered alternative design solutions and availed of all available alternative, compensatory design solutions to optimise daylight to all apartments

As can be seen from the results, a significant portion of the room's meet the criteria set out in the BRE guidelines and BS-8206-2 2008 and are also in line with the development standards for new apartments as set out by the Department of Housing.

When looked at as a total, the quantum of spaces meeting the daylight factor targets is greater than 80% which exceeds international environmental assessment standards such as BREEAM, which targets a figure of 80% and LEED, which targets a figure of 75% to award a credit under the daylighting criteria and demonstrates that the development has '*maximised the daylight'* for the occupied spaces.

In conclusion, the design meets with the principles of the BRE guide - 'Site Layout Planning for Daylight and Sunlight' (Littlefair, 2011), BS 8206-2: 2008 – 'Lighting for Buildings – Part 2: Code of Practice for Daylighting' (British Standard Institution, 2008) and the latest guidelines for new apartments as issued by the Department of Housing with good quality daylight available across a substantial portion of the development. Good levels of sunlight will also be available in the development's amenity areas.

12 Bibliography

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Littlefair, P., 1991. *Site Layout Planning for Daylight and Sunlight 1991: A Guide to Good Practice.* Watford: IHS BRE Press.

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13 Appendices

13.1 Appendix A – Apartments Detailed Results (Average Daylight Factor)

*Highlighted status box refers to kitchen/living/dining rooms that would meet 'industry' standards ADF targets.

Results Key	ADF	Status
Bedrooms	>=1.0%	Meets
Bedrooms	<1.0%	Below
Combined Kitchen/living/dining rooms	>=2.0%	Meets
Combined Kitchen/living/dining rooms	>=1.5% <2.0%	Below
Combined Kitchen/living/dining rooms	<1.5%	Below

13.1.1 Block 02 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 0001	1.0	1.09	Meets
L00 - KITCHEN/LIVING 0001	2.0	1.53	Below
L00 - BEDROOM 01 0002	1.0	4.23	Meets
L00 - BEDROOM 02 0002	1.0	3.39	Meets
L00 - KITCHEN/LIVING 0002	2.0	5.05	Meets
L00 - BEDROOM 01 0003	1.0	3.81	Meets
L00 - BEDROOM 02 0003	1.0	4.03	Meets
L00 - BEDROOM 03 0003	1.0	4.62	Meets
L00 - KITCHEN/LIVING 0003	2.0	5.99	Meets
L00 - BEDROOM 01 0004	1.0	2.57	Meets
L00 - KITCHEN/LIVING 0004	2.0	3.42	Meets
L00 - BEDROOM 01 0005	1.0	2.61	Meets
L00 - KITCHEN/LIVING 0005	2.0	3.42	Meets
L00 - BEDROOM 01 0006	1.0	1.73	Meets
L00 - KITCHEN/LIVING 0006	2.0	3.66	Meets
L00 - BEDROOM 01 0007	1.0	2.71	Meets
L00 - KITCHEN/LIVING 0007	2.0	3.34	Meets
L00 - BEDROOM 01 0008	1.0	3.03	Meets
L00 - BEDROOM 02 0008	1.0	3.80	Meets
L00 - KITCHEN/LIVING 0008	2.0	2.67	Meets
L00 - BEDROOM 01 0009	1.0	3.49	Meets
L00 - BEDROOM 02 0009	1.0	3.13	Meets
L00 - KITCHEN/LIVING 0009	2.0	5.13	Meets
L00 - BEDROOM 01 0010	1.0	1.54	Meets
L00 - BEDROOM 02 0010	1.0	3.28	Meets
L00 - KITCHEN/LIVING 0010	2.0	3.18	Meets
L00 - BEDROOM 01 0011	1.0	1.97	Meets

L00 - KITCHEN/LIVING 0011	2.0	1.15	Below
L00 - BEDROOM 01 0012	1.0	1.02	Meets
L00 - KITCHEN/LIVING 0012	2.0	1.39	Below
L00 - BEDROOM 01 0013	1.0	0.54	Below
L00 - KITCHEN/LIVING 0013	2.0	1.56	Below
L00 - BEDROOM 01 0014	1.0	0.79	Below
L00 - KITCHEN/LIVING 0014	2.0	1.63	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 0101	1.0	1.10	Meets
L01 - KITCHEN/LIVING 0101	2.0	1.54	Below
L01 - BEDROOM 01 0102	1.0	4.24	Meets
L01 - BEDROOM 02 0102	1.0	3.36	Meets
L01 - KITCHEN/LIVING 0102	2.0	5.05	Meets
L01 - BEDROOM 01 0103	1.0	2.74	Meets
L01 - BEDROOM 02 0103	1.0	4.12	Meets
L01 - BEDROOM 03 0103	1.0	4.80	Meets
L01 - KITCHEN/LIVING 0103	2.0	5.97	Meets
L01 - BEDROOM 01 0104	1.0	2.49	Meets
L01 - KITCHEN/LIVING 0104	2.0	3.29	Meets
L01 - BEDROOM 01 0105	1.0	2.54	Meets
L01 - KITCHEN/LIVING 0105	2.0	3.27	Meets
L01 - BEDROOM 01 0106	1.0	1.67	Meets
L01 - KITCHEN/LIVING 0106	2.0	3.69	Meets
L01 - BEDROOM 01 0107	1.0	2.62	Meets
L01 - KITCHEN/LIVING 0107	2.0	3.25	Meets
L01 - BEDROOM 01 0108	1.0	2.97	Meets
L01 - BEDROOM 02 0108	1.0	3.81	Meets
L01 - KITCHEN/LIVING 0108	2.0	2.58	Meets
L01 - BEDROOM 01 0109	1.0	3.51	Meets
L01 - BEDROOM 02 0109	1.0	3.11	Meets
L01 - KITCHEN/LIVING 0109	2.0	4.93	Meets
L01 - BEDROOM 01 0110	1.0	1.70	Meets
L01 - BEDROOM 02 0110	1.0	3.25	Meets
L01 - KITCHEN/LIVING 0110	2.0	3.25	Meets
L01 - BEDROOM 01 0111	1.0	2.11	Meets
L01 - KITCHEN/LIVING 0111	2.0	1.29	Below
L01 - BEDROOM 01 0112	1.0	1.11	Meets
L01 - KITCHEN/LIVING 0112	2.0	1.50	Below
L01 - BEDROOM 01 0113	1.0	0.58	Below
L01 - KITCHEN/LIVING 0113	2.0	1.76	Below
L01 - BEDROOM 01 0114	1.0	0.79	Below
L01 - KITCHEN/LIVING 0114	2.0	1.66	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 0201	1.0	1.17	Meets
L02 - KITCHEN/LIVING 0201	2.0	1.67	Below
L02 - BEDROOM 01 0202	1.0	4.23	Meets
L02 - BEDROOM 02 0202	1.0	3.35	Meets
L02 - KITCHEN/LIVING 0202	2.0	5.16	Meets
L02 - BEDROOM 01 0203	1.0	2.80	Meets
L02 - BEDROOM 02 0203	1.0	4.20	Meets
L02 - BEDROOM 03 0203	1.0	4.85	Meets
L02 - KITCHEN/LIVING 0203	2.0	5.99	Meets
L02 - BEDROOM 01 0204	1.0	2.51	Meets
L02 - KITCHEN/LIVING 0204	2.0	3.30	Meets
L02 - BEDROOM 01 0205	1.0	2.56	Meets
L02 - KITCHEN/LIVING 0205	2.0	3.27	Meets
L02 - BEDROOM 01 0206	1.0	1.68	Meets
L02 - KITCHEN/LIVING 0206	2.0	3.68	Meets
L02 - BEDROOM 01 0207	1.0	2.63	Meets
L02 - KITCHEN/LIVING 0207	2.0	3.26	Meets
L02 - BEDROOM 01 0208	1.0	2.98	Meets
L02 - BEDROOM 02 0208	1.0	3.82	Meets
L02 - KITCHEN/LIVING 0208	2.0	2.59	Meets
L02 - BEDROOM 01 0209	1.0	3.50	Meets
L02 - BEDROOM 02 0209	1.0	3.10	Meets
L02 - KITCHEN/LIVING 0209	2.0	4.94	Meets
L02 - BEDROOM 01 0210	1.0	1.94	Meets
L02 - BEDROOM 02 0210	1.0	3.27	Meets
L02 - KITCHEN/LIVING 0210	2.0	3.47	Meets
L02 - BEDROOM 01 0211	1.0	2.35	Meets
L02 - KITCHEN/LIVING 0211	2.0	1.55	Below
L02 - BEDROOM 01 0212	1.0	1.30	Meets
L02 - KITCHEN/LIVING 0212	2.0	1.72	Below
L02 - BEDROOM 01 0213	1.0	0.65	Below
L02 - KITCHEN/LIVING 0213	2.0	1.96	Below
L02 - BEDROOM 01 0214	1.0	0.88	Below
L02 - KITCHEN/LIVING 0214	2.0	1.86	Below

13.1.2 Block 05A ADF Results

Block 5A -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 5A.0001	1.0	0.96	Below
L00 - KITCHEN/LIVING 5A.0001	2.0	2.17	Meets
L00 - BEDROOM 01 5A.0002	1.0	0.93	Below
L00 - KITCHEN/LIVING 5A.0002	2.0	2.26	Meets
L00 - BEDROOM 01 5A.0003	1.0	1.14	Meets
L00 - BEDROOM 02 5A.0003	1.0	2.10	Meets
L00 - KITCHEN/LIVING 5A.0003	2.0	1.89	Below

Block 5A -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 5A.0101	1.0	2.23	Meets
L01 - BEDROOM 02 5A.0101	1.0	2.44	Meets
L01 - KITCHEN/LIVING 5A.0101	2.0	1.19	Below
L01 - BEDROOM 01 5A.0102	1.0	1.97	Meets
L01 - BEDROOM 02 5A.0102	1.0	2.34	Meets
L01 - BEDROOM 03 5A.0102	1.0	2.19	Meets
L01 - KITCHEN/LIVING 5A.0102	2.0	1.33	Below
L01 - BEDROOM 01 5A.0103	1.0	1.67	Meets
L01 - BEDROOM 02 5A.0103	1.0	3.12	Meets
L01 - KITCHEN/LIVING 5A.0103	2.0	2.59	Meets
L01 - BEDROOM 01 5A.0104	1.0	1.76	Meets
L01 - KITCHEN/LIVING 5A.0104	2.0	3.46	Meets
L01 - BEDROOM 01 5A.0105	1.0	1.78	Meets
L01 - BEDROOM 02 5A.0105	1.0	3.06	Meets
L01 - KITCHEN/LIVING 5A.0105	2.0	2.80	Meets
L01 - BEDROOM 01 5A.0106	1.0	2.76	Meets
L01 - BEDROOM 02 5A.0106	1.0	3.25	Meets
L01 - KITCHEN/LIVING 5A.0106	2.0	4.26	Meets
L01 - BEDROOM 01 5A.0107	1.0	0.76	Below
L01 - BEDROOM 02 5A.0107	1.0	2.13	Meets
L01 - KITCHEN/LIVING 5A.0107	2.0	1.89	Below
L01 - BEDROOM 01 5A.0108	1.0	0.75	Below
L01 - KITCHEN/LIVING 5A.0108	2.0	2.41	Meets
L01 - BEDROOM 01 5A.0109	1.0	1.12	Meets
L01 - BEDROOM 02 5A.0109	1.0	2.28	Meets
L01 - KITCHEN/LIVING 5A.0109	2.0	2.01	Meets
L01 - BEDROOM 01 5A.0110	1.0	0.64	Below
L01 - BEDROOM 02 5A.0110	1.0	2.33	Meets
L01 - KITCHEN/LIVING 5A.0110	2.0	1.55	Below

L01 - BEDROOM 01 5A.0111	1.0	2.29	Meets
L01 - BEDROOM 02 5A.0111	1.0	1.18	Meets
L01 - KITCHEN/LIVING 5A.0111	2.0	0.78	Below

Block 5A -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 5A.0201	1.0	2.25	Meets
L02 - BEDROOM 02 5A.0201	1.0	2.70	Meets
L02 - KITCHEN/LIVING 5A.0201	2.0	1.33	Below
L02 - BEDROOM 01 5A.0202	1.0	1.97	Meets
L02 - BEDROOM 02 5A.0202	1.0	2.57	Meets
L02 - BEDROOM 03 5A.0202	1.0	2.43	Meets
L02 - KITCHEN/LIVING 5A.0202	2.0	1.33	Below
L02 - BEDROOM 01 5A.0203	1.0	1.67	Meets
L02 - BEDROOM 02 5A.0203	1.0	3.11	Meets
L02 - KITCHEN/LIVING 5A.0203	2.0	2.59	Meets
L02 - BEDROOM 01 5A.0204	1.0	1.76	Meets
L02 - KITCHEN/LIVING 5A.0204	2.0	3.48	Meets
L02 - BEDROOM 01 5A.0205	1.0	1.78	Meets
L02 - BEDROOM 02 5A.0205	1.0	3.08	Meets
L02 - KITCHEN/LIVING 5A.0205	2.0	2.81	Meets
L02 - BEDROOM 01 5A.0206	1.0	2.97	Meets
L02 - BEDROOM 02 5A.0206	1.0	3.54	Meets
L02 - KITCHEN/LIVING 5A.0206	2.0	5.57	Meets
L02 - BEDROOM 01 5A.0207	1.0	0.96	Below
L02 - BEDROOM 02 5A.0207	1.0	2.36	Meets
L02 - KITCHEN/LIVING 5A.0207	2.0	2.09	Meets
L02 - BEDROOM 01 5A.0208	1.0	0.96	Below
L02 - KITCHEN/LIVING 5A.0208	2.0	2.65	Meets
L02 - BEDROOM 01 5A.0209	1.0	1.35	Meets
L02 - BEDROOM 02 5A.0209	1.0	2.55	Meets
L02 - KITCHEN/LIVING 5A.0209	2.0	2.24	Meets
L02 - BEDROOM 01 5A.0210	1.0	0.83	Below
L02 - BEDROOM 02 5A.0210	1.0	2.63	Meets
L02 - KITCHEN/LIVING 5A.0210	2.0	1.80	Below
L02 - BEDROOM 01 5A.0211	1.0	2.62	Meets
L02 - BEDROOM 02 5A.0211	1.0	1.62	Meets
L02 - KITCHEN/LIVING 5A.0211	2.0	1.00	Below

13.1.3 Block 05B ADF Results

Block 5B -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 5B.0001	1.0	1.76	Meets
L00 - BEDROOM 02 5B.0001	1.0	3.24	Meets
L00 - KITCHEN/LIVING 5B.0001	2.0	1.81	Below
L00 - BEDROOM 01 5B.0002	1.0	1.92	Meets
L00 - BEDROOM 02 5B.0002	1.0	3.51	Meets
L00 - KITCHEN/LIVING 5B.0002	2.0	2.31	Meets
L00 - BEDROOM 01 5B.0003	1.0	2.52	Meets
L00 - BEDROOM 02 5B.0003	1.0	4.48	Meets
L00 - BEDROOM 03 5B.0003	1.0	3.80	Meets
L00 - KITCHEN/LIVING 5B.0003	2.0	3.86	Meets
L00 - BEDROOM 01 5B.0004	1.0	3.68	Meets
L00 - BEDROOM 02 5B.0004	1.0	4.17	Meets
L00 - BEDROOM 03 5B.0004	1.0	3.76	Meets
L00 - KITCHEN/LIVING 5B.0004	2.0	2.84	Meets
L00 - BEDROOM 01 5B.0005	1.0	2.66	Meets
L00 - KITCHEN/LIVING 5B.0005	2.0	3.42	Meets
L00 - BEDROOM 01 5B.0006	1.0	3.79	Meets
L00 - BEDROOM 02 5B.0006	1.0	2.81	Meets
L00 - KITCHEN/LIVING 5B.0006	2.0	1.62	Below
L00 - BEDROOM 01 5B.0007	1.0	3.92	Meets
L00 - BEDROOM 02 5B.0007	1.0	3.30	Meets
L00 - KITCHEN/LIVING 5B.0007	2.0	1.75	Below

Block 5B -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 5B.0101	1.0	1.29	Meets
L01 - BEDROOM 02 5B.0101	1.0	0.77	Below
L01 - BEDROOM 03 5B.0101	1.0	1.62	Meets
L01 - KITCHEN/LIVING 5B.0101	2.0	1.19	Below
L01 - BEDROOM 01 5B.0102	1.0	1.85	Meets
L01 - BEDROOM 02 5B.0102	1.0	3.49	Meets
L01 - KITCHEN/LIVING 5B.0102	2.0	1.87	Below
L01 - BEDROOM 01 5B.0103	1.0	1.97	Meets
L01 - BEDROOM 02 5B.0103	1.0	3.72	Meets
L01 - KITCHEN/LIVING 5B.0103	2.0	2.37	Meets
L01 - BEDROOM 01 5B.0104	1.0	2.40	Meets
L01 - BEDROOM 02 5B.0104	1.0	4.42	Meets
L01 - BEDROOM 03 5B.0104	1.0	3.94	Meets
L01 - KITCHEN/LIVING 5B.0104	2.0	3.71	Meets

L01 - BEDROOM 01 5B.0105	1.0	3.66	Meets
L01 - BEDROOM 02 5B.0105	1.0	4.07	Meets
L01 - BEDROOM 03 5B.0105	1.0	3.67	Meets
L01 - KITCHEN/LIVING 5B.0105	2.0	2.55	Meets
L01 - BEDROOM 01 5B.0106	1.0	1.70	Meets
L01 - KITCHEN/LIVING 5B.0106	2.0	3.63	Meets
L01 - BEDROOM 01 5B.0107	1.0	2.89	Meets
L01 - BEDROOM 02 5B.0107	1.0	2.82	Meets
L01 - KITCHEN/LIVING 5B.0107	2.0	1.36	Below
L01 - BEDROOM 01 B05B.0108	1.0	3.72	Meets
L01 - BEDROOM 02 B05B.0108	1.0	4.62	Meets
L01 - BEDROOM 03 B05B.0108	1.0	2.76	Meets
L01 - KITCHEN/LIVING 5B.0108	2.0	1.45	Below
L01 - BEDROOM 01 5B.0109	1.0	1.91	Meets
L01 - BEDROOM 02 5B.0109	1.0	2.03	Meets
L01 - KITCHEN/LIVING 5B.0109	2.0	0.57	Below
L01 - BEDROOM 01 5B.0110	1.0	0.88	Below
L01 - BEDROOM 02 5B.0110	1.0	1.71	Meets
L01 - BEDROOM 03 5B.0110	1.0	2.53	Meets
L01 - KITCHEN/LIVING 5B.0110	2.0	0.63	Below
L01 - BEDROOM 01 5B.0111	1.0	0.77	Below
L01 - BEDROOM 02 5B.0111	1.0	1.88	Meets
L01 - KITCHEN/LIVING 5B.0111	2.0	1.31	Below
L01 - BEDROOM 01 B05B.0112	1.0	1.38	Meets
L01 - BEDROOM 02 B05B.0112	1.0	2.18	Meets
L01 - KITCHEN/LIVING B05B.0112	2.0	1.28	Below
L01 - BEDROOM 01 B05B.0113	1.0	1.20	Meets
L01 - BEDROOM 02 B05B.0113	1.0	0.63	Below
L01 - BEDROOM 03 B05B.0113	1.0	1.98	Meets
L01 - KITCHEN/LIVING B05B.0113	2.0	1.08	Below

Block 5B -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 5B.0201	1.0	1.60	Meets
L02 - BEDROOM 02 5B.0201	1.0	1.05	Meets
L02 - BEDROOM 03 5B.0201	1.0	1.99	Meets
L02 - KITCHEN/LIVING 5B.0201	2.0	1.38	Below
L02 - BEDROOM 01 5B.0202	1.0	2.13	Meets
L02 - BEDROOM 02 5B.0202	1.0	3.81	Meets
L02 - KITCHEN/LIVING 5B.0202	2.0	2.08	Meets
L02 - BEDROOM 01 5B.0203	1.0	2.15	Meets
L02 - BEDROOM 02 5B.0203	1.0	3.95	Meets
L02 - KITCHEN/LIVING 5B.0203	2.0	2.53	Meets
L02 - BEDROOM 01 5B.0204	1.0	2.45	Meets

L02 - BEDROOM 02 5B.0204	1.0	4.45	Meets
L02 - BEDROOM 03 5B.0204	1.0	4.07	Meets
L02 - KITCHEN/LIVING 5B.0204	2.0	3.78	Meets
L02 - BEDROOM 01 5B.0205	1.0	3.69	Meets
L02 - BEDROOM 02 5B.0205	1.0	4.13	Meets
L02 - BEDROOM 03 5B.0205	1.0	3.75	Meets
L02 - KITCHEN/LIVING 5B.0205	2.0	2.57	Meets
L02 - BEDROOM 01 5B.0206	1.0	1.69	Meets
L02 - KITCHEN/LIVING 5B.0206	2.0	3.61	Meets
L02 - BEDROOM 01 5B.0207	1.0	2.90	Meets
L02 - BEDROOM 02 5B.0207	1.0	2.83	Meets
L02 - KITCHEN/LIVING 5B.0207	2.0	1.38	Below
L02 - BEDROOM 01 B05B.0108	1.0	3.72	Meets
L02 - BEDROOM 02 B05B.0108	1.0	4.63	Meets
L02 - BEDROOM 03 B05B.0108	1.0	2.76	Meets
L02 - KITCHEN/LIVING 5B.0108	2.0	1.66	Below
L02 - BEDROOM 01 5B.0209	1.0	2.56	Meets
L02 - BEDROOM 02 5B.0209	1.0	2.74	Meets
L02 - KITCHEN/LIVING 5B.0209	2.0	0.73	Below
L02 - BEDROOM 01 5B.0210	1.0	1.13	Meets
L02 - BEDROOM 02 5B.0210	1.0	3.00	Meets
L02 - BEDROOM 03 5B.0210	1.0	2.19	Meets
L02 - KITCHEN/LIVING 5B.0210	2.0	0.78	Below
L02 - BEDROOM 01 5B.0211	1.0	0.98	Below
L02 - BEDROOM 02 5B.0211	1.0	2.22	Meets
L02 - KITCHEN/LIVING 5B.0211	2.0	1.54	Below
L02 - BEDROOM 01 B05B.0112	1.0	1.57	Meets
L02 - BEDROOM 02 B05B.0112	1.0	2.39	Meets
L02 - KITCHEN/LIVING B05B.0112	2.0	1.42	Below
L02 - BEDROOM 01 B05B.0113	1.0	1.52	Meets
L02 - BEDROOM 02 B05B.0113	1.0	0.71	Below
L02 - BEDROOM 03 B05B.0113	1.0	2.16	Meets
L02 - KITCHEN/LIVING B05B.0113	2.0	1.32	Below

13.1.4 Block 05C ADF Results

Block 5C -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 B05C.0101	1.0	0.54	Below
L01 - BEDROOM 02 B05C.0101	1.0	3.45	Meets
L01 - BEDROOM 03 B05C.0101	1.0	2.22	Meets
L01 - KITCHEN/LIVING B05C.0101	2.0	0.71	Below
L01 - BEDROOM 01 5C.0102	1.0	2.40	Meets
L01 - BEDROOM 02 5C.0102	1.0	3.87	Meets

L01 - BEDROOM 03 5C.0102	1.0	2.79	Meets
L01 - KITCHEN/LIVING 5C.0102	2.0	0.59	Below
L01 - BEDROOM 01 B05C.0103	1.0	1.64	Meets
L01 - BEDROOM 02 B05C.0103	1.0	1.67	Meets
L01 - KITCHEN/LIVING B05C.0103	2.0	0.43	Below
L01 - BEDROOM 01 5C.0104	1.0	0.43	Below
L01 - KITCHEN/LIVING 5C.0104	2.0	1.65	Below
L01 - BEDROOM 01 B05C.0105	1.0	0.55	Below
L01 - BEDROOM 02 B05C.0105	1.0	1.54	Meets
L01 - KITCHEN/LIVING B05C.0105	2.0	1.16	Below
L01 - BEDROOM 01 5C.0106	1.0	0.51	Below
L01 - KITCHEN/LIVING 5C.0106	2.0	1.57	Below
L01 - BEDROOM 01 B05C.0107	1.0	1.49	Meets
L01 - BEDROOM 02 B05C.0107	1.0	2.45	Meets
L01 - KITCHEN/LIVING B05C.0107	2.0	0.94	Below
L01 - BEDROOM 01 5C.0108	1.0	0.70	Below
L01 - BEDROOM 02 5C.0108	1.0	2.02	Meets
L01 - BEDROOM 03 5C.0108	1.0	2.45	Meets
L01 - KITCHEN/LIVING 5C.0108	2.0	1.10	Below
L01 - BEDROOM 01 B05C.0109	1.0	2.35	Meets
L01 - BEDROOM 02 B05C.0109	1.0	2.29	Meets
L01 - KITCHEN/LIVING B05C.0109	2.0	1.62	Below
L01 - BEDROOM 01 B05C.0110	1.0	0.35	Below
L01 - BEDROOM 02 B05C.0110	1.0	0.56	Below
L01 - KITCHEN/LIVING B05C.0110	2.0	0.73	Below
L01 - BEDROOM 01 B05C.0111	1.0	2.13	Meets
L01 - KITCHEN/LIVING B05C.0111	2.0	1.89	Below
L01 - BEDROOM 01 5C.0112	1.0	0.95	Below
L01 - BEDROOM 02 5C.0112	1.0	2.55	Meets
L01 - BEDROOM 03 5C.0112	1.0	2.42	Meets
L01 - KITCHEN/LIVING 5C.0112	2.0	0.66	Below
L01 - BEDROOM 01 B05C.0113	1.0	1.42	Meets
L01 - KITCHEN/LIVING B05C.0113	2.0	1.88	Below

Block 5C -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 B05C.0201	1.0	0.62	Below
L02 - BEDROOM 02 B05C.0201	1.0	3.78	Meets
L02 - BEDROOM 03 B05C.0201	1.0	2.43	Meets
L02 - KITCHEN/LIVING B05C.0201	2.0	0.88	Below
L02 - BEDROOM 01 5C.0202	1.0	2.71	Meets
L02 - BEDROOM 02 5C.0202	1.0	4.23	Meets
L02 - BEDROOM 03 5C.0202	1.0	3.08	Meets
L02 - KITCHEN/LIVING 5C.0202	2.0	0.70	Below

L02 - BEDROOM 01 B05C.0203	1.0	2.00	Meets
L02 - BEDROOM 02 B05C.0203	1.0	2.04	Meets
L02 - KITCHEN/LIVING B05C.0203	2.0	0.51	Below
L02 - BEDROOM 01 5C.0204	1.0	0.60	Below
L02 - KITCHEN/LIVING 5C.0204	2.0	2.01	Meets
L02 - BEDROOM 01 B05C.0205	1.0	0.79	Below
L02 - BEDROOM 02 B05C.0205	1.0	1.86	Meets
L02 - KITCHEN/LIVING B05C.0205	2.0	1.38	Below
L02 - BEDROOM 01 5C.0206	1.0	0.66	Below
L02 - KITCHEN/LIVING 5C.0206	2.0	1.86	Below
L02 - BEDROOM 01 B05C.0207	1.0	1.72	Meets
L02 - BEDROOM 02 B05C.0207	1.0	2.74	Meets
L02 - KITCHEN/LIVING B05C.0207	2.0	1.15	Below
L02 - BEDROOM 01 5C.0208	1.0	0.71	Below
L02 - BEDROOM 02 5C.0208	1.0	2.26	Meets
L02 - BEDROOM 03 5C.0208	1.0	2.69	Meets
L02 - KITCHEN/LIVING 5C.0208	2.0	1.16	Below
L02 - BEDROOM 01 B05C.0209	1.0	2.69	Meets
L02 - BEDROOM 02 B05C.0209	1.0	2.52	Meets
L02 - KITCHEN/LIVING B05C.0209	2.0	1.87	Below
L02 - BEDROOM 01 B05C.0210	1.0	0.50	Below
L02 - BEDROOM 02 B05C.0210	1.0	0.66	Below
L02 - KITCHEN/LIVING B05C.0210	2.0	0.95	Below
L02 - BEDROOM 01 B05C.0211	1.0	2.51	Meets
L02 - KITCHEN/LIVING B05C.0211	2.0	2.22	Meets
L02 - BEDROOM 01 5C.0212	1.0	1.18	Meets
L02 - BEDROOM 02 5C.0212	1.0	2.95	Meets
L02 - BEDROOM 03 5C.0212	1.0	2.72	Meets
L02 - KITCHEN/LIVING 5C.0212	2.0	0.83	Below
L02 - BEDROOM 01 B05C.0213	1.0	1.70	Meets
L02 - KITCHEN/LIVING 5C.0213	2.0	1.82	Below

13.1.5 Block 05D ADF Results

Block 5D -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 5D.0001	1.0	2.80	Meets
L00 - KITCHEN/LIVING 5D.0001	2.0	3.73	Meets
L00 - BEDROOM 01 5D.0002	1.0	2.66	Meets
L00 - KITCHEN/LIVING 5D.0002	2.0	3.36	Meets
L00 - BEDROOM 01 5D.0003	1.0	2.68	Meets
L00 - KITCHEN/LIVING 5D.0003	2.0	3.36	Meets
L00 - BEDROOM 01 5D.0004	1.0	3.88	Meets
L00 - BEDROOM 02 5D.0004	1.0	4.98	Meets

L00 - BEDROOM 03 5D.0004	1.0	3.54	Meets
L00 - KITCHEN/LIVING 5D.0004	2.0	2.01	Meets
L00 - BEDROOM 01 5D.0005	1.0	3.56	Meets
L00 - BEDROOM 02 5D.0005	1.0	5.35	Meets
L00 - BEDROOM 03 5D.0005	1.0	2.52	Meets
L00 - KITCHEN/LIVING 5D.0005	2.0	2.41	Meets

Block 5D -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 5D.0101	1.0	2.87	Meets
L01 - KITCHEN/LIVING 5D.0101	2.0	3.08	Meets
L01 - BEDROOM 01 5D.0102	1.0	2.37	Meets
L01 - BEDROOM 02 5D.0102	1.0	5.54	Meets
L01 - BEDROOM 03 5D.0102	1.0	3.23	Meets
L01 - KITCHEN/LIVING 5D.0102	2.0	4.06	Meets
L01 - BEDROOM 01 5D.0103	1.0	3.29	Meets
L01 - BEDROOM 02 5D.0103	1.0	1.08	Meets
L01 - KITCHEN/LIVING 5D.0103	2.0	1.03	Below
L01 - BEDROOM 01 5D.0104	1.0	0.94	Below
L01 - KITCHEN/LIVING 5D.0104	2.0	2.08	Meets
L01 - BEDROOM 01 5D.0105	1.0	1.95	Meets
L01 - BEDROOM 02 5D.0105	1.0	0.79	Below
L01 - KITCHEN/LIVING 5D.0105	2.0	0.72	Below
L01 - BEDROOM 01 5D.0106	1.0	2.84	Meets
L01 - BEDROOM 02 5D.0106	1.0	2.34	Meets
L01 - KITCHEN/LIVING 5D.0106	2.0	0.59	Below
L01 - BEDROOM 01 5D.0107	1.0	1.61	Meets
L01 - KITCHEN/LIVING 5D.0107	2.0	1.18	Below
L01 - BEDROOM 01 5D.0108	1.0	1.31	Meets
L01 - BEDROOM 02 5D.0108	1.0	1.25	Meets
L01 - BEDROOM 03 5D.0108	1.0	2.09	Meets
L01 - KITCHEN/LIVING 5D.0108	2.0	0.74	Below
L01 - BEDROOM 01 5D.0109	1.0	0.66	Below
L01 - BEDROOM 02 5D.0109	1.0	2.27	Meets
L01 - BEDROOM 03 5D.0109	1.0	2.06	Meets
L01 - KITCHEN/LIVING 5D.0109	2.0	0.80	Below
L01 - BEDROOM 01 5D.0110	1.0	1.91	Meets
L01 - BEDROOM 02 5D.0110	1.0	2.83	Meets
L01 - KITCHEN/LIVING 5D.0110	2.0	1.24	Below
L01 - BEDROOM 01 5D.0111	1.0	1.45	Meets
L01 - BEDROOM 02 5D.0111	1.0	2.94	Meets
L01 - KITCHEN/LIVING 5D.0111	2.0	1.75	Below
L01 - BEDROOM 01 5D.0112	1.0	4.16	Meets
L01 - BEDROOM 02 5D.0112	1.0	1.36	Meets

L01 - KITCHEN/LIVING 5D.0112	2.0	3.59	Meets
L01 - BEDROOM 01 5D.0113	1.0	1.82	Meets
L01 - KITCHEN/LIVING 5D.0113	2.0	3.85	Meets
L01 - BEDROOM 01 5D.0114	1.0	1.77	Meets
L01 - KITCHEN/LIVING 5D.0114	2.0	3.49	Meets
L01 - BEDROOM 01 5D.0115	1.0	1.77	Meets
L01 - KITCHEN/LIVING 5D.0115	2.0	3.48	Meets
L01 - BEDROOM 01 5D.0116	1.0	4.02	Meets
L01 - BEDROOM 02 5D.0116	1.0	5.06	Meets
L01 - BEDROOM 03 5D.0116	1.0	3.66	Meets
L01 - KITCHEN/LIVING 5D.0116	2.0	1.32	Below
L01 - BEDROOM 01 5D.0117	1.0	2.81	Meets
L01 - KITCHEN/LIVING 5D.0117	2.0	3.27	Meets
L01 - BEDROOM 01 5D.0118	1.0	2.96	Meets
L01 - BEDROOM 02 5D.0118	1.0	3.65	Meets
L01 - BEDROOM 03 5D.0118	1.0	2.79	Meets
L01 - KITCHEN/LIVING 5D.0118	2.0	2.69	Meets

Block 5D -Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 5D.0201	1.0	2.88	Meets
L02 - KITCHEN/LIVING 5D.0201	2.0	3.10	Meets
L02 - BEDROOM 01 5D.0202	1.0	2.37	Meets
L02 - BEDROOM 02 5D.0202	1.0	5.52	Meets
L02 - BEDROOM 03 5D.0202	1.0	3.23	Meets
L02 - KITCHEN/LIVING 5D.0202	2.0	4.39	Meets
L02 - BEDROOM 01 5D.0203	1.0	3.56	Meets
L02 - BEDROOM 02 5D.0203	1.0	1.38	Meets
L02 - KITCHEN/LIVING 5D.0203	2.0	1.33	Below
L02 - BEDROOM 01 5D.0204	1.0	1.00	Meets
L02 - KITCHEN/LIVING 5D.0204	2.0	2.22	Meets
L02 - BEDROOM 01 5D.0205	1.0	2.23	Meets
L02 - BEDROOM 02 5D.0205	1.0	1.01	Meets
L02 - KITCHEN/LIVING 5D.0205	2.0	1.05	Below
L02 - BEDROOM 01 5D.0206	1.0	3.32	Meets
L02 - BEDROOM 02 5D.0206	1.0	3.65	Meets
L02 - BEDROOM 03 5D.0206	1.0	2.63	Meets
L02 - KITCHEN/LIVING 5D.0206	2.0	0.66	Below
L02 - BEDROOM 01 5D.0207	1.0	2.06	Meets
L02 - KITCHEN/LIVING 5D.0207	2.0	1.61	Below
L02 - BEDROOM 01 5D.0208	1.0	1.75	Meets
L02 - BEDROOM 02 5D.0208	1.0	1.66	Meets
L02 - BEDROOM 03 5D.0208	1.0	2.40	Meets
L02 - KITCHEN/LIVING 5D.0208	2.0	0.99	Below

L02 - BEDROOM 01 5D.0209	1.0	0.79	Below
L02 - BEDROOM 02 5D.0209	1.0	2.60	Meets
L02 - BEDROOM 03 5D.0209	1.0	2.33	Meets
L02 - KITCHEN/LIVING 5D.0209	2.0	1.01	Below
L02 - BEDROOM 01 5D.0210	1.0	2.17	Meets
L02 - BEDROOM 02 5D.0210	1.0	3.18	Meets
L02 - KITCHEN/LIVING 5D.0210	2.0	1.42	Below
L02 - BEDROOM 01 5D.0211	1.0	1.58	Meets
L02 - BEDROOM 02 5D.0211	1.0	3.22	Meets
L02 - KITCHEN/LIVING 5D.0211	2.0	2.11	Meets
L02 - BEDROOM 01 5D.0212	1.0	4.17	Meets
L02 - BEDROOM 02 5D.0212	1.0	1.71	Meets
L02 - KITCHEN/LIVING 5D.0212	2.0	3.59	Meets
L02 - BEDROOM 01 5D.0213	1.0	1.83	Meets
L02 - KITCHEN/LIVING 5D.0213	2.0	3.84	Meets
L02 - BEDROOM 01 5D.0214	1.0	1.78	Meets
L02 - KITCHEN/LIVING 5D.0214	2.0	3.50	Meets
L02 - BEDROOM 01 5D.0215	1.0	1.75	Meets
L02 - KITCHEN/LIVING 5D.0215	2.0	3.49	Meets
L02 - BEDROOM 01 5D.0216	1.0	4.01	Meets
L02 - BEDROOM 02 5D.0216	1.0	5.09	Meets
L02 - BEDROOM 03 5D.0216	1.0	3.68	Meets
L02 - KITCHEN/LIVING 5D.0216	2.0	1.33	Below
L02 - BEDROOM 01 5D.0217	1.0	2.80	Meets
L02 - KITCHEN/LIVING 5D.0217	2.0	3.29	Meets
L02 - BEDROOM 01 5D.0218	1.0	2.96	Meets
L02 - BEDROOM 02 5D.0218	1.0	3.71	Meets
L02 - BEDROOM 03 5D.0218	1.0	2.81	Meets
L02 - KITCHEN/LIVING 5D.0218	2.0	2.71	Meets

13.1.6 Block 06 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 GU01	1.0	4.94	Meets
L00 - BEDROOM 02 GU01	1.0	3.76	Meets
L00 - BEDROOM 03 GU01	1.0	3.59	Meets
L00 - KITCHEN/LIVING GU01	2.0	4.31	Meets
L00 - BEDROOM 01 GU02	1.0	1.77	Meets
L00 - BEDROOM 02 GU02	1.0	1.52	Meets
L00 - KITCHEN/LIVING GU02	2.0	4.23	Meets
L00 - BEDROOM 01 GU03	1.0	0.53	Below
L00 - KITCHEN/LIVING GU03	2.0	1.44	Below
L00 - BEDROOM 01 GU04	1.0	1.07	Meets

L00 - BEDROOM 02 GU04	1.0	0.41	Below
L00 - KITCHEN/LIVING GU04	2.0	0.70	Below
L00 - BEDROOM 01 GU05	1.0	0.60	Below
L00 - BEDROOM 02 GU05	1.0	1.10	Meets
L00 - KITCHEN/LIVING GU05	2.0	0.79	Below
L00 - BEDROOM 01 GU06	1.0	1.39	Meets
L00 - BEDROOM 02 GU06	1.0	1.84	Meets
L00 - BEDROOM 03 GU06	1.0	1.08	Meets
L00 - KITCHEN/LIVING GU06	2.0	2.38	Meets
L00 - BEDROOM 01 GU07	1.0	2.52	Meets
L00 - BEDROOM 02 GU07	1.0	3.28	Meets
L00 - KITCHEN/LIVING GU07	2.0	2.21	Meets
L00 - BEDROOM 01 GU08	1.0	3.17	Meets
L00 - KITCHEN/LIVING GU08	2.0	2.82	Meets
L00 - BEDROOM 01 GU09	1.0	3.08	Meets
L00 - BEDROOM 02 GU09	1.0	3.37	Meets
L00 - KITCHEN/LIVING GU09	2.0	2.81	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 0101	1.0	3.13	Meets
L01 - BEDROOM 02 0101	1.0	2.98	Meets
L01 - KITCHEN/LIVING 0101	2.0	1.60	Below
L01 - BEDROOM 01 0102	1.0	4.93	Meets
L01 - BEDROOM 02 0102	1.0	3.76	Meets
L01 - BEDROOM 03 0102	1.0	3.60	Meets
L01 - KITCHEN/LIVING 0102	2.0	4.30	Meets
L01 - BEDROOM 01 0103	1.0	1.87	Meets
L01 - BEDROOM 02 0103	1.0	1.63	Meets
L01 - KITCHEN/LIVING 0103	2.0	4.29	Meets
L01 - BEDROOM 01 0104	1.0	0.52	Below
L01 - KITCHEN/LIVING 0104	2.0	1.57	Below
L01 - BEDROOM 01 0105	1.0	1.13	Meets
L01 - BEDROOM 02 0105	1.0	0.39	Below
L01 - KITCHEN/LIVING 0105	2.0	0.81	Below
L01 - BEDROOM 01 0106	1.0	0.59	Below
L01 - BEDROOM 02 0106	1.0	1.25	Meets
L01 - KITCHEN/LIVING 0106	2.0	0.83	Below
L01 - BEDROOM 01 0107	1.0	1.56	Meets
L01 - BEDROOM 02 0107	1.0	2.11	Meets
L01 - BEDROOM 03 0107	1.0	1.22	Meets
L01 - KITCHEN/LIVING 0107	2.0	2.56	Meets
L01 - BEDROOM 01 0108	1.0	2.44	Meets
L01 - BEDROOM 02 0108	1.0	3.57	Meets

L01 - KITCHEN/LIVING 0108	2.0	1.85	Below
L01 - BEDROOM 01 0109	1.0	3.40	Meets
L01 - KITCHEN/LIVING 0109	2.0	3.19	Meets
L01 - BEDROOM 01 0110	1.0	2.51	Meets
L01 - BEDROOM 02 0110	1.0	3.42	Meets
L01 - KITCHEN/LIVING 0110	2.0	2.62	Meets
L01 - BEDROOM 01 0111	1.0	3.27	Meets
L01 - BEDROOM 02 0111	1.0	3.08	Meets
L01 - KITCHEN/LIVING 0111	2.0	1.50	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 0201	1.0	2.97	Meets
L02 - BEDROOM 02 0201	1.0	2.88	Meets
L02 - KITCHEN/LIVING 0201	2.0	1.59	Below
L02 - BEDROOM 01 0202	1.0	4.90	Meets
L02 - BEDROOM 02 0202	1.0	3.76	Meets
L02 - BEDROOM 03 0202	1.0	3.62	Meets
L02 - KITCHEN/LIVING 0202	2.0	4.30	Meets
L02 - BEDROOM 01 0203	1.0	2.04	Meets
L02 - BEDROOM 02 0203	1.0	1.81	Meets
L02 - KITCHEN/LIVING 0203	2.0	4.37	Meets
L02 - BEDROOM 01 0204	1.0	0.52	Below
L02 - KITCHEN/LIVING 0204	2.0	1.77	Below
L02 - BEDROOM 01 0205	1.0	1.23	Meets
L02 - BEDROOM 02 0205	1.0	0.42	Below
L02 - KITCHEN/LIVING 0205	2.0	0.93	Below
L02 - BEDROOM 01 0206	1.0	0.64	Below
L02 - BEDROOM 02 0206	1.0	1.48	Meets
L02 - KITCHEN/LIVING 0206	2.0	0.91	Below
L02 - BEDROOM 01 0207	1.0	1.83	Meets
L02 - BEDROOM 02 0207	1.0	2.56	Meets
L02 - BEDROOM 03 0207	1.0	1.43	Meets
L02 - KITCHEN/LIVING 0207	2.0	2.83	Meets
L02 - BEDROOM 01 0208	1.0	2.55	Meets
L02 - BEDROOM 02 0208	1.0	3.71	Meets
L02 - KITCHEN/LIVING 0208	2.0	5.59	Meets
L02 - BEDROOM 01 0209	1.0	3.44	Meets
L02 - KITCHEN/LIVING 0209	2.0	3.72	Meets
L02 - BEDROOM 01 0210	1.0	2.55	Meets
L02 - BEDROOM 02 0210	1.0	3.49	Meets
L02 - KITCHEN/LIVING 0210	2.0	2.63	Meets
L02 - BEDROOM 01 0211	1.0	3.29	Meets
L02 - BEDROOM 02 0211	1.0	3.09	Meets

L02 - KITCHEN/LIVING 0211	2.0	1.51	Below

13.1.7 Block 07 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 A.G01	1.0	1.84	Meets
L00 - KITCHEN/LIVING A.G01	2.0	3.51	Meets
L00 - BEDROOM 01 A.G02	1.0	2.01	Meets
L00 - BEDROOM 02 A.G02	1.0	3.40	Meets
L00 - KITCHEN/LIVING A.G02	2.0	3.13	Meets
L00 - BEDROOM 01 A.G03	1.0	1.58	Meets
L00 - BEDROOM 02 A.G03	1.0	2.54	Meets
L00 - KITCHEN/LIVING A.G03	2.0	2.37	Meets
L00 - BEDROOM 01 A.G04	1.0	1.66	Meets
L00 - KITCHEN/LIVING A.G04	2.0	2.72	Meets
L00 - BEDROOM 01 A.G05	1.0	1.74	Meets
L00 - BEDROOM 02 A.G05	1.0	2.61	Meets
L00 - KITCHEN/LIVING A.G05	2.0	2.13	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 B.G01	1.0	1.52	Meets
L00 - BEDROOM 02 B.G01	1.0	0.93	Below
L00 - KITCHEN/LIVING B.G01	2.0	0.86	Below
L00 - BEDROOM 01 B.G02	1.0	3.17	Meets
L00 - BEDROOM 02 B.G02	1.0	1.08	Meets
L00 - KITCHEN/LIVING B.G02	2.0	1.35	Below
L00 - BEDROOM 01 B.G03	1.0	0.71	Below
L00 - BEDROOM 02 B.G03	1.0	1.19	Meets
L00 - KITCHEN/LIVING B.G03	2.0	0.86	Below
L00 - BEDROOM 01 B.G04	1.0	0.69	Below
L00 - BEDROOM 02 B.G04	1.0	0.97	Below
L00 - KITCHEN/LIVING B.G04	2.0	0.68	Below
L00 - BEDROOM 01 B.G05	1.0	0.73	Below
L00 - BEDROOM 02 B.G05	1.0	0.95	Below
L00 - KITCHEN/LIVING B.G05	2.0	0.70	Below
L00 - BEDROOM 01 B.G06	1.0	0.78	Below
L00 - BEDROOM 02 B.G06	1.0	1.18	Meets
L00 - KITCHEN/LIVING B.G06	2.0	0.82	Below
L00 - BEDROOM 01 B.G07	1.0	5.56	Meets
L00 - BEDROOM 02 B.G07	1.0	0.98	Below
L00 - KITCHEN/LIVING B.G07	2.0	1.29	Below

L00 - BEDROOM 01 B.G08	1.0	3.80	Meets
L00 - BEDROOM 02 B.G08	1.0	3.19	Meets
L00 - KITCHEN/LIVING B.G08	2.0	2.12	Meets
L00 - BEDROOM 01 B.G09	1.0	1.54	Meets
L00 - BEDROOM 02 B.G09	1.0	2.56	Meets
L00 - KITCHEN/LIVING B.G09	2.0	2.33	Meets
L00 - BEDROOM 01 B.G10	1.0	1.64	Meets
L00 - KITCHEN/LIVING B.G10	2.0	2.69	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 A.101	1.0	1.82	Meets
L01 - BEDROOM 02 A.101	1.0	3.35	Meets
L01 - KITCHEN/LIVING A.101	2.0	3.11	Meets
L01 - BEDROOM 01 A.102	1.0	1.80	Meets
L01 - BEDROOM 02 A.102	1.0	3.37	Meets
L01 - KITCHEN/LIVING A.102	2.0	3.08	Meets
L01 - BEDROOM 01 A.103	1.0	3.04	Meets
L01 - BEDROOM 02 A.103	1.0	2.54	Meets
L01 - KITCHEN/LIVING A.103	2.0	2.49	Meets
L01 - BEDROOM 01 A.104	1.0	2.98	Meets
L01 - KITCHEN/LIVING A.104	2.0	2.88	Meets
L01 - BEDROOM 01 A.105	1.0	3.04	Meets
L01 - BEDROOM 02 A.105	1.0	2.61	Meets
L01 - KITCHEN/LIVING A.105	2.0	2.25	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 B.101	1.0	2.03	Meets
L01 - BEDROOM 02 B.101	1.0	1.01	Meets
L01 - KITCHEN/LIVING B.101	2.0	1.00	Below
L01 - BEDROOM 01 B.102	1.0	2.86	Meets
L01 - BEDROOM 02 B.102	1.0	1.83	Meets
L01 - KITCHEN/LIVING B.102	2.0	1.28	Below
L01 - BEDROOM 01 B.103	1.0	1.18	Meets
L01 - BEDROOM 02 B.103	1.0	0.83	Below
L01 - KITCHEN/LIVING B.103	2.0	0.78	Below
L01 - BEDROOM 01 B.104	1.0	1.04	Meets
L01 - BEDROOM 02 B.104	1.0	0.70	Below
L01 - KITCHEN/LIVING B.104	2.0	0.79	Below
L01 - BEDROOM 01 B.105	1.0	0.97	Below
L01 - BEDROOM 02 B.105	1.0	0.78	Below

L01 - KITCHEN/LIVING B.105	2.0	0.73	Below
L01 - BEDROOM 01 B.106	1.0	0.96	Below
L01 - BEDROOM 02 B.106	1.0	0.95	Below
L01 - KITCHEN/LIVING B.106	2.0	0.75	Below
L01 - BEDROOM 01 B.107	1.0	5.18	Meets
L01 - BEDROOM 02 B.107	1.0	1.34	Meets
L01 - KITCHEN/LIVING B.107	2.0	1.10	Below
L01 - BEDROOM 01 B.108	1.0	4.05	Meets
L01 - BEDROOM 02 B.108	1.0	3.18	Meets
L01 - KITCHEN/LIVING B.108	2.0	2.05	Meets
L01 - BEDROOM 01 B.109	1.0	2.90	Meets
L01 - BEDROOM 02 B.109	1.0	2.56	Meets
L01 - KITCHEN/LIVING B.109	2.0	2.46	Meets
L01 - BEDROOM 01 B.110	1.0	3.02	Meets
L01 - KITCHEN/LIVING B.110	2.0	2.87	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 A.201	1.0	2.07	Meets
L02 - BEDROOM 02 A.201	1.0	4.09	Meets
L02 - BEDROOM 03 A.201	1.0	2.17	Meets
L02 - KITCHEN/LIVING A.201	2.0	0.48	Below
L02 - BEDROOM 01 A.202	1.0	0.60	Below
L02 - KITCHEN/LIVING A.202	2.0	2.00	Meets
L02 - BEDROOM 01 A.203	1.0	0.86	Below
L02 - BEDROOM 02 A.203	1.0	1.91	Meets
L02 - KITCHEN/LIVING A.203	2.0	1.68	Below
L02 - BEDROOM 01 A.204	1.0	0.77	Below
L02 - KITCHEN/LIVING A.204	2.0	3.40	Meets
L02 - BEDROOM 01 A.205	1.0	3.34	Meets
L02 - BEDROOM 02 A.205	1.0	4.70	Meets
L02 - KITCHEN/LIVING A.205	2.0	2.77	Meets
L02 - BEDROOM 01 A.206	1.0	1.85	Meets
L02 - BEDROOM 02 A.206	1.0	3.33	Meets
L02 - KITCHEN/LIVING A.206	2.0	1.73	Below
L02 - BEDROOM 01 A.207	1.0	1.77	Meets
L02 - BEDROOM 02 A.207	1.0	3.37	Meets
L02 - KITCHEN/LIVING A.207	2.0	3.08	Meets
L02 - BEDROOM 01 A.208	1.0	1.78	Meets
L02 - BEDROOM 02 A.208	1.0	3.35	Meets
L02 - KITCHEN/LIVING A.208	2.0	3.09	Meets
L02 - BEDROOM 01 A.209	1.0	1.78	Meets
L02 - BEDROOM 02 A.209	1.0	3.37	Meets

L02 - KITCHEN/LIVING A.209	2.0	3.07	Meets
L02 - BEDROOM 01 A.210	1.0	4.00	Meets
L02 - BEDROOM 02 A.210	1.0	3.93	Meets
L02 - KITCHEN/LIVING A.210	2.0	3.20	Meets
L02 - BEDROOM 01 A.211	1.0	2.75	Meets
L02 - BEDROOM 02 A.211	1.0	3.68	Meets
L02 - KITCHEN/LIVING A.211	2.0	2.42	Meets
L02 - BEDROOM 01 A.212	1.0	3.01	Meets
L02 - BEDROOM 02 A.212	1.0	3.63	Meets
L02 - KITCHEN/LIVING A.212	2.0	2.05	Meets
L02 - BEDROOM 01 A.213	1.0	3.22	Meets
L02 - KITCHEN/LIVING A.213	2.0	2.63	Meets
L02 - BEDROOM 01 A.214	1.0	2.18	Meets
L02 - BEDROOM 02 A.214	1.0	4.56	Meets
L02 - BEDROOM 03 A.214	1.0	2.42	Meets
L02 - KITCHEN/LIVING A.214	2.0	1.35	Below
L02 - BEDROOM 01 A.215	1.0	1.99	Meets
L02 - KITCHEN/LIVING A.215	2.0	1.34	Below
L02 - BEDROOM 01 A.216	1.0	1.67	Meets
L02 - KITCHEN/LIVING A.216	2.0	1.11	Below
L02 - BEDROOM 01 A.217	1.0	1.56	Meets
L02 - BEDROOM 02 A.217	1.0	1.49	Meets
L02 - KITCHEN/LIVING A.217	2.0	1.27	Below
L02 - BEDROOM 01 A.218	1.0	2.09	Meets
L02 - KITCHEN/LIVING A.218	2.0	1.50	Below
L02 - BEDROOM 01 A.219	1.0	2.12	Meets
L02 - KITCHEN/LIVING A.219	2.0	1.32	Below
L02 - BEDROOM 01 A.220	1.0	1.89	Meets
L02 - KITCHEN/LIVING A.220	2.0	1.34	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 B.201	1.0	2.07	Meets
L02 - BEDROOM 02 B.201	1.0	4.11	Meets
L02 - BEDROOM 03 B.201	1.0	2.26	Meets
L02 - KITCHEN/LIVING B.201	2.0	0.48	Below
L02 - BEDROOM 01 B.202	1.0	0.59	Below
L02 - KITCHEN/LIVING B.202	2.0	2.01	Meets
L02 - BEDROOM 01 B.203	1.0	0.70	Below
L02 - BEDROOM 02 B.203	1.0	1.95	Meets
L02 - KITCHEN/LIVING B.203	2.0	1.64	Below
L02 - BEDROOM 01 B.204	1.0	2.28	Meets
L02 - BEDROOM 02 B.204	1.0	1.31	Meets
L02 - KITCHEN/LIVING B.204	2.0	1.20	Below

L02 - BEDROOM 01 B.205	1.0	3.74	Meets
L02 - BEDROOM 02 B.205	1.0	2.03	Meets
L02 - KITCHEN/LIVING B.205	2.0	1.40	Below
L02 - BEDROOM 01 B.206	1.0	0.81	Below
L02 - BEDROOM 02 B.206	1.0	1.53	Meets
L02 - KITCHEN/LIVING B.206	2.0	1.01	Below
L02 - BEDROOM 01 B.207	1.0	0.78	Below
L02 - BEDROOM 02 B.207	1.0	1.16	Meets
L02 - KITCHEN/LIVING B.207	2.0	0.72	Below
L02 - BEDROOM 01 B.208	1.0	1.10	Meets
L02 - BEDROOM 02 B.208	1.0	0.70	Below
L02 - KITCHEN/LIVING B.208	2.0	0.75	Below
L02 - BEDROOM 01 B.209	1.0	0.77	Below
L02 - BEDROOM 02 B.209	1.0	1.29	Meets
L02 - KITCHEN/LIVING B.209	2.0	0.87	Below
L02 - BEDROOM 01 B.210	1.0	5.72	Meets
L02 - BEDROOM 02 B.210	1.0	1.03	Meets
L02 - KITCHEN/LIVING B.210	2.0	1.36	Below
L02 - BEDROOM 01 B.211	1.0	3.91	Meets
L02 - BEDROOM 02 B.211	1.0	3.43	Meets
L02 - KITCHEN/LIVING B.211	2.0	2.08	Meets
L02 - BEDROOM 01 B.212	1.0	3.68	Meets
L02 - BEDROOM 02 B.212	1.0	3.09	Meets
L02 - KITCHEN/LIVING B.212	2.0	2.14	Meets
L02 - BEDROOM 01 B.213	1.0	3.80	Meets
L02 - KITCHEN/LIVING B.213	2.0	2.26	Meets
L02 - BEDROOM 01 B.214	1.0	2.28	Meets
L02 - BEDROOM 02 B.214	1.0	4.68	Meets
L02 - BEDROOM 03 B.214	1.0	2.46	Meets
L02 - KITCHEN/LIVING B.214	2.0	1.36	Below
L02 - BEDROOM 01 B.215	1.0	2.37	Meets
L02 - KITCHEN/LIVING B.215	2.0	1.31	Below
L02 - BEDROOM 01 B.216	1.0	1.76	Meets
L02 - KITCHEN/LIVING B.216	2.0	1.13	Below
L02 - BEDROOM 01 B.217	1.0	1.33	Meets
L02 - KITCHEN/LIVING B.217	2.0	0.97	Below
L02 - BEDROOM 01 B.218	1.0	1.66	Meets
L02 - KITCHEN/LIVING B.218	2.0	1.44	Below
L02 - BEDROOM 01 B.219	1.0	1.44	Meets
L02 - BEDROOM 02 B.219	1.0	1.63	Meets
L02 - KITCHEN/LIVING B.219	2.0	0.99	Below
L02 - BEDROOM 01 B.220	1.0	1.60	Meets
L02 - KITCHEN/LIVING B.220	2.0	1.11	Below
L02 - BEDROOM 01 B.221	1.0	2.04	Meets
L02 - KITCHEN/LIVING B.221	2.0	1.31	Below

13.1.8 Block 08 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BED 01 3BED DUPLEX B08D.001	1.0	1.19	Meets
L01 - BED 02 3BED DUPLEX B08D.001	1.0	2.91	Meets
L01 - BED 03 3BED DUPLEX B08D.001	1.0	0.34	Below
L00 - KLD 3BED DUPLEX B08D.001	2.0	1.51	Below
L01 - BED 01 2BED DUPLEX D08D.001	1.0	0.71	Below
L02 - BED 02 2BED DUPLEX B08D.001	1.0	2.04	Meets
L02 - KLD 2BED DUPLEX B08D.001	2.0	2.07	Meets
L00 - BED 01 3BED DUPLEX B08C.002	1.0	1.09	Meets
L01 - BED 02 3BED DUPLEX B08C.002	1.0	2.58	Meets
L01 - BED 03 3BED DUPLEX B08C.002	1.0	0.30	Below
L00 - KLD 3BED DUPLEX B08C.002	2.0	1.40	Below
L00 - BED 01 3BED DUPLEX B08C.003	1.0	1.01	Meets
L01 - BED 02 3BED DUPLEX B08C.003	1.0	2.37	Meets
L01 - BED 03 3BED DUPLEX B08C.003	1.0	0.33	Below
L00 - KLD 3BED DUPLEX B08C.003	2.0	1.30	Below
L00 - BED 01 3BED DUPLEX B08C.004	1.0	1.02	Meets
L01 - BED 02 3BED DUPLEX B08C.004	1.0	2.43	Meets
L01 - BED 03 3BED DUPLEX B08C.004	1.0	0.40	Below
L00 - KLD 3BED DUPLEX B08C.004	2.0	1.34	Below
L00 - BED 01 3BED DUPLEX B08C.005	1.0	1.24	Meets
L01 - BED 02 3BED DUPLEX B08C.005	1.0	2.97	Meets
L01 - BED 03 3BED DUPLEX B08C.005	1.0	0.54	Below
L00 - KLD 3BED DUPLEX B08C.005	2.0	1.37	Below
L00 - BED 01 3BED DUPLEX B08C.006	1.0	1.53	Meets
L01 - BED 02 3BED DUPLEX B08C.006	1.0	3.57	Meets
L01 - BED 03 3BED DUPLEX B08C.006	1.0	0.60	Below
L00 - KLD 3BED DUPLEX B08C.006	2.0	1.39	Below
L01 - BED 01 2BED DUPLEX D08C.002	1.0	0.91	Below
L02 - BED 02 2BED DUPLEX B08C.002	1.0	1.63	Meets
L02 - KLD 2BED DUPLEX B08C.002	2.0	1.86	Below
L01 - BED 01 2BED DUPLEX D08C.003	1.0	0.91	Below
L02 - BED 02 2BED DUPLEX B08C.003	1.0	1.56	Meets
L02 - KLD 2BED DUPLEX B08C.003	2.0	1.77	Below
L01 - BED 01 2BED DUPLEX D08C.004	1.0	0.91	Below
L02 - BED 02 2BED DUPLEX B08C.004	1.0	1.65	Meets
L02 - KLD 2BED DUPLEX B08C.004	2.0	1.79	Below
L01 - BED 01 2BED DUPLEX D08C.005	1.0	0.92	Below

L02 - BED 02 2BED DUPLEX B08C.005	1.0	1.92	Meets
L02 - KLD 2BED DUPLEX B08C.005	2.0	1.95	Below
L01 - BED 01 2BED DUPLEX D08C.006	1.0	1.03	Meets
L02 - BED 02 2BED DUPLEX B08C.006	1.0	2.18	Meets
L02 - KLD 2BED DUPLEX B08C.006	2.0	2.24	Meets

13.1.9 Block 09 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 A.G01	1.0	3.39	Meets
L00 - BEDROOM 02 A.G01	1.0	1.28	Meets
L00 - KITCHEN/LIVING A.G01	2.0	2.56	Meets
L00 - BEDROOM 01 A.G02	1.0	4.01	Meets
L00 - BEDROOM 02 A.G02	1.0	3.31	Meets
L00 - KITCHEN/LIVING A.G02	2.0	2.23	Meets
L00 - BEDROOM 01 A.G03	1.0	2.96	Meets
L00 - BEDROOM 02 A.G03	1.0	3.92	Meets
L00 - KITCHEN/LIVING A.G03	2.0	5.00	Meets
L00 - BEDROOM 01 B09A.GU04	1.0	2.18	Meets
L00 - KITCHEN/LIVING B09A.GU04	2.0	3.90	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 B.G01	1.0	3.35	Meets
L00 - BEDROOM 02 B.G01	1.0	1.38	Meets
L00 - KITCHEN/LIVING B.G01	2.0	2.38	Meets
L00 - BEDROOM 01 B.G02	1.0	3.51	Meets
L00 - BEDROOM 02 B.G02	1.0	1.33	Meets
L00 - KITCHEN/LIVING B.G02	2.0	2.26	Meets
L00 - BEDROOM 01 B.G03	1.0	3.75	Meets
L00 - BEDROOM 02 B.G03	1.0	1.51	Meets
L00 - KITCHEN/LIVING B.G03	2.0	2.88	Meets
L00 - BEDROOM 01 B09B.GU04	1.0	1.34	Meets
L00 - KITCHEN/LIVING B09B.GU04	2.0	6.80	Meets
L00 - BEDROOM 01 B09B.GU05	1.0	0.52	Below
L00 - BEDROOM 02 B09B.GU05	1.0	1.30	Meets
L00 - KITCHEN/LIVING B09B.GU5	2.0	0.94	Below
L00 - BEDROOM 01 B09B.GU06	1.0	0.65	Below
L00 - KITCHEN/LIVING B09B.GU06	2.0	0.93	Below
L00 - BEDROOM 01 B09B.GU07	1.0	0.91	Below
L00 - KITCHEN/LIVING B09B.GU07	2.0	0.91	Below
L00 - BEDROOM 01 B09B.GU08	1.0	1.43	Meets

L00 - KITCHEN/LIVING B09B.GU08	2.0	1.21	Below
L00 - BEDROOM 01 B09B.GU09	1.0	2.75	Meets
L00 - KITCHEN/LIVING B09B.GU09	2.0	3.29	Meets
L00 - BEDROOM 01 B09B.GU10	1.0	2.86	Meets
L00 - KITCHEN/LIVING B09B.GU10	2.0	3.52	Meets
L00 - BEDROOM 01 B09B.GU11	1.0	2.85	Meets
L00 - KITCHEN/LIVING B09B.GU11	2.0	3.53	Meets
L00 - BEDROOM 01 B09B.GU12	1.0	2.86	Meets
L00 - KITCHEN/LIVING B09B.GU12	2.0	3.53	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - DUPLEX BED 01 B09B.0111	1.0	3.49	Meets
L01 - DUPLEX BED 02 B09B.0111	1.0	3.45	Meets
L02 - DUPLEX KLD B09B.0111	1.5	2.80	Meets
L01 - DUPLEX BED 01 B09B.0112	1.0	3.50	Meets
L01 - DUPLEX BED 02 B09B.0112	1.0	3.42	Meets
L02 - DUPLEX KLD B09B.0112	1.5	2.76	Meets
L01 - DUPLEX BED 01 B09B.0113	1.0	3.47	Meets
L01 - DUPLEX BED 02 B09B.0113	1.0	3.49	Meets
L02 - DUPLEX KLD B09B.0113	1.5	2.78	Meets
L01 - DUPLEX BED 01 B09B.0114	1.0	3.53	Meets
L01 - DUPLEX BED 02 B09B.0114	1.0	3.58	Meets
L02 - DUPLEX KLD B09B.0114	1.5	3.00	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 B09A.0101	1.0	2.78	Meets
L01 - BEDROOM 02 B09A.0101	1.0	2.96	Meets
L01 - KITCHEN/LIVING B09A.0101	2.0	1.21	Below
L01 - BEDROOM 01 A.102	1.0	3.32	Meets
L01 - BEDROOM 02 A.102	1.0	2.37	Meets
L01 - KITCHEN/LIVING A.102	2.0	2.75	Meets
L01 - BEDROOM 01 A.103	1.0	4.01	Meets
L01 - BEDROOM 02 A.103	1.0	3.32	Meets
L01 - KITCHEN/LIVING A.103	2.0	2.15	Meets
L01 - BEDROOM 01 A.104	1.0	3.48	Meets
L01 - BEDROOM 02 A.104	1.0	4.13	Meets
L01 - KITCHEN/LIVING A.104	2.0	6.05	Meets
L01 - BEDROOM 01 A.105	1.0	4.16	Meets
L01 - BEDROOM 02 A.105	1.0	1.59	Meets
L01 - KITCHEN/LIVING A.105	2.0	3.06	Meets
L01 - BEDROOM 01 A.106	1.0	1.89	Meets

L01 - KITCHEN/LIVING A.106	2.0	3.80	Meets
L01 - BEDROOM 01 A.107	1.0	1.80	Meets
L01 - KITCHEN/LIVING A.107	2.0	3.82	Meets
L01 - BEDROOM 01 A.108	1.0	4.14	Meets
L01 - BEDROOM 02 A.108	1.0	1.55	Meets
L01 - KITCHEN/LIVING A.108	2.0	3.01	Meets
L01 - BEDROOM 01 A.109	1.0	3.62	Meets
L01 - BEDROOM 02 A.109	1.0	4.28	Meets
L01 - KITCHEN/LIVING A.109	2.0	4.03	Meets
L01 - BEDROOM 01 A.110	1.0	1.64	Meets
L01 - BEDROOM 02 A.110	1.0	3.48	Meets
L01 - KITCHEN/LIVING A.110	2.0	2.92	Meets
L01 - BEDROOM 01 B09A.0111	1.0	2.02	Meets
L01 - BEDROOM 02 B09A.0111	1.0	1.92	Meets
L01 - KITCHEN/LIVING B09A.0111	2.0	0.89	Below
L01 - BEDROOM 01 B09A.0112	1.0	1.83	Meets
L01 - KITCHEN/LIVING B09A.0112	2.0	0.86	Below
L01 - BEDROOM 01 A.113	1.0	1.03	Meets
L01 - KITCHEN/LIVING A.113	2.0	0.72	Below
L01 - BEDROOM 01 B09A.0114	1.0	1.95	Meets
L01 - KITCHEN/LIVING B09A.0114	2.0	1.37	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 B.101	1.0	3.39	Meets
L01 - BEDROOM 02 B.101	1.0	2.66	Meets
L01 - KITCHEN/LIVING B.101	2.0	2.61	Meets
L01 - BEDROOM 01 B.102	1.0	3.52	Meets
L01 - BEDROOM 02 B.102	1.0	2.64	Meets
L01 - KITCHEN/LIVING B.102	2.0	2.45	Meets
L01 - BEDROOM 01 B09B.0103	1.0	1.18	Meets
L01 - BEDROOM 02 B09B.0103	1.0	3.88	Meets
L01 - KITCHEN/LIVING B09B.0103	2.0	2.61	Meets
L01 - BEDROOM 01 B.104	1.0	1.51	Meets
L01 - BEDROOM 02 B.104	1.0	1.49	Meets
L01 - KITCHEN/LIVING B.104	2.0	6.30	Meets
L01 - BEDROOM 01 B.105	1.0	1.28	Meets
L01 - BEDROOM 02 B.105	1.0	0.34	Below
L01 - KITCHEN/LIVING B.105	2.0	0.96	Below
L01 - BEDROOM 01 B.106	1.0	1.13	Meets
L01 - BEDROOM 02 B.106	1.0	0.38	Below
L01 - KITCHEN/LIVING B.106	2.0	0.91	Below
L01 - BEDROOM 01 B.107	1.0	0.88	Below
L01 - KITCHEN/LIVING B.107	2.0	1.11	Below

L01 - BEDROOM 01 B.108	1.0	1.60	Meets
L01 - KITCHEN/LIVING B.108	2.0	1.09	Below
L01 - BEDROOM 01 B.109	1.0	2.57	Meets
L01 - BEDROOM 02 B.109	1.0	2.23	Meets
L01 - KITCHEN/LIVING B.109	2.0	1.24	Below
L01 - BEDROOM 01 B.110	1.0	2.64	Meets
L01 - BEDROOM 02 B.110	1.0	3.30	Meets
L01 - KITCHEN/LIVING B.110	2.0	2.09	Meets
L01 - BEDROOM 01 B09B.0115	1.0	2.01	Meets
L01 - BEDROOM 02 B09B.0115	1.0	2.18	Meets
L01 - KITCHEN/LIVING B09B.0115	2.0	1.01	Below
L01 - BEDROOM 01 B09B.0116	1.0	2.22	Meets
L01 - KITCHEN/LIVING B09B.0116	2.0	1.02	Below
L01 - BEDROOM 01 B.117	1.0	1.29	Meets
L01 - KITCHEN/LIVING B.117	2.0	0.89	Below
L01 - BEDROOM 01 B09B.0118	1.0	1.92	Meets
L01 - KITCHEN/LIVING B09B.0118	2.0	1.36	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 B09A.0201	1.0	3.11	Meets
L02 - BEDROOM 02 B09A.0201	1.0	3.48	Meets
L02 - KITCHEN/LIVING B09A.0201	2.0	2.04	Meets
L02 - BEDROOM 01 A.202	1.0	2.56	Meets
L02 - BEDROOM 02 A.202	1.0	3.37	Meets
L02 - KITCHEN/LIVING A.202	2.0	2.40	Meets
L02 - BEDROOM 01 A.203	1.0	4.06	Meets
L02 - BEDROOM 02 A.203	1.0	3.30	Meets
L02 - KITCHEN/LIVING A.203	2.0	2.15	Meets
L02 - BEDROOM 01 A.204	1.0	3.48	Meets
L02 - BEDROOM 02 A.204	1.0	4.15	Meets
L02 - KITCHEN/LIVING A.204	2.0	6.05	Meets
L02 - BEDROOM 01 A.205	1.0	4.14	Meets
L02 - BEDROOM 02 A.205	1.0	1.57	Meets
L02 - KITCHEN/LIVING A.205	2.0	3.07	Meets
L02 - BEDROOM 01 A.206	1.0	1.88	Meets
L02 - KITCHEN/LIVING A.206	2.0	3.75	Meets
L02 - BEDROOM 01 A.207	1.0	1.82	Meets
L02 - KITCHEN/LIVING A.207	2.0	3.79	Meets
L02 - BEDROOM 01 A.208	1.0	4.07	Meets
L02 - BEDROOM 02 A.208	1.0	1.55	Meets
L02 - KITCHEN/LIVING A.208	2.0	3.04	Meets
L02 - BEDROOM 01 A.209	1.0	3.58	Meets
L02 - BEDROOM 02 A.209	1.0	4.27	Meets

L02 - KITCHEN/LIVING A.209	2.0	4.04	Meets
L02 - BEDROOM 01 A.210	1.0	2.26	Meets
L02 - BEDROOM 02 A.210	1.0	3.47	Meets
L02 - KITCHEN/LIVING A.210	2.0	2.99	Meets
L02 - BEDROOM 01 B09A.0211	1.0	1.90	Meets
L02 - BEDROOM 02 B09A.0211	1.0	2.05	Meets
L02 - KITCHEN/LIVING B09A.0211	2.0	0.99	Below
L02 - BEDROOM 01 B09A.0212	1.0	2.15	Meets
L02 - KITCHEN/LIVING B09A.0212	2.0	1.07	Below
L02 - BEDROOM 01 A.213	1.0	1.37	Meets
L02 - KITCHEN/LIVING A.213	2.0	0.88	Below
L02 - BEDROOM 01 B09A.0214	1.0	2.21	Meets
L02 - KITCHEN/LIVING B09A.0214	2.0	1.56	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 B09B.0201	1.0	3.00	Meets
L02 - BEDROOM 02 B09B.0201	1.0	3.50	Meets
L02 - KITCHEN/LIVING B09B.0201	2.0	2.02	Meets
L02 - BEDROOM 01 B.202	1.0	2.76	Meets
L02 - BEDROOM 02 B.202	1.0	3.70	Meets
L02 - KITCHEN/LIVING B.202	2.0	2.40	Meets
L02 - BEDROOM 01 B09B.0203	1.0	3.87	Meets
L02 - BEDROOM 02 B09B.0203	1.0	1.64	Meets
L02 - KITCHEN/LIVING B09B.0203	2.0	2.72	Meets
L02 - BEDROOM 01 B.204	1.0	1.56	Meets
L02 - BEDROOM 02 B.204	1.0	1.62	Meets
L02 - KITCHEN/LIVING B.204	2.0	5.93	Meets
L02 - BEDROOM 01 B.205	1.0	1.31	Meets
L02 - BEDROOM 02 B.205	1.0	0.33	Below
L02 - KITCHEN/LIVING B.205	2.0	0.96	Below
L02 - BEDROOM 01 B.206	1.0	1.15	Meets
L02 - BEDROOM 02 B.206	1.0	0.41	Below
L02 - KITCHEN/LIVING B.206	2.0	0.93	Below
L02 - BEDROOM 01 B.207	1.0	0.92	Below
L02 - KITCHEN/LIVING B.207	2.0	1.21	Below
L02 - BEDROOM 01 B.208	1.0	1.72	Meets
L02 - KITCHEN/LIVING B.208	2.0	1.20	Below
L02 - BEDROOM 01 B.209	1.0	2.72	Meets
L02 - BEDROOM 02 B.209	1.0	2.41	Meets
L02 - KITCHEN/LIVING B.209	2.0	1.30	Below
L02 - BEDROOM 01 B.210	1.0	2.64	Meets
L02 - BEDROOM 02 B.210	1.0	3.31	Meets
L02 - KITCHEN/LIVING B.210	2.0	2.32	Meets

L02 - BEDROOM 01 B09B.0211	1.0	2.29	Meets
L02 - BEDROOM 02 B09B.0211	1.0	2.07	Meets
L02 - KITCHEN/LIVING B09B.0211	2.0	1.14	Below
L02 - BEDROOM 01 B09B.0212	1.0	2.61	Meets
L02 - KITCHEN/LIVING B09B.0212	2.0	1.28	Below
L02 - BEDROOM 01 B.213	1.0	1.80	Meets
L02 - KITCHEN/LIVING B.213	2.0	1.10	Below
L02 - BEDROOM 01 B09B.0214	1.0	2.14	Meets
L02 - KITCHEN/LIVING B09B.0214	2.0	1.57	Below

13.1.10 Block 10 ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L00 - BEDROOM 01 GU01	1.0	5.16	Meets
L00 - BEDROOM 02 GU01	1.0	3.87	Meets
L00 - BEDROOM 03 GU01	1.0	3.49	Meets
L00 - KITCHEN/LIVING GU01	2.0	4.39	Meets
L00 - BEDROOM 01 GU02	1.0	1.62	Meets
L00 - BEDROOM 02 GU02	1.0	1.37	Meets
L00 - KITCHEN/LIVING GU02	2.0	4.19	Meets
L00 - BEDROOM 01 GU03	1.0	0.52	Below
L00 - KITCHEN/LIVING GU03	2.0	1.31	Below
L00 - BEDROOM 01 GU04	1.0	1.03	Meets
L00 - BEDROOM 02 GU04	1.0	0.40	Below
L00 - KITCHEN/LIVING GU04	2.0	0.65	Below
L00 - BEDROOM 01 GU05	1.0	0.64	Below
L00 - BEDROOM 02 GU05	1.0	1.25	Meets
L00 - KITCHEN/LIVING GU05	2.0	1.02	Below
L00 - BEDROOM 01 GU06	1.0	2.26	Meets
L00 - BEDROOM 02 GU06	1.0	3.00	Meets
L00 - BEDROOM 03 GU06	1.0	1.57	Meets
L00 - KITCHEN/LIVING GU06	2.0	4.10	Meets
L00 - BEDROOM 01 GU07	1.0	2.98	Meets
L00 - BEDROOM 02 GU07	1.0	4.04	Meets
L00 - KITCHEN/LIVING GU07	2.0	2.62	Meets
L00 - BEDROOM 01 GU08	1.0	3.15	Meets
L00 - KITCHEN/LIVING GU08	2.0	2.76	Meets
L00 - BEDROOM 01 GU09	1.0	3.05	Meets
L00 - BEDROOM 02 GU09	1.0	3.43	Meets
L00 - KITCHEN/LIVING GU09	2.0	2.79	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 0101	1.0	3.08	Meets
L01 - BEDROOM 02 0101	1.0	2.89	Meets
L01 - KITCHEN/LIVING 0101	2.0	1.61	Below
L01 - BEDROOM 01 0102	1.0	5.10	Meets
L01 - BEDROOM 02 0102	1.0	3.87	Meets
L01 - BEDROOM 03 0102	1.0	3.52	Meets
L01 - KITCHEN/LIVING 0102	2.0	4.39	Meets
L01 - BEDROOM 01 0103	1.0	1.64	Meets
L01 - BEDROOM 02 0103	1.0	1.40	Meets
L01 - KITCHEN/LIVING 0103	2.0	4.22	Meets
L01 - BEDROOM 01 0104	1.0	0.51	Below
L01 - KITCHEN/LIVING 0104	2.0	1.38	Below
L01 - BEDROOM 01 0105	1.0	1.12	Meets
L01 - BEDROOM 02 0105	1.0	0.39	Below
L01 - KITCHEN/LIVING 0105	2.0	0.83	Below
L01 - BEDROOM 01 0106	1.0	0.74	Below
L01 - BEDROOM 02 0106	1.0	1.46	Meets
L01 - KITCHEN/LIVING 0106	2.0	1.13	Below
L01 - BEDROOM 01 0107	1.0	2.52	Meets
L01 - BEDROOM 02 0107	1.0	3.50	Meets
L01 - BEDROOM 03 0107	1.0	1.82	Meets
L01 - KITCHEN/LIVING 0107	2.0	4.20	Meets
L01 - BEDROOM 01 0108	1.0	2.76	Meets
L01 - BEDROOM 02 0108	1.0	4.15	Meets
L01 - KITCHEN/LIVING 0108	2.0	2.14	Meets
L01 - BEDROOM 01 0109	1.0	3.34	Meets
L01 - KITCHEN/LIVING 0109	2.0	3.14	Meets
L01 - BEDROOM 01 0110	1.0	2.48	Meets
L01 - BEDROOM 02 0110	1.0	3.48	Meets
L01 - KITCHEN/LIVING 0110	2.0	2.58	Meets
L01 - BEDROOM 01 0111	1.0	3.26	Meets
L01 - BEDROOM 02 0111	1.0	3.11	Meets
L01 - KITCHEN/LIVING 0111	2.0	1.50	Below

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L02 - BEDROOM 01 0201	1.0	2.85	Meets
L02 - BEDROOM 02 0201	1.0	2.81	Meets
L02 - KITCHEN/LIVING 0201	2.0	1.60	Below
L02 - BEDROOM 01 0202	1.0	5.12	Meets

L02 - BEDROOM 02 0202	1.0	3.91	Meets
L02 - BEDROOM 03 0202	1.0	3.53	Meets
L02 - KITCHEN/LIVING 0202	2.0	4.38	Meets
L02 - BEDROOM 01 0203	1.0	1.72	Meets
L02 - BEDROOM 02 0203	1.0	1.49	Meets
L02 - KITCHEN/LIVING 0203	2.0	4.26	Meets
L02 - BEDROOM 01 0204	1.0	0.51	Below
L02 - KITCHEN/LIVING 0204	2.0	1.51	Meets
L02 - BEDROOM 01 0205	1.0	1.28	Meets
L02 - BEDROOM 02 0205	1.0	0.41	Below
L02 - KITCHEN/LIVING 0205	2.0	0.90	Below
L02 - BEDROOM 01 0206	1.0	0.95	Below
L02 - BEDROOM 02 0206	1.0	1.74	Meets
L02 - KITCHEN/LIVING 0206	2.0	1.33	Below
L02 - BEDROOM 01 0207	1.0	2.87	Meets
L02 - BEDROOM 02 0207	1.0	4.02	Meets
L02 - BEDROOM 03 0207	1.0	2.11	Meets
L02 - KITCHEN/LIVING 0207	2.0	4.33	Meets
L02 - BEDROOM 01 0208	1.0	2.78	Meets
L02 - BEDROOM 02 0208	1.0	4.14	Meets
L02 - KITCHEN/LIVING 0208	2.0	5.75	Meets
L02 - BEDROOM 01 0209	1.0	3.39	Meets
L02 - KITCHEN/LIVING 0209	2.0	3.70	Meets
L02 - BEDROOM 01 0210	1.0	2.49	Meets
L02 - BEDROOM 02 0210	1.0	3.51	Meets
L02 - KITCHEN/LIVING 0210	2.0	2.61	Meets
L02 - BEDROOM 01 0211	1.0	3.26	Meets
L02 - BEDROOM 02 0211	1.0	3.11	Meets
L02 - KITCHEN/LIVING 0211	2.0	1.50	Below

13.2 Appendix B - Houses Detailed Results (Average Daylight Factor)

13.2.1 Block 04A/04B ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 01 H3.001	1.0	1.00	Meets
L01 - BEDROOM 02 H3.001	1.0	2.23	Meets
L01 - BEDROOM 03 H3.001	1.0	2.22	Meets
L00 - KITCHEN/DINING ROOM H3.001	2.0	2.68	Meets
L00 - LIVING ROOM H3.001	1.5	2.66	Meets
L01 - BEDROOM 01 H3.002	1.0	1.02	Meets
L01 - BEDROOM 02 H3.002	1.0	2.06	Meets
L01 - BEDROOM 03 H3.002	1.0	1.94	Meets
L00 - KITCHEN/DINING ROOM H3.002	2.0	2.65	Meets
L00 - LIVING ROOM H3.002	1.5	2.71	Meets
L01 - BEDROOM 01 H3.003	1.0	1.03	Meets
L01 - BEDROOM 02 H3.003	1.0	2.20	Meets
L01 - BEDROOM 03 H3.003	1.0	2.02	Meets
L00 - KITCHEN/DINING ROOM H3.003	2.0	2.69	Meets
L00 - LIVING ROOM H3.003	1.5	2.82	Meets
L01 - BEDROOM 01 H3.004	1.0	1.25	Meets
L01 - BEDROOM 02 H3.004	1.0	2.66	Meets
L01 - BEDROOM 03 H3.004	1.0	2.39	Meets
L00 - KITCHEN/DINING ROOM H3.004	2.0	2.83	Meets
L00 - LIVING ROOM H3.004	1.5	3.07	Meets
L01 - BEDROOM 01 H3.005	1.0	1.56	Meets
L01 - BEDROOM 02 H3.005	1.0	3.14	Meets
L01 - BEDROOM 03 H3.005	1.0	2.84	Meets
L00 - KITCHEN/DINING ROOM H3.005	2.0	3.15	Meets
L00 - LIVING ROOM H3.005	1.5	3.34	Meets
L01 - BEDROOM 01 H3.006	1.0	1.29	Meets
L01 - BEDROOM 02 H3.006	1.0	3.23	Meets
L01 - BEDROOM 03 H3.006	1.0	3.23	Meets
L00 - KITCHEN/DINING ROOM H3.006	2.0	3.39	Meets
L00 - LIVING ROOM H3.006	1.5	2.53	Meets
L01 - BEDROOM 01 H3.007	1.0	1.38	Meets
L01 - BEDROOM 02 H3.007	1.0	3.12	Meets
L01 - BEDROOM 03 H3.007	1.0	2.95	Meets
L00 - KITCHEN/DINING ROOM H3.007	2.0	3.08	Meets
L00 - LIVING ROOM H3.007	1.5	3.12	Meets
L01 - BEDROOM 01 H3.008	1.0	1.29	Meets
L01 - BEDROOM 02 H3.008	1.0	2.88	Meets
L01 - BEDROOM 03 H3.008	1.0	2.74	Meets

L00 - KITCHEN/DINING ROOM H3.008	2.0	4.74	Meets
L00 - LIVING ROOM H3.008	1.5	3.05	Meets
L01 - BEDROOM 01 H3.009	1.0	1.23	Meets
L01 - BEDROOM 02 H3.009	1.0	2.80	Meets
L01 - BEDROOM 03 H3.009	1.0	2.62	Meets
L00 - KITCHEN/DINING ROOM H3.009	2.0	3.07	Meets
L00 - LIVING ROOM H3.009	1.5	3.02	Meets
L01 - BEDROOM 01 H3.010	1.0	1.84	Meets
L01 - BEDROOM 02 H3.010	1.0	3.85	Meets
L01 - BEDROOM 03 H3.010	1.0	3.52	Meets
L00 - KITCHEN/DINING ROOM H3.010	2.0	2.79	Meets
L00 - LIVING ROOM H3.010	1.5	4.05	Meets
L01 - BEDROOM 03 H3.011	1.0	2.72	Meets
L01 - BEDROOM 02 H3.011	1.0	3.03	Meets
L01 - BEDROOM 01 H3.011	1.0	1.44	Meets
L00 - KITCHEN/DINING ROOM H3.011	2.0	2.69	Meets
L00 - LIVING ROOM H3.011	1.5	3.48	Meets

13.2.2 Block 08A/08B ADF Results

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 8A.001	1.0	2.00	Meets
L02 - BEDROOM 02 8A.001	1.0	0.74	Below
L02 - BEDROOM 03 8A.001	1.0	1.89	Meets
L00 - KITCHEN/DINING 8A.001	2.0	3.29	Meets
L00 - LIVING ROOM 8A.001	1.5	2.30	Meets
L01 - BEDROOM 8A.002	1.0	2.04	Meets
L02 - BEDROOM 02 8A.002	1.0	0.73	Below
L02 - BEDROOM 03 8A.002	1.0	1.88	Meets
L00 - KITCHEN/DINING 8A.002	2.0	3.32	Meets
L00 - LIVING ROOM 8A.002	1.5	2.28	Meets
L01 - BEDROOM 8A.003	1.0	2.17	Meets
L02 - BEDROOM 02 8A.003	1.0	0.70	Below
L02 - BEDROOM 03 8A.003	1.0	1.91	Meets
L00 - KITCHEN/DINING 8A.003	2.0	3.28	Meets
L00 - LIVING ROOM 8A.003	1.5	2.34	Meets
L01 - BEDROOM 8A.004	1.0	2.41	Meets
L02 - BEDROOM 02 8A.004	1.0	0.78	Below
L02 - BEDROOM 03 8A.004	1.0	2.01	Meets
L00 - KITCHEN/DINING 8A.004	2.0	3.31	Meets
L00 - LIVING ROOM 8A.004	1.5	2.51	Meets
L01 - BEDROOM 8A.005	1.0	2.63	Meets
L02 - BEDROOM 02 8A.005	1.0	1.00	Meets

L02 - BEDROOM 03 8A.005	1.0	2.18	Meets
L00 - KITCHEN/DINING 8A.005	2.0	3.29	Meets
L00 - LIVING ROOM 8A.005	1.5	2.68	Meets
L01 - BEDROOM 8A.006	1.0	2.85	Meets
L02 - BEDROOM 02 8A.006	1.0	1.04	Meets
L02 - BEDROOM 03 8A.006	1.0	2.33	Meets
L00 - KITCHEN/DINING 8A.006	2.0	3.46	Meets
L00 - LIVING ROOM 8A.006	1.5	2.93	Meets

Room name	BRE ADF Target (%)	Average Daylight Factor (%)	Status (Above/Below BRE Target)
L01 - BEDROOM 8B.007	1.0	2.98	Meets
L02 - BEDROOM 02 8B.007	1.0	1.09	Meets
L02 - BEDROOM 03 8B.007	1.0	2.42	Meets
L00 - KITCHEN/DINING 8B.007	2.0	3.18	Meets
L00 - LIVING ROOM 8B.007	1.5	3.34	Meets
L01 - BEDROOM 8B.008	1.0	3.02	Meets
L02 - BEDROOM 02 8B.008	1.0	1.13	Meets
L02 - BEDROOM 03 8B.008	1.0	2.42	Meets
L00 - KITCHEN/DINING 8B.008	2.0	3.18	Meets
L00 - LIVING ROOM 8B.008	1.5	3.49	Meets
L01 - BEDROOM 8B.009	1.0	3.04	Meets
L02 - BEDROOM 02 8B.009	1.0	1.12	Meets
L02 - BEDROOM 03 8B.009	1.0	2.46	Meets
L00 - KITCHEN/DINING 8B.009	2.0	3.14	Meets
L00 - LIVING ROOM 8B.009	1.5	3.61	Meets
L01 - BEDROOM 8B.010	1.0	2.97	Meets
L02 - BEDROOM 02 8B.010	1.0	1.11	Meets
L02 - BEDROOM 03 8B.010	1.0	2.46	Meets
L00 - KITCHEN/DINING 8B.010	2.0	3.18	Meets
L00 - LIVING ROOM 8B.010	1.5	3.69	Meets
L01 - BEDROOM 8B.011	1.0	2.92	Meets
L02 - BEDROOM 02 8B.011	1.0	1.13	Meets
L02 - BEDROOM 03 8B.011	1.0	2.44	Meets
L00 - KITCHEN/DINING 8B.011	2.0	3.19	Meets
L00 - LIVING ROOM 8B.011	1.5	3.66	Meets
L01 - BEDROOM 8B.012	1.0	2.79	Meets
L02 - BEDROOM 02 8B.012	1.0	1.09	Meets
L02 - BEDROOM 03 8B.012	1.0	2.39	Meets
L00 - KITCHEN/DINING 8B.012	2.0	3.14	Meets
L00 - LIVING ROOM 8B.012	1.5	3.66	Meets

13.3 Appendix C – Site Shadow Analysis

Appendix C presents shadow analysis for the proposed strategic housing development at the former O'Devaney Gardens Site, Dublin 7. Three dates were considered for this assessment: Spring Equinox (21 March), Summertime (21 June) and Wintertime (21 December). The spring equinox (21 March) is recommended by the BRE guide for assessing shadow analysis and states "*the equinox (21 March) is the best date for which to prepare shadow plots as it gives an average level of shadowing"* (Littlefair, 2011). The summertime analysis (21 June) has been included in the analysis as this generally is when outdoor amenity spaces are most used and the study highlights the availability of sunlight at the time when it is most sought. Wintertime shadows (21 December) show the long shadows cast by tall buildings and low buildings alike, according to P.J. Littlefair "*in a built-up area, it is common for large areas of the ground to be in shadow in December"* (Littlefair, 2011).

13.3.1 Site Shadow Analysis March 21

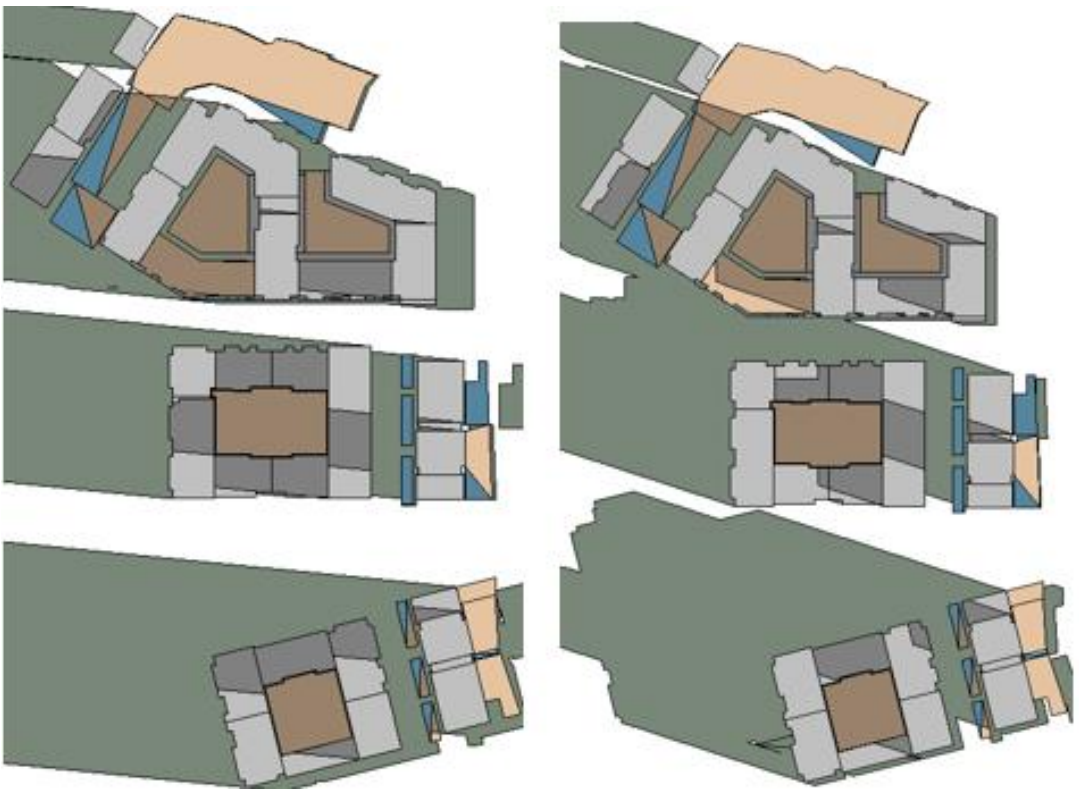


Figure 32: Site Shadow Analysis on March 21 @07:00 (left) @08:00 (right)

Figure 33: Site Shadow Analysis on March 21 @09:00 (left) @10:00 (right)

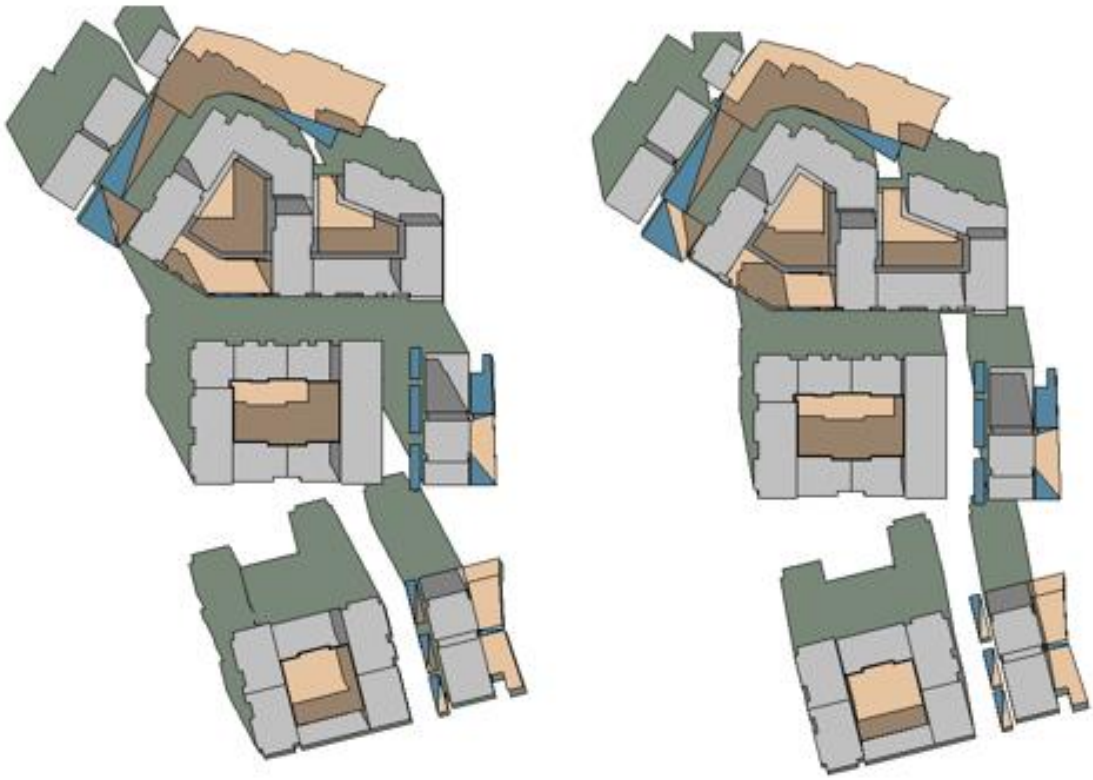


Figure 34: Site Shadow Analysis on March 21 @11:00 (left) @12:00 (right)

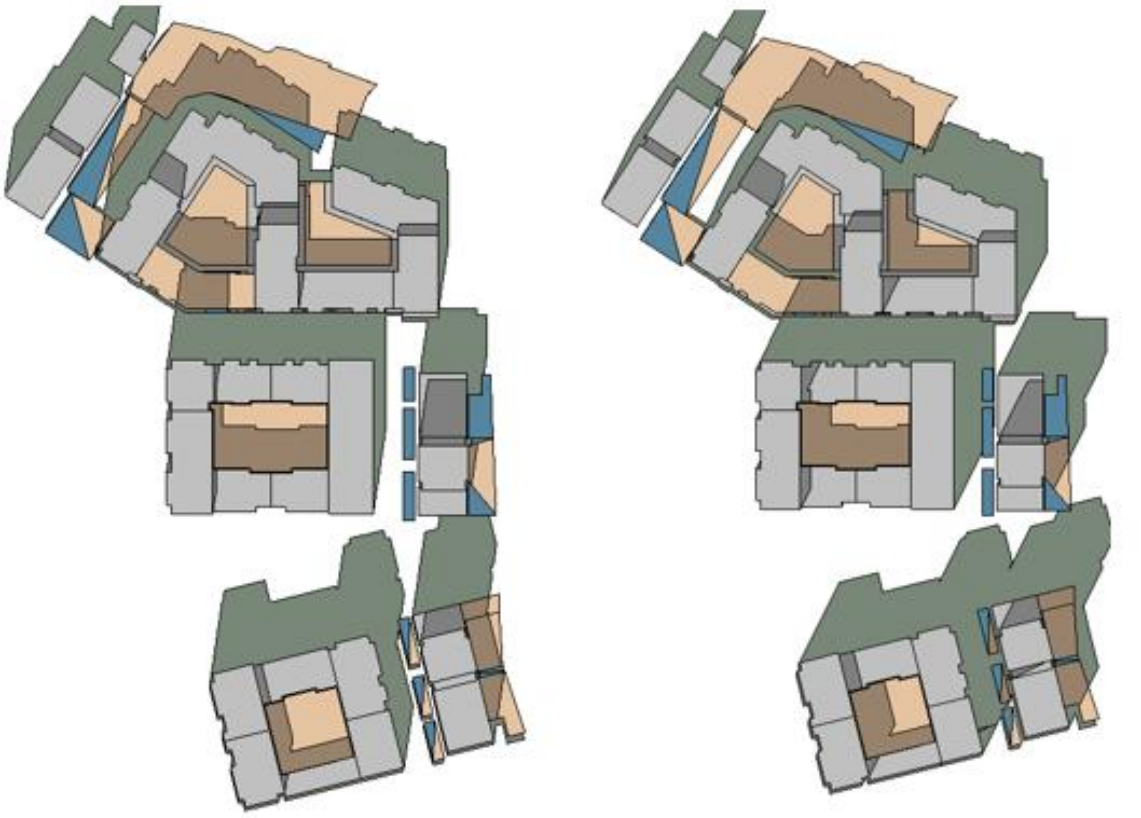


Figure 35: Site Shadow Analysis on March 21 @13:00 (left) @14:00 (right)

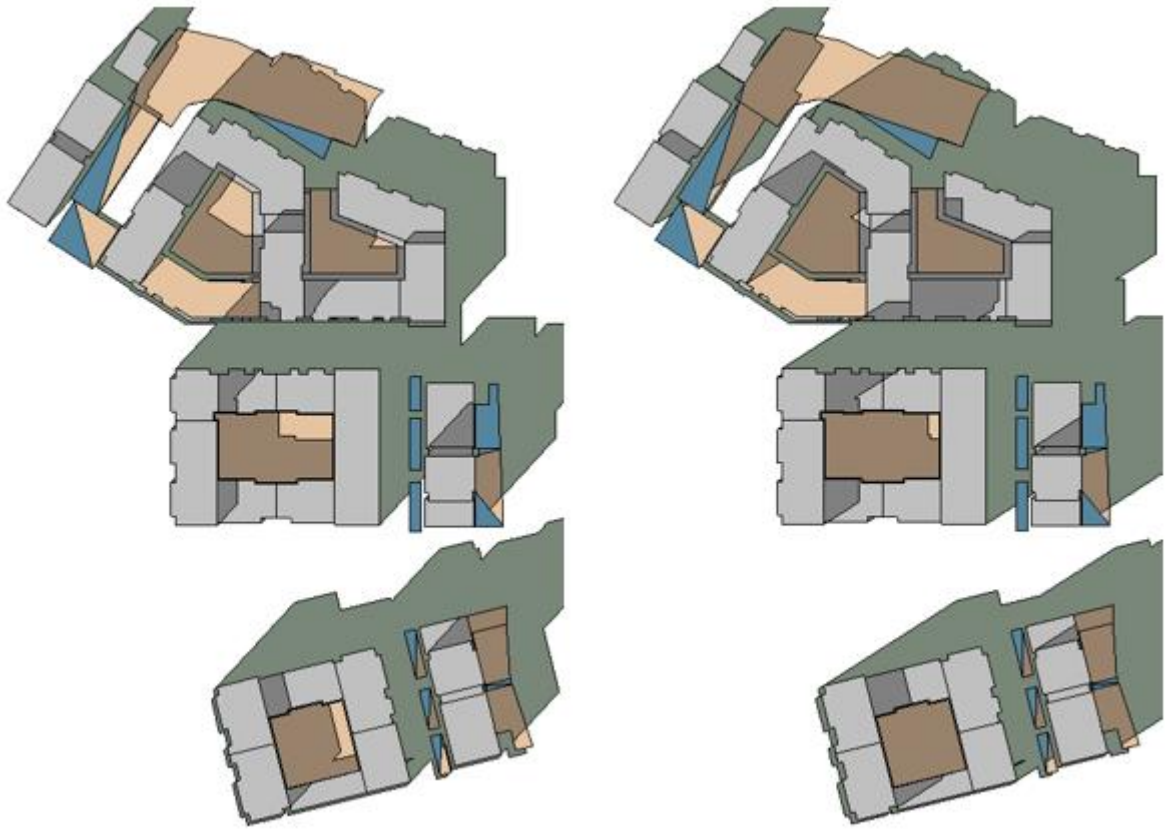


Figure 36: Site Shadow Analysis on March 21 @15:00 (left) @16:00 (right)

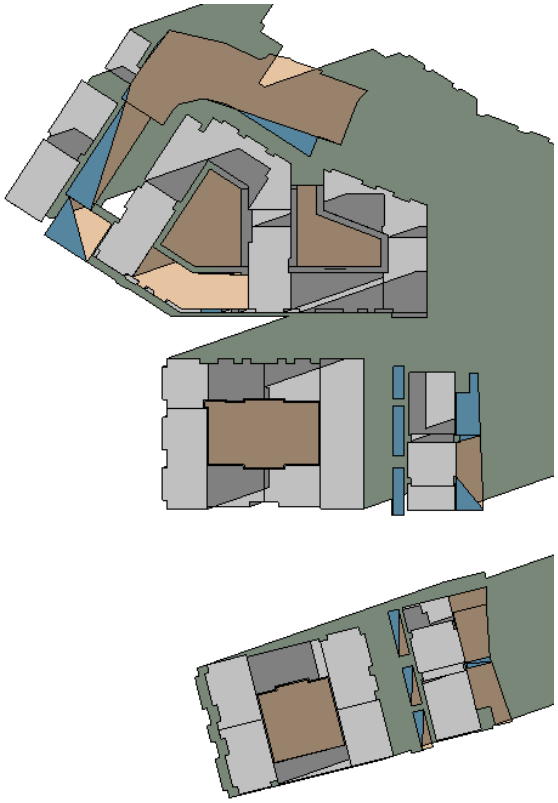


Figure 37: Site Shadow Analysis on March 21 @17:00Site Shadow Analysis June 21

13.3.2 Site Shadow Analysis June 21

Figure 38: Site Shadow Analysis on June 21 @07:00 (left) @08:00 (right)

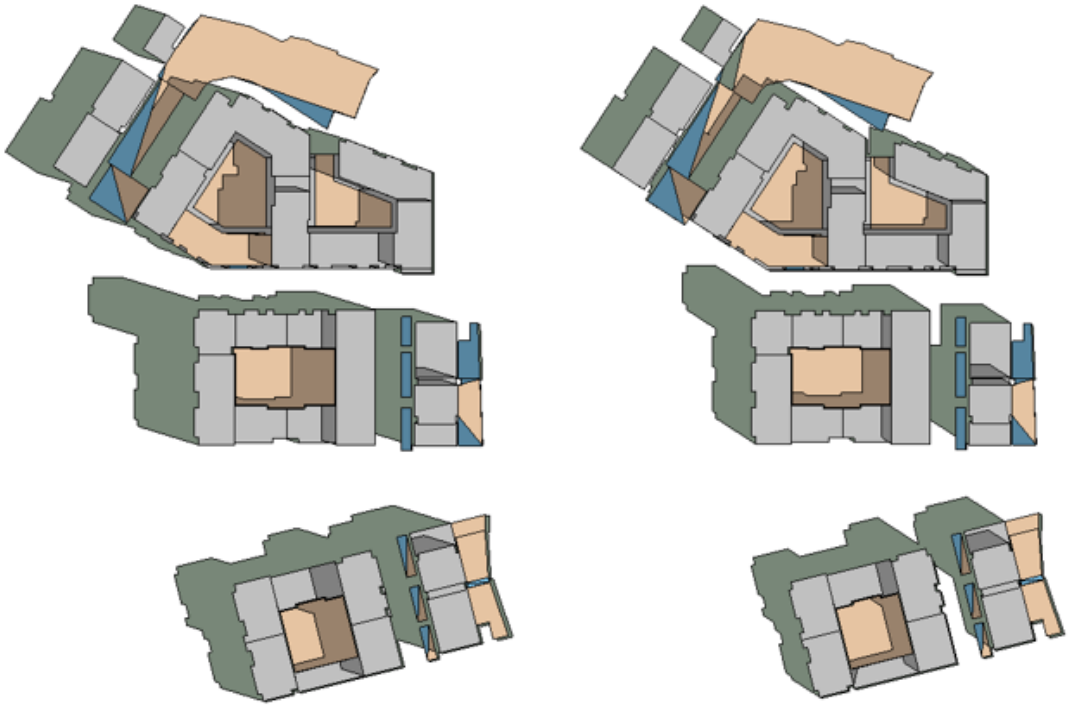


Figure 39: Site Shadow Analysis on June 21 @09:00 (left) @10:00 (right)

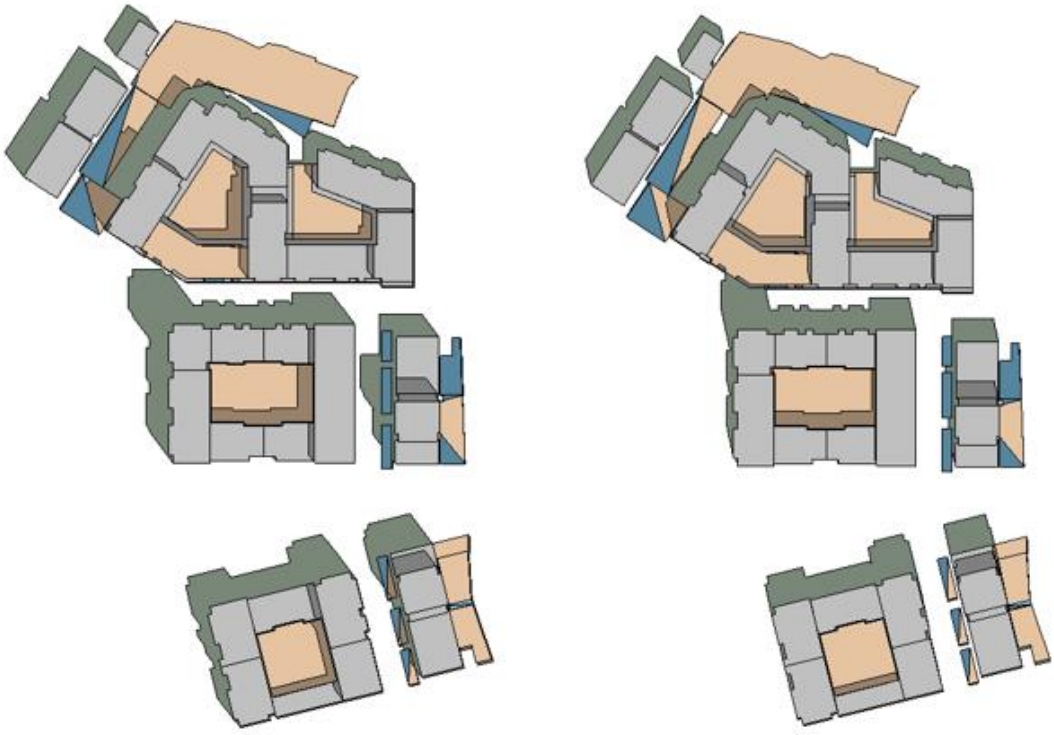


Figure 40: Site Shadow Analysis on June 21 @11:00 (left) @12:00 (right)

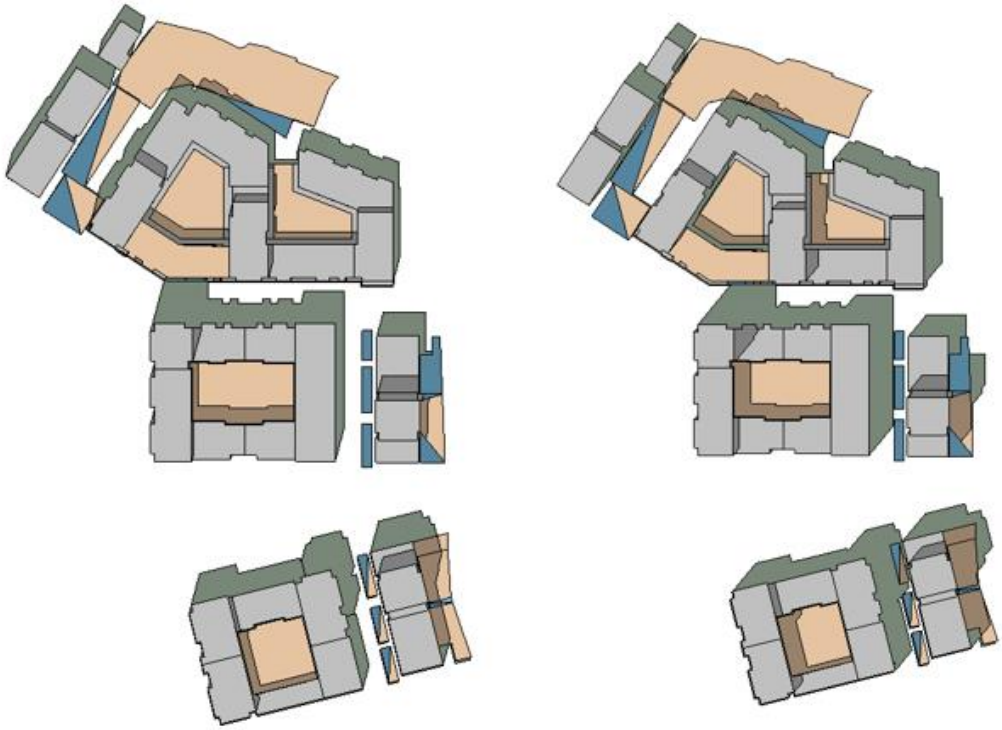


Figure 41: Site Shadow Analysis on June 21 @13:00 (left) @14:00 (right)

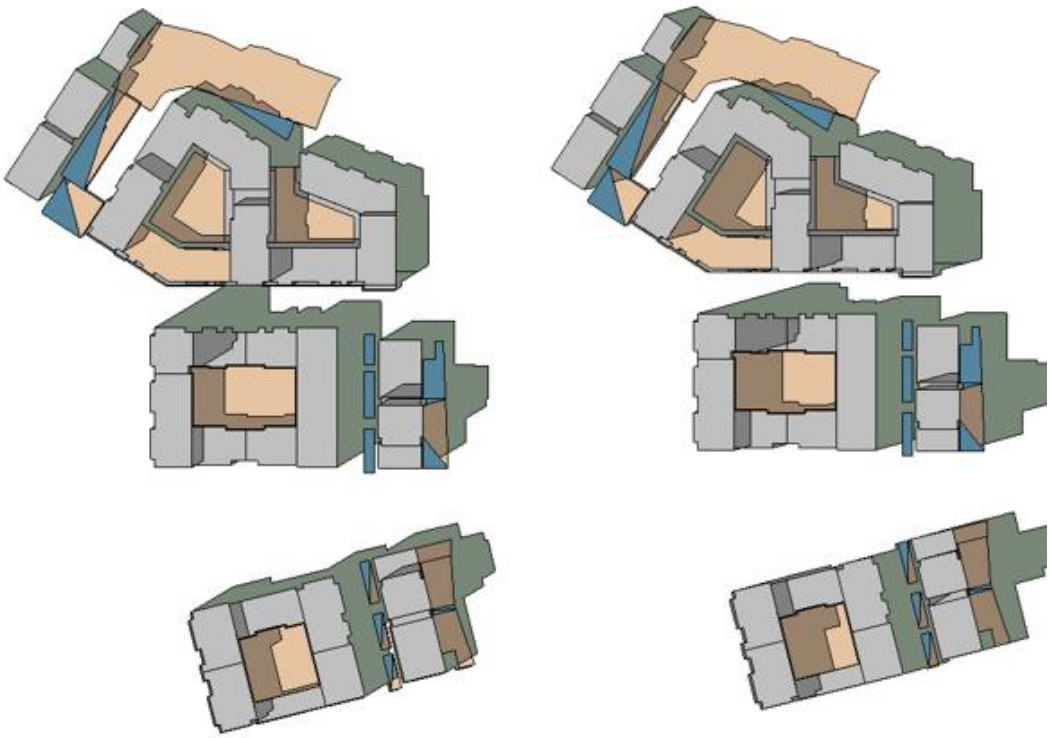


Figure 42: Site Shadow Analysis on June 21 @15:00 (left) @16:00 (right)

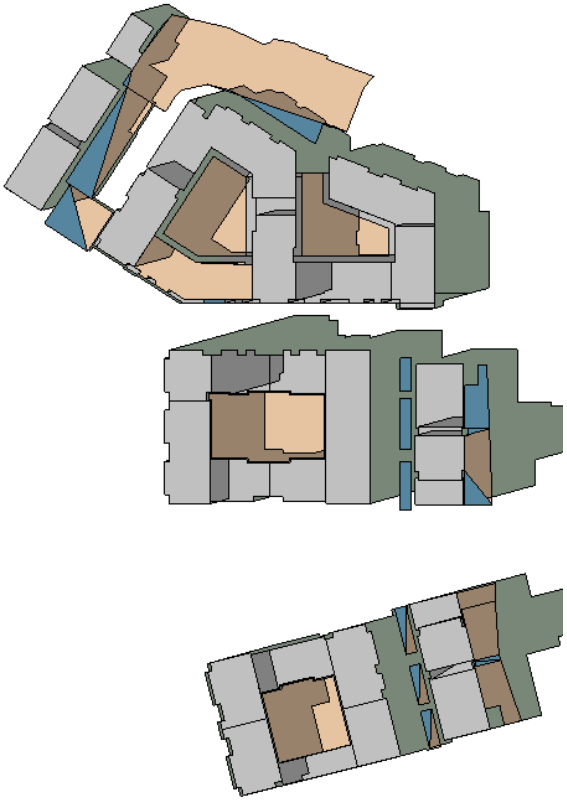


Figure 43: Site Shadow Analysis on June 21 @17:00

13.3.3 Site Shadow Analysis Dec 21

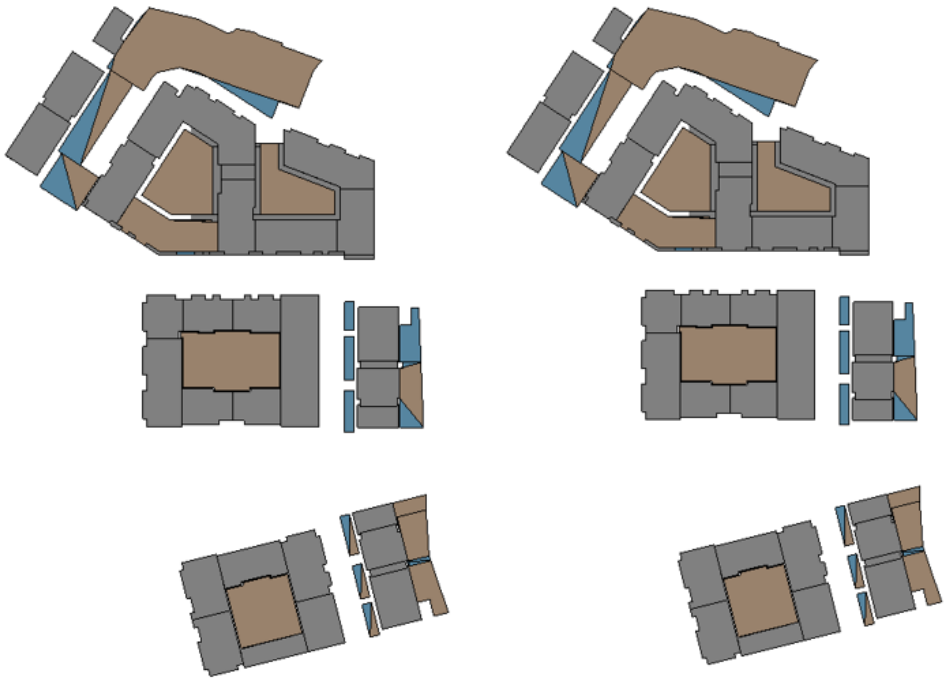


Figure 44: Site Shadow Analysis on Dec 21 @07:00 (left) @08:00 (right)

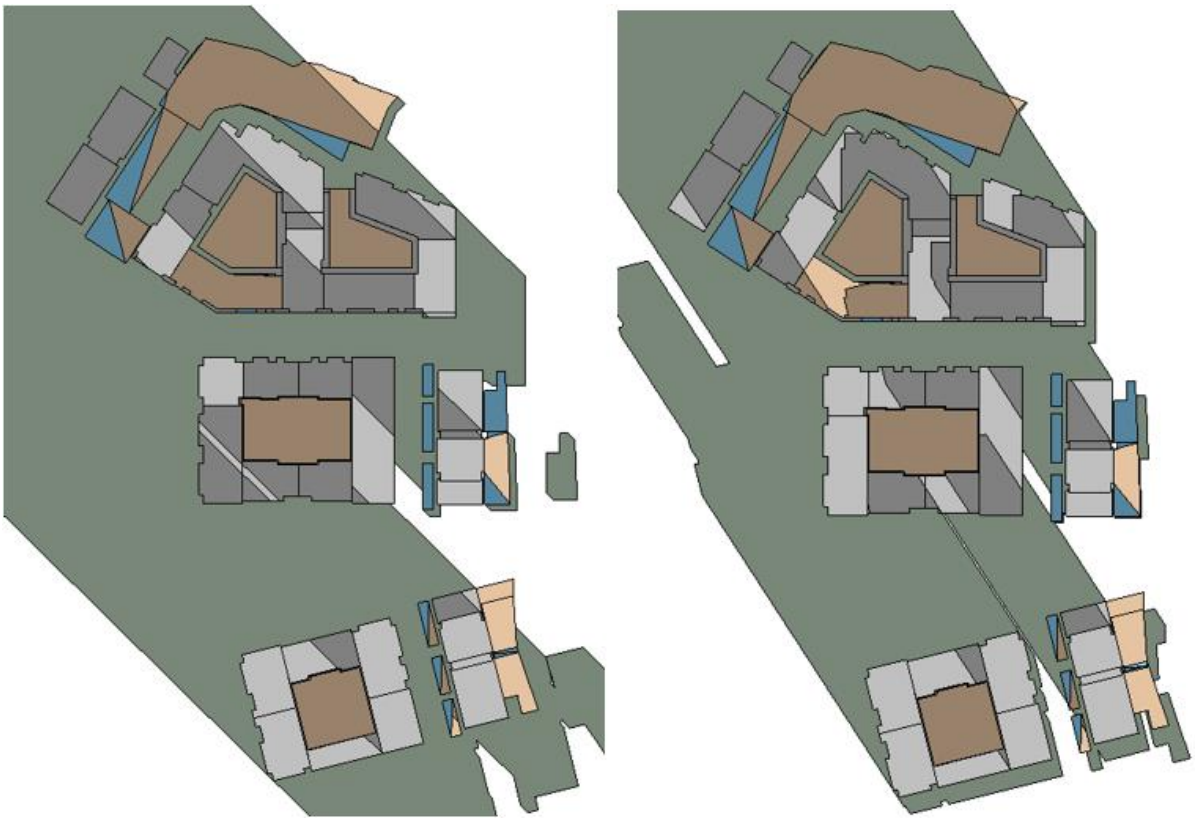


Figure 45: Site Shadow Analysis on Dec 21 @09:00 (left) @10:00 (right)

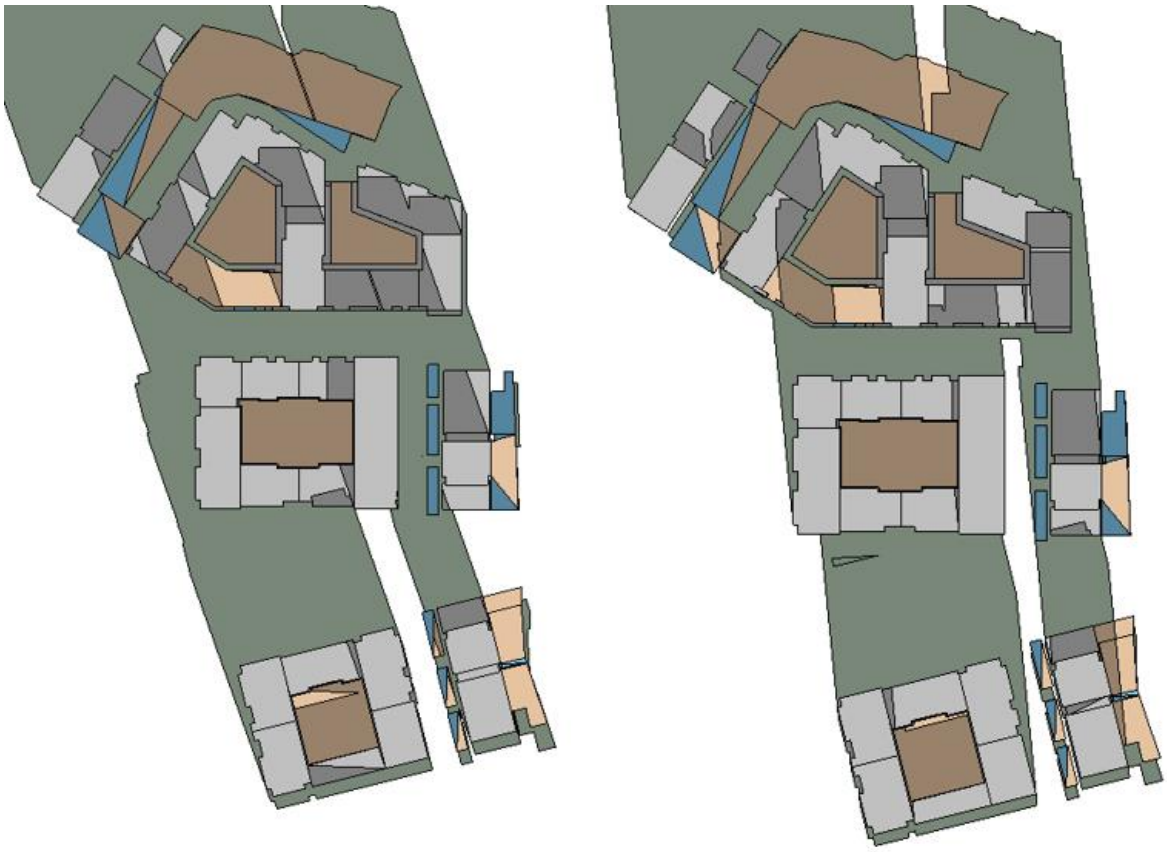


Figure 46: Site Shadow Analysis on Dec 21 @11:00 (left) @12:00 (right)

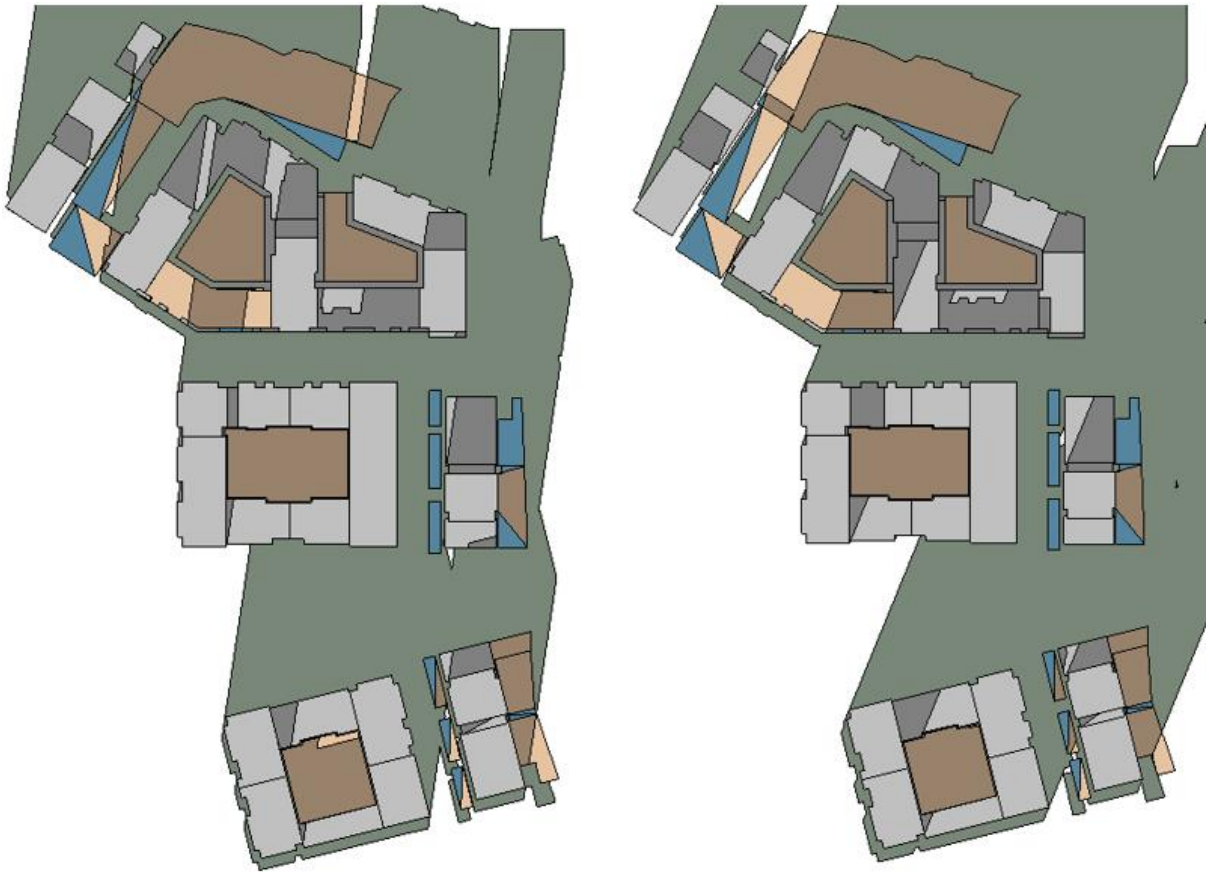


Figure 47: Site Shadow Analysis on Dec 21 @13:00 (left) @14:00 (right)

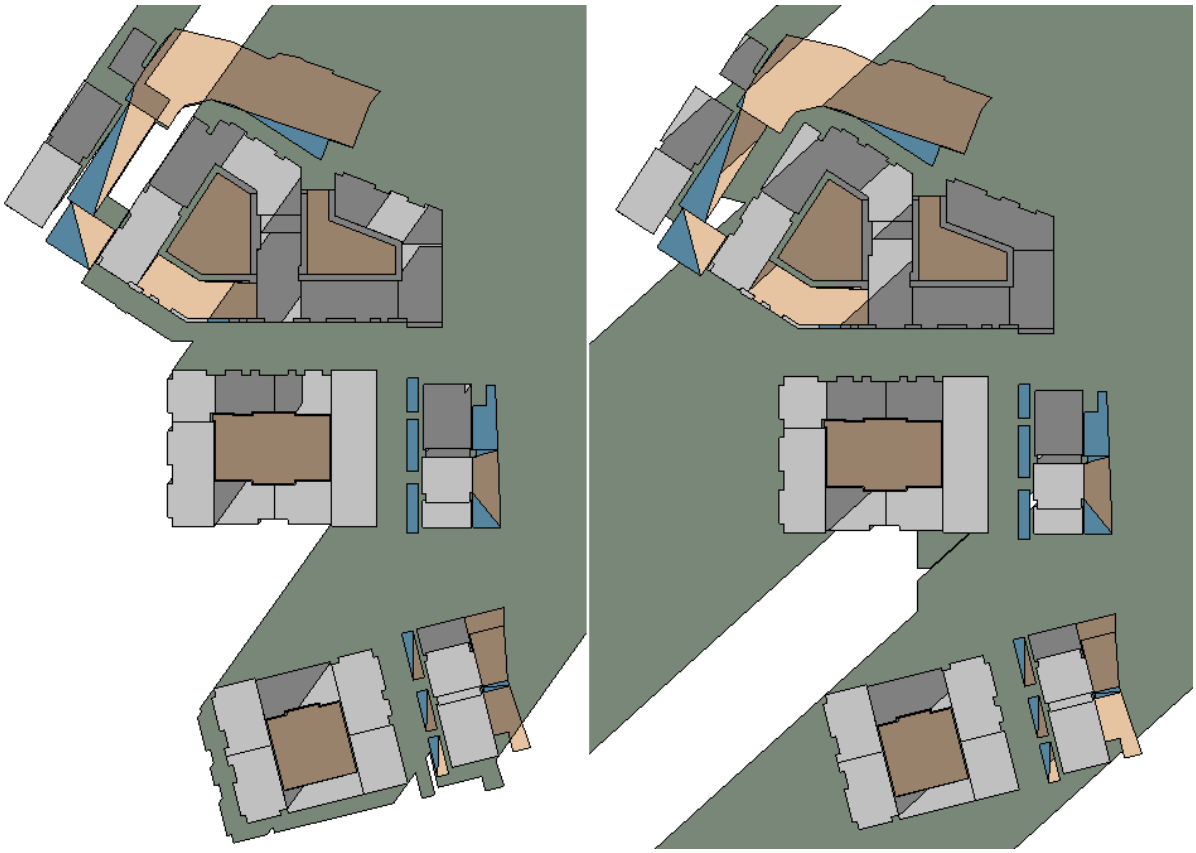


Figure 48: Site Shadow Analysis on Dec 21 @15:00 (left) @16:00 (right)

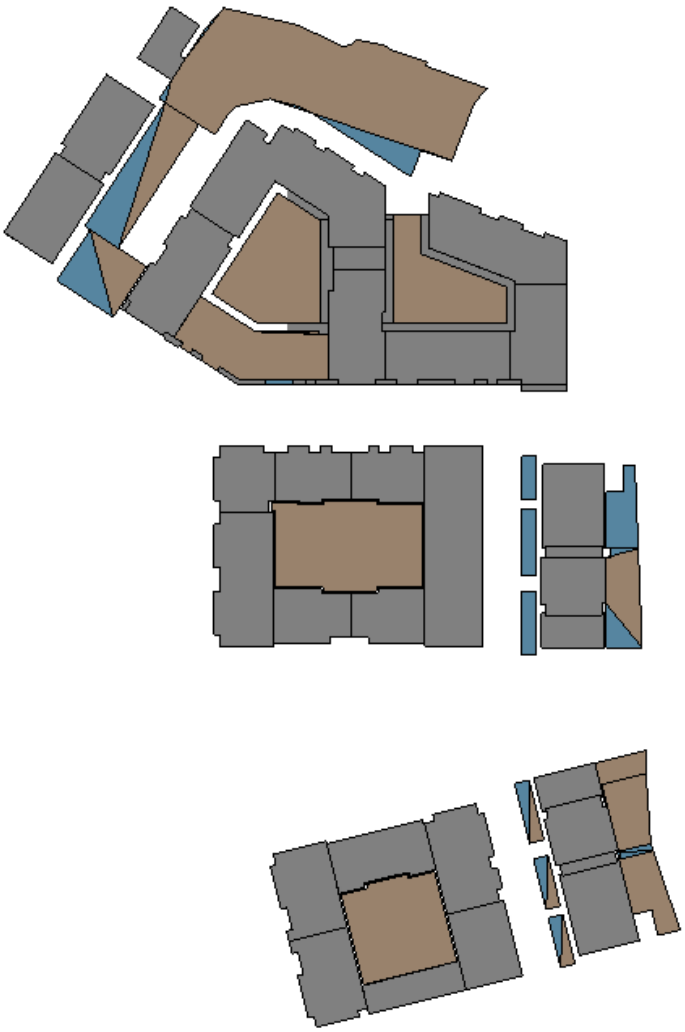


Figure 49: Site Shadow Analysis on Dec 21 @17:00

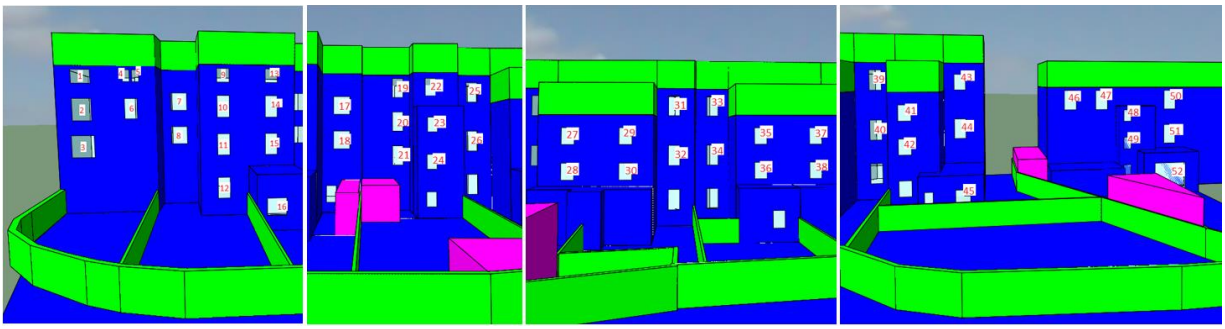
13.4 Appendix C – Detailed Results (Light from the Sky)

13.4.1 North Circular Road

NCR	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
Window Reference	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	36.90	≥27	Meets	N/A	≤20	N/A	Meets
2	35.52	≥27	Meets	N/A	≤20	N/A	Meets
3	33.79	≥27	Meets	N/A	≤20	N/A	Meets
4	35.72	≥27	Meets	N/A	≤20	N/A	Meets
5	35.60	≥27	Meets	N/A	≤20	N/A	Meets
6	34.18	≥27	Meets	N/A	≤20	N/A	Meets
7	13.88	≥27	Below	15.35	≤20	9.58	Meets
8	11.74	≥27	Below	13.86	≤20	15.30	Meets
9	35.91	≥27	Meets	N/A	≤20	N/A	Meets
10	34.37	≥27	Meets	N/A	≤20	N/A	Meets
11	32.42	≥27	Meets	N/A	≤20	N/A	Meets
12	26.99	≥27	Below	32.7	≤20	17.5	Meets
13	35.60	≥27	Meets	N/A	≤20	N/A	Meets
14	34.09	≥27	Meets	N/A	≤20	N/A	Meets
15	31.96	≥27	Meets	N/A	≤20	N/A	Meets
16	26.10	≥27	Below	37.92	≤20	31.17	Below
17	22.47	≥27	Below	26.34	≤20	14.69	Meets
18	19.58	≥27	Below	24.52	≤20	20.15	Below
19	23.81	≥27	Below	26.1	≤20	8.77	Meets
20	20.36	≥27	Below	22.85	≤20	10.90	Meets
21	16.12	≥27	Below	19.91	≤20	19.04	Meets
22	34.18	≥27	Meets	N/A	≤20	N/A	Meets
23	32.74	≥27	Meets	N/A	≤20	N/A	Meets
24	30.08	≥27	Meets	N/A	≤20	N/A	Meets
25	23.07	≥27	Below	25.33	≤20	8.92	Meets
26	11.92	≥27	Below	14.89	≤20	19.95	Meets
27	32.53	≥27	Meets	N/A	≤20	N/A	Meets
28	30.40	≥27	Meets	N/A	≤20	N/A	Meets
29	32.44	≥27	Meets	N/A	≤20	N/A	Meets

NCR	Criteria A	Criteria B	Overall Status (Meets/Below
	Proposed	Existing	

Window Reference	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	BRE Light from the Sky Criteria)
30	29.97	≥27	Meets	N/A	≤20	N/A	Meets
31	28.17	≥27	Meets	N/A	≤20	N/A	Meets
32	16.68	≥27	Below	21.01	≤20	20.61	Below
33	26.51	≥27	Below	29.09	≤20	8.87	Meets
34	15.62	≥27	Below	19.67	≤20	20.59	Below
35	33.08	≥27	Meets	N/A	≤20	N/A	Meets
36	30.81	≥27	Meets	N/A	≤20	N/A	Meets
37	33.21	≥27	Meets	N/A	≤20	N/A	Meets
38	31.22	≥27	Meets	N/A	≤20	N/A	Meets
39	22.99	≥27	Below	24.87	≤20	7.56	Meets
40	10.62	≥27	Below	13.86	≤20	23.38	Below
41	34.17	≥27	Meets	N/A	≤20	N/A	Meets
42	32.44	≥27	Meets	N/A	≤20	N/A	Meets
43	29.13	≥27	Meets	N/A	≤20	N/A	Meets
44	23.07	≥27	Below	25.62	≤20	9.95	Meets
45	29.05	≥27	Meets	N/A	≤20	N/A	Meets
46	35.92	≥27	Meets	N/A	≤20	N/A	Meets
47	36.25	≥27	Meets	N/A	≤20	N/A	Meets
48	36.20	≥27	Meets	N/A	≤20	N/A	Meets
49	34.83	≥27	Meets	N/A	≤20	N/A	Meets
50	37.03	≥27	Meets	N/A	≤20	N/A	Meets
51	32.72	≥27	Meets	N/A	≤20	N/A	Meets
52	33.78	≥27	Meets	N/A	≤20	N/A	Meets



13.4.2 DCC Phase 1 – Block 1

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	22.18	≥27	Below	39.57	≤20	43.95	Below
2	20.22	≥27	Below	39.32	≤20	48.58	Below
3	22.09	≥27	Below	38.97	≤20	43.32	Below
4	19.57	≥27	Below	38.56	≤20	49.25	Below
5	22.33	≥27	Below	37.72	≤20	40.80	Below
6	20.71	≥27	Below	38.95	≤20	46.83	Below
7	20.52	≥27	Below	37.23	≤20	44.88	Below
8	25.93	≥27	Below	33.4	≤20	22.37	Below
9	21.39	≥27	Below	33.59	≤20	36.32	Below
10	22.80	≥27	Below	30.58	≤20	25.44	Below
11	25.77	≥27	Below	32.6	≤20	20.95	Below
12	20.52	≥27	Below	27.73	≤20	26.00	Below
13	25.87	≥27	Below	31.12	≤20	16.87	Meets
14	22.08	≥27	Below	27.64	≤20	20.12	Below
15	21.63	≥27	Below	27.04	≤20	20.01	Below
16	24.34	≥27	Below	28.27	≤20	13.90	Meets
17	18.04	≥27	Below	23.36	≤20	22.77	Below
18	19.18	≥27	Below	23.18	≤20	17.26	Meets
19	21.83	≥27	Below	23.77	≤20	8.16	Meets
20	26.07	≥27	Below	28.11	≤20	7.26	Meets
21	17.11	≥27	Below	18.39	≤20	6.96	Meets
22	20.39	≥27	Below	22.84	≤20	10.73	Meets
23	23.73	≥27	Below	23.82	≤20	0.38	Meets
24	28.43	≥27	Meets	N/A	≤20	N/A	Meets
25	19.08	≥27	Below	19.32	≤20	1.24	Meets
26	22.60	≥27	Below	24.18	≤20	6.53	Meets

13.4.3 DCC Phase 1 – Block 2 (Northeast)

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	28.01	≥27	Meets	N/A	≤20	N/A	Meets
2	27.21	≥27	Meets	N/A	≤20	N/A	Meets
3	27.44	≥27	Meets	N/A	≤20	N/A	Meets
4	26.74	≥27	Below	40.06	≤20	33.25	Below
5	27.04	≥27	Meets	N/A	≤20	N/A	Meets
6	24.71	≥27	Below	40.06	≤20	38.32	Below
7	25.13	≥27	Below	40.1	≤20	37.33	Below
8	25.17	≥27	Below	39.91	≤20	36.93	Below
9	23.97	≥27	Below	39.95	≤20	40.00	Below
10	24.38	≥27	Below	39.95	≤20	38.97	Below
11	22.85	≥27	Below	39.97	≤20	42.83	Below
12	22.08	≥27	Below	40.05	≤20	44.87	Below
13	23.00	≥27	Below	40.15	≤20	42.71	Below
14	22.36	≥27	Below	39.85	≤20	43.89	Below
15	14.49	≥27	Below	24.89	≤20	41.78	Below
16	26.07	≥27	Below	40.02	≤20	34.86	Below
17	12.00	≥27	Below	23.39	≤20	48.70	Below
18	24.86	≥27	Below	39.95	≤20	37.77	Below
19	24.34	≥27	Below	39.95	≤20	39.07	Below
20	1.31	≥27	Below	8.64	≤20	84.84	Below
21	21.77	≥27	Below	39.92	≤20	45.47	Below
22	18.52	≥27	Below	26.87	≤20	31.08	Below
23	27.81	≥27	Meets	N/A	≤20	N/A	Meets
24	13.55	≥27	Below	23.05	≤20	41.21	Below
25	25.59	≥27	Below	40.11	≤20	36.20	Below
26	25.79	≥27	Below	40.11	≤20	35.70	Below
27	2.86	≥27	Below	8.52	≤20	66.43	Below
28	24.15	≥27	Below	39.92	≤20	39.50	Below
29	19.45	≥27	Below	26.86	≤20	27.59	Below
30	28.01	≥27	Meets	N/A	≤20	N/A	Meets
31	14.83	≥27	Below	23.47	≤20	36.81	Below
32	26.26	≥27	Below	40.08	≤20	34.48	Below
33	26.44	≥27	Below	39.94	≤20	33.80	Below
34	3.15	≥27	Below	8.45	≤20	62.72	Below
35	24.35	≥27	Below	40.12	≤20	39.31	Below
36	21.14	≥27	Below	27.68	≤20	23.63	Below
37	28.49	≥27	Meets	N/A	≤20	N/A	Meets

38	16.12	≥27	Below	24.42	≤20	33.99	Below
39	26.48	≥27	Below	40.01	≤20	33.82	Below
40	26.40	≥27	Below	40.01	≤20	34.02	Below
41	3.24	≥27	Below	8.78	≤20	63.10	Below
42	24.86	≥27	Below	40.03	≤20	37.90	Below
43	20.64	≥27	Below	26.92	≤20	23.33	Below
44	27.69	≥27	Meets	N/A	≤20	N/A	Meets
45	15.74	≥27	Below	23.01	≤20	31.59	Below
46	25.77	≥27	Below	39.88	≤20	35.38	Below
47	25.09	≥27	Below	39.88	≤20	37.09	Below
48	2.96	≥27	Below	8.22	≤20	63.99	Below
49	24.44	≥27	Below	40.11	≤20	39.07	Below
50	18.89	≥27	Below	26.69	≤20	29.22	Below
51	26.74	≥27	Below	40.09	≤20	33.30	Below
52	13.20	≥27	Below	22.88	≤20	42.31	Below
53	24.39	≥27	Below	40.04	≤20	39.09	Below
54	24.19	≥27	Below	40.04	≤20	39.59	Below
55	1.79	≥27	Below	8.32	≤20	78.49	Below
56	21.50	≥27	Below	40.11	≤20	46.40	Below

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
57	17.83	≥27	Below	26.92	≤20	33.77	Below
58	28.55	≥27	Meets	N/A	≤20	N/A	Meets
59	12.09	≥27	Below	22.97	≤20	47.37	Below
60	26.01	≥27	Below	39.79	≤20	34.63	Below
61	27.07	≥27	Meets	N/A	≤20	N/A	Meets
62	1.33	≥27	Below	8.33	≤20	84.03	Below
63	23.51	≥27	Below	40.02	≤20	41.25	Below
64	32.79	≥27	Meets	N/A	≤20	N/A	Meets
65	33.16	≥27	Meets	N/A	≤20	N/A	Meets
66	25.88	≥27	Below	29.5	≤20	12.27	Meets
67	34.96	≥27	Meets	N/A	≤20	N/A	Meets
68	36.11	≥27	Meets	N/A	≤20	N/A	Meets
69	30.90	≥27	Meets	N/A	≤20	N/A	Meets
70	1.05	≥27	Below	1.76	≤20	40.34	Below
71	33.11	≥27	Meets	N/A	≤20	N/A	Meets
72	33.65	≥27	Meets	N/A	≤20	N/A	Meets
73	34.40	≥27	Meets	N/A	≤20	N/A	Meets
74	29.19	≥27	Meets	N/A	≤20	N/A	Meets
75	1.03	≥27	Below	1.77	≤20	41.81	Below

76	31.98	≥27	Meets	N/A	≤20	N/A	Meets
77	33.20	≥27	Meets	N/A	≤20	N/A	Meets
78	34.62	≥27	Meets	N/A	≤20	N/A	Meets
79	30.72	≥27	Meets	N/A	≤20	N/A	Meets
80	31.91	≥27	Meets	N/A	≤20	N/A	Meets

13.4.4 DCC Phase 1 – Block 2 (Southeast)

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	4.40	≥27	Below	13.54	≤20	67.50	Below
2	2.50	≥27	Below	7.68	≤20	67.45	Below
3	4.61	≥27	Below	14.61	≤20	68.45	Below
4	3.02	≥27	Below	9.81	≤20	69.22	Below
5	3.59	≥27	Below	14.88	≤20	75.87	Below
6	2.35	≥27	Below	9.54	≤20	75.37	Below
7	27.73	≥27	Meets	N/A	≤20	N/A	Meets
8	26.08	≥27	Below	40.18	≤20	35.09	Below
9	24.73	≥27	Below	39.83	≤20	37.91	Below
10	26.60	≥27	Below	39.92	≤20	33.37	Below
11	24.89	≥27	Below	39.83	≤20	37.51	Below
12	23.67	≥27	Below	39.54	≤20	40.14	Below
13	26.22	≥27	Below	39.96	≤20	34.38	Below
14	26.06	≥27	Below	39.98	≤20	34.82	Below
15	25.33	≥27	Below	40.04	≤20	36.74	Below
16	24.62	≥27	Below	39.89	≤20	38.28	Below
17	23.99	≥27	Below	39.92	≤20	39.90	Below
18	23.54	≥27	Below	39.98	≤20	41.12	Below
19	22.74	≥27	Below	39.58	≤20	42.55	Below
20	24.84	≥27	Below	39.94	≤20	37.81	Below
21	23.77	≥27	Below	39.9	≤20	40.43	Below
22	22.59	≥27	Below	39.74	≤20	43.16	Below

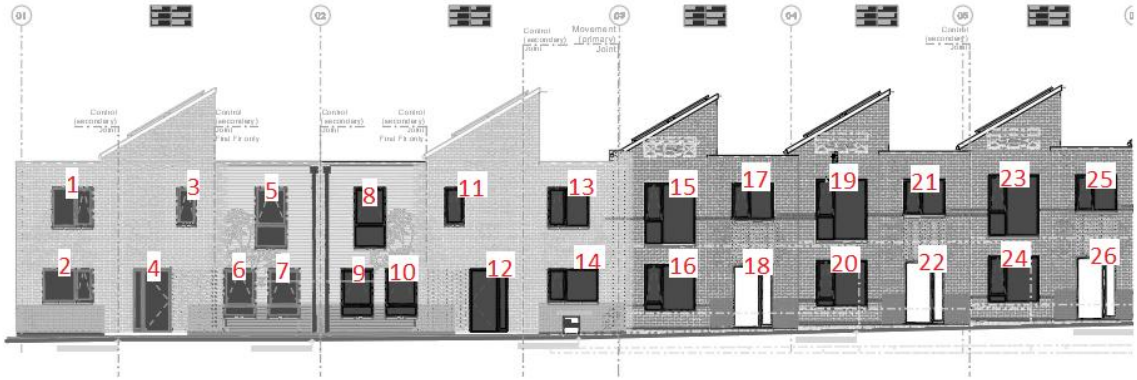


Figure 50: DCC Phase 1 - Block 1

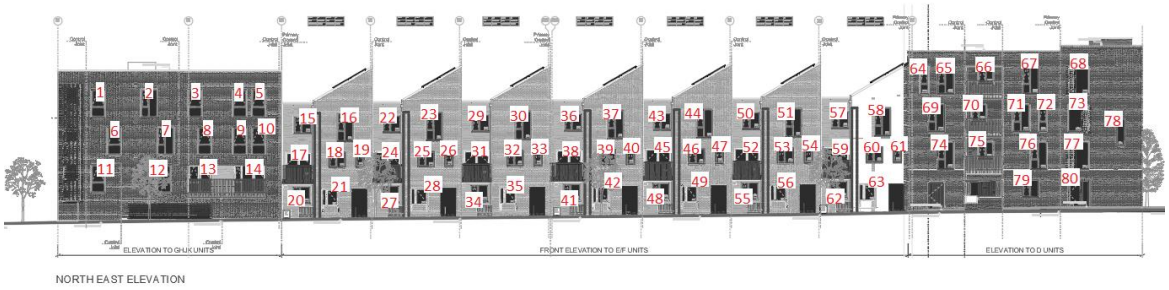


Figure 51: DCC Phase 1 - Block 2 (Northeast)

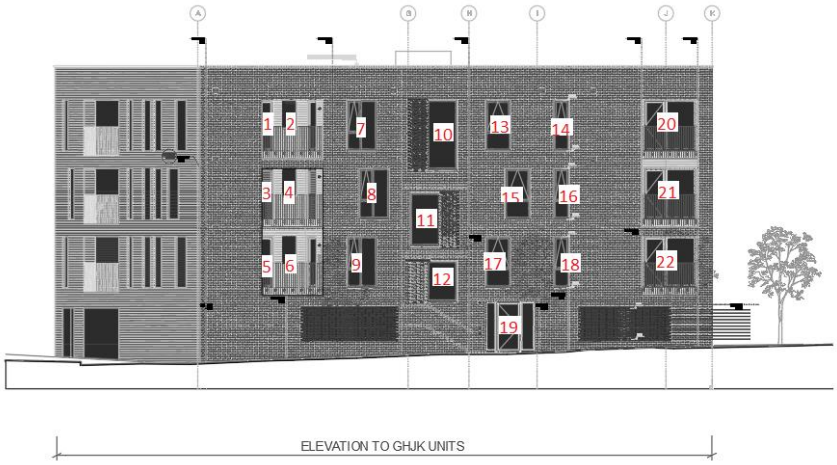
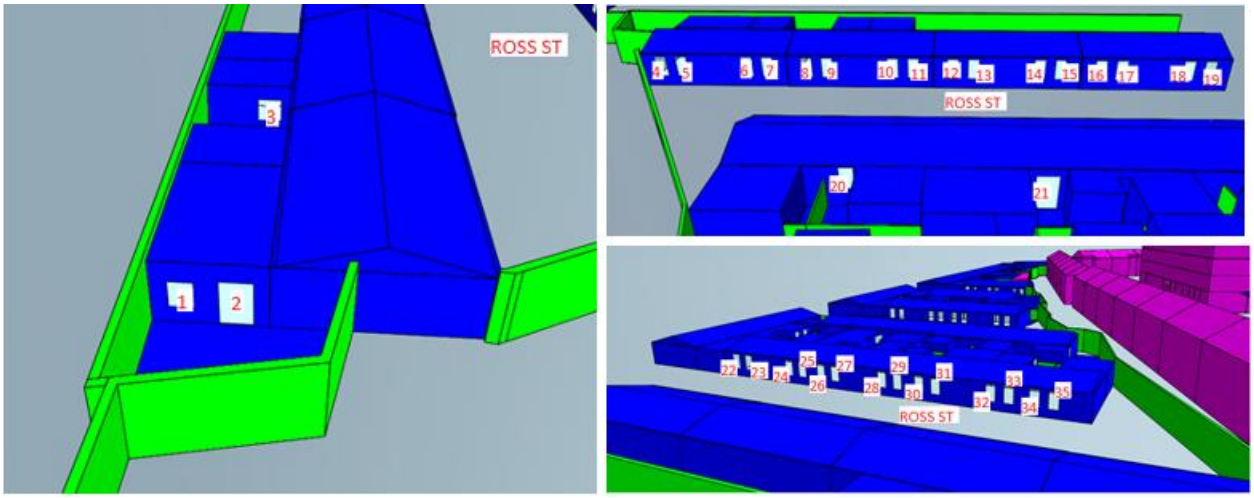


Figure 52: DCC Phase 1 - Block 2 (Southeast)

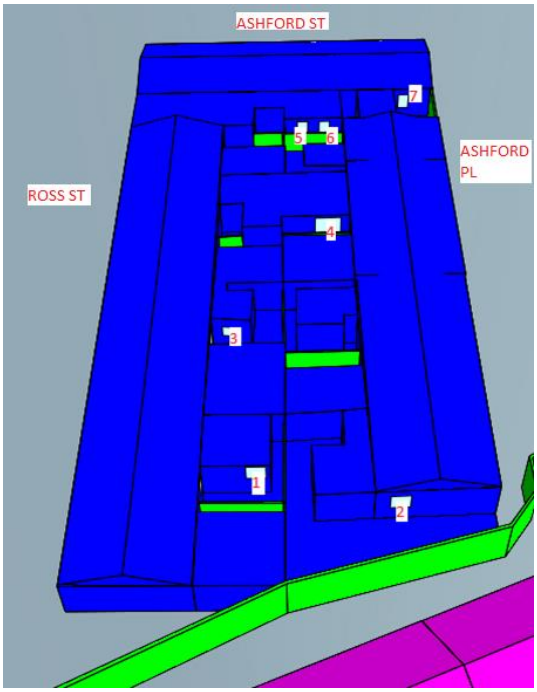
13.4.5 Ross Street

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	16.1	≥27	Below	22.8	≤20	29.2	Below
2	18.9	≥27	Below	24.8	≤20	23.8	Below
3	23.6	≥27	Below	24.2	≤20	2.4	Meets
4	25.2	≥27	Below	25.2	≤20	0.0	Meets
5	31.9	≥27	Meets	N/A	≤20	N/A	Meets
6	34.2	≥27	Meets	N/A	≤20	N/A	Meets
7	34.1	≥27	Meets	N/A	≤20	N/A	Meets
8	34.3	≥27	Meets	N/A	≤20	N/A	Meets
9	34.2	≥27	Meets	N/A	≤20	N/A	Meets
10	34.6	≥27	Meets	N/A	≤20	N/A	Meets
11	34.9	≥27	Meets	N/A	≤20	N/A	Meets
12	35.0	≥27	Meets	N/A	≤20	N/A	Meets
13	35.4	≥27	Meets	N/A	≤20	N/A	Meets
14	35.3	≥27	Meets	N/A	≤20	N/A	Meets
15	35.6	≥27	Meets	N/A	≤20	N/A	Meets
16	35.7	≥27	Meets	N/A	≤20	N/A	Meets
17	35.7	≥27	Meets	N/A	≤20	N/A	Meets
18	36.2	≥27	Meets	N/A	≤20	N/A	Meets
19	36.0	≥27	Meets	N/A	≤20	N/A	Meets
20	25.4	≥27	Below	28.2	≤20	10.0	Meets
21	18.8	≥27	Below	18.8	≤20	0.0	Meets
22	38.4	≥27	Meets	N/A	≤20	N/A	Meets
23	38.2	≥27	Meets	N/A	≤20	N/A	Meets
24	37.5	≥27	Meets	N/A	≤20	N/A	Meets
25	37.1	≥27	Meets	N/A	≤20	N/A	Meets
26	36.8	≥27	Meets	N/A	≤20	N/A	Meets
27	36.8	≥27	Meets	N/A	≤20	N/A	Meets
28	36.6	≥27	Meets	N/A	≤20	N/A	Meets
29	36.3	≥27	Meets	N/A	≤20	N/A	Meets
30	36.0	≥27	Meets	N/A	≤20	N/A	Meets
31	36.0	≥27	Meets	N/A	≤20	N/A	Meets
32	35.9	≥27	Meets	N/A	≤20	N/A	Meets
33	35.9	≥27	Meets	N/A	≤20	N/A	Meets
34	35.4	≥27	Meets	N/A	≤20	N/A	Meets



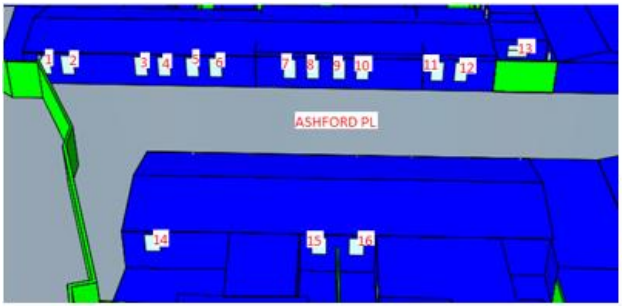
13.4.6 Ross Street, Ashford Street, Ashford Place

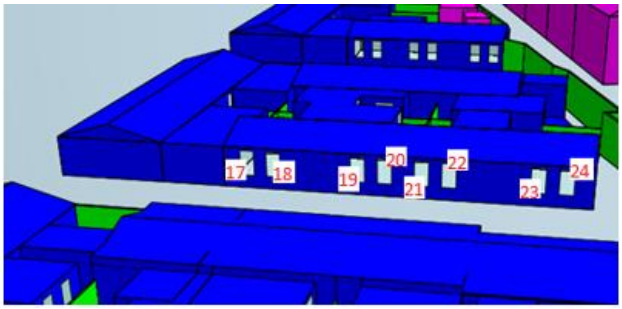
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	29.0	≥27	Meets	N/A	≤20	N/A	Meets
2	26.5	≥27	Meets	N/A	≤20	N/A	Meets
3	21.6	≥27	Below	21.8	≤20	0.7	Meets
4	18.2	≥27	Below	18.3	≤20	0.4	Meets
5	31.4	≥27	Below	31.6	≤20	0.9	Meets
6	28.2	≥27	Meets	N/A	≤20	N/A	Meets
7	22.1	≥27	Meets	N/A	≤20	N/A	Meets



13.4.7 Ashford Place

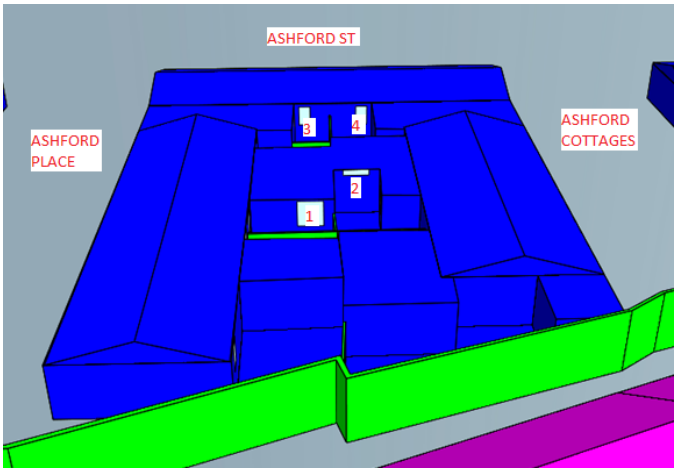
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	24.1	≥27	Below	24.2	≤20	0.6	Meets
2	29.5	≥27	Below	30.1	≤20	2.1	Meets
3	33.7	≥27	Meets	N/A	≤20	N/A	Meets
4	33.9	≥27	Meets	N/A	≤20	N/A	Meets
5	34.1	≥27	Meets	N/A	≤20	N/A	Meets
6	34.2	≥27	Meets	N/A	≤20	N/A	Meets
7	34.6	≥27	Meets	N/A	≤20	N/A	Meets
8	34.8	≥27	Meets	N/A	≤20	N/A	Meets
9	35.3	≥27	Meets	N/A	≤20	N/A	Meets
10	35.3	≥27	Meets	N/A	≤20	N/A	Meets
11	35.6	≥27	Meets	N/A	≤20	N/A	Meets
12	35.9	≥27	Meets	N/A	≤20	N/A	Meets
13	27.6	≥27	Meets	N/A	≤20	N/A	Meets
14	32.2	≥27	Meets	N/A	≤20	N/A	Meets
15	30.6	≥27	Meets	N/A	≤20	N/A	Meets
16	29.2	≥27	Meets	N/A	≤20	N/A	Meets
17	37.1	≥27	Meets	N/A	≤20	N/A	Meets
18	36.8	≥27	Meets	N/A	≤20	N/A	Meets
19	36.6	≥27	Meets	N/A	≤20	N/A	Meets
20	36.7	≥27	Meets	N/A	≤20	N/A	Meets
21	36.5	≥27	Meets	N/A	≤20	N/A	Meets
22	36.5	≥27	Meets	N/A	≤20	N/A	Meets
23	36.2	≥27	Meets	N/A	≤20	N/A	Meets
24	36.3	≥27	Meets	N/A	≤20	N/A	Meets





13.4.8 Ashford Place, Ashford Street, Ashford Cottages

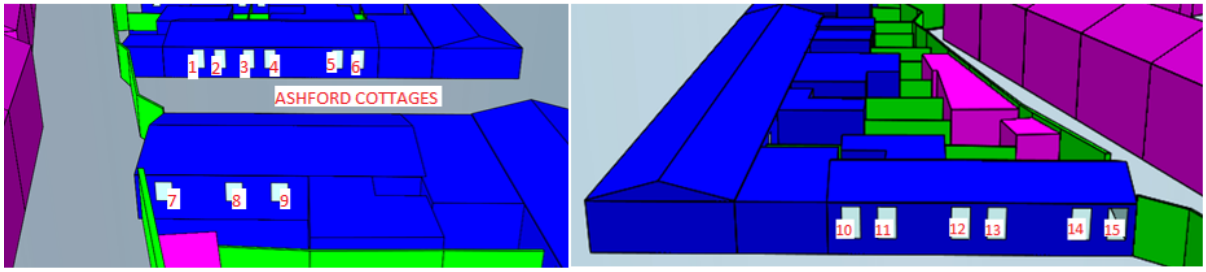
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	30.2	≥27	Meets	N/A	≤20	N/A	Meets
2	31.7	≥27	Meets	N/A	≤20	N/A	Meets
3	25.5	≥27	Below	28.2	≤20	9.7	Meets
4	26.6	≥27	Below	27.9	≤20	4.6	Meets



13.4.9 Ashford Cottages

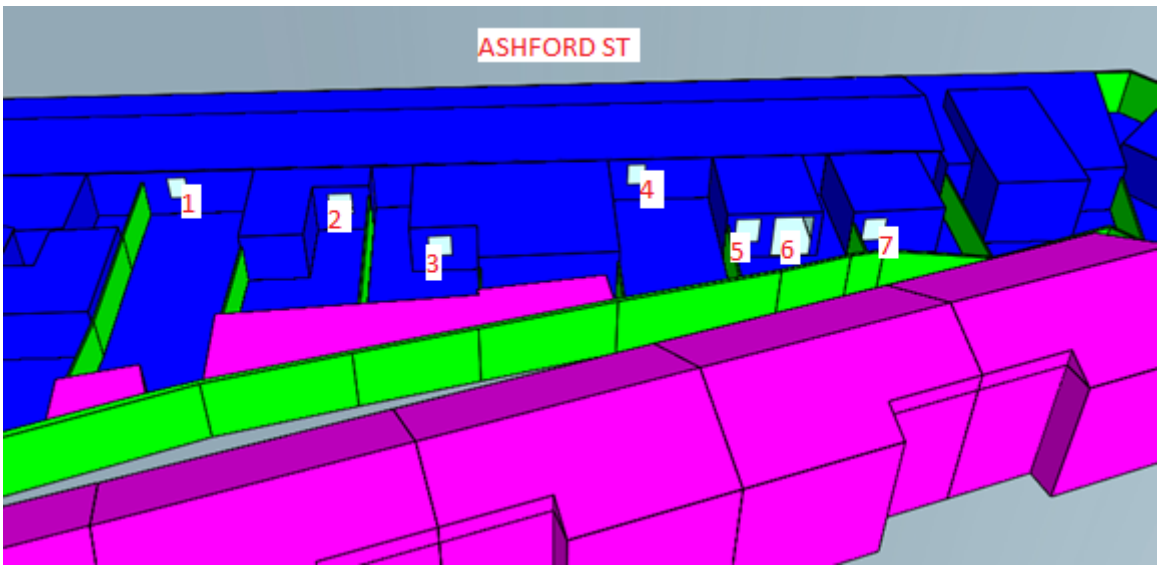
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	33.5	≥27	Meets	N/A	≤20	N/A	Meets
2	33.8	≥27	Meets	N/A	≤20	N/A	Meets
3	34.3	≥27	Meets	N/A	≤20	N/A	Meets
4	34.5	≥27	Meets	N/A	≤20	N/A	Meets
5	35.2	≥27	Meets	N/A	≤20	N/A	Meets
6	35.6	≥27	Meets	N/A	≤20	N/A	Meets
7	21.4	≥27	Below	21.4	≤20	0.0	Meets
8	32.1	≥27	Meets	N/A	≤20	N/A	Meets
9	29.3	≥27	Meets	N/A	≤20	N/A	Meets
10	36.7	≥27	Meets	N/A	≤20	N/A	Meets
11	36.7	≥27	Meets	N/A	≤20	N/A	Meets
12	36.2	≥27	Meets	N/A	≤20	N/A	Meets

13	36.0	≥27	Meets	N/A	≤20	N/A	Meets
14	36.0	≥27	Meets	N/A	≤20	N/A	Meets
15	34.2	≥27	Meets	N/A	≤20	N/A	Meets



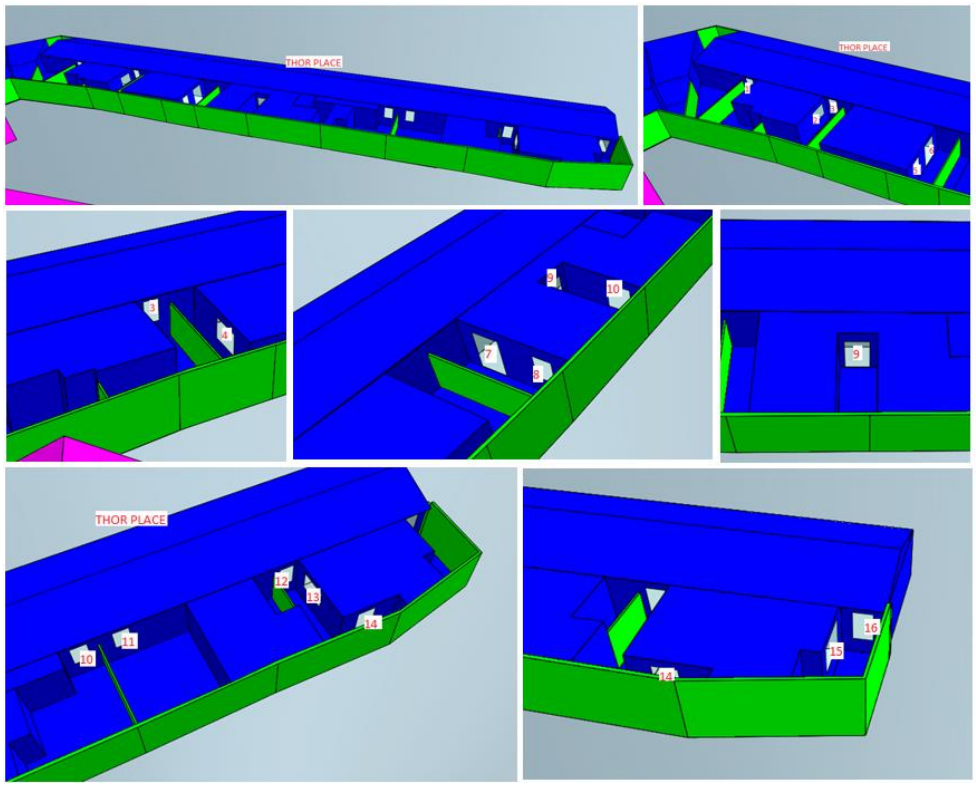
13.4.10 Ashford Street

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	30.4	≥27	Meets	N/A	≤20	N/A	Meets
2	26.1	≥27	Below	30.1	≤20	13.4	Meets
3	27.3	≥27	Meets	N/A	≤20	N/A	Meets
4	26.5	≥27	Below	30.8	≤20	14.2	Meets
5	26.2	≥27	Below	30.5	≤20	13.9	Meets
6	25.8	≥27	Below	27.7	≤20	6.8	Meets
7	24.9	≥27	Below	27.7	≤20	10.2	Meets



13.4.11 Thor Place

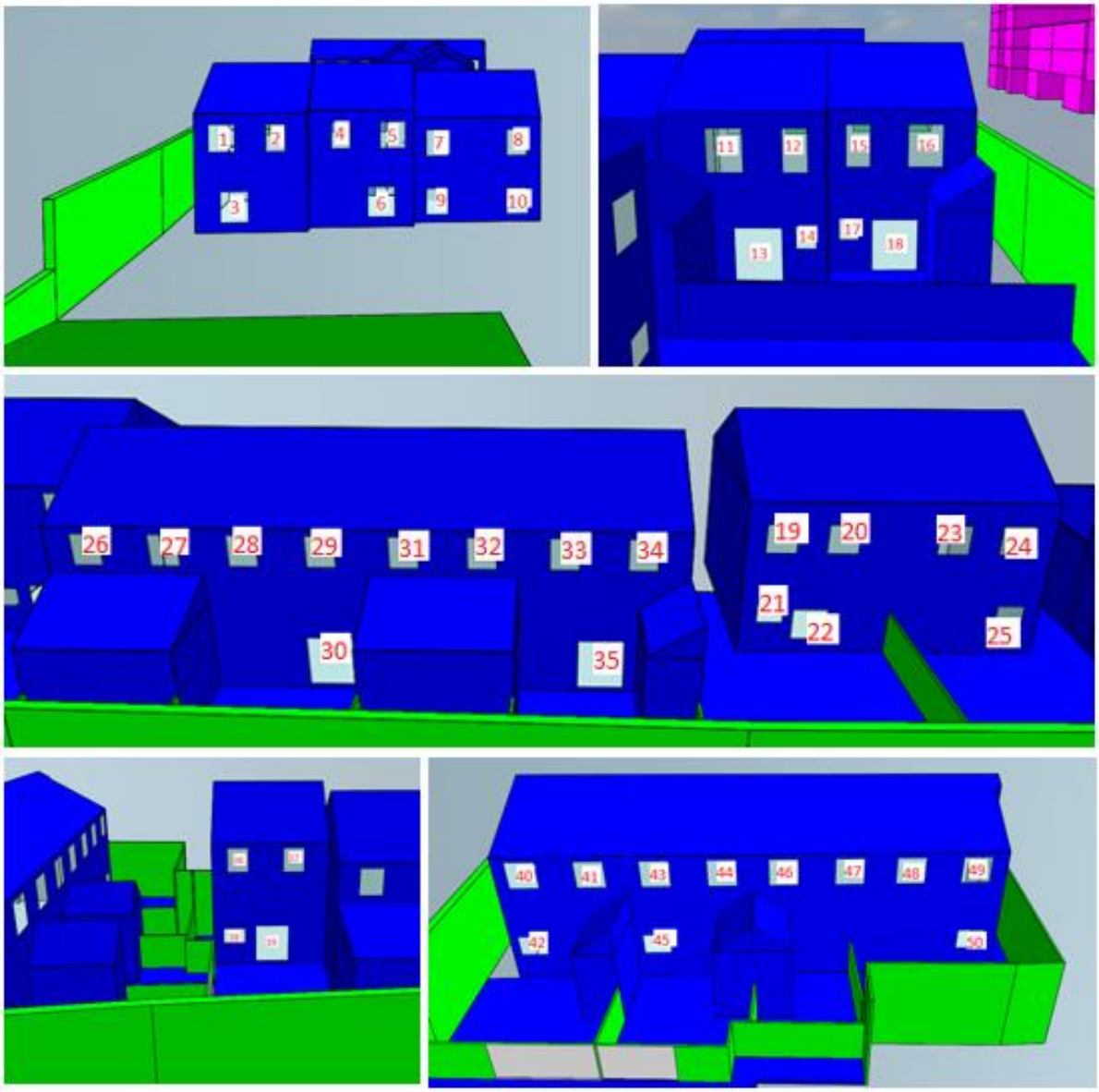
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	28.2	≥27	Meets	N/A	≤20	N/A	Meets
2	26.0	≥27	Below	27.1	≤20	4.0	Meets
3	23.8	≥27	Below	27.6	≤20	13.7	Meets
4	28.4	≥27	Meets	N/A	≤20	N/A	Meets
5	30.0	≥27	Meets	N/A	≤20	N/A	Meets
6	24.3	≥27	Below	25.2	≤20	3.8	Meets
7	22.1	≥27	Below	22.3	≤20	0.7	Meets
8	27.1	≥27	Meets	N/A	≤20	N/A	Meets
9	14.3	≥27	Below	15.4	≤20	7.4	Meets
10	16.8	≥27	Below	16.9	≤20	0.3	Meets
11	24.1	≥27	Below	31.1	≤20	22.6	Below
12	26.1	≥27	Below	33.8	≤20	22.8	Below
13	20.9	≥27	Below	24.1	≤20	13.5	Meets
14	28.1	≥27	Meets	N/A	≤20	N/A	Meets
15	8.5	≥27	Below	12.4	≤20	32.0	Below
16	19.7	≥27	Below	20.6	≤20	4.4	Meets
17	14.0	≥27	Below	17.8	≤20	21.4	Below



13.4.12 Montpelier Park

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	34.90	≥27	Meets	N/A	≤20	N/A	Meets
2	35.83	≥27	Meets	N/A	≤20	N/A	Meets
3	32.27	≥27	Meets	N/A	≤20	N/A	Meets
4	35.37	≥27	Meets	N/A	≤20	N/A	Meets
5	36.52	≥27	Meets	N/A	≤20	N/A	Meets
6	34.75	≥27	Meets	N/A	≤20	N/A	Meets
7	34.59	≥27	Meets	N/A	≤20	N/A	Meets
8	36.79	≥27	Meets	N/A	≤20	N/A	Meets
9	33.38	≥27	Meets	N/A	≤20	N/A	Meets
10	35.91	≥27	Meets	N/A	≤20	N/A	Meets
11	33.70	≥27	Meets	N/A	≤20	N/A	Meets
12	34.45	≥27	Meets	N/A	≤20	N/A	Meets
13	22.23	≥27	Below	22.52	≤20	1.29	Meets
14	26.96	≥27	Below	27.81	≤20	3.06	Meets
15	31.25	≥27	Meets	N/A	≤20	N/A	Meets
16	34.27	≥27	Meets	N/A	≤20	N/A	Meets
17	23.76	≥27	Below	24.19	≤20	1.78	Meets
18	20.93	≥27	Below	20.98	≤20	0.24	Meets
19	30.42	≥27	Meets	N/A	≤20	N/A	Meets
20	31.19	≥27	Meets	N/A	≤20	N/A	Meets
21	23.76	≥27	Below	28.35	≤20	16.19	Meets
22	24.44	≥27	Below	28.73	≤20	14.93	Meets
23	30.51	≥27	Meets	N/A	≤20	N/A	Meets
24	30.17	≥27	Meets	N/A	≤20	N/A	Meets
25	26.10	≥27	Below	31.01	≤20	15.83	Meets
26	34.70	≥27	Meets	N/A	≤20	N/A	Meets
27	34.52	≥27	Meets	N/A	≤20	N/A	Meets
28	34.34	≥27	Meets	N/A	≤20	N/A	Meets
29	34.38	≥27	Meets	N/A	≤20	N/A	Meets
30	19.91	≥27	Below	20.83	≤20	4.42	Meets
31	33.86	≥27	Meets	N/A	≤20	N/A	Meets
32	33.39	≥27	Meets	N/A	≤20	N/A	Meets
33	33.31	≥27	Meets	N/A	≤20	N/A	Meets
34	33.16	≥27	Meets	N/A	≤20	N/A	Meets
35	17.96	≥27	Meets	N/A	≤20	N/A	Meets
36	33.64	≥27	Below	36.32	≤20	7.38	Meets
37	30.04	≥27	Meets	N/A	≤20	N/A	Meets

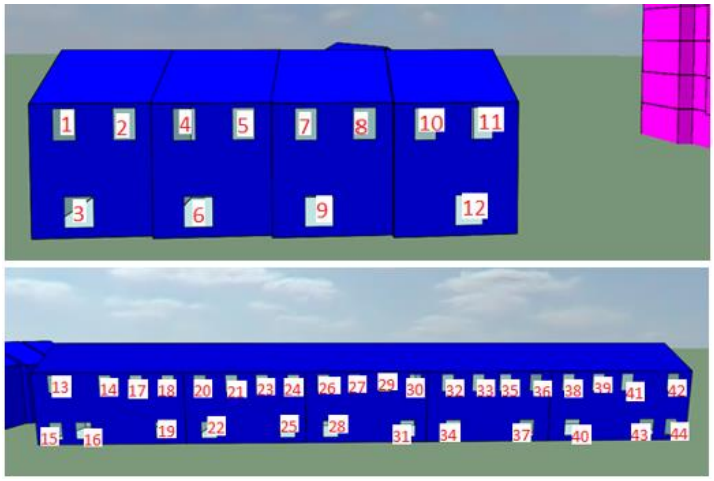
38	25.58	≥27	Meets	N/A	≤20	N/A	Meets
39	22.78	≥27	Below	22.93	≤20	0.65	Meets
40	33.93	≥27	Below	37.41	≤20	9.30	Meets
41	33.56	≥27	Meets	N/A	≤20	N/A	Meets
42	24.80	≥27	Meets	N/A	≤20	N/A	Meets
43	33.62	≥27	Below	36.6	≤20	8.14	Meets
44	32.84	≥27	Meets	N/A	≤20	N/A	Meets
45	18.18	≥27	Meets	N/A	≤20	N/A	Meets
46	32.15	≥27	Below	34.5	≤20	6.81	Meets
47	32.41	≥27	Meets	N/A	≤20	N/A	Meets
48	33.66	≥27	Meets	N/A	≤20	N/A	Meets
49	35.79	≥27	Meets	N/A	≤20	N/A	Meets
50	20.89	≥27	Meets	N/A	≤20	N/A	Meets



13.4.13 Montpelier Gardens

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	38.09	≥27	Below	39.81	≤20	4.32	Meets
2	38.09	≥27	Meets	N/A	≤20	N/A	Meets
3	37.68	≥27	Meets	N/A	≤20	N/A	Meets
4	37.23	≥27	Meets	N/A	≤20	N/A	Meets
5	37.83	≥27	Meets	N/A	≤20	N/A	Meets
6	37.00	≥27	Meets	N/A	≤20	N/A	Meets
7	36.65	≥27	Meets	N/A	≤20	N/A	Meets
8	37.26	≥27	Meets	N/A	≤20	N/A	Meets
9	36.95	≥27	Meets	N/A	≤20	N/A	Meets
10	35.92	≥27	Meets	N/A	≤20	N/A	Meets
11	36.59	≥27	Meets	N/A	≤20	N/A	Meets
12	36.32	≥27	Meets	N/A	≤20	N/A	Meets
13	34.98	≥27	Meets	N/A	≤20	N/A	Meets
14	31.00	≥27	Meets	N/A	≤20	N/A	Meets
15	31.42	≥27	Meets	N/A	≤20	N/A	Meets
16	28.78	≥27	Meets	N/A	≤20	N/A	Meets
17	29.01	≥27	Meets	N/A	≤20	N/A	Meets
18	31.55	≥27	Meets	N/A	≤20	N/A	Meets
19	32.01	≥27	Meets	N/A	≤20	N/A	Meets
20	29.73	≥27	Meets	N/A	≤20	N/A	Meets
21	32.37	≥27	Meets	N/A	≤20	N/A	Meets
22	33.04	≥27	Meets	N/A	≤20	N/A	Meets
23	30.72	≥27	Meets	N/A	≤20	N/A	Meets
24	33.77	≥27	Meets	N/A	≤20	N/A	Meets
25	34.05	≥27	Meets	N/A	≤20	N/A	Meets
26	32.60	≥27	Meets	N/A	≤20	N/A	Meets
27	34.65	≥27	Meets	N/A	≤20	N/A	Meets
28	34.91	≥27	Meets	N/A	≤20	N/A	Meets
29	33.16	≥27	Meets	N/A	≤20	N/A	Meets
30	35.38	≥27	Meets	N/A	≤20	N/A	Meets
31	35.64	≥27	Meets	N/A	≤20	N/A	Meets
32	34.34	≥27	Meets	N/A	≤20	N/A	Meets
33	36.21	≥27	Meets	N/A	≤20	N/A	Meets
34	36.53	≥27	Meets	N/A	≤20	N/A	Meets
35	35.10	≥27	Meets	N/A	≤20	N/A	Meets
36	36.62	≥27	Meets	N/A	≤20	N/A	Meets
37	36.99	≥27	Meets	N/A	≤20	N/A	Meets

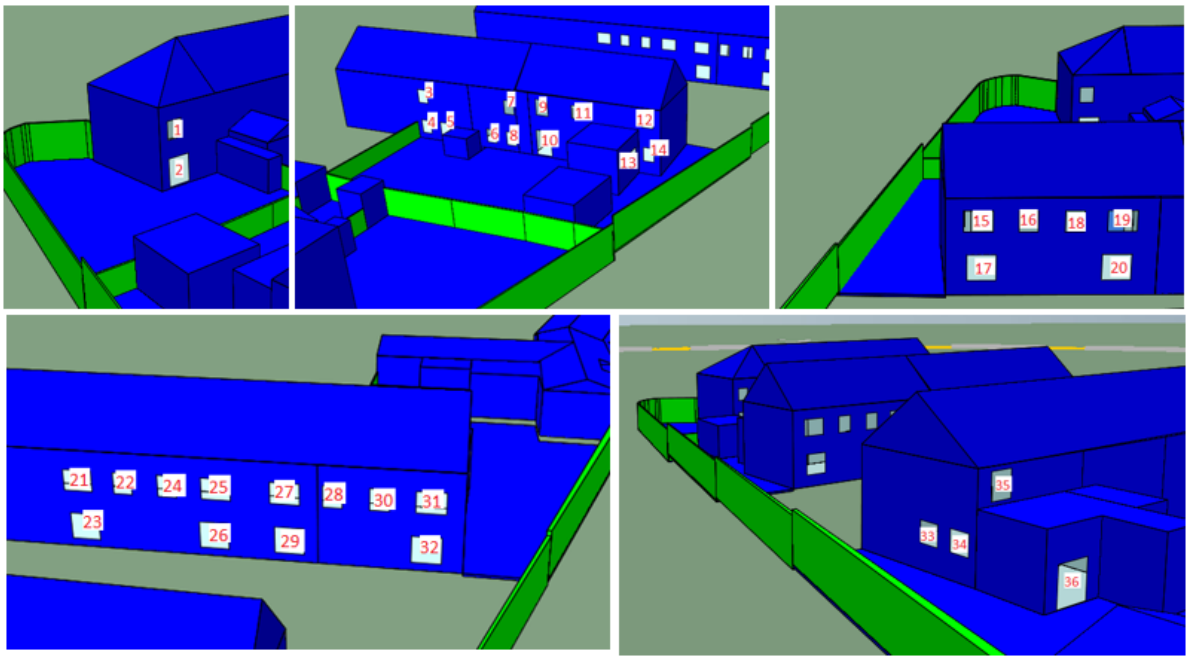
38	36.05	≥27	Meets	N/A	≤20	N/A	Meets
39	37.28	≥27	Meets	N/A	≤20	N/A	Meets
40	37.51	≥27	Meets	N/A	≤20	N/A	Meets
41	36.55	≥27	Meets	N/A	≤20	N/A	Meets
42	37.69	≥27	Meets	N/A	≤20	N/A	Meets
43	38.21	≥27	Meets	N/A	≤20	N/A	Meets
44	37.14	≥27	Meets	N/A	≤20	N/A	Meets



13.4.14 Montpelier Gardens

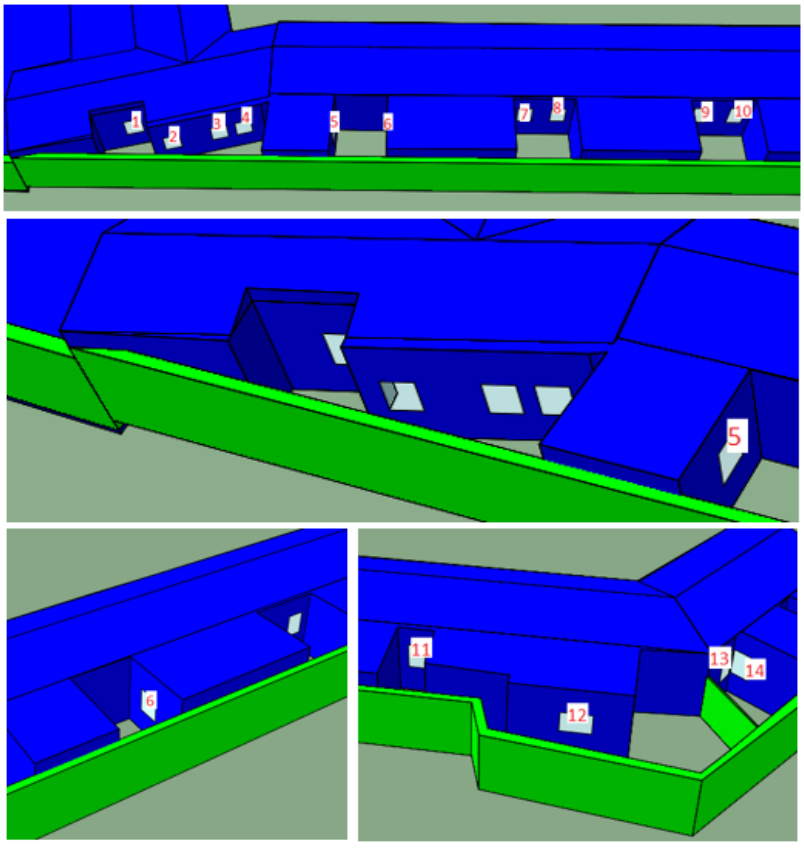
Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	34.15	≥27	Meets	N/A	≤20	N/A	Meets
2	29.35	≥27	Meets	N/A	≤20	N/A	Meets
3	35.97	≥27	Meets	N/A	≤20	N/A	Meets
4	31.22	≥27	Meets	N/A	≤20	N/A	Meets
5	31.87	≥27	Meets	N/A	≤20	N/A	Meets
6	29.06	≥27	Meets	N/A	≤20	N/A	Meets
7	35.48	≥27	Meets	N/A	≤20	N/A	Meets
8	32.19	≥27	Meets	N/A	≤20	N/A	Meets
9	35.67	≥27	Meets	N/A	≤20	N/A	Meets
10	31.96	≥27	Meets	N/A	≤20	N/A	Meets
11	35.37	≥27	Meets	N/A	≤20	N/A	Meets
12	34.39	≥27	Meets	N/A	≤20	N/A	Meets
13	18.82	≥27	Below	27.53	≤20	31.64	Below
14	19.74	≥27	Below	24.27	≤20	18.67	Meets
15	33.55	≥27	Meets	N/A	≤20	N/A	Meets
16	33.43	≥27	Meets	N/A	≤20	N/A	Meets
17	30.20	≥27	Meets	N/A	≤20	N/A	Meets

18	33.42	≥27	Meets	N/A	≤20	N/A	Meets
19	33.52	≥27	Meets	N/A	≤20	N/A	Meets
20	29.91	≥27	Meets	N/A	≤20	N/A	Meets
21	34.16	≥27	Meets	N/A	≤20	N/A	Meets
22	33.87	≥27	Meets	N/A	≤20	N/A	Meets
23	30.55	≥27	Meets	N/A	≤20	N/A	Meets
24	33.46	≥27	Meets	N/A	≤20	N/A	Meets
25	33.52	≥27	Meets	N/A	≤20	N/A	Meets
26	30.10	≥27	Meets	N/A	≤20	N/A	Meets
27	33.65	≥27	Meets	N/A	≤20	N/A	Meets
28	33.47	≥27	Meets	N/A	≤20	N/A	Meets
29	30.20	≥27	Meets	N/A	≤20	N/A	Meets
30	33.18	≥27	Meets	N/A	≤20	N/A	Meets
31	33.01	≥27	Meets	N/A	≤20	N/A	Meets
32	29.79	≥27	Meets	N/A	≤20	N/A	Meets
33	26.20	≥27	Meets	N/A	≤20	N/A	Meets
34	26.44	≥27	Below	35.69	≤20	25.92	Below
35	37.50	≥27	Below	39.04	≤20	3.94	Meets
36	26.42	≥27	Meets	N/A	≤20	N/A	Meets



13.4.15 Kinahan Street

Window Reference	Criteria A			Criteria B			Overall Status (Meets/Below BRE Light from the Sky Criteria)
	Proposed			Existing			
	Vertical Sky Component (%)	BRE VSC Target (%)	Status (Meets/Below BRE VSC Target)	Vertical Sky Component (%)	BRE Reduction Target (%)	Reduction (%)	
1	16.35	≥27	Below	20.55	≤20	20.44	Below
2	20.53	≥27	Below	21.1	≤20	2.70	Meets
3	22.35	≥27	Below	24.31	≤20	8.06	Meets
4	18.33	≥27	Below	21.2	≤20	13.54	Meets
5	21.44	≥27	Below	21.74	≤20	1.38	Meets
6	20.25	≥27	Below	20.65	≤20	1.94	Meets
7	18.52	≥27	Below	21.98	≤20	15.74	Meets
8	18.93	≥27	Below	22.42	≤20	15.57	Meets
9	19.79	≥27	Below	23.26	≤20	14.92	Meets
10	19.18	≥27	Below	23.19	≤20	17.29	Meets
11	14.39	≥27	Below	16.19	≤20	11.12	Meets
12	27.20	≥27	Below	28.73	≤20	5.33	Meets
13	17.50	≥27	Meets	N/A	≤20	N/A	Meets
14	15.47	≥27	Below	19.04	≤20	18.75	Meets



13.5 Appendix D – Detailed Results (Loss of Sunlight)

13.5.1 North Circular Road

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Image Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
1.	1	Annual	63.92	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.86	≥5	Meets	N/A	-	N/A	Meets	
	2	Annual	63.53	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.79	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	60.93	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.26	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	61.54	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.57	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	61.54	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.57	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	60.98	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.38	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	16.66	≥25	Below	20.02	≤20	16.8	Meets	Meets
		Winter	6.91	≥5	Meets	N/A	-	N/A	Meets	
	8	Annual	15.29	≥25	Below	19.36	≤20	21.0	Below	Below
		Winter	6.21	≥5	Meets	N/A	-	N/A	Meets	
	9	Annual	61.99	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	24.93	≥5	Meets	N/A	-	N/A	Meets	
	10	Annual	60.88	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	24.63	≥5	Meets	N/A	-	N/A	Meets	
	11	Annual	57.35	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	23.53	≥5	Meets	N/A	-	N/A	Meets	
	12	Annual	49.54	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	23.07	≥5	Meets	N/A	-	N/A	Meets	
	13	Annual	60.84	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	23.78	≥5	Meets	N/A	-	N/A	Meets	
	14	Annual	58.82	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	22.64	≥5	Meets	N/A	-	N/A	Meets	
	15	Annual	55.41	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.68	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Image Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
1.	16	Annual	42.45	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.34	≥5	Meets	N/A	-	N/A	Meets	
2.	17	Annual	26.27	≥25	Meets	N/A	-	N/A	Meets	Below
		Winter	3.43	≥5	Below	10.04	≤20	65.8	Below	
	18	Annual	20.45	≥25	Below	31.25	≤20	34.6	Below	Below
		Winter	1.84	≥5	Below	10.04	≤20	81.7	Below	
	19	Annual	36.67	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	13.35	≥5	Meets	N/A	-	N/A	Meets	
	20	Annual	29.58	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	9.47	≥5	Meets	N/A	-	N/A	Meets	
	21	Annual	23.57	≥25	Below	30.87	≤20	23.6	Below	Below
		Winter	7.97	≥5	Meets	N/A	-	N/A	Meets	
	22	Annual	54.56	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.86	≥5	Meets	N/A	-	N/A	Meets	
	23	Annual	51.69	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	15.44	≥5	Meets	N/A	-	N/A	Meets	
	24	Annual	48.50	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.81	≥5	Meets	N/A	-	N/A	Meets	
	25	Annual	26.35	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	9.01	≥5	Meets	N/A	-	N/A	Meets	
	26	Annual	13.39	≥25	Below	20.34	≤20	34.2	Below	Below
		Winter	2.51	≥5	Below	9.47	≤20	73.5	Below	
3.	27	Annual	56.68	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.84	≥5	Meets	N/A	-	N/A	Meets	
	28	Annual	52.99	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.65	≥5	Meets	N/A	-	N/A	Meets	
	29	Annual	56.78	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.71	≥5	Meets	N/A	-	N/A	Meets	
	30	Annual	53.19	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.31	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Image Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
3.	31	Annual	38.39	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	7.07	≥5	Meets	N/A	-	N/A	Meets	
	32	Annual	17.41	≥25	Below	26.34	≤20	33.9	Below	Below
		Winter	1.26	≥5	Below	9.49	≤20	86.7	Below	
	33	Annual	37.86	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.37	≥5	Meets	N/A	-	N/A	Meets	
	34	Annual	20.85	≥25	Below	29.66	≤20	29.7	Below	Below
		Winter	4.74	≥5	Below	13.56	≤20	65.0	Below	
	35	Annual	55.38	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	17.62	≥5	Meets	N/A	-	N/A	Meets	
	36	Annual	51.62	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.35	≥5	Meets	N/A	-	N/A	Meets	
	37	Annual	57.92	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.46	≥5	Meets	N/A	-	N/A	Meets	
	38	Annual	54.40	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.12	≥5	Meets	N/A	-	N/A	Meets	
4.	39	Annual	30.04	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	6.58	≥5	Meets	N/A	-	N/A	Meets	
	40	Annual	10.74	≥25	Below	17.79	≤20	39.6	Below	Below
		Winter	1.51	≥5	Below	8.56	≤20	82.4	Below	
	41	Annual	56.32	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.15	≥5	Meets	N/A	-	N/A	Meets	
	42	Annual	49.59	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.23	≥5	Meets	N/A	-	N/A	Meets	
	43	Annual	43.04	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	8.47	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Image Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
4.	44	Annual	29.12	≥25	Meets	N/A	-	N/A	Meets	Below
		Winter	4.25	≥5	Below	10.36	≤20	59.0	Below	
	45	Annual	47.48	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	11.27	≥5	Meets	N/A	-	N/A	Meets	
	46	Annual	59.37	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.21	≥5	Meets	N/A	-	N/A	Meets	
	47	Annual	60.70	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	21.97	≥5	Meets	N/A	-	N/A	Meets	
	48	Annual	63.29	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	24.13	≥5	Meets	N/A	-	N/A	Meets	
	49	Annual	58.48	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.32	≥5	Meets	N/A	-	N/A	Meets	
	50	Annual	65.41	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.25	≥5	Meets	N/A	-	N/A	Meets	
	51	Annual	46.97	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	13.13	≥5	Meets	N/A	-	N/A	Meets	
	52	Annual	55.51	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.35	≥5	Meets	N/A	-	N/A	Meets	

13.5.2 DCC Phase 1 – Block 2 (Southeast)

Window Reference	Criteria A				Criteria B				Overall Status (Meets/Below BRE Target)
	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Meets/Below BRE Target)	
1	Annual	37.01	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	16.37	≥5	Meets	N/A	-	N/A	Meets	
2	Annual	40.28	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	17.98	≥5	Meets	N/A	-	N/A	Meets	
3	Annual	39.85	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	18.47	≥5	Meets	N/A	-	N/A	Meets	
4	Annual	43.44	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	20.28	≥5	Meets	N/A	-	N/A	Meets	
5	Annual	44.66	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	20.28	≥5	Meets	N/A	-	N/A	Meets	
6	Annual	41.69	≥25	Meets	N/A	-	N/A	Meets	Meets

	Winter	19.34	≥5	Meets	N/A	-	N/A	Meets	
7	Annual	44.93	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	20.28	≥5	Meets	N/A	-	N/A	Meets	
8	Annual	45.12	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	20.28	≥5	Meets	N/A	-	N/A	Meets	
9	Annual	41.3	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	18.84	≥5	Meets	N/A	-	N/A	Meets	
10	Annual	39.43	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	18.19	≥5	Meets	N/A	-	N/A	Meets	
11	Annual	36.57	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	17.39	≥5	Meets	N/A	-	N/A	Meets	
12	Annual	38.16	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	18.17	≥5	Meets	N/A	-	N/A	Meets	
13	Annual	40.77	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	19.49	≥5	Meets	N/A	-	N/A	Meets	
14	Annual	39.42	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	17.53	≥5	Meets	N/A	-	N/A	Meets	
15	Annual	38.2	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	16.85	≥5	Meets	N/A	-	N/A	Meets	
16	Annual	37.79	≥25	Meets	N/A	-	N/A	Meets	Meets
	Winter	16.55	≥5	Meets	N/A	-	N/A	Meets	
17	Annual	5.41	≥25	Meets	N/A	-	N/A	Meets	Below
	Winter	4.69	≥5	Below	13.07	-	64.12	Below	
18	Annual	4.77	≥25	Below	21.65	-	77.97	Below	Below
	Winter	0.77	≥5	Below	7.30	-	89.45	Below	
19	Annual	5.84	≥25	Meets	N/A	-	N/A	Meets	Below
	Winter	0.78	≥5	Below	7.32	-	89.34	Below	
20	Annual	5.95	≥25	Meets	N/A	-	N/A	Meets	Below
	Winter	4.81	≥5	Below	13.24	-	63.67	Below	

21	Annual	4.51	≥25	Below	14.71	-	69.34	Below	Below
	Winter	3.79	≥5	Below	11.78	-	67.83	Below	
22	Annual	5.38	≥25	Meets	N/A	-	N/A	Meets	Below
	Winter	0.71	≥5	Below	7.12	-	90.03	Below	

13.5.3 Ashford Cottages

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Ross St	1	Annual	26.5	≥25	Meets	N/A	-	N/A	Meets	Below
		Winter	1.5	≥5	Below	10.3	≤20	85.9	Below	
	2	Annual	45.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.7	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	17.4	≥25	Below	30.4	≤20	42.9	Below	Below
		Winter	0.5	≥5	Below	4.9	≤20	89.8	Below	
	4	Annual	53.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.8	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	36.4	≥25	Meets	N/A	-	N/A	Meets	Below
		Winter	2.5	≥5	Below	10.3	≤20	75.6	Below	
	6	Annual	54.0	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.4	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	37.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	6.8	≥5	Meets	N/A	-	N/A	Meets	
	8	Annual	54.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.4	≥5	Meets	N/A	-	N/A	Meets	

	9	Annual	54.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.5	≥5	Meets	N/A	-	N/A	Meets	
	10	Annual	56.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.7	≥5	Meets	N/A	-	N/A	Meets	
	11	Annual	46.3	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	7.8	≥5	Meets	N/A	-	N/A	Meets	
	12	Annual	58.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.6	≥5	Meets	N/A	-	N/A	Meets	
	13	Annual	57.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.8	≥5	Meets	N/A	-	N/A	Meets	
	14	Annual	58.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.7	≥5	Meets	N/A	-	N/A	Meets	
	15	Annual	54.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.5	≥5	Meets	N/A	-	N/A	Meets	
	16	Annual	60.0	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.4	≥5	Meets	N/A	-	N/A	Meets	
	17	Annual	59.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.7	≥5	Meets	N/A	-	N/A	Meets	
	18	Annual	60.8	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	22.0	≥5	Meets	N/A	-	N/A	Meets	
	19	Annual	57.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.5	≥5	Meets	N/A	-	N/A	Meets	
	20	Annual	39.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.2	≥5	Meets	N/A	-	N/A	Meets	
	21	Annual	24.7	≥25	Below	25.1	≤20	1.6	Meets	Meets
		Winter	5.1	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Ross St, Ash St, Ash Pl	1	Annual	22.5	≥25	Below	56.4	≤20	60.1	Below	Below
		Winter	2.9	≥5	Below	22.0	≤20	86.9	Below	
	2	Annual	42.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	8.3	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	34.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	9.1	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	1.0	≥25	Below	22.9	≤20	95.8	Below	Below
		Winter	0.0	≥5	Below	3.3	≤20	100.0	Below	
	5	Annual	39.3	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	7.1	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	37.6	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	7.5	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	33.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	8.8	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Ashford Place	1	Annual	37.3	≥25	Meets	N/A	-	N/A	Meets	Below
		Winter	2.6	≥5	Below	4.6	≤20	44.5	Below	
	2	Annual	43.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	5.8	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	51.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	13.1	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	51.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.8	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	51.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	13.3	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	52.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	13.9	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	55.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.9	≥5	Meets	N/A	-	N/A	Meets	
	8	Annual	55.8	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.3	≥5	Meets	N/A	-	N/A	Meets	
	9	Annual	55.8	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.4	≥5	Meets	N/A	-	N/A	Meets	
	10	Annual	55.7	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.4	≥5	Meets	N/A	-	N/A	Meets	
	11	Annual	57.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.7	≥5	Meets	N/A	-	N/A	Meets	
	12	Annual	58.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.1	≥5	Meets	N/A	-	N/A	Meets	
	13	Annual	45.3	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	10.8	≥5	Meets	N/A	-	N/A	Meets	
	14	Annual	46.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.0	≥5	Meets	N/A	-	N/A	Meets	
	15	Annual	42.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	9.5	≥5	Meets	N/A	-	N/A	Meets	
	16	Annual	44.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.1	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Ashford Pl, Ashford St, Ashford Cottages	1	Annual	51.7	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.8	≥5	Meets	N/A	-	N/A	Meets	
	2	Annual	16.7	≥25	Below	63.3	≤20	73.6	Below	Below
		Winter	1.3	≥5	Below	27.3	≤20	95.3	Below	
	3	Annual	50.7	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.1	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	43.6	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.5	≥5	Meets	N/A	-	N/A	Meets	
Ashford Cottages	1	Annual	51.3	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.8	≥5	Meets	N/A	-	N/A	Meets	
	2	Annual	52.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.1	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	55.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.6	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	51.9	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	13.5	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	56.2	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.3	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	46.5	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.8	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	27.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	1.0	≥5	Below	1.0	≤20	1.0	Meets	
	8	Annual	46.0	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	11.3	≥5	Meets	N/A	-	N/A	Meets	
	9	Annual	41.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.2	≥5	Meets	N/A	-	N/A	Meets	

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Ashford St	1	Annual	47.8	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	14.7	≥5	Meets	N/A	-	N/A	Meets	
	2	Annual	39.0	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	11.4	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	40.8	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	5.8	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	39.7	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	12.5	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	42.6	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	10.9	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	40.0	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	7.4	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	41.9	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	11.0	≥5	Meets	N/A	-	N/A	Meets	
Thor Place	2	Annual	59.7	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.1	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	39.4	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	8.5	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	42.1	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	10.4	≥5	Meets	N/A	-	N/A	Meets	
	15	Annual	34.6	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	2.5	≥5	Below	2.6	≤20	3.8	Meets	

13.5.4 Montpelier Park

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Montpelier Park	1	Annual	50.39	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.61	≥5	Meets	N/A	-	N/A	Meets	
	2	Annual	51.75	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.98	≥5	Meets	N/A	-	N/A	Meets	
	3	Annual	49.10	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.57	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	52.45	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.68	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	51.75	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.98	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	50.32	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	20.88	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	51.75	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.98	≥5	Meets	N/A	-	N/A	Meets	
	8	Annual	51.75	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.68	≥5	Meets	N/A	-	N/A	Meets	
	9	Annual	50.41	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	20.98	≥5	Meets	N/A	-	N/A	Meets	
	10	Annual	50.41	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.68	≥5	Meets	N/A	-	N/A	Meets	
	40	Annual	47.84	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.17	≥5	Meets	N/A	-	N/A	Meets	
	41	Annual	46.64	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	17.97	≥5	Meets	N/A	-	N/A	Meets	
	42	Annual	30.83	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	5.62	≥5	Meets	N/A	-	N/A	Meets	
	43	Annual	44.79	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.12	≥5	Meets	N/A	-	N/A	Meets	
	44	Annual	44.12	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.45	≥5	Meets	N/A	-	N/A	Meets	
	45	Annual	26.74	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	2.33	≥5	Below	2.33	≤20	0	Meets	
	46	Annual	43.60	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.36	≥5	Meets	N/A	-	N/A	Meets	
	47	Annual	44.85	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.33	≥5	Meets	N/A	-	N/A	Meets	
	48	Annual	48.12	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.50	≥5	Meets	N/A	-	N/A	Meets	
	49	Annual	51.46	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	23.23	≥5	Meets	N/A	-	N/A	Meets	
	50	Annual	20.59	≥25	Below	20.59	≤20	0.0	Meets	Meets
		Winter	0.63	≥5	Below	0.63	≤20	0	Meets	

13.5.5 Montpelier Gardens

General Information		Criteria A				Criteria B				Overall Status (Above/Below BRE Target)
Site Reference	Window Reference	Period	Proposed (%)	BRE Target (%)	Status (Meets/Below BRE Target)	Existing (%)	BRE Reduction Target (%)	Reduction (%)	Status (Above/Below BRE Target)	
Montpelier Gardens	3	Annual	66.56	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	30.20	≥5	Meets	N/A	-	N/A	Meets	
	4	Annual	51.40	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	16.65	≥5	Meets	N/A	-	N/A	Meets	
	5	Annual	55.49	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	22.25	≥5	Meets	N/A	-	N/A	Meets	
	6	Annual	50.00	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	15.64	≥5	Meets	N/A	-	N/A	Meets	
	7	Annual	66.76	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	31.09	≥5	Meets	N/A	-	N/A	Meets	
	8	Annual	56.25	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.63	≥5	Meets	N/A	-	N/A	Meets	
	9	Annual	67.69	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	31.33	≥5	Meets	N/A	-	N/A	Meets	
	10	Annual	52.18	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.21	≥5	Meets	N/A	-	N/A	Meets	
	11	Annual	67.10	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	30.90	≥5	Meets	N/A	-	N/A	Meets	
	12	Annual	64.73	≥25	Meets	N/A	-	N/A	Meets	Meets

		Winter	30.07	≥5	Meets	N/A	-	N/A	Meets	
	13	Annual	16.06	≥25	Below	29.42	-	45.41	Below	Below
		Winter	2.71	≥5	Below	7.25	-	62.62	Below	
	14	Annual	24.53	≥25	Below	36.04	-	31.94	Below	Below
		Winter	5.73	≥5	Meets	N/A	-	N/A	Meets	
	21	Annual	64.07	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	27.01	≥5	Meets	N/A	-	N/A	Meets	
	22	Annual	63.64	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.71	≥5	Meets	N/A	-	N/A	Meets	
	23	Annual	54.74	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.55	≥5	Meets	N/A	-	N/A	Meets	
	24	Annual	63.01	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.58	≥5	Meets	N/A	-	N/A	Meets	
	25	Annual	62.74	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	26.93	≥5	Meets	N/A	-	N/A	Meets	
	26	Annual	52.54	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	18.81	≥5	Meets	N/A	-	N/A	Meets	
	27	Annual	61.73	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	27.02	≥5	Meets	N/A	-	N/A	Meets	
	28	Annual	61.31	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	27.43	≥5	Meets	N/A	-	N/A	Meets	
	29	Annual	52.32	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	19.59	≥5	Meets	N/A	-	N/A	Meets	
	30	Annual	62.89	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	28.69	≥5	Meets	N/A	-	N/A	Meets	
	31	Annual	62.65	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	29.63	≥5	Meets	N/A	-	N/A	Meets	
	32	Annual	51.80	≥25	Meets	N/A	-	N/A	Meets	Meets
		Winter	21.07	≥5	Meets	N/A	-	N/A	Meets	