

Large-Scale Residential Development Greenfields Swords

Daylight and Sunlight Assessment Report
Applicant: Jackie Greene Construction Limited

"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." - BRE 209

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The following report has been prepared by 3D Design Bureau (3DDB). 3DDB have over eight years experience in producing daylight and sunlight assessments for large scale planning applications and are recognised as experts in the field. This report has been reviewed and overseen by Nicholas Polley and Richard Dalton. Nicholas is CEO of 3D Design Bureau and is a qualified Building Services Engineer (B.Sc.(Eng) Dip Eng) with over 25 years experience in the industry. Richard is Associate Director of 3DDB and has a bachelor's degree in Building Information Modelling (BIM) with over 20 years experience in the industry.

1.0 Executive Summary

1.1 Summary of Assessment

3D Design Bureau (3DDB) were commissioned to carry out a comprehensive daylight and sunlight assessment, along with an accompanying shadow study for the proposed Large-Scale Residential Development at Greenfields, Swords, Co. Dublin.

The proposed mixed-use scheme comprises 289 residential apartments across five blocks (Blocks A, B, C, D and E), ranging in height from 6 to 9 storeys. The development also incorporates a retail/commercial unit and a creche. The proposed development includes a range of supporting infrastructure and amenity provisions, including car and cycle parking, internal roads and pedestrian routes, roof gardens, public and communal open spaces. The proposed site is surrounded by predominantly commercial and industrial developments, including associated parking areas, and benefits from good separation distances to neighbouring buildings.

Assessments have been broken down into the following two main categories, 'Impact Assessment' and 'Scheme Performance', of which there are subcategories as summarised below:

Explanations of key terms and the relevant daylight and sunlight assessment standards are included in sections E.0 & F.0 at the end of this report.

Impact Assessment

Following advice within section 2.2 of the BRE Guidelines (BRE 209 - 2022), the surrounding context was carefully considered to ensure all properties and amenity spaces that may potentially experience a level of effect were included in the study. A more detailed explanation of the criterion applied can be found in section "2.1 Impact Assessment, Window Selection Criteria" on page 9.

The impact assessment that was carried out for the purpose of this report is in accordance with the BRE Guidelines. The potential levels of effect that the proposed development would have on the surrounding existing environment and/or properties have been assessed in the 'baseline state' versus the 'proposed state'. For definitions of the model states, including visual representations, please refer to section "2.2 Preparing the analytical model" on page 11.

The assessed properties, indicated in Figure 1.1 below, include:

- Unit 1, Swords Business Park (1)
- Unit 9, Swords Business Park (2)
- Unit J10, Swords Business Park (3)

The impact assessment, in accordance with the BRE Guidelines, covered the following metrics:

- **Vertical Sky Component (VSC):** Assessment of the potential effect on daylight to the windows of the properties listed above.
- **Annual and Winter Probable Sunlight Hours (APSH/WPSH):** Assessment of the potential effect on sunlight to windows oriented within 90° of due south. As all assessed windows are located within 90° of due south, they fall within the scope of the APSH/WPSH assessment and have therefore been included in the analysis.
- **Sun on Ground (SOG):** As the surrounding area is predominantly comprises of commercial and industrial buildings with no associated amenity spaces, no quantitative Sunlight on Ground (SOG) assessment was undertaken.

The results of the impact assessments can be found in section A.0 on page 32. These results are summarised in section 1.3 and explained in section "3.1 Analysis of Impact Assessment Results" on page 20.



Figure 1.1: Scope of surrounding properties and environment assessed.

Scheme Performance

- **Spatial Daylight Autonomy (SDA):** Assessment of daylight provision within the habitable rooms of the proposed apartment Blocks A, B, C, D and E. While creche classrooms, sleeping area and office were also assessed, their results are not included in the compliance rates.
- **Sunlight Exposure (SE):** Assessment of sunlight exposure within the same habitable rooms. Compliance is evaluated on a unit-by-unit basis, with a unit considered compliant where at least one habitable room receives a minimum of 1.5 hours of direct sunlight.
- **Sun on Ground (SOG):** Assessment of sunlight availability across the proposed external amenity spaces on March 21st. This date corresponds to the spring equinox, when day and night are of approximately equal duration, and is commonly used as a representative assessment date.

The results of these scheme performance assessments, which are in accordance with the BRE Guidelines, can be found in section C.0 on page 52. These results are summarised in section 1.4 and explained in section “3.2 Analysis of Scheme Performance Results” on page 21.

Supplementary scheme performance studies have also been carried out. These include an SDA assessment under the



Figure 1.2: Model View of the proposed development.

I.S. EN 17037 criterion, and a No Sky Line (NSL) study within proposed habitable rooms. The results of the supplementary scheme performance assessments can be found in section D.0 on page 120.

Qualitative Assessment

In addition to the quantitative assessments detailed in the ‘Impact Assessment’ and ‘Scheme Performance’ sections, a qualitative assessment has been undertaken to provide further understanding of the variation in sunlight across the surrounding environment. This includes:

- **Shadow Study:** Hourly renderings illustrating shadow movement and extent of shadow on three key dates: the spring equinox (March 21st), summer solstice (June 21st), and winter solstice (December 21st) (section B.0 on page 43).

The false colour plans produced as part of the Sun on Ground (SOG) assessment (section C.4 on page 118) also provide a qualitative indication of sunlight distribution across the amenity areas.

1.2 Architect's Design Rationale Statement

This report follows a collaborative and iterative consultation process during which 3D Design Bureau provided daylight and sunlight feedback to the design team. The form of the proposed scheme reflects the design team's reconciliation of these daylight findings with competing site constraints, acoustic challenges, and public realm objectives. The design rationale statement below, as provided by the project architect, MCORM Architecture, outlines the specific design priorities that shaped the final layout.

"As part of the preparation for this planning application (Greenfields Swords LRD), 3D Design Bureau worked closely with the design team, including the project architects, MCORM Architecture and Urban Design. Multiple rounds of daylight and sunlight analysis were conducted throughout the design development phase, which informed the final form and massing of the proposed development.

MCORM Architecture and Urban Design have prepared an Architectural and Urban Design Statement as a key part of the application, setting out the key principles that have guided the scheme, demonstrating how the final form was shaped by a collaborative process among multiple consultants aimed at balancing urban design objectives with the provision of high residential amenity.

The layout of the proposed development has evolved in response to the following factors:

The existing features and constraints of the site, in particular the location and distribution of the existing mature trees along its western edge and services wayleave on the eastern side. In addition, the introduction of a new pumping station within the eastern part of the site brings its own technical requirements and constraints in terms of offsets from built structures.

The distribution of the blocks is cognisant of the acoustic environment, and these are arranged to define courtyards that are protected from the ambient acoustic environment fostering calm, communal areas.

The scheme seeks to create a new context for a prominent location within the Metro Economic zoned lands adjoining Swords town centre and the opportunities created by the approval of the MetroLink line connecting the area to Dublin city and airport. The scheme will be visible from the adjoining M1 motorway and will be a gateway marker for the entrance to both Swords and the greater Dublin urban area from the north.

The proposed scheme comprises an assembly of 5 distinct blocks, three of which form a rigorous composition of repeating elements across the northern portion of the site, Blocks A, B and C, each 6 and 7 storeys in height; the southern portion of the site consists of two L-shaped blocks (D and E) in a composition with each other of varying height (each 6-9 storeys) linked by a single storey commercial plinth that provides protective enclosure to a central open space.

Blocks A, B and C are arranged on a north-south axis to optimise daylight and sunlight access, which is enhanced by the separation between Blocks D and E to the south allowing natural light into the central open space.

The key design considerations include:

- *A new strong urban edge along Mantua Road that respects and retains the existing tree clusters to the south west.*
- *Courtyards arranged between the blocks with quality hard and soft landscaping providing a high degree of passive supervision and amenity for the residents.*
- *North-south building orientation to improve daylight penetration to communal open spaces.*
- *Pedestrian permeability between the blocks in the form of a spine route that runs beneath the buildings overhead at ground level.*
- *Tree retention along the western edge of the scheme providing a soft buffer.*
- *Connections to the new active travel route along Mantua Road connecting the Broadmeadow estuary to Swords town centre.*

In terms of site layout:

- *The scale of Blocks D and E to the south rise in scale to 9 storeys to act as local landmarks.*
- *The break between these blocks and reduction in scale allows for daylight penetration into the centre of the scheme while the one-storey connecting block provides for acoustic protection.*
- *Pedestrian routes within the scheme running through landscape courtyards protected from the elements by a glazed trellis and entrances within the double height undercroft areas of blocks A, B and C.*
- *The principal communal open spaces consist of the 2 courtyards between blocks A, B and C.*
- *Both the creche and commercial uses are arranged at the western entrance to the development so that internal private amenity of the layout is not disturbed.*
- *Communal roof terraces to blocks D and E that take advantage of the daylight and sunlight as well as the views to the coastal areas.*

The layout ensures that public and communal open spaces receive high levels of natural light throughout the day, as demonstrated in 3D Design Bureau's Daylight and Sunlight Assessment, thereby supporting their usability and comfort.

We believe the proposed scheme will positively contribute to the local area, supporting the ongoing regeneration and evolution of the area as it transitions from a former industrial estate into a genuine mixed-use neighbourhood adjacent to Swords town centre and Metrolink corridor, delivering a vibrant and inclusive living environment for both residents and visitors.

Further detail on the design approach, materiality, and layout is available within the Architectural and Urban Design Statement and accompanying drawings prepared by MCORM Architecture and Urban Design."

1.3 Impact Assessment Results Overview - Neighbouring Properties:

The levels of effect in the tables below describe the effect the proposed development would have, based on its compliance with the various BRE Target Values. A full list of definitions and a numerical rationale for each can be found in the section “Definition of Effects” on page 170 of this report.

Effect to Daylight - Vertical Sky Component (VSC):

Effect to Vertical Sky Component (VSC)	
Assessed Windows/Rooms Total	17
Compliance Total	16
Categorisation of Effects	
Beneficial Impact*	0
Negligible	16
Minor Adverse	1
Moderate Adverse	0
Major Adverse	0
n.a.**	0

Effect to Sunlight - Annual Probable Sunlight Hours (APSH): ‡

Effect to Annual Probable Sunlight Hours (APSH)	
Assessed Windows/Rooms Total	17
Compliance Total	17
Categorisation of Effects	
Beneficial Impact*	0
Negligible	17
Minor Adverse	0
Moderate Adverse	0
Major Adverse	0
n.a.**	0

Effect to Sunlight - Winter Probable Sunlight Hours (WPSH): ‡

Effect to Winter Probable Sunlight Hours (WPSH)	
Assessed Windows/Rooms Total	17
Compliance Total	17
Categorisation of Effects	
Beneficial Impact*	0
Negligible	17
Minor Adverse	0
Moderate Adverse	0
Major Adverse	0
n.a.**	0

* ‘Beneficial Impact’ will only be stated if the ratio of change is greater than 1.20 (an improvement of 20%). Should less perceptible improvements occur a ‘Negligible’ level of effect will be stated.

**In instances where a baseline value is particularly low, levels of effects can appear exaggerated. To mitigate such occurrences, if the baseline value in the VSC, APSH/WPSH or SOG studies is below 1%, 3DDB have categorised the level of effect as n.a. (not applicable).

‡ APSH/WPSH Note: as per the recommendations made in section 3.2.3 of the BRE Guidelines, only windows/rooms with an orientation within 90° of due south need to be included in the APSH/WPSH impact assessment.

1.4 Scheme Performance Results Overview:

Spatial Daylight Autonomy (SDA):

Spatial Daylight Autonomy (SDA) BRE 209 Criteria	
Unit Count	289
Rooms Assessed	836
Without Trees	
Compliant	778
Non-compliant	58
Compliance Rate*	c. 93%
With Trees (Proposed and Existing Trees)	
Compliant	760
Non-compliant	76
Compliance Rate*	c. 91%

Note: It is the expert opinion of 3DDB that the appropriate criteria for SDA assessments are that of the BRE Guidelines (BRE 209)

* Compliance rates stated for the SDA analysis are based on the rooms that have been assessed within the apartment blocks A, B, C, D and E of the proposed development. Compensatory design solutions have been provided by the project architects for units which contain non-compliant rooms.

Sunlight Exposure (SE):

Sunlight Exposure (SE)	
Units Assessed	289
SE without deciduous trees	
Non-Compliant	39
Minimum	51
Medium	62
High	137
Compliance Rate*	c. 87%
SE with all trees	
Non-Compliant	39
Minimum	55
Medium	64
High	131
Compliance Rate*	c. 87%

For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.

* Compliance rates stated for the SE analysis are based on the units that have been assessed.

Sun On Ground (SOG) in proposed gardens / amenity areas:

Sun On Ground (SOG)	
Areas Assessed	7
Areas meeting the guidelines	7
Areas not meeting the guidelines	0

1.5 Supplementary Assessment Results Overview

Spatial Daylight Autonomy (SDA) under I.S. EN 17037 Criterion:

Spatial Daylight Autonomy (SDA) under I.S. EN 17037 Criterion	
Unit Count	289
Rooms Assessed	836
Without Trees	
Compliant	586
Non-compliant	250
Compliance Rate*	c. 70%
With Trees (Proposed and Existing Trees)	
Compliant	557
Non-compliant	279
Compliance Rate*	c. 67%

Note: The study under the I.S. EN 17037 criterion should be considered a supplementary assessment. It is the expert opinion of 3DDB that the appropriate criteria are that of the BRE Guidelines (BRE 209)

* Compliance rates stated for the SDA analysis are based on the rooms that have been assessed within the apartment blocks A, B, C, D and E of the proposed development. In cases where rooms comply with the criteria of BRE 209 but do not meet the criteria of I.S. EN 17037, it is the recommendation of 3D Design Bureau that these rooms will be adequately daylit. This recommendation is based on the fact that BRE 209 provides room-specific criteria, unlike I.S. EN 17037. BRE 209 considers the varying daylight requirements for different room types, which I.S. EN 17037 does not account for.

No Sky Line (NSL):

No Sky Line (NSL):	
Unit Count	289
Rooms Assessed	836
Yes	698
No	138
Compliance Rate*	c. 83%

Note: As the BRE Guidelines do not provide a recommended minimum for NSL in proposed developments, compliance rates for NSL are calculated using a criteria applied by 3DDB.

* Compliance rates stated for the NSL analysis are based on the rooms that have been assessed within the apartment blocks A, B, C, D and E of the proposed development.

2.0 Methodology

2.1 Impact Assessment, Window Selection Criteria

To determine the properties to be included in the impact assessment, the decision chart taken from Figure 20 of the BRE Guidelines has been followed, as shown in Figure 2.1 below.

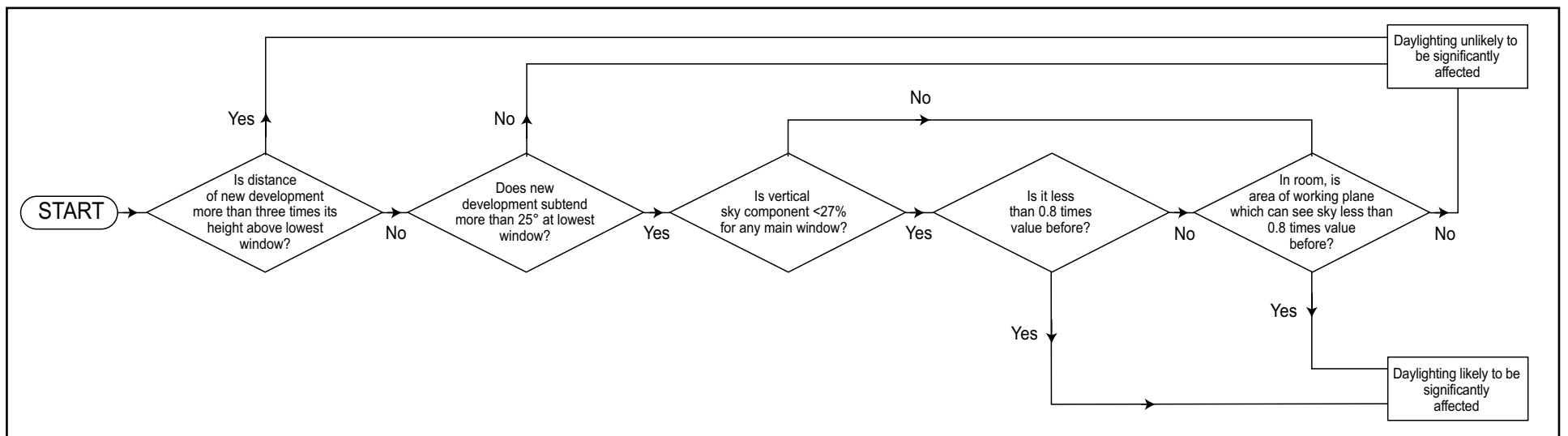


Figure 2.1: VSC decision chart, replicated from section 2.2 of the BRE Guidelines.



Figure 2.2: Properties within three times the height of the proposed development

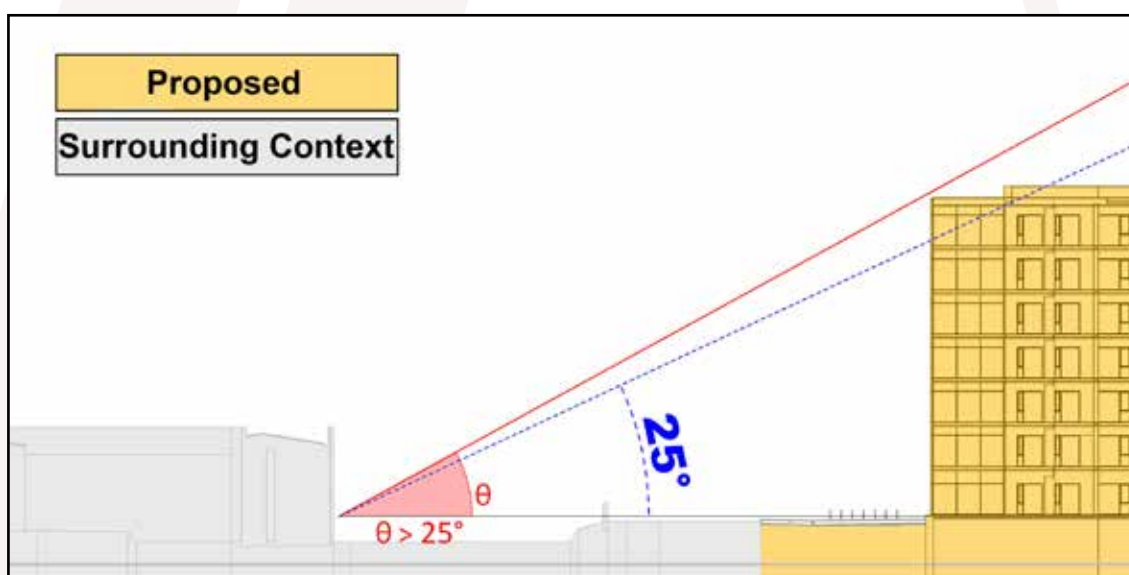


Figure 2.3: Section A-A taken through Unit J10, Swords Business Park, Swords

Accordingly, all properties within a distance of three times the height of the proposed development, as illustrated in Figure 2.2, have been considered for impact assessment.

Following application of the BRE decision chart, only windows satisfying the relevant BRE screening criteria were taken forward for detailed assessment. This includes windows at Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3).

As per the recommendation made in section 2.2.5 of the BRE Guidelines, a perpendicular section has been drawn from the main window wall of the potentially affected properties to determine if the proposed development subtends an angle of more than 25° at the lowest window.

If the proposed development subtends an angle of 25° or more in this section, then a VSC assessment should be conducted. Figure 2.3 shows a perpendicular section taken through Unit J10, Swords Business Park (3), which provides an example of where the proposed development subtends an angle of 25° when measured in a perpendicular section through an existing window.

However, if the proposed development does not subtend 25° in a perpendicular section, daylight is unlikely to be significantly affected and no further assessment will be carried out.

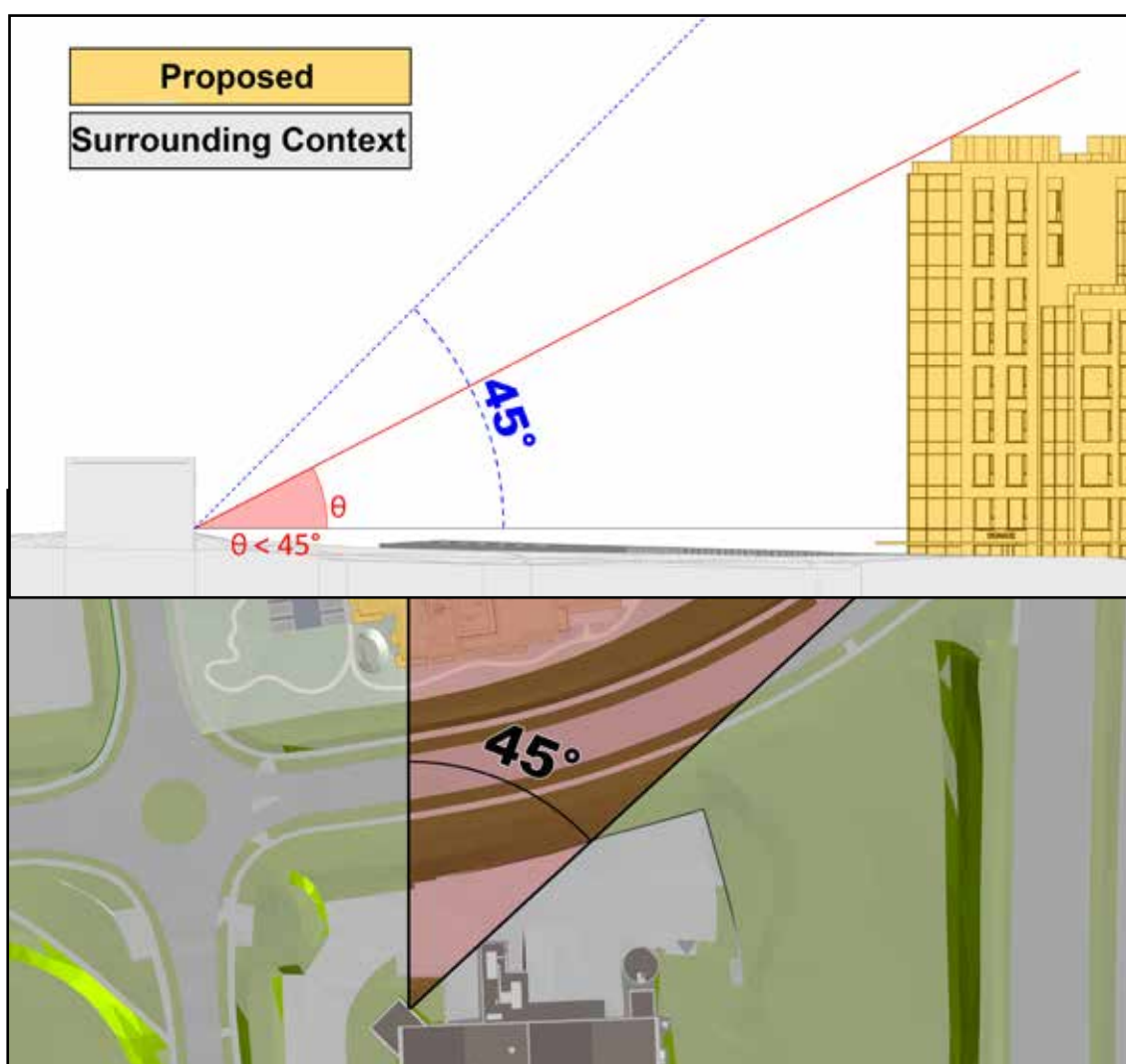


Figure 2.4: '45° approach' applied to ABCO KOVEX Building, Swords Business Park
Section B-B (U), Plan view (D)

No other windows facing the proposed development were identified within a distance of three times the height of the scheme that also satisfied the BRE 25° screening criterion. However, a window within the ABCO KOVEX Building, Swords Business Park, Swords, identified as Location B in Figure 2.2 on page 9, is oriented at an oblique angle to the proposed development. In this instance, the 25° test does not intercept the development site and is therefore not considered an appropriate screening method.

In accordance with Section 2.2.17 of the BRE Guidelines, where a proposed obstruction falls within 45° when measured in both plan and elevation, it may be appropriate to undertake a VSC assessment. This is referred to as the '45° approach'. Accordingly, the window was reviewed using the BRE 45° screening methodology.

Figure 2.4 illustrates both the plan and elevation assessments for the ABCO KOVEX Building window and demonstrates that the proposed development does not obstruct the 45° line of sight in section view. As the window does not satisfy the BRE 45° screening criterion, no further daylight impact assessment was undertaken for this property.

According to section 2.2.10 of the BRE Guidelines, it is advisable that where VSC assessments are conducted, a No Sky Line (NSL) assessment should also be carried out where room layouts are known. However, an NSL assessment requires accurate dimensions and layouts of the existing rooms and windows. Due to the common lack of availability regarding the required information, as is the case with the assessed properties of this study, NSL assessments are often not feasible when assessing impact on existing properties. A detailed description regarding the methodology of the VSC assessment can be found in 2.3.1 on page 14 of this report.

Section 3.2.9 of BRE Guidelines also applies the 25° rule to determine the need for an impact assessment for loss of sunlight (APSH/WPSH). They also advise that only windows with an orientation within 90° of due south should be assessed. The BRE recommends assessing the main living rooms of dwellings and conservatories, while APSH/WPSH assessments are typically not required for kitchens and bedrooms.

In practice, 3DDB include all windows meeting the proximity criteria in an APSH/WPSH assessment if they are reasonably assumed to serve habitable spaces. This approach avoids distinguishing whether the windows serve bedrooms or living areas, thereby eliminating the need to make assumptions about the specific functions of rooms in existing dwellings.

While sections 2.1.21 and 2.2.23 of the BRE Guidelines recommends conducting an impact assessment on the lowest window where daylight/sunlight is needed, if a property is found to have a window potentially affected by the proposed development, based on the previously explained criteria, other windows facing the proposed development on that property may also be assessed. This approach provides a more comprehensive understanding of the overall impact on the property.

2.2 Preparing the analytical model

2.2.1 Building the Model States

The project architect, MCORM, supplied 3DDB with AutoCAD drawings and 3D models of the proposed development from which a detailed 3D analytical model was created. Landscape drawings were provided by CSR Landscape Architects.

In line with standard practice, a desktop-based approach has been adopted to gather information regarding the existing subject site and its surroundings. In lieu of a bespoke on-site survey, a combination of available survey information, aerial photography, and ordnance survey data was used to model the context and assessed buildings. As information gathered from online sources is not as precise as a physical survey, a reasonable tolerance should be allowed for the placement of windows, boundary treatments, and the results generated.

Baseline model state

As illustrated in Figure 2.7, the baseline model state reflects the existing environment. It includes the surrounding context and the subject site in their current standing. Existing trees were placed using photogrammetry information, with assumptions made regarding exact size, position and species. The existing trees highlighted in dark green in Figure 2.7 were classified as a dense tree belt. As the species of the trees could not be confirmed, the vegetation was assessed on a conservative basis and treated as evergreen, assuming dense foliage throughout the year. This methodology ensures that the potential screening effects of the trees are not underestimated within the daylight and sunlight assessment.



Figure 2.5: Dense Belt of Trees



Figure 2.6: Dense Belt of Trees

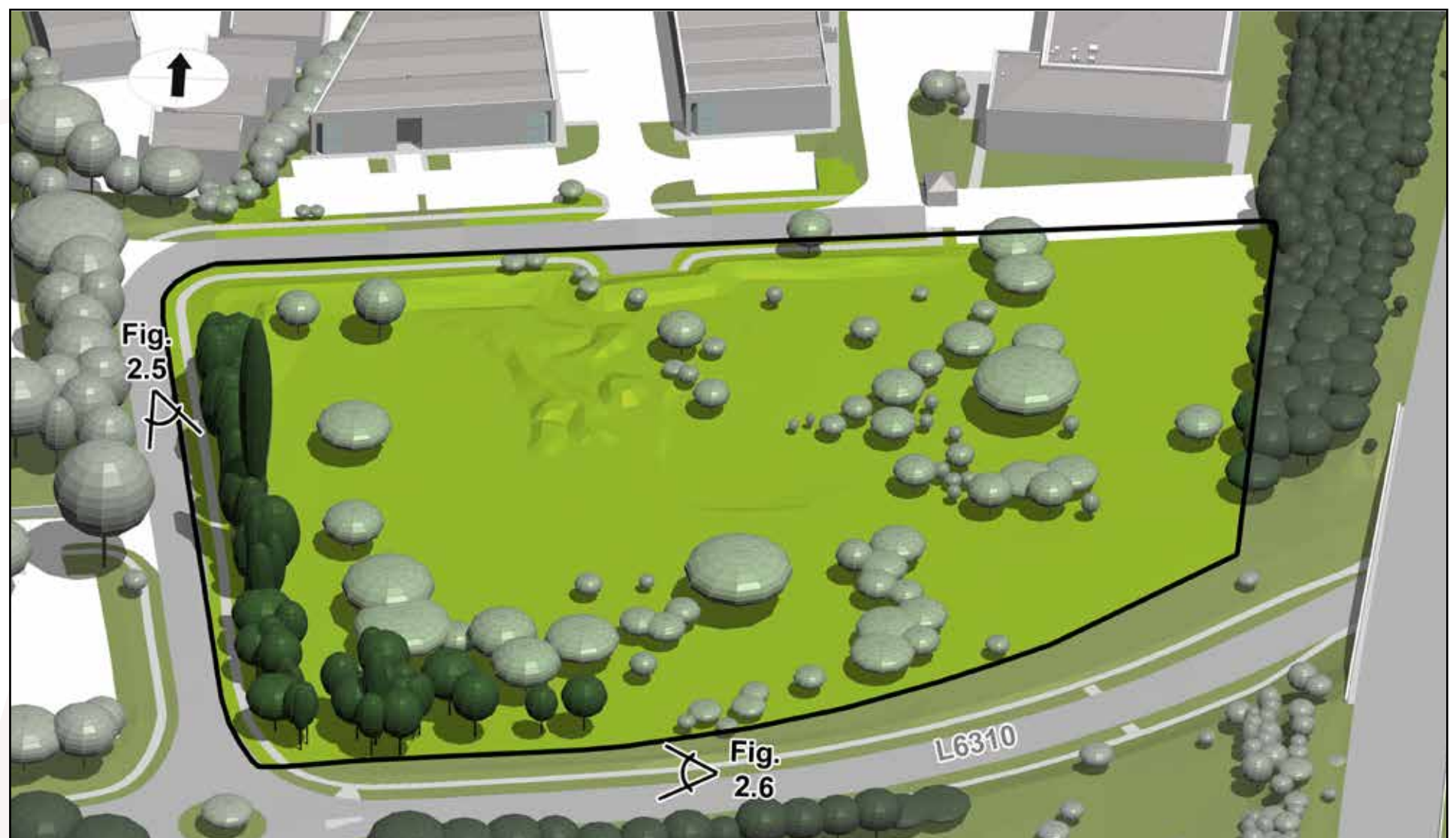


Figure 2.7: Model view of the baseline model state

Proposed model state

As illustrated in Figure 2.8, the proposed model state reflects the subject site if the development is built as proposed. This includes proposed landscaping on the subject site and the removal of some of the existing trees located at the western boundary along the internal access road serving the Business Park. Proposed buildings have been accurately positioned in their location on the subject site with relevant surrounding context included. Proposed trees were placed according to the information provided by the landscape architect.



Figure 2.8: Model view of the proposed model state

The assessment model includes all surrounding windows identified in accordance with the screening criteria, for impact assessment, as set out in section 2.1 of this report. This ensures that all receptors with the potential to experience an adverse effect have been captured within the VSC and APSH/WPSH analysis.

All of the above information was subsequently used to prepare a digital analytical model in software specifically designed for daylight and sunlight analysis.

Relevant weather and climatic data has been obtained for this report using a localised EnergyPlus Weather File (IRL_Dublin.039690_IWEC.epw).

2.2.2 Trees

As stated in section 3.3.9 of the BRE Guidelines, the exact shapes of trees are “almost impossible to predict”. When modelling trees for assessments tree geometry is simplified. Where tree survey information is not provided, the position and size of existing trees are estimated using photogrammetry information. The shape of the trees is simplified and an average transmittance value is applied using information from table G1 from the BRE Guidelines. Simplified models of proposed trees within the development are also included according to the information provided by the landscape architect.

BRE 209 provides guidance on how trees should be treated depending on the study being carried out, as summarised below:

Impact to Vertical Sky Component (VSC) and Annual / Winter Probable Sunlight Hours (APSH / WPSH)

Section G1.2 of the BRE Guidelines states that when assessing the effect a new development would have on existing buildings, “it is usual to ignore the effect of deciduous trees”. This is because daylight is at its scarcest and most valuable in winter when most trees will not be in leaf. Evergreen trees should be included, particularly where a dense belt or group of evergreens is specifically planned as a windbreak or for privacy purposes.

Sun On Ground (SOG)

Regarding SOG assessments, section G4.1 of the BRE Guidelines states:

“...trees and shrubs are not normally included in the calculation unless a dense belt or group of evergreens is specifically planned as a windbreak or for privacy purposes. This is partly because the dappled shade of a tree is more pleasant than the deep shadow of a building (this applies especially to deciduous trees).”

As such, deciduous trees are not included in the calculation of SOG, unless there is a dense belt present or a group of trees specifically planned as a windbreak or for privacy purposes. Evergreen trees are included in the SOG assessment.

Sunlight Exposure (SE)

Section G3.1 of the BRE Guidelines states that as deciduous trees would not be in full leaf on the recommended assessment date (March 21st), sunlight would be expected to penetrate deciduous trees. However, as trees have so many variables, it is impossible to accurately represent how they would affect sunlight at a given time. The suggested methodology (BRE 209) to allow for this is to run the sunlight exposure study in two states. Firstly, with all trees as opaque objects and secondly, without deciduous trees in the assessment model. This gives a range of potential sunlight hours.

Spatial Daylight Autonomy (SDA)

BRE 209 recommends when assessing daylight in a proposed building, it is appropriate to run the assessment with trees represented over the course of the whole year. Light transmittance values for the modelled trees are varied to account for summer and winter foliage.

Taking average dates from *BRE Digest 350*, appropriate light transmittance values are applied to deciduous trees to represent the ‘full leaf’ and ‘bare branch’ states.

Evergreen trees are represented as ‘full-leaf’ throughout the year.

The BRE Guidelines (section G2.3) also state:

“The calculation model should account for the obstruction to daylight caused by the trees. This needs to be done by modelling a representative shape of the trees. Often trees are irregularly shaped and simple modelling, using height and spread data and assuming a circular tree, will give inaccurate results. A special survey on site is generally required to produce the required data on the tree profile, using a clinometer or other device to measure tree height. Buildings and other solid objects should also be taken into account.”

In the absence of a ‘special survey’ being conducted, as mentioned above, simplified models representing trees are used. The information for these trees is taken from photogrammetry information and an arborist report when available. A reasonable tolerance should be applied to the results generated to account for trees not being represented exactly as they appear on site.

Units are also assessed without trees to give an understanding of how the architecture performs should trees not be factored into the calculation.

I.S. EN 17037 does not give any guidance on how trees should be represented. For the purpose of this report, the SDA calculation under the I.S. EN 17037 criteria is carried out with trees represented in the same manner as the BRE 209 assessment. Units are also assessed without trees to give an understanding of how the architecture performs should trees not be factored into the calculation.

No Sky Line (NSL)

Because some sky can usually be seen through a tree canopy, deciduous trees are not included in the No Sky Line assessment model. Evergreen trees may be included in this assessment, particularly if there is a dense belt or group planned for windbreak or for privacy purposes.

Shadow Study

The hourly renderings of the shadow study are generated with evergreen trees and the dense belt of trees represented as opaque objects, where applicable, and typically without deciduous trees. This method best represents the methodology used for the impact assessment and allows for a better understanding of potential shadows cast by the proposed development through the tree canopy.

2.3 Quantitative Impact Assessment Overview

2.3.1 Effect on Vertical Sky Component (VSC)

A proposed development could potentially have a negative effect on the level of daylight that a neighbouring property receives, if the obstructing building is large in relation to its distance from the existing dwelling.

Section 2.1 outlines the decision process which was used to determine the appropriate properties to be included in the VSC impact assessment.

For proposed developments, all properties within a distance of three times the height of the proposed development are considered with regards to an impact assessment. Should the angle from the windows to the proposed development subtend 25° in a perpendicular section, then VSC is calculated in both the baseline and proposed model states, and a comparison made.

A No Sky Line assessment requires accurate dimensions and layouts of both rooms and windows. However, the required information is rarely available for existing dwellings. As such, it is not common practice to carry out a No Sky Line (NSL) impact assessment.

VSC can be defined as the amount of skylight that falls on a vertical wall or window.

Where applicable, this report assesses the percentage of direct sky illuminance that falls on the assessment point of neighbouring windows that could be affected by the proposed development.

Section 2.1.6 of the BRE Guidelines states that if the VSC is:

- At least 27%, then conventional window design will usually give reasonable results;
- Between 15% and 27%, then special measures (larger windows, changes to room layout) are usually needed to provide adequate daylight;
- Between 5% and 15%, then it is very difficult to provide adequate daylight unless very large windows are used;
- Less than 5%, then it is often impossible to achieve reasonable daylight, even if the whole window wall is glazed.

Where a VSC assessment is warranted, the values for each relevant window/room may be calculated in the corresponding model states, as outlined in section 2.2 on page 11. A comparison of these results can be used to indicate the level of effect.

A proposed development could possibly have a noticeable effect on the daylight received by an existing window, if the following occurs:

- The VSC value drops below the guideline value of 27%; **and**
- The VSC value is less than 0.8 times the existing value.

In instances where a baseline value is less than 1%, the impact will be considered '*non-applicable*' (n.a.).

Under BRE Guidelines (section 2.2.2), only habitable rooms need to be assessed for effect to VSC. In the absence of design layouts or floor plans, or information pertaining to the internal 'as-built' layouts, assumptions have been made regarding the function of the windows of the existing surrounding properties (i.e. what room type is served by the window being assessed).

Typically, the effect on ground floor windows is greater than the effect on windows of subsequent floors. However, floors above ground floor level may be included in this study to give a more comprehensive assessment.

Assessment Points

The VSC impact assessment is carried out on the windows/rooms of the neighbouring properties that could be affected by the proposed development as highlighted in Figure 1.1 on page 3.

The assessment points for measuring VSC are taken from the centre point of a standard window. If the window being assessed is a full height window, the assessment point is taken at 1600 mm above the finished floor level.

Weighted Averages

If it can be determined or reasonably assumed that multiple windows are servicing the same room, each window has been assessed and a room VSC will be calculated by applying a weighted average calculation to the results.

When calculating weighted averages the proportion of the total glazing area represented for each window is taken into account. It should be noted that estimations typically need to be made regarding window sizes, so a tolerance should be applied regarding calculated weighted averages.

In instances where weighted averages have been calculated, the VSC figures will be stated for each window on an individual basis as well as the calculated figure to be applied to the room, but the level of effect will only be stated for the room.

Project Assessment

Following the BRE decision chart, as illustrated in Figure 2.1 on page 9, a VSC impact assessment has been carried out on the windows/rooms of the neighbouring properties that could be affected by the proposed development.

The assessed properties are Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3), as indicated in Figure 1.1 on page 3.

No VSC impact assessment was conducted for other properties that are within three times the height of the proposed development. This is because none of the windows to these properties satisfy the relevant BRE screening criteria, namely the 25° test (measured in a perpendicular section) or the 45° approach (measured in both plan and elevation).

The results for the VSC assessment can be found in the appendix results section A.1 on page 32, with analysis of the results in section 3.1.1 on page 20.

2.3.2 Effect on Annual/Winter Probable Sunlight Hours (APSH/WPSH)

Annual/Winter Probable Sunlight Hours (APSH/WPSH) is a measure of sunlight that a given window may expect to receive over the period of a year. The percentage of APSH/WPSH that windows in existing properties receive might be affected by a proposed development.

A proposed development could potentially have a negative effect on the level of sunlight that a neighbouring property receives, if the obstructing building is located to the south and is large in relation to its distance from the existing dwelling. This can be determined if the distance of a proposed development is less than three times its height from an existing dwelling, or if the angle from an existing window to the proposed development subtends an angle of 25° to the horizontal when measured in a perpendicular section.

Whether a window is considered for APSH/WPSH impact assessment is based on its orientation. A south-facing window will, in general, receive the most sunlight. North facing windows may receive sunlight on only a handful of occasions in a year, and windows facing eastwards or westwards will receive sunlight only at certain times of the day. Taking this into account, section 3.2.3 of the BRE Guidelines suggest that windows with an orientation within 90 degrees of due south should be assessed.

Section 2.1 outlines the decision process which is used to determine the appropriate properties to be included in an APSH/WPSH impact assessment.

The APSH/WPSH for each of the assessed windows should be calculated in the relevant model states, as outlined in section 2.2 on page 11. A comparison between the results generated using these model states can be used to determine the level of effect.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, the APSH/WPSH will be assessed for the room as opposed to each individual window. When APSH/WPSH is assessed for a room it considers sunlight coming from all windows, but does not double count if sunlight is reaching multiple windows at the same time.

If a room can receive more than 25% of APSH, including at least 5% of the WPSH, then the room should receive enough sunlight. Despite being two components of the same technical study, the results for APSH and WPSH are presented separately in this report. This approach distinguishes between annual and winter sunlight impacts, thereby facilitating a more detailed analysis of the effect of the proposed development.

A proposed development could possibly have a noticeable effect on the sunlight received by an existing window/room, if the following occurs:

- The APSH value drops below the annual (25%) or winter (5%) guidelines; **and**
- The APSH value is less than 0.8 times the baseline value; **and**
- There is a reduction of more than 4% to the annual APSH.

In some circumstances, the available sunlight during the winter period (WPSH) may both drop below the recommended minimum of 5% with a proposed value of less than 0.8 times the baseline value, but the reduction to annual probable sunlight (APSH) is less than 4%. Such occurrences are considered compliant with the BRE Guidelines (Section 3.2.6), and the impact to WPSH will be stated as 'n.a.' on that basis.

Additionally, where a baseline value is less than 1%, the impact will be considered 'non-applicable' (n.a.).

According to section 3.2.3 of the BRE Guidelines, only main living-rooms, or rooms comprising living space, need to be assessed for effect on sunlight. In the absence of design layouts or floor plans, or information pertaining to the internal 'as-built' layouts, all windows assumed to be servicing habitable rooms will be included in the APSH/WPSH assessment provided they are oriented within 90° of due south and are in relative close proximity to the proposed development.

Typically, the effect on ground floor windows is greater than the effect on windows of subsequent floors. However, floors above ground floor level may be included in this study to give a more comprehensive assessment.

Assessment Points

The assessment points for measuring APSH/WPSH are taken from the centre point of a standard window. If the window being assessed is a full height window, the assessment point is taken at 1600 mm above the finished floor level.

Project Assessment

The APSH/WPSH impact assessment has been carried out on the windows/rooms of the neighbouring properties that could be affected by the proposed development as indicated in Figure 1.1 on page 3, with an orientation within 90 degrees of due south.

As indicated in Figure 1.1 on page 3, the assessed properties are Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3).

No APSH/WPSH impact assessment was conducted for other properties that are within three times the height of the proposed development. This is because none of the windows to these properties satisfy the relevant BRE screening criteria, namely the 25° test (measured in a perpendicular section) or the 45° approach (measured in both plan and elevation).

The results for the APSH/WPSH assessment can be found in the appendix results section A.2 on page 36, with analysis of the results in section 3.1.2 on page 20.

2.3.3 Effect on Sun On Ground in Existing Gardens/Amenity Areas (SOG)

Section 3.3.17 of the BRE Guidelines recommend that for a garden or amenity area to appear adequately sunlit throughout the year, at least half the area should receive at least two hours of sunlight on March 21st. As the BRE Guidelines do not provide clear criteria on which neighbouring properties should be included in an impact on SOG study, 3DDB have carefully considered the neighbouring properties that may be affected when running the impact assessment. Gardens or amenity areas included in this study are typically located within close proximity, to the north of the proposed development.

Where a quantitative assessment has not been carried out it is on the basis that the omitted areas are unlikely to be adversely affected. Such instances may be because the areas are not deemed to be in close proximity to the proposed development or because they are located to the south. Should there be any concerns over the potential impact on any areas that have not been included in the quantitative assessment, a qualitative assessment may be carried out using a shadow study and/or false colour plans.

March 21st, also known as the spring equinox, is chosen as the assessment date as daytime and night-time are of approximately equal duration on this date.

In accordance with section 3.3.9 of the BRE Guidelines, deciduous trees will not typically be included unless there is a particularly dense belt. The analytical model for SOG impact assessment includes evergreen trees, where applicable.

Where applicable, the percentage of assessed areas which can receive two hours or more of direct sunlight on March 21st is calculated in the relevant model states, as outlined in section 2.2 on page 11. A comparison between the results generated with these model states can be used to determine the level of effect.

A proposed development could possibly have a noticeable effect on the sunlight received by an existing garden and/or amenity area, if the following occurs:

- Half the area of the space does not receive at least two hours of sunlight during the spring equinox; **and**
- The area that receives more than two hours of sun on the spring equinox is less than 0.8 times its former value.

In instances where a baseline value is less than 1%, the impact will be considered 'non-applicable' (n.a.).

Effect on sunlight to existing neighbouring gardens and/or amenity areas has been assessed north of the proposed development, as areas located to the south are unlikely to be affected as the sun does not cast shadows in this direction. Overshadowing is highly unlikely to occur in areas that are due south of any proposed development.

Project Assessment

No quantitative SOG impact assessment has been carried out on the areas surrounding the subject site as the surrounding area is predominantly comprised of commercial and industrial buildings with no associated amenity spaces. Therefore, following the screening exercise, no further Sunlight on Ground (SOG) assessment was undertaken.

The shadow study assessment in section B.0 on page 43 allows for a qualitative sunlight assessment of the surrounding areas.

2.4 Qualitative Assessment - Shadow Study

2.4.1 Shadow Study

A shadow study has been carried out to allow a qualitative comparison between the relevant model states, as outlined in section 2.2 on page 11. This visual representation of the shadows cast by the proposed development can be found in the hourly shadow diagrams in the appendix results section B.0 on page 43.

Hourly renderings have been shown from sunrise to sunset on the following dates in 2026:

- Spring equinox: March 21st Sunrise 6:31 | Sunset 18:33. (GMT)
- Summer solstice: June 21st Sunrise 5:03 | Sunset 21:50. (BST) (Daylight Savings)
- Winter solstice: December 21st Sunrise 8:46 | Sunset 16:00. (GMT)

The shadow study has been generated using the same model states as described in section 2.2.1. In certain cases, assumptions or estimations may have been made when modelling elements of the surrounding context and/or proposed site details when creating the various model states. Therefore, it is advisable for a reasonable tolerance to be applied when interpreting shadows in the qualitative assessment.

The hourly renderings of the shadow study will be generated without deciduous trees and with evergreen trees, where applicable, represented as opaque objects when present in the model states.

Note: The spring equinox (March 21st) and autumn equinox (21st September) yield similar shadows, albeit with a one hour difference as daylight saving time (BST) would be in effect. Only the spring equinox was included in the shadow study images in accordance with section 3.3.14 of the BRE Guidelines.

2.5 Quantitative Scheme Performance Assessment Overview

2.5.1 Spatial Daylight Autonomy in Proposed Habitable Rooms (SDA)

Since the publication of the 3rd edition of the BRE Guidelines (BRE 209 - 2022), Spatial Daylight Autonomy (SDA) is the recommended metric for assessing daylight access within a proposed development. Spatial Daylight Autonomy replaces Average Daylight Factor (ADF) in this regard, which was the recommended metric under the 2nd edition of the BRE Guidelines (BRE 209 - 2011).

Spatial Daylight Autonomy assesses whether a room receives sufficient daylight on a working plane during standard operating hours on an annual basis. A given target value should be achieved across 50% of the working plane for half of the daylight hours.

There are two methods for calculating SDA:

- **Calculation method using illuminance level:** This requires the use of a detailed daylight calculation method where hourly (or sub-hourly) internal daylight illuminance values for a typical year are computed using hourly (or sub-hourly) sky and sun conditions derived from climate data appropriate to the site. This calculation method determines daylight provision directly from simulated illuminance values on the reference plane. The illuminance value of at least half the required area of the space should equal or exceed the target values.
- **Calculation method using daylight factor:** The daylight factor method assumes a constant ratio between internal and external illuminance. The daylight factors in the space shall be calculated by any reliable method that is based on the ISO 15469:2004 standard overcast sky (TYPE 1 or TYPE 16). Daylight factors are to be predicted across a grid of points on a plane 0.85m above the floor of the space. The daylight factor of at least half the required area of the space should equal or exceed the target values.

It is the opinion of 3DDB that the calculation method using illuminance level better represents a real-world scenario as it accounts for the quality of daylight based on orientation. As such, the illuminance methodology has been adopted as the preferred SDA assessment methodology by 3DDB. A localised EnergyPlus Weather File is used to apply the relevant climate information. In the case of this report, the weather file used is IRL_Dublin.039690_IWEC.epw.

In terms of housing, *BRE 209* provides target SDA values to be received across at least 50% of the working plane for at least half the daylight hours. The target values differ based on the function of the room assessed:

- 200 Lux for kitchens • 150 Lux for living rooms • 100 Lux for bedrooms

Where rooms serve more than one function, the higher SDA target value should be taken. In new developments, some internal spaces (e.g. studio apartments, shared communal areas, creche classrooms etc.) can possibly be of a nature that does not have a predefined target value in BRE 209. In such instances, 3DDB have applied a target value they deem to be appropriate. In the case of the proposed development there are 5 no. creche classrooms and one office. 3DDB recommend that an SDA target value of 200 Lux be applied to the creche classrooms and to the office. The rationale for this target value is that classrooms are task-orientated rooms. The internal play area was considered to be a habitable space and, as such, an SDA target value of 150 Lux was applied, consistent with the target value for living rooms. These rooms have not been included in the calculated compliance rates.

Under I.S. EN 17037 at least 50% of the working plane should receive above 300 lux for at least half the daylight hours, with 95% of the working plane receiving above 100 Lux for all rooms. The target SDA values do not vary depending on the room function under this criteria.

This study has assessed the Spatial Daylight Autonomy (SDA) received in the habitable rooms of the proposed development under the BRE 209 criterion. The SDA of the proposed development has been calculated under the I.S. EN 17037 criterion as part of a supplementary assessment.

Defining Rooms

The definition of rooms are typically taken directly from the architectural drawings supplied by the project architect. Sometimes, the applied names of rooms may differ slightly. e.g. A "Kitchen / Living / Dining room (KLD)" may be referred to as a "Living / Kitchen / Dining room (LKD).

According to section 2.1.14 of the BRE Guidelines areas like bathrooms, stairwells, garages, and storage areas do not have a special requirement for daylight. As such these spaces have not been assessed.

Where an SDA assessment has been conducted, an indication of the assessed space in each room will be indicated in the floor plans that correspond to the SDA results in the appendix section "Proposed Apartment Floor Plans" on page 52.

Working Plane

The calculation of SDA is carried out on a hypothetical working plane which lies 850 mm from the finished floor level in residential units and 700 mm in academic and office spaces.

In the BRE 209 study the working plane is offset 300 mm from the room boundaries. Under the I.S. EN 17037 criteria the working plane is offset 500 mm from the room boundaries. The working plane has a grid density of c. 300 mm.

Material Palette

Following consultation with the design team, material values used for SDA calculations are as per the table below:

Table No. 2.5.1 - Material Palette for SDA Calculations					
Object	Material	Reflectance	Object	Material	Reflectance
					Transmittance
Exterior walls	Standard Brick	0.3	Interior Walls	Pastel paint	0.7
	Light Brick	0.4	Interior Ceiling	White paint	0.8
	Dark Brick	0.15	Interior Floor	Light timber	0.4
	Render	0.6	Miscellaneous	Miscellaneous	0.5
	Concrete	0.4	Glass	Glass transmittance value	0.68
Ground cover	Paving	0.4		Maintenance factor	0.91
	Tarmac	0.2		Glass adjusted for maintenance	0.62
	Grass	0.2		Frosted glass	0.5

Project Assessment

The results for the study on SDA can be found in the appendix results section C.2 on page 68.

Analysis of the results can be found in section 3.2.1 on page 21.

The results of the supplementary SDA study under the I.S. EN 17037 criterion can be found in section D.0 on page 120.

This study indicates the daylight potential of the proposed development. As-built daylight performance within the occupied development may vary from the results of this assessment due to changes to the exterior context, weather conditions and/or occupiers choice of interior finishes and furniture placement.

2.5.2 Sunlight Exposure in Proposed Habitable Rooms (SE)

Since the publication of the 3rd edition of the BRE Guidelines (BRE 209 - 2022), Sunlight Exposure (SE) is the recommended metric for assessing sunlight access within a proposed development. Sunlight Exposure replaces APSH/WPSH in this regard, which was the recommended metric under the 2nd edition of the BRE Guidelines (BRE 209 - 2011).

Sunlight exposure (SE) is a measure of sunlight that a given window may expect to receive on a given date between the 1st of February and the 21st of March. Section 3.1.10 of the BRE guidelines suggests that March 21st (equinox) is used as the assessment date.

In the presence of trees, SE results have been generated, both with deciduous trees as opaque objects and without the inclusion of deciduous trees, in accordance with section G3 of the BRE Guidelines. Evergreen trees have been included as opaque objects, where applicable, in both states.

The level of sunlight exposure is categorised as follows:

- 1.5 Hours - Minimum • 3 Hours - Medium • 4 Hours - High

The recommendation for dwellings is that at least one habitable room, preferably a main living room, should receive at least the minimum criterion. Should no room within a given unit meet the recommended minimum level of sunlight exposure, it will be stated as non-compliant.

Sunlight exposure is assessed on habitable rooms within a proposed development. The assessment point for windows is 1.2m above the finished floor level, or 0.3m above the sill level (whichever is higher). If a room has multiple windows, the amount of sunlight received by each can be added together provided they occur at different times and sunlight hours are not double counted.

The criterion applies to rooms of all orientations, although if a room faces significantly north of due east or west it is unlikely to be met. As such, it is not always possible to achieve full compliance, especially in developments that contain single aspect units.

The sunlight exposure assessment focuses on habitable residential rooms. Unless sunlight access is deemed important for the functionality of a non-residential room in a proposed development, it will not be included in the study, which remains limited to residential rooms.

Project Assessment

The results for the study on sunlight exposure can be found in the appendix results section C.3 on page 93, with analysis of the results in section 3.2.2 on page 26.

This study predicts the sunlight potential of the proposed units. Real-world performance post-construction can vary based on actual weather patterns and any alterations to the external environment.

2.5.3 Sun On Ground in Proposed Outdoor Amenity Areas (SOG)

Section 3.3.17 of the BRE Guidelines recommends that for a garden or amenity area to appear adequately sunlit throughout the year, at least half of it should receive at least two hours of sunlight on March 21st.

March 21st, also known as the spring equinox, is chosen as the assessment date as daytime and night-time are of approximately equal duration on this date.

The analytical model for SOG assessment in proposed amenity areas includes evergreen trees, where applicable, as per section G4.1 of the BRE Guidelines. Typically deciduous trees will not be included unless there is a particularly dense belt.

A quantitative SOG assessment may be carried out on the areas as indicated by the project architect. Shadow studies and false colour plans can allow for a qualitative assessment for all other areas.

The portion of each assessed space capable of receiving 2 hours of direct sunlight on March 21st should be calculated individually. These areas can be combined to give the development average where appropriate.

Project Assessment

The levels of sunlight to proposed amenity areas, as indicated by the project architect, have been assessed. However, it should be noted that the numbering of these spaces in the Daylight and Sunlight Assessment Report has been assigned by 3DDB specifically for the purposes of this report. If other consultants are referencing these spaces in their own reports, it is unlikely they will be numbered the same.

The results for the study of sun on ground in the proposed outdoor amenity areas (including a visual representation in the form of 2-hour false colour plans) can be found in the appendix results section C.4 on page 118, with analysis of the results in section 3.2.3 on page 28.

This analysis quantifies the anticipated sunlight levels within the assessed amenity areas. The as-built outcome is subject to variation, depending on real-world weather and any changes to the exterior setting.

2.5.4 No Sky Line in Proposed Habitable Rooms (NSL)

The No Sky Line divides the areas of the working plane which can receive direct skylight, from those which cannot. It indicates the distribution of direct daylight within a room.

Section D3 of the BRE Guidelines recommends the No Sky Line study as an appropriate metric for an impact assessment to daylight, but only where room layouts are known.

"The calculation can only be carried out where room layouts are known. Using estimated room layouts is likely to give inaccurate results and is not recommended."

All advice regarding NSL in the BRE Guidelines (section 2.2) is in relation to impact assessments. NSL is not mentioned in the BRE section regarding daylight in new developments. Nevertheless, an NSL assessment was carried out on the proposed development as a supplementary study as it is requested in the DCC Development Plan 2022-2028 (Section 5.1, Appendix 16). Although the proposed development is not under Dublin City Council's jurisdiction, the NSL study has been included to provide consistency across 3DDB daylight and sunlight assessments.

Since the BRE Guidelines do not provide a recommended minimum NSL for proposed developments, compliance rates are calculated using criteria applied by 3DDB, derived from the logic of the Guidelines. Specifically, an NSL of 80% is considered an appropriate benchmark; this aligns with Section 2.2.10 of the BRE Guidelines, which states that supplementary electric lighting is required if a significant portion of the working plane—defined as 20% or more—lies beyond the No Sky Line.

The results of the supplementary NSL study can be found in section D.0 on page 120.

3.0 Analysis of Results

3.1 Analysis of Impact Assessment Results

3.1.1 Effect on Vertical Sky Component (VSC)

The effect on VSC has been assessed for 17 no. windows/rooms across the surrounding properties Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3) see Figure 1.1 on page 3.

Using the rationale explained in section E.2 on page 170, the effect on the VSC of these windows/rooms would be considered:

- negligible: 16 no.
- minor adverse: 1 no.

For the assessed properties, multiple windows serve the same rooms/entrance spaces. In the VSC impact assessment, each individual window is assessed and a weighted average based on the window size is calculated to determine the level of effect on the room. Windows labelled with a hash-tag and a serial number denote that the window is part of a room. The room will be identified with the hash tag, but without the serial number. (e.g. windows 'Xa#1' and 'Xa#2' would determine the weighted VSC for room 'Xa#')

Figure 3.1 illustrates the sole instance where a 'minor adverse' level of effect has been registered. This relates to a transient entrance lobby serving the commercial premises and, as such, the identified impact to daylight should not be of concern.

The full set of results of the study on VSC, across the 3 no. assessed properties, can be found in section A.1 on page 32.



Figure 3.1: Single instance registered 'minor adverse' level of effect highlighted in yellow.

3.1.2 Effect on Annual/Winter Probable Sunlight Hours (APSH/WPSH)

The effect on APSH/WPSH has been assessed for 17 no. windows/rooms of the surrounding existing properties across Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3). In accordance with BRE guidelines, APSH/WPSH assessments are typically limited to windows with an orientation within 90° of due south. As all assessed windows meet this criterion, they have all been included in the analysis.

Using the rationale explained in section E.2 on page 170, for APSH the effect on all of these windows or rooms would be considered 'negligible'.

For WPSH the effect on all of these windows or rooms would be considered 'negligible' as well.

The achievement of full compliance under the BRE Guidelines indicates that the proposed development maintains adequate separation distances from the surrounding buildings, thereby avoiding adverse impacts on neighbouring sunlight access.

The results of the study on APSH/WPSH can be found in Section A.2 on page 36.

3.1.3 Effect on Sun On Ground in Existing Gardens

Following initial screening, the surrounding area is predominantly comprised of commercial developments with no associated amenity spaces and therefore a quantitative Sunlight on Ground (SOC) assessment was not undertaken. However, a qualitative overview of the surrounding area can be made through shadow study in section B.0 on page 43.

3.2 Analysis of Scheme Performance Results

Following the pre-application process, close collaboration was undertaken with the design team. Throughout the design development stage, a number of design interventions were considered and incorporated where possible, with the objective of improving and optimising the daylight and sunlight performance of the proposed scheme.

In assessing the daylight and sunlight performance of the development, it is important to consider both the surrounding context and the design characteristics of the scheme itself. The surrounding context is relatively open, benefiting from good separation distances and comprising predominantly commercial and industrial buildings with road infrastructure and agricultural/pastoral land farther east. As such, the surrounding environment has a limited influence on the daylight performance of the proposed development.

The proposed development itself is a high-density scheme (in accordance with the objective and guidance pertaining to the 'MRE Metro and Rail Economic Corridor' zoning designation), and consequently the massing and proximity of the proposed blocks have a greater influence on daylight and sunlight performance.

Separately, the presence of the adjacent M1 motorway represents an important constraint. In response, winter gardens have been incorporated into the design as an integral architectural feature, providing acoustic attenuation, privacy, and environmental buffering between the residential accommodation and the external environment. The winter gardens therefore form part of the overall design strategy to enhance residential amenity while mitigating the effects of noise generated by the surrounding environment.

In accordance with BRE guidance, all rooms served by winter gardens have been assessed with the winter gardens modelled as enclosed balconies. The assessment methodology follows BRE 209 (2022) – Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice (3rd Edition). Section C30 (page 77) states:

“Outdoor and semi-conditioned spaces, partitioned from the room, like balconies and winter gardens should not be included in the reference grid, but the effects of balconies and overhangs above a window should be modelled.”

Accordingly, the winter gardens have been excluded from the assessment grids but have been fully modelled within the analytical model. For the purposes of this assessment, the winter garden glazing has been assumed to be in the fully closed position, representing the most conservative operational scenario. Whilst not the primary driver of daylight performance, the winter gardens influence the amount of daylight reaching the adjoining rooms and are considered a contributing factor to the performance achieved in some units. The results presented in this report therefore reflect the daylight conditions expected within the completed development and account for the architectural measures introduced to address the site's constraints.

3.2.1 Spatial Daylight Autonomy (SDA)

This study has assessed the Spatial Daylight Autonomy (SDA) performance of the habitable rooms within proposed Blocks A, B, C, D and E, both with and without the inclusion of trees. This dual approach provides a comprehensive understanding of the development's daylight performance.

The proposed development comprises 289 no. units containing approximately 836 no. habitable rooms. The SDA assessment returned compliance rates of approximately 93% without trees and 91% when trees are included within the analytical model. These results are reflective of the daylight performance typically associated with high-density residential developments of a similar scale and density.

Without the inclusion of trees, 778 no. rooms (c. 93%) achieved compliance with the relevant daylight criteria. Of these, 656 no. rooms achieved between 90% and 100% of the target illuminance across the working plane, whilst 60 no. rooms achieved between 70% and 90%, and 62 no. rooms achieved between 50% and 70%. The remaining 58 no. rooms (c. 7%) did not achieve compliance, exhibiting varying degrees of underperformance.

When trees were included within the analytical model, 760 no. rooms (c. 91%) achieved compliance. Of these, 627 no. rooms achieved between 90% and 100% of the target illuminance, whilst 68 no. rooms achieved between 70% and 90%, and 65 no. rooms achieved between 50% and 70%. The number of non-compliant rooms increased to 76 no. (c.9%), with those rooms similarly exhibiting varying degrees of underperformance.

The table below categorises the SDA results in 10% and 20% range increments. The box on the left identifies rooms that do not achieve the recommended daylight levels, whilst the box on the right identifies all compliant rooms (above the 50% threshold).

Non-compliant Rooms*			Compliant Rooms*		
Percentage of working plane achieving the required lux levels	No. of assessed rooms		Percentage of working plane achieving the required lux levels	No. of assessed rooms	
	No Trees	Annual Trees		No Trees	Annual Trees
0% - 20%	13	17	50% - 70%	62	65
20% - 40%	22	28	70% - 90%	60	68
40% - 50%	23	31	90% - 100%	656	627
Total:	58 (c. 7%)	76 (c. 9%)	Total:	778 (c. 93%)	760 (c. 91%)

* All assessments in the summary tables above have been conducted with and without the effect of trees.

The reduced daylight provision observed in rooms across all blocks, reflects the cumulative effect of a number of design characteristics rather than any single constraint. These include the high-density nature of the development, the spatial relationship between the proposed blocks, self-obstruction, inside corner units, deep rooms, and the incorporation of recessed balconies and winter gardens. Whilst these features can influence the level of daylight provision within some rooms, they form an integral part of the architectural design characteristics and provide a range of benefits, including enhanced privacy, acoustic attenuation, weather protection, improved residential amenity and architectural interest / aesthetic enhancement. Accordingly, the reported results should be considered in the context of these broader design objectives and the overall quality of the proposed living environment.

Figure 3.2 below illustrates some of the non-compliant rooms affected by such design characteristics.



Figure 3.2: Blocks A, B and C first floor plan highlighting examples of non-compliant rooms where daylight access is influenced by the design characteristics.

I.S. EN 17037 sets out more onerous recommendations for SDA. As such, the number of the habitable rooms of the proposed apartment Blocks achieving compliance under this standard is 557 no. in the assessment that includes trees. This gives a reduced circa compliance rate of c. 67%. The additional SDA assessment, under this standard, that does not include trees has shown a compliance rate of c. 70%.

In cases where rooms comply with the criteria of BRE 209 but do not meet the criteria of I.S. EN 17037, it is the recommendation of 3D Design Bureau that these rooms will be adequately daylight. This recommendation is based on the fact that BRE 209 provides room-specific criteria, unlike I.S. EN 17037. BRE 209 considers the varying daylight requirements for different room types, which I.S. EN 17037 does not account for.

Floor plans indicating unit numbers can be found in section C.1 on page 52. The results for the study on SDA can be seen in section C.2 on page 68.

Compensatory Design Solutions (CDS)

This report identifies where assessed rooms do not meet the daylight targets set in section 2.1 of the BRE Guidelines. It is intended to inform the planning authority's discretionary review, which is based on an assessment of the project's specific circumstances.

The following list details each unit containing one or more rooms that do not achieve the recommended daylight levels set out in BRE 209. For each unit, the project architect has provided a rationale and/or compensatory design solution.

Unit A02

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.3m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit A04

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 6.3m² exceeds the minimum requirement of 5m².
- Dual Aspect Unit.

Unit A07

- Unit Floor Area of 78m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 5m².
- Dual Aspect Unit.

Unit A08

- Unit Floor Area of 57m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit A09

- Unit Floor Area of 81m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit A11

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 6.3m² exceeds the minimum requirement of 5m².
- Dual Aspect Unit.

Unit A14

- Unit Floor Area of 78m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 6m².
- Dual Aspect Unit.

Unit A16

- Unit Floor Area of 78m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.7m² exceeds the minimum requirement of 6m².

Unit A19

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.2m² exceeds the minimum requirement of 7m².

Unit A24

- Unit Floor Area of 78m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 6m².
- Dual Aspect Unit.

Unit A26

- Unit Floor Area of 78m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.7m² exceeds the minimum requirement of 6m².

Unit A29

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.2m² exceeds the minimum requirement of 7m².

Unit A39

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.2m² exceeds the minimum requirement of 7m².

Unit A49

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.2m² exceeds the minimum requirement of 7m².

Unit B02

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.3m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit B03

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.6m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit B05

- Unit Floor Area of 79m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B06

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B09

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 5m².
- Dual Aspect Unit.

Unit B10

- Unit Floor Area of 57m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B11

- Unit Floor Area of 89m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.0m² exceeds the minimum requirement of 6m².
- Dual Aspect Unit.

Unit B14

- Unit Floor Area of 79m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B15

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B18

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit B19

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B20

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.7m² exceeds the minimum requirement of 7m².

Unit B23

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 7m².

Unit B25

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B28

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit B30

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.7m² exceeds the minimum requirement of 7m².

Unit B35

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit B45

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C03

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.8m² exceeds the minimum requirement of 7m².
- Dual Aspect Unit.

Unit C05

- Unit Floor Area of 79m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C06

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C11

- Unit Floor Area of 90m² exceeds minimum area requirement of 63m² (Two bedroom, 3 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.4m² exceeds the minimum requirement of 6m².
- Dual Aspect Unit.

Unit C14

- Unit Floor Area of 79m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C15

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C20

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.3m² exceeds the minimum requirement of 7m².

Unit C23

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 10.1m² exceeds the minimum requirement of 7m².

Unit C25

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C30

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.3m² exceeds the minimum requirement of 7m².

Unit C33

- Unit Floor Area of 78m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 11.3m² exceeds the minimum requirement of 7m².

Unit C35

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C45

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Dual Aspect Unit.

Unit C50

- Unit Floor Area of 81m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 9.3m² exceeds the minimum requirement of 7m².

Unit D05

- Unit Floor Area of 50m² exceeds minimum area requirement of 45m² (One bedroom, 2 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 6.3m² exceeds the minimum requirement of 5m².

Unit D06

- Unit Floor Area of 104m² exceeds minimum area requirement of 90m² (Three bedroom, 5 person).
- Floor-to-ceiling height of 3.2m exceeds the minimum requirement of 2.7m.
- Triple Aspect Unit.
- Access to Block D Communal Open Space at Roof Terrace Level 6.

Unit D13

- Unit Floor Area of 80m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.4m² exceeds the minimum requirement of 7m².
- Access to Block D Communal Open Space at Roof Terrace Level 6.

Unit D21

- Unit Floor Area of 80m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.4m² exceeds the minimum requirement of 7m².
- Access to Block D Communal Open Space at Roof Terrace Level 6.

Unit E02

- Unit Floor Area of 80m² exceeds minimum area requirement of 73m² (Two bedroom, 4 person).
- Floor-to-ceiling height of 2.9m exceeds the minimum requirement of 2.7m.
- Private Amenity Space of 8.4m² exceeds the minimum requirement of 7m².
- Access to Block E Communal Open Space at Roof Terrace Level 6."

3.2.2 Sunlight Exposure (SE)

A sunlight exposure assessment has been carried out on the habitable rooms of the proposed apartment Blocks A, B, C, D and E within the proposed development. As part of this assessment, both existing surrounding trees and proposed trees have been incorporated into the analytical model and treated as opaque elements.

The assessments have been carried out in two states:

- All trees (evergreen and deciduous) included in the assessment model.
- Evergreen trees and Dense Belt included in the assessment model.

This approach provides a range of potential sunlight hours, accounting for the seasonal variability of deciduous trees and is in accordance with section G3 of the BRE Guidelines.

In total, 289 no. units have been assessed. Using the rationale explained in section E.3 on page 171, the level of sunlight exposure for the assessed units is as follows:

In the assessment carried out with all tree types:

- high: 131 no. (at least 4 hours)
- medium: 64 no. (at least 3 hours)
- minimum: 55 no. (at least 1.5 hours)
- below minimum recommendation: 39 no. (less than 1.5 hours)

With only evergreen trees and dense belt of trees included in the assessment model:

- high: 137no. (at least 4 hours)
- medium: 62 no. (at least 3 hours)
- minimum: 51 no. (at least 1.5 hours)
- below minimum recommendation: 39 no. (less than 1.5 hours)

The SE assessment has shown that, regardless of the effect of trees, the approximate compliance rate for the assessed units, in accordance with the BRE Guidelines, is 87% in both states.

Note: For a unit to be compliant under BRE 209, at least one habitable room within the unit needs to meet the guideline values.

Whilst the criterion applies to rooms of all orientations, it should be noted that if a room faces significantly north of due east or west it is unlikely to be met. As such, it is not always possible to achieve full compliance, especially in developments that contain single aspect units.

The sunlight results should be considered in the context of the overall design approach adopted for the scheme. As discussed previously, the proposed development seeks to balance sunlight provision with a range of design objectives associated with the delivery of a high-density residential development. Units that do not achieve the BRE recommendations are generally associated with factors such as single-aspect layouts, less favourable orientations, and the spatial relationship between proposed blocks, all of which influence sunlight provision within the scheme.



Figure 3.3: Second floor plan view highlighting single aspect units across all Blocks.

The overall level of compliance achieved aligns with the range of outcomes typically associated with high-density residential developments of a similar scale and configuration.

No recommendation is made regarding the performance of a development as a whole for SE performance within the BRE Guidelines. However, it is the opinion of 3DDB that the proposed development performs adequately in this regard.

The results for the study on SE in the habitable rooms of the proposed units can be seen in section C.3 on page 93.

3.2.3 Sun On Ground in Proposed Outdoor Amenity Areas

This study has assessed the level of sunlight on March 21st within the proposed amenity areas as indicated in Figure 3.4 below.

In total 7 no. spaces have been assessed, all of which would meet the criteria as set out in section 3.3 of the BRE Guidelines. Throughout the design development process, 3DDB worked closely with the landscape architect to optimise the layout and configuration of the proposed communal and public open spaces. This collaborative approach sought to maximise sunlight provision whilst balancing the wider design objectives of the scheme.

Sunlight access to the proposed outdoor amenity spaces was a primary design objective from the outset. The immediate surrounding area contains a limited provision of readily accessible public open space and, in recognition of this, particular importance was attached to delivering high-quality, attractive, usable and well-sunlit communal and public amenity areas for future residents. The layout, orientation and spatial arrangement of the proposed buildings and landscape spaces were therefore carefully considered to optimise sunlight penetration into these key outdoor areas.

All assessed Public Open Spaces (POS) and Communal Open Spaces (COS) achieve compliance with the BRE Guidelines. Of particular note is the strong performance recorded within POS 1, POS 2, COS 1, COS 2, COS 3 and COS 4, which achieve high levels of sunlight provision and comfortably exceed the BRE targets. These results indicate that the proposed development will provide a high-quality outdoor environment with well-sunlit amenity spaces for future residents.



Figure 3.4: Indication of the amenity areas that have been analysed

Overall, the assessment confirms that the open space strategy has been successfully integrated into the design process, resulting in a fully compliant scheme in accordance with the BRE recommendations for sunlight on ground to amenity spaces.

The results for the study on sunlight in the proposed outdoor amenity spaces can be found in section C.4 on page 118.

A visual representation of these readings can be seen in the false colour plan in section C.4 and in the hourly shadow diagrams for March 21st in section B.1 on page 43 of the appendix section of this report.

4.0 Conclusion

3D Design Bureau (3DDB) were commissioned to carry out a daylight assessment, sunlight assessment and shadow study for Large-Scale Residential Development at Greenfields, Swords, Co. Dublin.

The impact assessment for this report has quantified the effect the proposed development would have on the level of daylight and sunlight received by neighbouring properties that fall under the criteria outlined in section “2.1 Impact Assessment, Window Selection Criteria” on page 9. These include Unit 1, Swords Business Park (1), Unit 9, Swords Business Park (2) and Unit J10, Swords Business Park (3). As highlighted in Figure 4.1 below.



Figure 4.1: Scope of surrounding properties and environment assessed.

The impact assessment, undertaken in accordance with the BRE Guidelines, considered the potential effect of the proposed development on neighbouring commercial properties within Swords Business Park. The Vertical Sky Component (VSC) assessment identified ‘negligible’ level of effect in 16 of the 17 assessed windows/rooms, with a single instance of a ‘minor adverse’ level of effect recorded. This effect relates to an entrance lobby serving a commercial premises which therefore should not be of concern. The Annual and Winter Probable Sunlight Hours (APSH/WPSH) assessments achieved full compliance, with all assessed windows and rooms recording ‘negligible’ level of effects.

As the surrounding area is predominantly commercial in nature and does not contain associated amenity spaces, no quantitative Sun on Ground (SOG) impact assessment was undertaken. However, a qualitative assessment can be seen in the shadow study in section B.0 on page 43.

The scheme performance assessment quantified the daylight and sunlight provision within the proposed development. For Spatial Daylight Autonomy (SDA), total compliance rates of approximately 91% and 93% were achieved in the assessments with and without trees respectively. For Sunlight Exposure (SE), the assessment achieved an overall compliance rate of approximately 87% in both studies.

Instances of underperformance identified within both assessments (SDA and SE) are generally associated with the cumulative influence of the scheme’s architectural design characteristics and site-specific constraints. These include unit orientation, the spatial relationship between proposed blocks, inside corner-units, self-obstruction, deep rooms, and the incorporation of recessed balconies and winter gardens. Collectively, these factors influence the distribution of daylight and sunlight throughout the development and account for the variation in performance observed across certain rooms and units. The reported results should therefore be considered in the context of the wider design approach adopted for the scheme, which seeks to balance daylight and sunlight access with other aspects of residential density, comfort and amenity.

For Sun on Ground (SOG) within the proposed amenity spaces, all assessed Public Open Spaces (POS) and Communal Open Spaces (COS) achieve compliance with the BRE recommendations. The majority of the proposed amenity spaces record sunlight levels far in excess of the recommended minimum levels.

Appendix - Results



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Assessment criteria and detailed analysis of results can be found in the accompanying report.

A.0 Impact Assessment Results

A.1 Effect on Vertical Sky Component (VSC)

Below is an example of the table used to describe the effect on VSC.

Table Example. A.1 - VSC Impact Assessment						
Window Number	Baseline VSC Value	Proposed VSC Value	Ratio of Proposed VSC to Baseline VSC	Recommended Minimum VSC	Level of Compliance with BRE Guidelines	Effect of Proposed Development
A	B	C	D	E	F	G

A: Window Number

The number in this column will identify the assessed window. All windows are represented visually in the corresponding figure.

B: Baseline VSC Value

The *Baseline VSC Value* represents the VSC value of the assessed window which is calculated in the existing baseline model state (as explained in the “Building the Model States” on page 11).

C: Proposed VSC Value

The *Proposed VSC Value* represents the VSC value of the assessed window which is calculated in the proposed model state (as explained in the “Building the Model States” on page 11).

D: Ratio of Proposed VSC to Baseline VSC

This column expresses the ratio of change between the baseline VSC value and the proposed VSC value. Section 2.2.23 of the BRE Guidelines recommend that if the proposed value is less than 0.8 times the baseline value, then the reduction in daylight is more likely to be perceptible.

E: Recommended minimum VSC

The *BRE Target Value* for each window has been set according to section 2.2.23 of the BRE Guidelines. The Guidelines state that a proposed development could possibly have a noticeable effect on the daylight received by an existing window, if the VSC value **both** drops below the guideline value of 27% **and** the VSC value is less than 0.8 times the baseline value.

Therefore, to determine the *recommended minimum Value*, 80% of the *Baseline VSC value* has been calculated. If this value is above the 27% threshold, a target value of 27% will be applied. If 80% of the baseline value is below 27%, then 80% of the baseline value is the appropriate target value.

F: Level of Compliance with the BRE Guidelines

This column states the compliance of the *Proposed VSC Value* with the *recommended minimum VSC* as per the BRE Guidelines. In essence, it shows whether or not the assessed window would experience a perceptible level of impact. If the window complies with the BRE Guidelines this cell will state “BRE Compliant”. If the window does not meet the criteria as set out in the BRE Guidelines, a percentage of compliance with the *recommended minimum* will be stated.

G: Effect of Proposed Development

The levels of effect in this column describe the effect an assessed window will experience, based on its compliance with the *BRE Target Value*. A full list of definitions and a numerical rationale for each can be found in the section “Definition of Effects” on page 170.

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

A.1.1 Unit 1, Swords Business Park, Swords

Table No. A.1.1 - VSC Results:						
Window Number	Baseline VSC Value	Proposed VSC Value	Ratio of Proposed VSC to Baseline VSC	Recommended minimum VSC*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
U1SBP0a#1	33.77%	31.17%	0.92	27.00%	BRE Compliant	-
U1SBP0a#2	12.81%	10.58%	0.83	10.25%	BRE Compliant	-
U1SBP0a#3	37.65%	29.09%	0.77	27.00%	BRE Compliant	-
U1SBP0a#	29.36%	24.71%	0.84	23.49%	BRE Compliant	Negligible
U1SBP1a#1	36.61%	34.35%	0.94	27.00%	BRE Compliant	-
U1SBP1a#2	12.00%	10.03%	0.84	9.60%	BRE Compliant	-
U1SBP1a#3	38.24%	30.74%	0.80	27.00%	BRE Compliant	-
U1SBP1a#	30.38%	26.31%	0.87	24.30%	BRE Compliant	Negligible

* Section 2.2.23 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the VSC of an existing window, the value needs to both drop below the stated target value of 27% **and** be less than 0.8 times the baseline value.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows serve the same room, each individual window is labelled with a hash-tag and a serial number (e.g. Xa#1, Xa#2). Each window is assessed, and a weighted average is calculated to determine the level of effect on the room. Rooms are identified with a hash-tag at the end (e.g. Xa#). In such cases, the 'effect of proposed development' column will display a dash (-) for the individual windows, with the overall level of effect indicated in the row corresponding to the room.



Figure A.1: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.1.2 Unit 9, Swords Business Park, Swords

Table No. A.1.2 - VSC Results:						
Window Number	Baseline VSC Value	Proposed VSC Value	Ratio of Proposed VSC to Baseline VSC	Recommended minimum VSC*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0d	37.65%	28.02%	0.74	27.00%	BRE Compliant	Negligible
SBP0e	37.68%	28.02%	0.74	27.00%	BRE Compliant	Negligible
SBP0f	37.72%	27.93%	0.74	27.00%	BRE Compliant	Negligible
SBP0g#1	37.76%	28.05%	0.74	27.00%	BRE Compliant	-
SBP0g#2	12.76%	10.09%	0.79	10.21%	99%	-
SBP0g#3	33.90%	32.32%	0.95	27.00%	BRE Compliant	-
SBP0g#	29.44%	24.62%	0.84	23.55%	BRE Compliant	Negligible
SBP1d	38.25%	29.84%	0.78	27.00%	BRE Compliant	Negligible
SBP1e	38.25%	29.82%	0.78	27.00%	BRE Compliant	Negligible
SBP1f	38.28%	29.72%	0.78	27.00%	BRE Compliant	Negligible
SBP1g	38.29%	29.72%	0.78	27.00%	BRE Compliant	Negligible
SBP1h#1	38.29%	29.76%	0.78	27.00%	BRE Compliant	-
SBP1h#2	11.97%	9.61%	0.80	9.58%	BRE Compliant	-
SBP1h#3	36.68%	35.30%	0.96	27.00%	BRE Compliant	-
SBP1h#	30.41%	26.18%	0.86	24.33%	BRE Compliant	Negligible

* Section 2.2.23 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the VSC of an existing window, the value needs to both drop below the stated target value of 27% **and** be less than 0.8 times the baseline value.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows serve the same room, each individual window is labelled with a hash-tag and a serial number (e.g. Xa#1, Xa#2). Each window is assessed, and a weighted average is calculated to determine the level of effect on the room. Rooms are identified with a hash-tag at the end (e.g. Xa#). In such cases, the 'effect of proposed development' column will display a dash (-) for the individual windows, with the overall level of effect indicated in the row corresponding to the room.

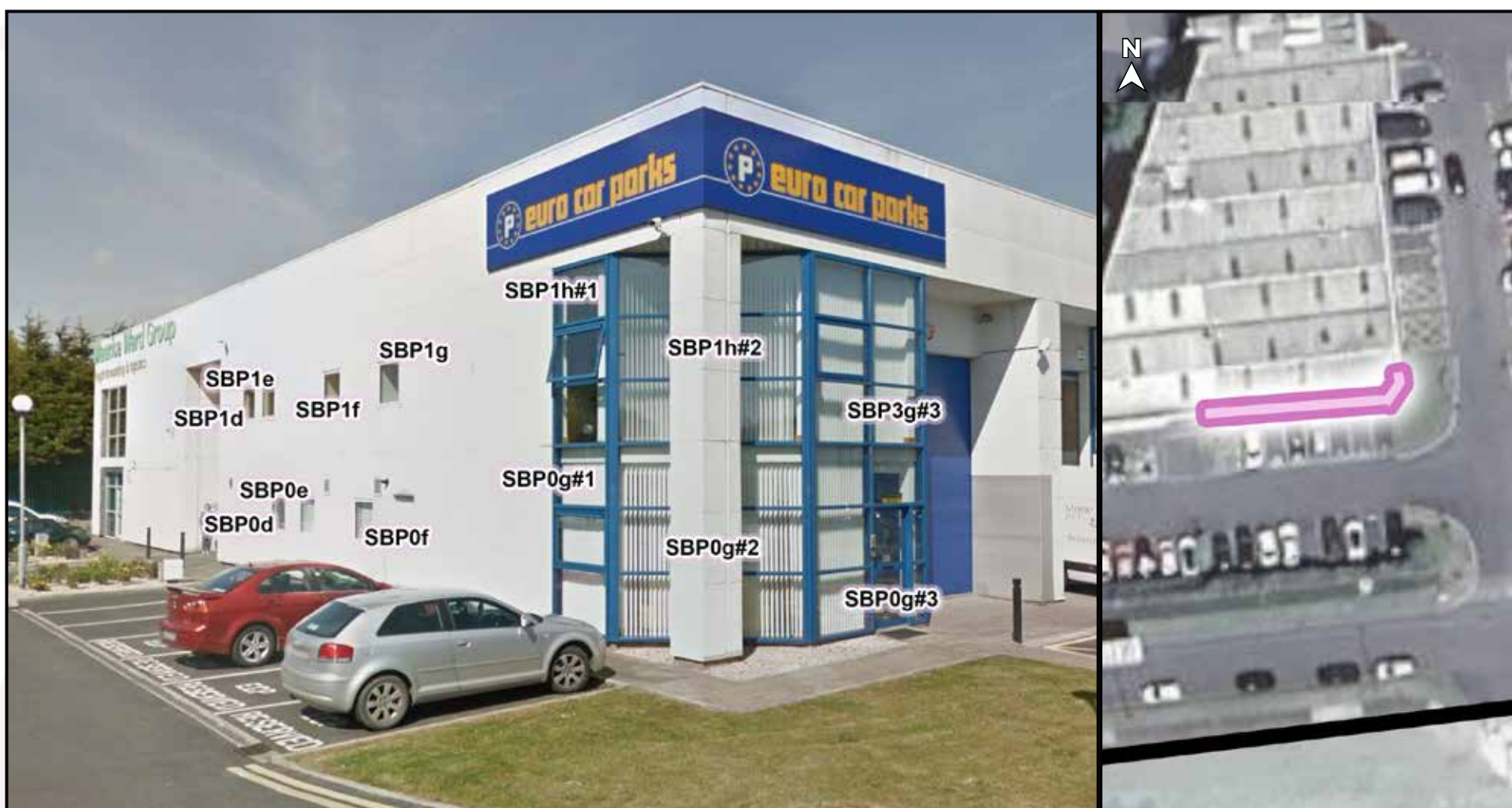


Figure A.2: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.1.3 Unit J10, Swords Business Park, Swords

Table No. A.1.3 - VSC Results:						
Window Number	Baseline VSC Value	Proposed VSC Value	Ratio of Proposed VSC to Baseline VSC	Recommended minimum VSC*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0a#1	2.83%	2.81%	0.99	2.26%	BRE Compliant	-
SBP0a#2	10.98%	7.67%	0.70	8.78%	87%	-
SBP0a#3	35.24%	26.74%	0.76	27.00%	99%	-
SBP0a#	20.89%	15.81%	0.76	16.72%	95%	Minor Adverse
SBP0b	36.57%	27.76%	0.76	27.00%	BRE Compliant	Negligible
SBP0c	37.23%	28.00%	0.75	27.00%	BRE Compliant	Negligible
SBP1a#1	16.79%	16.77%	1.00	13.43%	BRE Compliant	-
SBP1a#2	13.06%	10.14%	0.78	10.45%	97%	-
SBP1a#3	37.48%	29.99%	0.80	27.00%	BRE Compliant	-
SBP1a#	25.74%	21.26%	0.83	20.59%	BRE Compliant	Negligible
SBP1b	37.95%	30.21%	0.80	27.00%	BRE Compliant	Negligible
SBP1c	38.14%	30.02%	0.79	27.00%	BRE Compliant	Negligible

* Section 2.2.23 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the VSC of an existing window, the value needs to both drop below the stated target value of 27% **and** be less than 0.8 times the baseline value.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows serve the same room, each individual window is labelled with a hash-tag and a serial number (e.g. Xa#1, Xa#2). Each window is assessed, and a weighted average is calculated to determine the level of effect on the room. Rooms are identified with a hash-tag at the end (e.g. Xa#). In such cases, the 'effect of proposed development' column will display a dash (-) for the individual windows, with the overall level of effect indicated in the row corresponding to the room.



Figure A.3: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2 Effect on Annual/Winter Probable Sunlight Hours (APSH/WPSH)

Below is an example of the table used to describe the effect to the APSH/WPSH of existing windows / rooms.

Table Example. A.2 - APSH/WPSH Impact Assessment						
Window / Room Number	Baseline APSH/WPSH	Proposed APSH/WPSH	Ratio of Proposed to Baseline APSH/WPSH	Recommended Minimum APSH/WPSH	Level of Compliance with BRE Guidelines	Effect of Proposed Development
A	B	C	D	E	F	G

A: Window / Room Number

The number in this column will identify the assessed window / room. All windows / rooms are represented visually in the corresponding figure.

B: Baseline APSH/WPSH

The *Baseline APSH/WPSH Value* represents the percentage of the probable sunlight hours that the assessed window / room can receive, calculated in the existing baseline model state (as explained in the “Building the Model States” on page 11). The annual and winter assessments will be represented in separate tables.

C: Proposed APSH/WPSH

The *Proposed APSH/WPSH Value* represents the percentage of probable sunlight hours that the assessed window / room can receive, calculated in the proposed model state (as explained in the “Building the Model States” on page 11).

D: Ratio of Proposed to Baseline APSH/WPSH

This column expresses the ratio of change between the baseline APSH/WPSH value and the proposed APSH/WPSH value. Section 3.2.13 of the BRE Guidelines recommends that if the proposed value is less than 0.8 times the baseline value, then the reduction to sunlight is more likely to be perceptible.

E: Recommended Minimum APSH/WPSH

The *BRE Target Value* for each window / room has been set according to section 3.2.13 of the BRE Guidelines. The Guidelines state that a proposed development could possibly have a noticeable effect on the sunlight received by an existing window / room, if the APSH value drops below the annual (25%) or WPSH value below the winter (5%) guidelines; **and** the APSH/WPSH value is less than 0.8 times the baseline value; **and** there is a reduction of more than 4% to the APSH.

Therefore, to determine the *recommended minimum APSH Value* for the annual study, 80% of the *Baseline APSH value* has been calculated. If this value is above the 25% threshold, a target value of 25% will be applied. If 80% of the baseline value is below 25%, then 80% of the baseline value is the appropriate target value.

To determine the *recommended minimum WPSH Value* for the winter study, 80% of the *Baseline winter APSH value* has been calculated. If this value is above the 5% threshold, a target value of 5% will be applied. If 80% of the baseline value is below 5%, then 80% of the baseline value is the appropriate target value.

F: Level of Compliance with BRE Guidelines

This column states the compliance of the *Proposed APSH/WPSH Value* with the *recommended minimum APSH/WPSH* as per the BRE Guidelines. In essence, it shows whether or not the assessed window / room would experience a perceptible level of impact. If the window / room complies with the BRE Guidelines this cell will state “BRE Compliant”. If the window / room does not meet the criteria as set out in the BRE Guidelines, a percentage of compliance with the *recommended minimum* will be stated.

G: Effect of Proposed Development

The levels of effect in this column describe the effect an assessed window / room will experience, based on its compliance with the *BRE Target Value*. A full list of definitions and a numerical rationale for each can be found in the section “Definition of Effects” on page 170.

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

A.2.1 Unit 1, Swords Business Park, Swords - Annual Probable Sunlight Hours

Table No. A.2.1 - APSH Results:						
Window / Room Number	Baseline APSH	Proposed APSH	Ratio of Proposed APSH to Baseline APSH	Recommended minimum APSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
U1SBP0a#	92.16%	78.56%	0.85	25.00%	BRE Compliant	Negligible
U1SBP1a#	94.02%	82.68%	0.88	25.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.



Figure A.4: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2.2 Unit 9, Swords Business Park, Swords - Annual Probable Sunlight Hours

Table No. A.2.2 - APSH Results:						
Window / Room Number	Baseline APSH	Proposed APSH	Ratio of Proposed APSH to Baseline APSH	Recommended minimum APSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0d	87.74%	68.31%	0.78	25.00%	BRE Compliant	Negligible
SBP0e	87.74%	67.38%	0.77	25.00%	BRE Compliant	Negligible
SBP0f	87.61%	67.15%	0.77	25.00%	BRE Compliant	Negligible
SBP0g#	88.60%	72.27%	0.82	25.00%	BRE Compliant	Negligible
SBP1d	88.22%	70.72%	0.80	25.00%	BRE Compliant	Negligible
SBP1e	88.20%	70.86%	0.80	25.00%	BRE Compliant	Negligible
SBP1f	88.14%	70.63%	0.80	25.00%	BRE Compliant	Negligible
SBP1g	88.07%	71.34%	0.81	25.00%	BRE Compliant	Negligible
SBP1h#	91.55%	77.86%	0.85	25.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.



Figure A.5: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2.3 Unit J10, Swords Business Park, Swords - Annual Probable Sunlight Hours

Table No. A.2.3 - APSH Results:						
Window / Room Number	Baseline APSH	Proposed APSH	Ratio of Proposed APSH to Baseline APSH	Recommended minimum APSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0a#	39.50%	27.45%	0.70	25.00%	BRE Compliant	Negligible
SBP0b	84.28%	66.33%	0.79	25.00%	BRE Compliant	Negligible
SBP0c	87.27%	67.22%	0.77	25.00%	BRE Compliant	Negligible
SBP1a#	88.46%	74.47%	0.84	25.00%	BRE Compliant	Negligible
SBP1b	88.28%	72.58%	0.82	25.00%	BRE Compliant	Negligible
SBP1c	88.27%	70.48%	0.80	25.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.



Figure A.6: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2.4 Unit 1, Swords Business Park, Swords - Winter Probable Sunlight Hours

Table No. A.2.4 - WPSH Results:						
Window / Room Number	Baseline WPSH	Proposed WPSH	Ratio of Proposed WPSH to Baseline WPSH	Recommended minimum WPSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
U1SBP0a#	30.65%	17.05%	0.56	5.00%	BRE Compliant	Negligible
U1SBP1a#	31.16%	19.82%	0.64	5.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

† Windows that have a reduction of less than 4% in the APSH assessment may be indicated as "n.a." in the WPSH assessment regardless of values.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.



Figure A.7: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2.5 Unit 9, Swords Business Park, Swords - Winter Probable Sunlight Hours

Table No. A.2.5 - WPSH Results:						
Window / Room Number	Baseline WPSH	Proposed WPSH	Ratio of Proposed WPSH to Baseline WPSH	Recommended minimum WPSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0d	31.47%	12.05%	0.38	5.00%	BRE Compliant	Negligible
SBP0e	31.47%	11.11%	0.35	5.00%	BRE Compliant	Negligible
SBP0f	31.34%	10.88%	0.35	5.00%	BRE Compliant	Negligible
SBP0g#	31.18%	14.85%	0.48	5.00%	BRE Compliant	Negligible
SBP1d	31.81%	14.31%	0.45	5.00%	BRE Compliant	Negligible
SBP1e	31.79%	14.45%	0.45	5.00%	BRE Compliant	Negligible
SBP1f	31.73%	14.22%	0.45	5.00%	BRE Compliant	Negligible
SBP1g	31.66%	14.93%	0.47	5.00%	BRE Compliant	Negligible
SBP1h#	31.64%	17.95%	0.57	5.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

† Windows that have a reduction of less than 4% in the APSH assessment may be indicated as "n.a." in the WPSH assessment regardless of values.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.



Figure A.8: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

A.2.6 Unit J10, Swords Business Park, Swords - Winter Probable Sunlight Hours

Table No. A.2.6 - WPSH Results:						
Window / Room Number	Baseline WPSH	Proposed WPSH	Ratio of Proposed WPSH to Baseline WPSH	Recommended minimum WPSH*	Level of Compliance with BRE Guidelines	Effect of Proposed Development**
SBP0a#	19.44%	7.40%	0.38	5.00%	BRE Compliant	Negligible
SBP0b	30.18%	12.23%	0.41	5.00%	BRE Compliant	Negligible
SBP0c	31.40%	11.36%	0.36	5.00%	BRE Compliant	Negligible
SBP1a#	31.45%	17.47%	0.56	5.00%	BRE Compliant	Negligible
SBP1b	31.87%	16.17%	0.51	5.00%	BRE Compliant	Negligible
SBP1c	31.86%	14.07%	0.44	5.00%	BRE Compliant	Negligible

* Section 3.2 of the BRE Guidelines states that in order for a proposed development to have a noticeable effect on the APSH/WPSH of an existing window / room, the value needs to drop below the stated target value of 25% (annual) / 5% (winter) **and** be less than 0.8 times the baseline value **and** it has to have a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

** For the interpretation of level of effects please refer to "E.2 Definition of Effects" on page 170.

† Windows that have a reduction of less than 4% in the APSH assessment may be indicated as "n.a." in the WPSH assessment regardless of values.

If it can be determined or reasonably assumed that multiple windows are servicing the same room, APSH/WPSH has been calculated for the room rather than the individual windows.

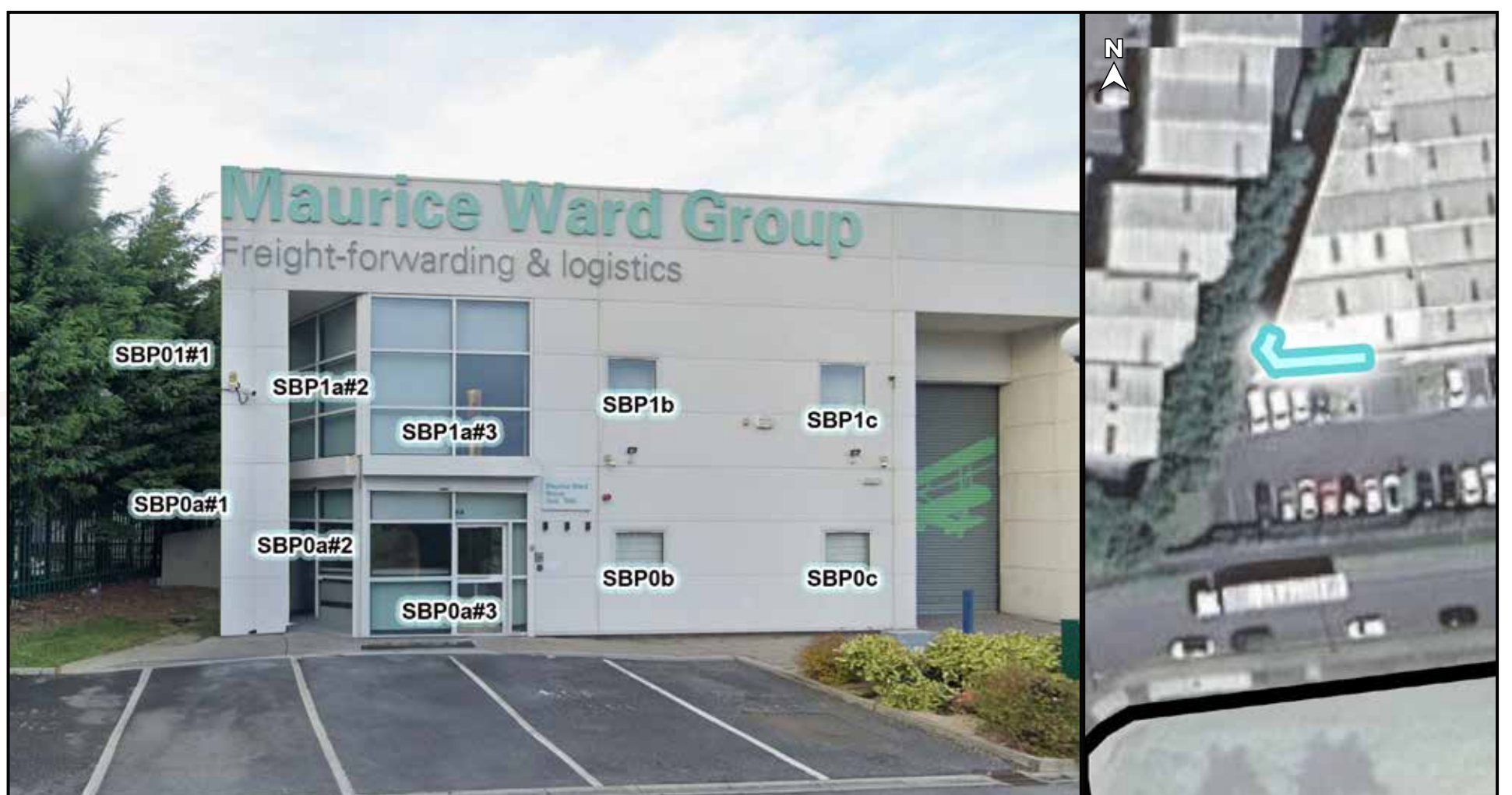


Figure A.9: Highlighted areas indicate the position of assessed windows (L), Aerial view of assessed location (R)

Baseline		Proposed	
March 21st 7:00			
B.0 B.1	Shadow Studies Shadow Study 21 March	Project: Large-Scale Residential Development Greenfields Swords	Proposed
March 21st Sunrise 6:31 Sunset 18:33		Applicant: Jackie Greene Construction Limited	

z	Baseline	Proposed
March 21st 15:00		
March 21st 16:00		
March 21st 17:00		
March 21st 18:00		

	Project: Large-Scale Residential Development Greenfields Swords	Proposed
March 21st Sunrise 6:31 Sunset 18:33	Applicant: Jackie Greene Construction Limited	3D DESIGN BUREAU

z	Baseline	Proposed
June 21st 6:00		
June 21st 7:00		
June 21st 8:00		
June 21st 9:00		



Baseline

Proposed

June 21st 10:00



June 21st 11:00



June 21st 12:00



June 21st 13:00



Project: Large-Scale Residential Development Greenfields Swords

Proposed

June 21st
Sunrise 5:03 | Sunset 21:50

Applicant: Jackie Greene Construction Limited



Baseline		Proposed	
June 21st 14:00			
June 21st 15:00			
June 21st 16:00			
June 21st 17:00			
Project: Large-Scale Residential Development Greenfields Swords		Proposed	
June 21st Sunrise 5:03 Sunset 21:50		Applicant: Jackie Greene Construction Limited	

Baseline

Proposed

June 21st 18:00



June 21st 19:00

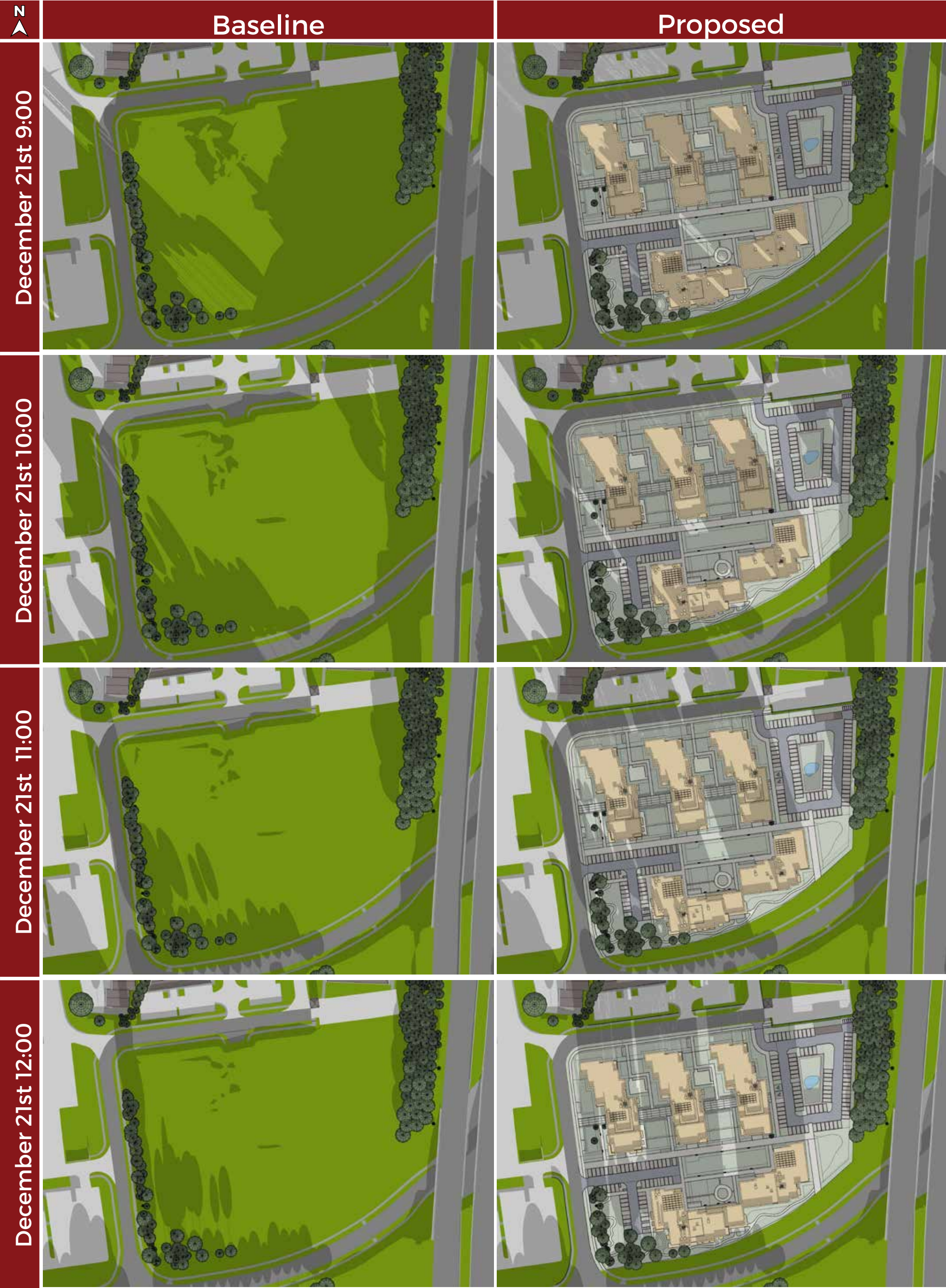


June 21st 20:00



June 21st 21:00





C.0 Scheme Performance

C.1 Proposed Apartment Floor Plans

C.1.1 Proposed Apartment Floor Plans - Block A

Figure C.1: Block A - Site Location



Figure C.2: Block A - Ground Floor



Figure C.3: Block A - First Floor



Figure C.4: Block A - Second Floor



Figure C.5: Block A - Third Floor



Figure C.6: Block A - Fourth Floor



Figure C.7: Block A - Fifth Floor



Figure C.8: Block A - Sixth Floor



C.1.2 Proposed Apartment Floor Plans - Block B

Figure C.9: Block B - Site Location



Figure C.10: Block B - Ground Floor



Figure C.11: Block B - First Floor



Figure C.12: Block B - Second Floor



Figure C.13: Block B - Third Floor



Figure C.14: Block B - Fourth Floor



Figure C.15: Block B - Fifth Floor



Figure C.16: Block B - Sixth Floor



C.1.3 Proposed Apartment Floor Plans - Block C

Figure C.17: Block C - Site Location

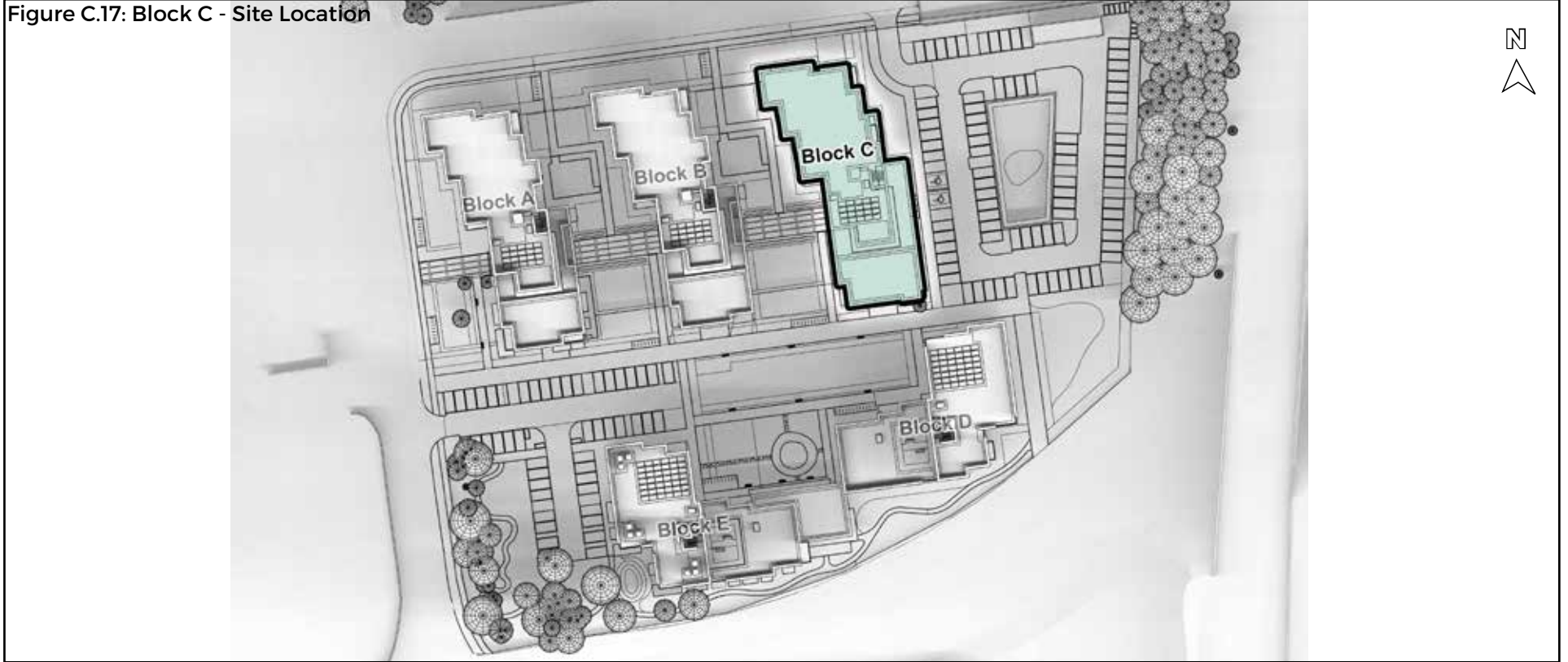


Figure C.18: Block C - Ground Floor



Figure C.19: Block C - First Floor



Figure C.20: Block C - Second Floor



Figure C.21: Block C - Third Floor



Figure C.22: Block C - Fourth Floor



Figure C.23: Block C - Fifth Floor



Figure C.24: Block C - Sixth Floor



C.1.4 Proposed Apartment Floor Plans - Block D

Figure C.25: Block D - Site Location

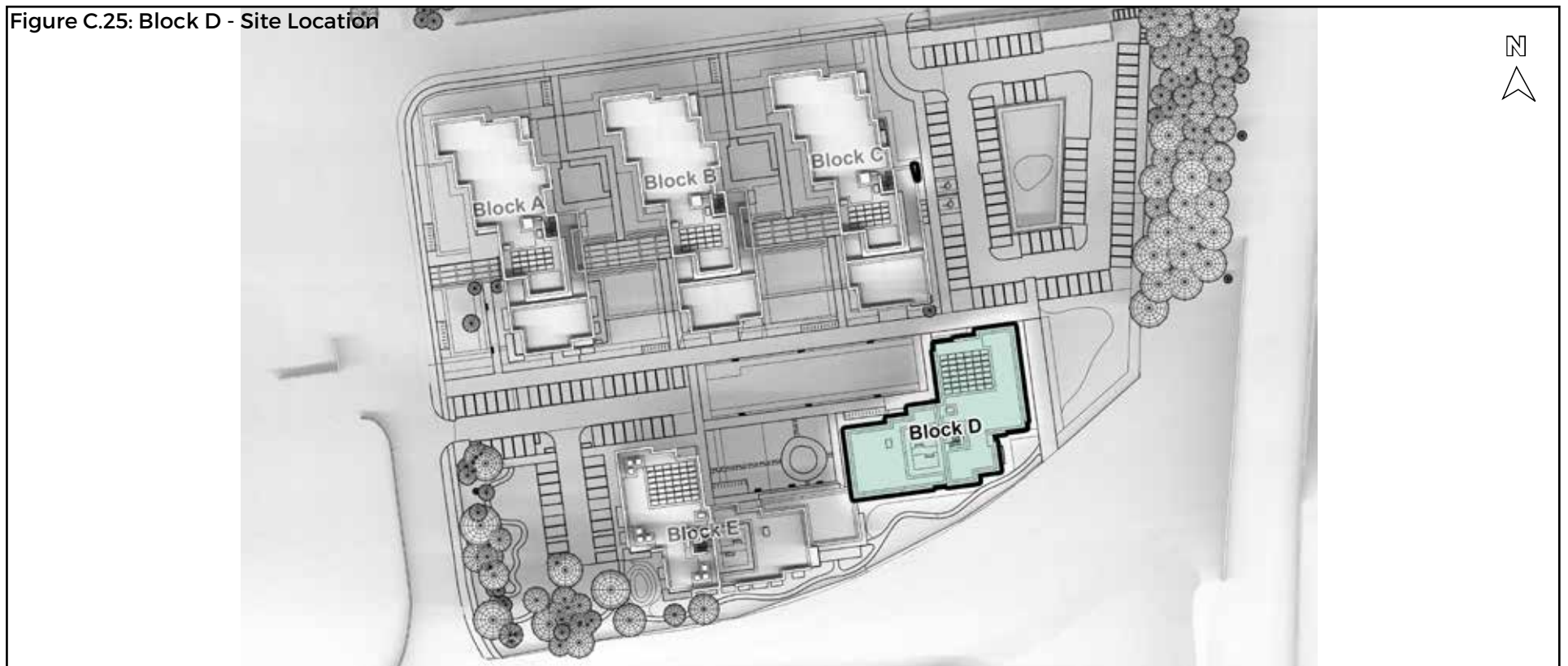


Figure C.26: Block D - Ground Floor



Figure C.27: Block D - First Floor



Figure C.28: Block D - Second Floor



Figure C.29: Block D - Third Floor



Figure C.30: Block D - Fourth Floor



Figure C.31: Block D - Fifth Floor



Figure C.32: Block D - Sixth Floor



Figure C.33: Block D - Seventh Floor



Figure C.34: Block D - Eighth Floor



C.1.5 Proposed Apartment Floor Plans - Block E

Figure C.35: Block E - Site Location



Figure C.36: Block E - First Floor



Figure C.37: Block E - Second Floor



Note: No ground floor plan as it's commercial.

Figure C.38: Block E - Third Floor



Figure C.39: Block E - Fourth Floor



Figure C.40: Block E - Fifth Floor



Figure C.41: Block E - Sixth Floor



Figure C.42: Block E - Seventh Floor



Figure C.43: Block E - Eighth Floor



C.2 Spatial Daylight Autonomy (SDA) in Proposed Units

Below is an example of the table used to describe the spatial daylight autonomy results in proposed units.

Table Example. C.2 - Scheme Performance SDA					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria
			Without Trees	With Trees	
A	B	C	D	E	F

A: Unit Number

This column identifies the assessed unit. All unit numbers are determined by the architect's drawings, unless otherwise stated.

B: Room Description

Room Description details which room in the unit has been assessed, e.g. bedroom, LKD, etc.

C: Target Lux

Under BRE 209 the appropriate target lux levels to be achieved across 50% of the working plane of a room differ depending on the room type. Kitchens have a target lux of 200, living rooms have a target lux of 150 and bedrooms have a target lux of 100. In a room providing more than one function, such as an LKD, the higher target value should be taken i.e. 200 Lux.

D: % of area above target Lux (Without Trees)

BRE 209 recommends target lux levels to be achieved across at least 50% of the working plane for at least half the daylight hours. The target values differ depending on the room function, 200 lux for Kitchens, 150 lux for Living Rooms or 100 lux for Bedrooms.

This column states percentage of the working plane of the assessed room that is capable of receiving more than the appropriate target lux for at least half the daylight hours with trees excluded from the analytical model. The figures shown in this column should be considered part of a supplementary study that helps identify if trees are having an effect on daylight within the proposed units.

E: % of area above target Lux (With Trees)

BRE 209 recommends target lux levels to be achieved across at least 50% of the working plane for at least half the daylight hours. The target values differ depending on the room function, 200 lux for Kitchens, 150 lux for Living Rooms or 100 lux for Bedrooms.

This column states percentage of the working plane of the assessed room that is capable of receiving more than the appropriate target lux for at least half the daylight hours with the foliage of deciduous trees varied to account for summer and winter conditions, i.e. full leaf and bare branch.

F: Compliance with BRE 209 Criteria

This column states if the assessed room achieves the recommended level of daylight as per BRE 209 with consideration to the various tree states.

If the target lux level is achieved across more than 50% of the working plane, for half the daylight hours, both with and without trees, this column will state: *'Compliant'*.

If the target lux level is not achieved across more than 50% of the working plane, for half the daylight hours, both with and without trees, this column will state: *'Non-compliant'*.

If the target lux level is achieved across more than 50% of the working plane, for half the daylight hours, without trees but is not achieved with trees, this column will state: *'Trees affecting compliance'*.

Compliance rates will be stated for SDA, both with and without trees.

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

C.2.1 SDA Results: Block A

Table No. C.2.1 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
Creche	Classroom 0	200	100%	100%	Compliant
Creche	Office	200	100%	100%	Compliant
Creche	Play Area	150	99%	94%	Compliant
Creche	Sleeping Area	100	100%	100%	Compliant
Creche	Staff Room/ Kitchen	200	10%	10%	Non-compliant
Creche	Classroom 1	200	100%	100%	Compliant
Creche	Classroom 2	200	98%	41%	Trees affecting compliance
Creche	Classroom 3	200	8%	8%	Non-compliant
Creche	Classroom 4	200	100%	84%	Compliant
A01	LKD	200	100%	100%	Compliant
A01	Bed 1	100	100%	100%	Compliant
A01	Bed 2	100	100%	100%	Compliant
A02	LKD	200	96%	85%	Compliant
A02	Bed 1	100	44%	41%	Non-compliant
A02	Bed 2	100	72%	67%	Compliant
A03	LKD	200	95%	58%	Compliant
A03	Bed 1	100	100%	100%	Compliant
A03	Bed 2	100	100%	100%	Compliant
A04	LKD	200	97%	58%	Compliant
A04	Bed 1	100	100%	15%	Trees affecting compliance
A05	LKD	200	100%	100%	Compliant
A05	Bed 1	100	100%	100%	Compliant
A05	Bed 2	100	100%	100%	Compliant
A06	LKD	200	99%	98%	Compliant
A06	Bed 1	100	59%	58%	Compliant
A06	Bed 2	100	98%	97%	Compliant
A07	LKD	200	45%	41%	Non-compliant
A07	Bed 1	100	4%	1%	Non-compliant
A07	Bed 2	100	9%	7%	Non-compliant
A08	LKD	200	41%	40%	Non-compliant
A08	Bed 1	100	100%	95%	Compliant
A09	LKD	200	58%	42%	Trees affecting compliance
A09	Bed 1	100	93%	86%	Compliant
A09	Bed 2	100	100%	93%	Compliant
A10	LKD	200	100%	72%	Compliant
A10	Bed 1	100	100%	100%	Compliant
A10	Bed 2	100	100%	100%	Compliant
A11	LKD	200	100%	65%	Compliant
A11	Bed 1	100	100%	28%	Trees affecting compliance

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.2 SDA Results: Block A

Table No. C.2.2 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
A12	LKD	200	100%	100%	Compliant
A12	Bed 1	100	100%	100%	Compliant
A12	Bed 2	100	100%	100%	Compliant
A13	LKD	200	100%	99%	Compliant
A13	Bed 1	100	71%	70%	Compliant
A13	Bed 2	100	100%	100%	Compliant
A14	LKD	200	52%	48%	Trees affecting compliance
A14	Bed 1	100	9%	8%	Non-compliant
A14	Bed 2	100	22%	20%	Non-compliant
A15	LKD	200	55%	54%	Compliant
A15	Bed 1	100	55%	51%	Compliant
A16	LKD	200	45%	42%	Non-compliant
A16	Bed 1	100	55%	53%	Compliant
A16	Bed 2	100	45%	40%	Non-compliant
A17	LKD	200	100%	100%	Compliant
A17	Bed 1	100	100%	99%	Compliant
A17	Bed 2	100	100%	100%	Compliant
A18	LKD	200	100%	100%	Compliant
A18	Bed 1	100	100%	100%	Compliant
A18	Bed 2	100	100%	100%	Compliant
A19	LKD	200	48%	25%	Non-compliant
A19	Bed 1	100	100%	100%	Compliant
A19	Bed 2	100	100%	100%	Compliant
A20	LKD	200	100%	92%	Compliant
A20	Bed 1	100	100%	100%	Compliant
A20	Bed 2	100	100%	100%	Compliant
A21	LKD	200	100%	93%	Compliant
A21	Bed 1	100	100%	63%	Compliant
A22	LKD	200	100%	100%	Compliant
A22	Bed 1	100	100%	100%	Compliant
A22	Bed 2	100	100%	100%	Compliant
A23	LKD	200	100%	100%	Compliant
A23	Bed 1	100	81%	81%	Compliant
A23	Bed 2	100	100%	100%	Compliant
A24	LKD	200	60%	58%	Compliant
A24	Bed 1	100	26%	26%	Non-compliant
A24	Bed 2	100	50%	47%	Trees affecting compliance
A25	LKD	200	58%	58%	Compliant
A25	Bed 1	100	90%	81%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.3 SDA Results: Block A

Table No. C.2.3 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
A26	LKD	200	50%	46%	Trees affecting compliance
A26	Bed 1	100	83%	81%	Compliant
A26	Bed 2	100	80%	78%	Compliant
A27	LKD	200	100%	100%	Compliant
A27	Bed 1	100	100%	100%	Compliant
A27	Bed 2	100	100%	100%	Compliant
A28	LKD	200	100%	100%	Compliant
A28	Bed 1	100	100%	100%	Compliant
A28	Bed 2	100	100%	100%	Compliant
A29	LKD	200	60%	37%	Trees affecting compliance
A29	Bed 1	100	100%	100%	Compliant
A29	Bed 2	100	100%	100%	Compliant
A30	LKD	200	100%	100%	Compliant
A30	Bed 1	100	100%	100%	Compliant
A30	Bed 2	100	100%	100%	Compliant
A31	LKD	200	100%	99%	Compliant
A31	Bed 1	100	100%	100%	Compliant
A32	LKD	200	100%	100%	Compliant
A32	Bed 1	100	100%	100%	Compliant
A32	Bed 2	100	100%	100%	Compliant
A33	LKD	200	100%	100%	Compliant
A33	Bed 1	100	88%	88%	Compliant
A33	Bed 2	100	100%	100%	Compliant
A34	LKD	200	66%	65%	Compliant
A34	Bed 1	100	54%	53%	Compliant
A34	Bed 2	100	91%	89%	Compliant
A35	LKD	200	64%	63%	Compliant
A35	Bed 1	100	100%	100%	Compliant
A36	LKD	200	68%	67%	Compliant
A36	Bed 1	100	97%	97%	Compliant
A36	Bed 2	100	100%	100%	Compliant
A37	LKD	200	100%	100%	Compliant
A37	Bed 1	100	100%	100%	Compliant
A37	Bed 2	100	100%	100%	Compliant
A38	LKD	200	100%	100%	Compliant
A38	Bed 1	100	100%	100%	Compliant
A38	Bed 2	100	100%	100%	Compliant
A39	LKD	200	62%	41%	Trees affecting compliance
A39	Bed 1	100	100%	100%	Compliant
A39	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.4 SDA Results: Block A

Table No. C.2.4 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
A40	LKD	200	100%	100%	Compliant
A40	Bed 1	100	100%	100%	Compliant
A40	Bed 2	100	100%	100%	Compliant
A41	LKD	200	100%	99%	Compliant
A41	Bed 1	100	100%	100%	Compliant
A42	LKD	200	100%	100%	Compliant
A42	Bed 1	100	100%	100%	Compliant
A42	Bed 2	100	100%	100%	Compliant
A43	LKD	200	100%	100%	Compliant
A43	Bed 1	100	100%	100%	Compliant
A43	Bed 2	100	100%	100%	Compliant
A44	LKD	200	81%	81%	Compliant
A44	Bed 1	100	87%	87%	Compliant
A44	Bed 2	100	100%	100%	Compliant
A45	LKD	200	74%	73%	Compliant
A45	Bed 1	100	100%	100%	Compliant
A46	LKD	200	82%	80%	Compliant
A46	Bed 1	100	100%	100%	Compliant
A46	Bed 2	100	100%	100%	Compliant
A47	LKD	200	100%	100%	Compliant
A47	Bed 1	100	100%	100%	Compliant
A47	Bed 2	100	100%	100%	Compliant
A48	LKD	200	100%	100%	Compliant
A48	Bed 1	100	100%	100%	Compliant
A48	Bed 2	100	100%	100%	Compliant
A49	LKD	200	63%	47%	Trees affecting compliance
A49	Bed 1	100	100%	100%	Compliant
A49	Bed 2	100	100%	100%	Compliant
A50	LKD	200	100%	100%	Compliant
A50	Bed 1	100	100%	100%	Compliant
A50	Bed 2	100	100%	100%	Compliant
A51	LKD	200	100%	100%	Compliant
A51	Bed 1	100	100%	100%	Compliant
A52	LKD	200	100%	100%	Compliant
A52	Bed 1	100	100%	100%	Compliant
A52	Bed 2	100	100%	100%	Compliant
A53	LKD	200	100%	100%	Compliant
A53	Bed 1	100	100%	100%	Compliant
A53	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.5 SDA Results: Block A

Table No. C.2.5 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
A54	LKD	200	99%	99%	Compliant
A54	Bed 1	100	100%	100%	Compliant
A54	Bed 2	100	100%	100%	Compliant
A55	LKD	200	100%	100%	Compliant
A55	Bed 1	100	100%	100%	Compliant
A56	LKD	200	100%	100%	Compliant
A56	BED 1	100	100%	100%	Compliant
A57	LKD	200	100%	100%	Compliant
A57	Bed 1	100	100%	100%	Compliant
A57	Bed 2	100	100%	100%	Compliant
A58	LKD	200	100%	100%	Compliant
A58	Bed 1	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.6 SDA Results: Block B

Table No. C.2.6 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
B01	LKD	200	100%	89%	Compliant
B01	Bed 1	100	100%	100%	Compliant
B01	Bed 2	100	100%	100%	Compliant
B02	LKD	200	87%	72%	Compliant
B02	Bed 1	100	44%	43%	Non-compliant
B02	Bed 2	100	70%	63%	Compliant
B03	LKD	200	75%	61%	Compliant
B03	Bed 1	100	59%	59%	Compliant
B03	Bed 2	100	37%	35%	Non-compliant
B04	LKD	200	100%	93%	Compliant
B04	Bed 1	100	100%	97%	Compliant
B04	Bed 2	100	100%	100%	Compliant
B05	LKD	200	63%	50%	Compliant
B05	Bed 1	100	22%	22%	Non-compliant
B05	Bed 2	100	52%	42%	Trees affecting compliance
B06	LKD	200	22%	17%	Non-compliant
B06	Bed 1	100	0%	0%	Non-compliant
B07	LKD	200	100%	100%	Compliant
B07	Bed 1	100	100%	100%	Compliant
B07	Bed 2	100	100%	100%	Compliant
B08	LKD	200	99%	99%	Compliant
B08	Bed 1	100	62%	61%	Compliant
B08	Bed 2	100	98%	97%	Compliant
B09	LKD	200	45%	42%	Non-compliant
B09	Bed 1	100	2%	0%	Non-compliant
B09	Bed 2	100	4%	3%	Non-compliant
B10	LKD	200	42%	42%	Non-compliant
B10	Bed 1	100	100%	98%	Compliant
B11	LKD	200	22%	19%	Non-compliant
B11	Bed 1	100	77%	73%	Compliant
B11	Bed 2	100	88%	80%	Compliant
B12	LKD	200	100%	100%	Compliant
B12	Bed 1	100	78%	74%	Compliant
B12	Bed 2	100	65%	62%	Compliant
B13	LKD	200	100%	100%	Compliant
B13	Bed 1	100	100%	100%	Compliant
B13	Bed 2	100	100%	100%	Compliant
B14	LKD	200	66%	64%	Compliant
B14	Bed 1	100	40%	32%	Non-compliant
B14	Bed 2	100	68%	59%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.7 SDA Results: Block B

Table No. C.2.7 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
B15	LKD	200	26%	24%	Non-compliant
B15	Bed 1	100	0%	0%	Non-compliant
B16	LKD	200	100%	100%	Compliant
B16	Bed 1	100	100%	100%	Compliant
B16	Bed 2	100	100%	100%	Compliant
B17	LKD	200	100%	100%	Compliant
B17	Bed 1	100	75%	75%	Compliant
B17	Bed 2	100	100%	100%	Compliant
B18	LKD	200	52%	50%	Compliant
B18	Bed 1	100	9%	9%	Non-compliant
B18	Bed 2	100	13%	13%	Non-compliant
B19	LKD	200	56%	55%	Compliant
B19	Bed 1	100	40%	39%	Non-compliant
B20	LKD	200	35%	33%	Non-compliant
B20	Bed 1	100	48%	47%	Non-compliant
B20	Bed 2	100	26%	25%	Non-compliant
B21	LKD	200	100%	100%	Compliant
B21	Bed 1	100	83%	82%	Compliant
B21	Bed 2	100	95%	95%	Compliant
B22	LKD	200	100%	100%	Compliant
B22	Bed 1	100	100%	100%	Compliant
B22	Bed 2	100	100%	100%	Compliant
B23	LKD	200	54%	47%	Trees affecting compliance
B23	Bed 1	100	63%	52%	Compliant
B23	Bed 2	100	44%	42%	Non-compliant
B24	LKD	200	68%	67%	Compliant
B24	Bed 1	100	53%	50%	Compliant
B24	Bed 2	100	72%	69%	Compliant
B25	LKD	200	32%	28%	Non-compliant
B25	Bed 1	100	8%	8%	Non-compliant
B26	LKD	200	100%	100%	Compliant
B26	Bed 1	100	100%	100%	Compliant
B26	Bed 2	100	100%	100%	Compliant
B27	LKD	200	100%	100%	Compliant
B27	Bed 1	100	83%	83%	Compliant
B27	Bed 2	100	100%	100%	Compliant
B28	LKD	200	58%	57%	Compliant
B28	Bed 1	100	31%	31%	Non-compliant
B28	Bed 2	100	33%	33%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.8 SDA Results: Block B

Table No. C.2.8 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
B29	LKD	200	59%	59%	Compliant
B29	Bed 1	100	74%	72%	Compliant
B30	LKD	200	45%	44%	Non-compliant
B30	Bed 1	100	80%	80%	Compliant
B30	Bed 2	100	60%	58%	Compliant
B31	LKD	200	100%	100%	Compliant
B31	Bed 1	100	100%	99%	Compliant
B31	Bed 2	100	100%	100%	Compliant
B32	LKD	200	100%	100%	Compliant
B32	Bed 1	100	100%	100%	Compliant
B32	Bed 2	100	100%	100%	Compliant
B33	LKD	200	59%	53%	Compliant
B33	Bed 1	100	89%	84%	Compliant
B33	Bed 2	100	76%	76%	Compliant
B34	LKD	200	71%	71%	Compliant
B34	Bed 1	100	73%	70%	Compliant
B34	Bed 2	100	77%	75%	Compliant
B35	LKD	200	40%	39%	Non-compliant
B35	Bed 1	100	33%	32%	Non-compliant
B36	LKD	200	100%	100%	Compliant
B36	Bed 1	100	100%	100%	Compliant
B36	Bed 2	100	100%	100%	Compliant
B37	LKD	200	100%	100%	Compliant
B37	Bed 1	100	96%	94%	Compliant
B37	Bed 2	100	100%	100%	Compliant
B38	LKD	200	65%	64%	Compliant
B38	Bed 1	100	61%	61%	Compliant
B38	Bed 2	100	75%	75%	Compliant
B39	LKD	200	63%	63%	Compliant
B39	Bed 1	100	100%	100%	Compliant
B40	LKD	200	56%	55%	Compliant
B40	Bed 1	100	98%	98%	Compliant
B40	Bed 2	100	96%	96%	Compliant
B41	LKD	200	100%	100%	Compliant
B41	Bed 1	100	100%	100%	Compliant
B41	Bed 2	100	100%	100%	Compliant
B42	LKD	200	100%	100%	Compliant
B42	Bed 1	100	100%	100%	Compliant
B42	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.9 SDA Results: Block B

Table No. C.2.9 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
B43	LKD	200	75%	69%	Compliant
B43	Bed 1	100	100%	100%	Compliant
B43	Bed 2	100	100%	100%	Compliant
B44	LKD	200	76%	76%	Compliant
B44	Bed 1	100	88%	84%	Compliant
B44	Bed 2	100	83%	80%	Compliant
B45	LKD	200	46%	46%	Non-compliant
B45	Bed 1	100	69%	67%	Compliant
B46	LKD	200	100%	100%	Compliant
B46	Bed 1	100	100%	100%	Compliant
B46	Bed 2	100	100%	100%	Compliant
B47	LKD	200	100%	100%	Compliant
B47	Bed 1	100	100%	100%	Compliant
B47	Bed 2	100	100%	100%	Compliant
B48	LKD	200	80%	80%	Compliant
B48	Bed 1	100	94%	94%	Compliant
B48	Bed 2	100	99%	99%	Compliant
B49	LKD	200	74%	73%	Compliant
B49	Bed 1	100	100%	100%	Compliant
B50	LKD	200	77%	76%	Compliant
B50	Bed 1	100	100%	100%	Compliant
B50	Bed 2	100	100%	100%	Compliant
B51	LKD	200	100%	100%	Compliant
B51	Bed 1	100	100%	100%	Compliant
B51	Bed 2	100	100%	100%	Compliant
B52	LKD	200	100%	100%	Compliant
B52	Bed 1	100	100%	100%	Compliant
B52	Bed 2	100	100%	100%	Compliant
B53	LKD	200	95%	91%	Compliant
B53	Bed 1	100	100%	100%	Compliant
B53	Bed 2	100	100%	100%	Compliant
B54	LKD	200	88%	86%	Compliant
B54	Bed 1	100	100%	100%	Compliant
B54	Bed 2	100	96%	96%	Compliant
B55	LKD	200	60%	59%	Compliant
B55	Bed 1	100	100%	100%	Compliant
B56	LKD	200	100%	100%	Compliant
B56	Bed 1	100	100%	100%	Compliant
B56	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.10 SDA Results: Block B

Table No. C.2.10 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
B57	LKD	200	100%	100%	Compliant
B57	Bed 1	100	100%	100%	Compliant
B57	Bed 2	100	100%	100%	Compliant
B58	LKD	200	99%	99%	Compliant
B58	Bed 1	100	100%	100%	Compliant
B58	Bed 2	100	100%	100%	Compliant
B59	LKD	200	100%	100%	Compliant
B59	Bed 1	100	100%	100%	Compliant
B59	Bed 2	100	100%	100%	Compliant
B59	Bed 3	100	100%	100%	Compliant
B60	LKD	200	100%	100%	Compliant
B60	Bed 1	100	100%	100%	Compliant
B60	Bed 2	100	100%	100%	Compliant
B61	LKD	200	79%	79%	Compliant
B61	Bed 1	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.11 SDA Results: Block C

Table No. C.2.11 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
C01	LKD	200	100%	93%	Compliant
C01	Bed 1	100	100%	100%	Compliant
C01	Bed 2	100	100%	100%	Compliant
C02	LKD	200	100%	95%	Compliant
C02	Bed 1	100	100%	100%	Compliant
C02	Bed 2	100	100%	100%	Compliant
C03	LKD	200	59%	48%	Trees affecting compliance
C03	Bed 1	100	100%	100%	Compliant
C03	Bed 2	100	100%	100%	Compliant
C04	LKD	200	97%	72%	Compliant
C04	Bed 1	100	89%	83%	Compliant
C04	Bed 2	100	100%	100%	Compliant
C05	LKD	200	61%	55%	Compliant
C05	Bed 1	100	22%	22%	Non-compliant
C05	Bed 2	100	44%	39%	Non-compliant
C06	LKD	200	23%	21%	Non-compliant
C06	Bed 1	100	0%	0%	Non-compliant
C07	LKD	200	100%	100%	Compliant
C07	Bed 1	100	100%	100%	Compliant
C07	Bed 2	100	100%	100%	Compliant
C08	LKD	200	100%	100%	Compliant
C08	Bed 1	100	100%	100%	Compliant
C08	Bed 2	100	100%	100%	Compliant
C09	LKD	200	94%	68%	Compliant
C09	Bed 1	100	100%	100%	Compliant
C09	Bed 2	100	100%	100%	Compliant
C10	LKD	200	100%	91%	Compliant
C10	Bed 1	100	100%	100%	Compliant
C11	LKD	200	20%	18%	Non-compliant
C11	Bed 1	100	100%	100%	Compliant
C11	Bed 2	100	100%	100%	Compliant
C12	LKD	200	99%	90%	Compliant
C12	Bed 1	100	100%	100%	Compliant
C12	Bed 2	100	100%	100%	Compliant
C13	LKD	200	100%	100%	Compliant
C13	Bed 1	100	100%	97%	Compliant
C13	Bed 2	100	100%	100%	Compliant
C14	LKD	200	65%	64%	Compliant
C14	Bed 1	100	36%	36%	Non-compliant
C14	Bed 2	100	67%	64%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.12 SDA Results: Block C

Table No. C.2.12 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
C15	LKD	200	27%	26%	Non-compliant
C15	Bed 1	100	0%	0%	Non-compliant
C16	LKD	200	100%	100%	Compliant
C16	Bed 1	100	100%	100%	Compliant
C16	Bed 2	100	100%	100%	Compliant
C17	LKD	200	100%	100%	Compliant
C17	Bed 1	100	100%	100%	Compliant
C17	Bed 2	100	100%	100%	Compliant
C18	LKD	200	100%	97%	Compliant
C18	Bed 1	100	100%	100%	Compliant
C18	Bed 2	100	100%	100%	Compliant
C19	LKD	200	100%	99%	Compliant
C19	Bed 1	100	100%	100%	Compliant
C20	LKD	200	54%	43%	Trees affecting compliance
C20	Bed 1	100	100%	100%	Compliant
C20	Bed 2	100	100%	100%	Compliant
C21	LKD	200	99%	92%	Compliant
C21	Bed 1	100	100%	100%	Compliant
C21	Bed 2	100	100%	100%	Compliant
C22	LKD	200	100%	100%	Compliant
C22	Bed 1	100	97%	94%	Compliant
C22	Bed 2	100	100%	100%	Compliant
C23	LKD	200	39%	38%	Non-compliant
C23	Bed 1	100	45%	44%	Non-compliant
C23	Bed 2	100	44%	44%	Non-compliant
C24	LKD	200	68%	67%	Compliant
C24	Bed 1	100	52%	50%	Compliant
C24	Bed 2	100	72%	69%	Compliant
C25	LKD	200	32%	32%	Non-compliant
C25	Bed 1	100	9%	8%	Non-compliant
C26	LKD	200	100%	100%	Compliant
C26	Bed 1	100	100%	100%	Compliant
C26	Bed 2	100	100%	100%	Compliant
C27	LKD	200	100%	100%	Compliant
C27	Bed 1	100	100%	100%	Compliant
C27	Bed 2	100	100%	100%	Compliant
C28	LKD	200	98%	94%	Compliant
C28	Bed 1	100	100%	100%	Compliant
C28	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.13 SDA Results: Block C

Table No. C.2.13 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
C29	LKD	200	100%	100%	Compliant
C29	Bed 1	100	100%	100%	Compliant
C30	LKD	200	58%	47%	Trees affecting compliance
C30	Bed 1	100	100%	100%	Compliant
C30	Bed 2	100	100%	100%	Compliant
C31	LKD	200	100%	100%	Compliant
C31	Bed 1	100	100%	100%	Compliant
C31	Bed 2	100	100%	100%	Compliant
C32	LKD	200	100%	100%	Compliant
C32	Bed 1	100	100%	100%	Compliant
C32	Bed 2	100	100%	100%	Compliant
C33	LKD	200	50%	48%	Trees affecting compliance
C33	Bed 1	100	81%	81%	Compliant
C33	Bed 2	100	76%	76%	Compliant
C34	LKD	200	70%	70%	Compliant
C34	Bed 1	100	73%	73%	Compliant
C34	Bed 2	100	76%	76%	Compliant
C35	LKD	200	41%	39%	Non-compliant
C35	Bed 1	100	36%	36%	Non-compliant
C36	LKD	200	100%	100%	Compliant
C36	Bed 1	100	100%	100%	Compliant
C36	Bed 2	100	100%	100%	Compliant
C37	LKD	200	100%	100%	Compliant
C37	Bed 1	100	100%	100%	Compliant
C37	Bed 2	100	100%	100%	Compliant
C38	LKD	200	100%	99%	Compliant
C38	Bed 1	100	100%	100%	Compliant
C38	Bed 2	100	100%	100%	Compliant
C39	LKD	200	100%	100%	Compliant
C39	Bed 1	100	100%	100%	Compliant
C40	LKD	200	63%	50%	Compliant
C40	Bed 1	100	100%	100%	Compliant
C40	Bed 2	100	100%	100%	Compliant
C41	LKD	200	100%	100%	Compliant
C41	Bed 1	100	100%	100%	Compliant
C41	Bed 2	100	100%	100%	Compliant
C42	LKD	200	100%	100%	Compliant
C42	Bed 1	100	100%	100%	Compliant
C42	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.14 SDA Results: Block C

Table No. C.2.14 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
C43	LKD	200	63%	63%	Compliant
C43	Bed 1	100	100%	100%	Compliant
C43	Bed 2	100	100%	100%	Compliant
C44	LKD	200	76%	76%	Compliant
C44	Bed 1	100	90%	90%	Compliant
C44	Bed 2	100	81%	81%	Compliant
C45	LKD	200	47%	47%	Non-compliant
C45	Bed 1	100	78%	78%	Compliant
C46	LKD	200	100%	100%	Compliant
C46	Bed 1	100	100%	100%	Compliant
C46	Bed 2	100	100%	100%	Compliant
C47	LKD	200	100%	100%	Compliant
C47	Bed 1	100	100%	100%	Compliant
C47	Bed 2	100	100%	100%	Compliant
C48	LKD	200	99%	96%	Compliant
C48	Bed 1	100	100%	100%	Compliant
C48	Bed 2	100	100%	100%	Compliant
C49	LKD	200	100%	100%	Compliant
C49	Bed 1	100	100%	100%	Compliant
C50	LKD	200	61%	48%	Trees affecting compliance
C50	Bed 1	100	100%	100%	Compliant
C50	Bed 2	100	100%	100%	Compliant
C51	LKD	200	100%	100%	Compliant
C51	Bed 1	100	100%	100%	Compliant
C51	Bed 2	100	100%	100%	Compliant
C52	LKD	200	100%	100%	Compliant
C52	Bed 1	100	100%	100%	Compliant
C52	Bed 2	100	100%	100%	Compliant
C53	LKD	200	94%	94%	Compliant
C53	Bed 1	100	100%	100%	Compliant
C53	Bed 2	100	100%	100%	Compliant
C54	LKD	200	88%	88%	Compliant
C54	Bed 1	100	100%	100%	Compliant
C54	Bed 2	100	96%	96%	Compliant
C55	LKD	200	63%	62%	Compliant
C55	Bed 1	100	100%	100%	Compliant
C56	LKD	200	100%	100%	Compliant
C56	Bed 1	100	100%	100%	Compliant
C56	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.15 SDA Results: Block C

Table No. C.2.15 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
C57	LKD	200	100%	100%	Compliant
C57	Bed 1	100	100%	100%	Compliant
C57	Bed 2	100	100%	100%	Compliant
C58	LKD	200	100%	100%	Compliant
C58	Bed 1	100	100%	100%	Compliant
C58	Bed 2	100	100%	100%	Compliant
C59	LKD	200	100%	100%	Compliant
C59	Bed 1	100	100%	100%	Compliant
C59	Bed 2	100	100%	100%	Compliant
C59	Bed 3	100	100%	100%	Compliant
C60	LKD	200	100%	100%	Compliant
C60	Bed 1	100	100%	100%	Compliant
C60	Bed 2	100	100%	100%	Compliant
C61	LKD	200	81%	80%	Compliant
C61	Bed 1	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.16 SDA Results: Block D

Table No. C.2.16 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
D01	LKD	200	100%	95%	Compliant
D01	Bed 1	100	100%	100%	Compliant
D01	Bed 2	100	100%	100%	Compliant
D02	LKD	200	76%	60%	Compliant
D02	Bed 1	100	100%	100%	Compliant
D02	Bed 2	100	100%	100%	Compliant
D03	LKD	200	100%	100%	Compliant
D03	Bed 1	100	100%	100%	Compliant
D03	Bed 2	100	100%	100%	Compliant
D04	LKD	200	98%	59%	Compliant
D04	Bed 1	100	100%	100%	Compliant
D05	LKD	200	95%	47%	Trees affecting compliance
D05	Bed 1	100	100%	51%	Compliant
D06	LKD	200	54%	23%	Trees affecting compliance
D06	Bed 1	100	100%	100%	Compliant
D06	Bed 2	100	85%	79%	Compliant
D06	Bed 3	100	100%	100%	Compliant
D07	LKD	200	100%	100%	Compliant
D07	Bed 1	100	100%	100%	Compliant
D07	Bed 2	100	100%	100%	Compliant
D08	LKD	200	87%	78%	Compliant
D08	Bed 1	100	100%	100%	Compliant
D08	Bed 2	100	100%	100%	Compliant
D09	LKD	200	100%	100%	Compliant
D09	Bed 1	100	100%	100%	Compliant
D09	Bed 2	100	100%	100%	Compliant
D10	LKD	200	100%	97%	Compliant
D10	Bed 1	100	100%	100%	Compliant
D11	LKD	200	100%	94%	Compliant
D11	Bed 1	100	100%	100%	Compliant
D12	LKD	200	98%	81%	Compliant
D12	Bed 1	100	100%	100%	Compliant
D12	Bed 2	100	100%	100%	Compliant
D12	Bed 3	100	100%	100%	Compliant
D13	LKD	200	34%	32%	Non-compliant
D13	Bed 1	100	61%	56%	Compliant
D13	Bed 2	100	97%	92%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.17 SDA Results: Block D

Table No. C.2.17 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
D14	LKD	200	54%	51%	Compliant
D14	Bed 1	100	99%	95%	Compliant
D14	Bed 2	100	100%	99%	Compliant
D14	Bed 3	100	100%	100%	Compliant
D15	LKD	200	100%	100%	Compliant
D15	Bed 1	100	100%	100%	Compliant
D15	Bed 2	100	100%	100%	Compliant
D16	LKD	200	90%	86%	Compliant
D16	Bed 1	100	100%	100%	Compliant
D16	Bed 2	100	100%	100%	Compliant
D17	LKD	200	100%	100%	Compliant
D17	Bed 1	100	100%	100%	Compliant
D17	Bed 2	100	100%	100%	Compliant
D18	LKD	200	100%	100%	Compliant
D18	Bed 1	100	100%	100%	Compliant
D19	LKD	200	100%	100%	Compliant
D19	Bed 1	100	100%	100%	Compliant
D20	LKD	200	100%	100%	Compliant
D20	Bed 1	100	100%	100%	Compliant
D20	Bed 2	100	100%	100%	Compliant
D20	Bed 3	100	100%	100%	Compliant
D21	LKD	200	42%	40%	Non-compliant
D21	Bed 1	100	73%	66%	Compliant
D21	Bed 2	100	100%	100%	Compliant
D22	LKD	200	85%	78%	Compliant
D22	Bed 1	100	100%	99%	Compliant
D22	Bed 2	100	100%	100%	Compliant
D22	Bed 3	100	100%	100%	Compliant
D23	LKD	200	100%	100%	Compliant
D23	Bed 1	100	100%	100%	Compliant
D23	Bed 2	100	100%	100%	Compliant
D24	LKD	200	92%	89%	Compliant
D24	Bed 1	100	100%	100%	Compliant
D24	Bed 2	100	100%	100%	Compliant
D25	LKD	200	100%	100%	Compliant
D25	Bed 1	100	100%	100%	Compliant
D25	Bed 2	100	100%	100%	Compliant
D26	LKD	200	100%	100%	Compliant
D26	Bed 1	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.18 SDA Results: Block D

Table No. C.2.18 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
D27	LKD	200	100%	100%	Compliant
D27	Bed 1	100	100%	100%	Compliant
D28	LKD	200	100%	100%	Compliant
D28	Bed 1	100	100%	100%	Compliant
D28	Bed 2	100	100%	100%	Compliant
D28	Bed 3	100	100%	100%	Compliant
D29	LKD	200	52%	51%	Compliant
D29	Bed 1	100	90%	87%	Compliant
D29	Bed 2	100	100%	100%	Compliant
D30	LKD	200	66%	62%	Compliant
D30	Bed 1	100	100%	100%	Compliant
D30	Bed 2	100	100%	100%	Compliant
D30	Bed 3	100	100%	100%	Compliant
D31	LKD	200	100%	100%	Compliant
D31	Bed 1	100	100%	100%	Compliant
D31	Bed 2	100	100%	100%	Compliant
D32	LKD	200	92%	89%	Compliant
D32	Bed 1	100	100%	100%	Compliant
D32	Bed 2	100	100%	100%	Compliant
D33	LKD	200	100%	100%	Compliant
D33	Bed 1	100	100%	100%	Compliant
D33	Bed 2	100	100%	100%	Compliant
D34	LKD	200	100%	100%	Compliant
D34	Bed 1	100	100%	100%	Compliant
D35	LKD	200	100%	100%	Compliant
D35	Bed 1	100	100%	100%	Compliant
D36	LKD	200	100%	100%	Compliant
D36	Bed 1	100	100%	100%	Compliant
D36	Bed 2	100	100%	100%	Compliant
D36	Bed 3	100	100%	100%	Compliant
D37	LKD	200	64%	62%	Compliant
D37	Bed 1	100	100%	100%	Compliant
D37	Bed 2	100	100%	100%	Compliant
D38	LKD	200	97%	93%	Compliant
D38	Bed 1	100	100%	100%	Compliant
D38	Bed 2	100	100%	100%	Compliant
D38	Bed 3	100	100%	100%	Compliant
D39	LKD	200	100%	100%	Compliant
D39	Bed 1	100	100%	100%	Compliant
D39	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.19 SDA Results: Block D

Table No. C.2.19 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
D40	LKD	200	93%	91%	Compliant
D40	Bed 1	100	100%	100%	Compliant
D40	Bed 2	100	100%	100%	Compliant
D41	LKD	200	100%	100%	Compliant
D41	Bed 1	100	100%	100%	Compliant
D41	Bed 2	100	100%	100%	Compliant
D42	LKD	200	100%	100%	Compliant
D42	Bed 1	100	100%	100%	Compliant
D43	LKD	200	100%	100%	Compliant
D43	Bed 1	100	100%	100%	Compliant
D44	LKD	200	100%	100%	Compliant
D44	Bed 1	100	100%	100%	Compliant
D44	Bed 2	100	100%	100%	Compliant
D44	Bed 3	100	100%	100%	Compliant
D45	LKD	200	98%	97%	Compliant
D45	Bed 1	100	100%	100%	Compliant
D45	Bed 2	100	100%	100%	Compliant
D46	LKD	200	86%	82%	Compliant
D46	Bed 1	100	100%	100%	Compliant
D46	Bed 2	100	100%	100%	Compliant
D46	Bed 3	100	100%	100%	Compliant
D47	LKD	200	100%	100%	Compliant
D47	Bed 1	100	100%	100%	Compliant
D47	Bed 2	100	100%	100%	Compliant
D48	LKD	200	92%	91%	Compliant
D48	Bed 1	100	100%	100%	Compliant
D48	Bed 2	100	100%	100%	Compliant
D49	LKD	200	100%	100%	Compliant
D49	Bed 1	100	100%	100%	Compliant
D49	Bed 2	100	100%	100%	Compliant
D50	LKD	200	100%	100%	Compliant
D50	Bed 1	100	100%	100%	Compliant
D50	Bed 2	100	100%	100%	Compliant
D50	Bed 3	100	100%	100%	Compliant
D51	LKD	200	100%	100%	Compliant
D51	Bed 1	100	100%	100%	Compliant
D51	Bed 2	100	100%	100%	Compliant
D52	LKD	200	92%	91%	Compliant
D52	Bed 1	100	100%	100%	Compliant
D52	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.20 SDA Results: Block D

Table No. C.2.20 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
D53	LKD	200	100%	100%	Compliant
D53	Bed 1	100	100%	100%	Compliant
D53	Bed 2	100	100%	100%	Compliant
D54	LKD	200	100%	100%	Compliant
D54	Bed 1	100	100%	100%	Compliant
D54	Bed 2	100	100%	100%	Compliant
D54	Bed 3	100	100%	100%	Compliant
D55	LKD	200	100%	100%	Compliant
D55	Bed 1	100	100%	100%	Compliant
D55	Bed 2	100	100%	100%	Compliant
D56	LKD	200	93%	92%	Compliant
D56	Bed 1	100	100%	100%	Compliant
D56	Bed 2	100	100%	100%	Compliant
D57	LKD	200	100%	100%	Compliant
D57	Bed 1	100	100%	100%	Compliant
D57	Bed 2	100	100%	100%	Compliant
D58	LKD	200	99%	99%	Compliant
D58	Bed 1	100	100%	100%	Compliant
D58	Bed 2	100	100%	100%	Compliant
D58	Bed 3	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.21 SDA Results: Block E

Table No. C.2.21 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
E01	LKD	200	72%	67%	Compliant
E01	Bed 1	100	79%	70%	Compliant
E01	Bed 2	100	100%	92%	Compliant
E01	Bed 3	100	100%	93%	Compliant
E02	LKD	200	43%	40%	Non-compliant
E02	Bed 1	100	92%	82%	Compliant
E02	Bed 2	100	100%	100%	Compliant
E03	LKD	200	100%	100%	Compliant
E03	Bed 1	100	100%	100%	Compliant
E03	Bed 2	100	99%	96%	Compliant
E03	Bed 3	100	100%	100%	Compliant
E04	LKD	200	100%	100%	Compliant
E04	Bed 1	100	100%	100%	Compliant
E05	LKD	200	100%	98%	Compliant
E05	Bed 1	100	100%	100%	Compliant
E06	LKD	200	100%	96%	Compliant
E06	Bed 1	100	100%	100%	Compliant
E06	Bed 2	100	100%	100%	Compliant
E07	LKD	200	88%	52%	Compliant
E07	Bed 1	100	100%	100%	Compliant
E07	Bed 2	100	100%	100%	Compliant
E08	LKD	200	89%	88%	Compliant
E08	Bed 1	100	91%	84%	Compliant
E08	Bed 2	100	100%	100%	Compliant
E08	Bed 3	100	100%	100%	Compliant
E09	LKD	200	55%	53%	Compliant
E09	Bed 1	100	100%	100%	Compliant
E09	Bed 2	100	100%	100%	Compliant
E10	LKD	200	100%	100%	Compliant
E10	Bed 1	100	100%	100%	Compliant
E10	Bed 2	100	100%	100%	Compliant
E10	Bed 3	100	100%	100%	Compliant
E11	LKD	200	100%	100%	Compliant
E11	Bed 1	100	100%	100%	Compliant
E12	LKD	200	100%	100%	Compliant
E12	Bed 1	100	100%	100%	Compliant
E13	LKD	200	100%	100%	Compliant
E13	Bed 1	100	100%	100%	Compliant
E13	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.22 SDA Results: Block E

Table No. C.2.22 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
E14	LKD	200	91%	61%	Compliant
E14	Bed 1	100	100%	100%	Compliant
E14	Bed 2	100	100%	100%	Compliant
E15	LKD	200	100%	97%	Compliant
E15	Bed 1	100	100%	100%	Compliant
E15	Bed 2	100	100%	100%	Compliant
E16	LKD	200	84%	83%	Compliant
E16	Bed 1	100	100%	99%	Compliant
E16	Bed 2	100	100%	100%	Compliant
E16	Bed 3	100	100%	100%	Compliant
E17	LKD	200	61%	60%	Compliant
E17	Bed 1	100	100%	100%	Compliant
E17	Bed 2	100	100%	100%	Compliant
E18	LKD	200	100%	100%	Compliant
E18	Bed 1	100	100%	100%	Compliant
E18	Bed 2	100	100%	100%	Compliant
E18	Bed 3	100	100%	100%	Compliant
E19	LKD	200	100%	100%	Compliant
E19	Bed 1	100	100%	100%	Compliant
E20	LKD	200	100%	100%	Compliant
E20	Bed 1	100	100%	100%	Compliant
E21	LKD	200	100%	100%	Compliant
E21	Bed 1	100	100%	100%	Compliant
E21	Bed 2	100	100%	100%	Compliant
E22	LKD	200	93%	75%	Compliant
E22	Bed 1	100	100%	100%	Compliant
E22	Bed 2	100	100%	100%	Compliant
E23	LKD	200	100%	100%	Compliant
E23	Bed 1	100	100%	100%	Compliant
E23	Bed 2	100	100%	100%	Compliant
E24	LKD	200	98%	98%	Compliant
E24	Bed 1	100	100%	100%	Compliant
E24	Bed 2	100	100%	100%	Compliant
E24	Bed 3	100	100%	100%	Compliant
E25	LKD	200	68%	66%	Compliant
E25	Bed 1	100	100%	100%	Compliant
E25	Bed 2	100	100%	100%	Compliant
E26	LKD	200	100%	100%	Compliant
E26	Bed 1	100	100%	100%	Compliant
E26	Bed 2	100	100%	100%	Compliant
E26	Bed 3	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.23 SDA Results: Block E

Table No. C.2.23 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
E27	LKD	200	100%	100%	Compliant
E27	Bed 1	100	100%	100%	Compliant
E28	LKD	200	100%	100%	Compliant
E28	Bed 1	100	100%	100%	Compliant
E29	LKD	200	100%	100%	Compliant
E29	Bed 1	100	100%	100%	Compliant
E29	Bed 2	100	100%	100%	Compliant
E30	LKD	200	93%	84%	Compliant
E30	Bed 1	100	100%	100%	Compliant
E30	Bed 2	100	100%	100%	Compliant
E31	LKD	200	100%	100%	Compliant
E31	Bed 1	100	100%	100%	Compliant
E31	Bed 2	100	100%	100%	Compliant
E32	LKD	200	98%	98%	Compliant
E32	Bed 1	100	100%	100%	Compliant
E32	Bed 2	100	100%	100%	Compliant
E32	Bed 3	100	100%	100%	Compliant
E33	LKD	200	98%	98%	Compliant
E33	Bed 1	100	100%	100%	Compliant
E33	Bed 2	100	100%	100%	Compliant
E34	LKD	200	100%	100%	Compliant
E34	Bed 1	100	100%	100%	Compliant
E34	Bed 2	100	100%	100%	Compliant
E34	Bed 3	100	100%	100%	Compliant
E35	LKD	200	100%	100%	Compliant
E35	Bed 1	100	100%	100%	Compliant
E36	LKD	200	100%	100%	Compliant
E36	Bed 1	100	100%	100%	Compliant
E37	LKD	200	100%	100%	Compliant
E37	Bed 1	100	100%	100%	Compliant
E37	Bed 2	100	100%	100%	Compliant
E38	LKD	200	94%	87%	Compliant
E38	Bed 1	100	100%	100%	Compliant
E38	Bed 2	100	100%	100%	Compliant
E39	LKD	200	100%	100%	Compliant
E39	Bed 1	100	100%	100%	Compliant
E39	Bed 2	100	100%	100%	Compliant
E40	LKD	200	100%	100%	Compliant
E40	Bed 1	100	100%	100%	Compliant
E40	Bed 2	100	100%	100%	Compliant
E40	Bed 3	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.2.24 SDA Results: Block E

Table No. C.2.24 - SDA Results:					
Unit Number	Room Description	Target Lux*	% of area above target Lux* (recommendation ≥50%)		Compliance with BRE 209 Criteria*
			Without Trees***	With Trees**	
E41	LKD	200	100%	100%	Compliant
E41	Bed 1	100	100%	100%	Compliant
E41	Bed 2	100	100%	100%	Compliant
E42	LKD	200	94%	89%	Compliant
E42	Bed 1	100	100%	100%	Compliant
E42	Bed 2	100	100%	100%	Compliant
E43	LKD	200	100%	100%	Compliant
E43	Bed 1	100	100%	100%	Compliant
E43	Bed 2	100	100%	100%	Compliant
E44	LKD	200	100%	100%	Compliant
E44	Bed 1	100	100%	100%	Compliant
E44	Bed 2	100	100%	100%	Compliant
E44	Bed 3	100	100%	100%	Compliant
E45	LKD	200	100%	100%	Compliant
E45	Bed 1	100	100%	100%	Compliant
E45	Bed 2	100	100%	100%	Compliant
E46	LKD	200	94%	91%	Compliant
E46	Bed 1	100	100%	100%	Compliant
E46	Bed 2	100	100%	100%	Compliant
E47	LKD	200	100%	100%	Compliant
E47	Bed 1	100	100%	100%	Compliant
E47	Bed 2	100	100%	100%	Compliant
E48	LKD	200	100%	100%	Compliant
E48	Bed 1	100	100%	100%	Compliant
E48	Bed 2	100	100%	100%	Compliant
E48	Bed 3	100	100%	100%	Compliant
E49	LKD	200	100%	100%	Compliant
E49	Bed 1	100	100%	100%	Compliant
E49	Bed 2	100	100%	100%	Compliant
E50	LKD	200	94%	92%	Compliant
E50	Bed 1	100	100%	100%	Compliant
E50	Bed 2	100	100%	100%	Compliant
E51	LKD	200	100%	100%	Compliant
E51	Bed 1	100	100%	100%	Compliant
E51	Bed 2	100	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.

** Under the BRE 209 study the SDA has been calculated with indicative trees represented accounting for annual foliage.

*** The SDA assessment without trees indicates the level of daylight within the proposed development when trees are not included in the analytical model. This study provides an understanding of how trees affect daylight within the proposed development.

The SDA circa compliance rates across the assessed units can be found in section 3.2.1 on page 21.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.3 Sunlight Exposure (SE) in Proposed Units

Below is an example of the table used to describe the SE performance of proposed habitable rooms.

Table Example. C.3 - Scheme Performance Sunlight Exposure							
Unit Number	Room Description	Deciduous Trees as Opaque Objects			Without Deciduous Trees		
		SE Hours on March 21st	Level of SE on March 21st	Unit compliance based on highest performing room	SE Hours on March 21st	Level of SE on March 21st	Unit compliance based on highest performing room
A	B	C	D	E	F	G	H

A: Unit Number

This column identifies the assessed unit. All unit numbers are determined by the architect's drawings, unless otherwise stated.

B: Room Description

Room Description details which room of the unit has been assessed, e.g. bedroom, living room, etc.

C: SE Hours on March 21st (Deciduous Trees as Opaque Objects)

This column will state the number of hours the assessed room can expect to receive on March 21st with the assessment carried out with deciduous trees as opaque objects.

D: Level of SE on March 21st (Deciduous Trees as Opaque Objects)

BRE 209 recommends a minimum sunlight exposure of 1.5 hours for a proposed unit with preference given to main living rooms. BRE 209 categorises sunlight exposure as minimum, medium and high, this column will categorise the level of sunlight exposure with deciduous trees as opaque objects based on the following:

- Less than 1.5 hours: *Below minimum*,
- Between 1.5 hours and 3 hours: *Minimum*
- Between 3 hours and 4 hours: *Medium*
- More than 4 hours: *High*

E: Unit compliance based on highest performing room (Deciduous Trees as Opaque Objects)

A proposed unit is considered to be compliant provided any habitable room within the unit is capable of receiving at least 1.5 hours of sunlight on the assessment date. This column will identify the highest performing room within a unit and state compliance for the associated unit based on that room with the assessment carried out with deciduous trees as opaque objects.

Typically unit compliance will be stated for the best performing room per unit only, with lesser performing rooms indicated with a dash (-).

F: SE Hours on March 21st (Without Deciduous Trees)

This column will state the number of hours the assessed room can expect to receive on March 21st with the assessment carried out without deciduous trees.

G: Level of SE on March 21st (Without Deciduous Trees)

BRE 209 recommends a minimum sunlight exposure of 1.5 hours for a proposed unit with preference given to main living rooms. BRE 209 categorises sunlight exposure as minimum, medium and high, this column will categorise the level of sunlight exposure without deciduous trees using the same criteria as the study with deciduous trees as opaque objects.

H: Unit compliance based on highest performing room (Without Deciduous Trees)

A proposed unit is considered to be compliant provided any habitable room within the unit is capable of receiving at least 1.5 hours of sunlight on March 21st. This column will identify the highest performing room within a unit and state compliance for the associated unit based on that room with the assessment carried out without deciduous trees. Typically only one room per unit will be populated in this column, with lesser performing rooms indicated with a dash (-).

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

C.3.1 SE Results: Block A

Table No. C.3.1 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
A01	LKD	2.30	Minimum	Compliant	4.50	High	Compliant
A01	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A01	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A02	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
A02	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A02	Bed 2	0.60	Below Minimum	Non-Compliant	0.60	Below Minimum	Non-Compliant
A03	LKD	1.60	Minimum	-	4.10	High	Compliant
A03	Bed 1	1.70	Minimum	Compliant	3.40	Medium	-
A03	Bed 2	1.30	Below Minimum	-	3.40	Medium	-
A04	LKD	3.70	Medium	Compliant	5.70	High	Compliant
A04	Bed 1	0.00	Below Minimum	-	1.10	Below Minimum	-
A05	LKD	2.70	Minimum	Compliant	4.50	High	Compliant
A05	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A05	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A06	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
A06	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A06	Bed 2	0.60	Below Minimum	Non-Compliant	0.60	Below Minimum	Non-Compliant
A07	LKD	1.30	Below Minimum	Non-Compliant	1.30	Below Minimum	Non-Compliant
A07	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A07	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A08	LKD	1.90	Minimum	Compliant	1.90	Minimum	Compliant
A08	Bed 1	1.40	Below Minimum	-	1.40	Below Minimum	-
A09	LKD	3.60	Medium	Compliant	3.90	Medium	Compliant
A09	Bed 1	2.80	Minimum	-	2.80	Minimum	-
A09	Bed 2	2.80	Minimum	-	2.80	Minimum	-
A10	LKD	2.90	Minimum	Compliant	3.90	Medium	Compliant
A10	Bed 1	2.50	Minimum	-	3.40	Medium	-
A10	Bed 2	2.30	Minimum	-	3.40	Medium	-
A11	LKD	4.50	High	Compliant	5.70	High	Compliant
A11	Bed 1	0.30	Below Minimum	-	1.00	Below Minimum	-
A12	LKD	3.60	Medium	Compliant	4.50	High	Compliant
A12	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A12	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A13	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
A13	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A13	Bed 2	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
A14	LKD	1.60	Minimum	Compliant	1.60	Minimum	Compliant
A14	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A14	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1.15 of the BRE Guidelines recommends that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.2 SE Results: Block A

Table No. C.3.2 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
A15	LKD	2.60	Minimum	Compliant	2.60	Minimum	Compliant
A15	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A16	LKD	2.40	Minimum	Compliant	2.40	Minimum	Compliant
A16	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
A16	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A17	LKD	7.70	High	Compliant	8.40	High	Compliant
A17	Bed 1	3.50	Medium	-	3.50	Medium	-
A17	Bed 2	3.50	Medium	-	3.50	Medium	-
A18	LKD	7.00	High	Compliant	7.70	High	Compliant
A18	Bed 1	4.60	High	-	4.60	High	-
A18	Bed 2	4.60	High	-	4.60	High	-
A19	LKD	0.70	Below Minimum	-	0.80	Below Minimum	-
A19	Bed 1	4.60	High	Compliant	4.60	High	Compliant
A19	Bed 2	4.60	High	-	4.60	High	-
A20	LKD	3.70	Medium	Compliant	3.90	Medium	Compliant
A20	Bed 1	3.10	Medium	-	3.40	Medium	-
A20	Bed 2	3.10	Medium	-	3.40	Medium	-
A21	LKD	5.50	High	Compliant	5.70	High	Compliant
A21	Bed 1	0.60	Below Minimum	-	0.90	Below Minimum	-
A22	LKD	4.50	High	Compliant	4.50	High	Compliant
A22	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A22	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A23	LKD	0.10	Below Minimum	-	0.10	Below Minimum	-
A23	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A23	Bed 2	1.20	Below Minimum	Non-Compliant	1.20	Below Minimum	Non-Compliant
A24	LKD	1.80	Minimum	Compliant	1.80	Minimum	Compliant
A24	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A24	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A25	LKD	2.80	Minimum	Compliant	2.80	Minimum	Compliant
A25	Bed 1	0.60	Below Minimum	-	0.60	Below Minimum	-
A26	LKD	3.20	Medium	Compliant	3.20	Medium	Compliant
A26	Bed 1	1.20	Below Minimum	-	1.20	Below Minimum	-
A26	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A27	LKD	8.80	High	Compliant	8.80	High	Compliant
A27	Bed 1	3.20	Medium	-	3.20	Medium	-
A27	Bed 2	3.40	Medium	-	3.40	Medium	-
A28	LKD	8.20	High	Compliant	8.20	High	Compliant
A28	Bed 1	4.30	High	-	4.30	High	-
A28	Bed 2	4.30	High	-	4.30	High	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1.15 of the BRE Guidelines recommends that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.3 SE Results: Block A

Table No. C.3.3 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
A29	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
A29	Bed 1	4.30	High	Compliant	4.30	High	Compliant
A29	Bed 2	4.30	High	-	4.30	High	-
A30	LKD	4.10	High	Compliant	4.10	High	Compliant
A30	Bed 1	3.40	Medium	-	3.40	Medium	-
A30	Bed 2	3.40	Medium	-	3.40	Medium	-
A31	LKD	5.70	High	Compliant	5.70	High	Compliant
A31	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-
A32	LKD	4.50	High	Compliant	4.50	High	Compliant
A32	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A32	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A33	LKD	0.50	Below Minimum	-	0.50	Below Minimum	-
A33	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A33	Bed 2	1.50	Minimum	Compliant	1.50	Minimum	Compliant
A34	LKD	3.10	Medium	Compliant	3.10	Medium	Compliant
A34	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A34	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A35	LKD	3.30	Medium	Compliant	3.30	Medium	Compliant
A35	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
A36	LKD	3.50	Medium	Compliant	3.50	Medium	Compliant
A36	Bed 1	1.90	Minimum	-	1.90	Minimum	-
A36	Bed 2	0.40	Below Minimum	-	0.40	Below Minimum	-
A37	LKD	9.30	High	Compliant	9.30	High	Compliant
A37	Bed 1	3.30	Medium	-	3.30	Medium	-
A37	Bed 2	3.50	Medium	-	3.50	Medium	-
A38	LKD	9.40	High	Compliant	9.40	High	Compliant
A38	Bed 1	4.30	High	-	4.30	High	-
A38	Bed 2	4.30	High	-	4.30	High	-
A39	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
A39	Bed 1	4.30	High	Compliant	4.30	High	Compliant
A39	Bed 2	4.30	High	-	4.30	High	-
A40	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
A40	Bed 1	3.40	Medium	-	3.40	Medium	-
A40	Bed 2	3.40	Medium	-	3.40	Medium	-
A41	LKD	5.70	High	Compliant	5.70	High	Compliant
A41	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-
A42	LKD	4.50	High	Compliant	4.50	High	Compliant
A42	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A42	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.4 SE Results: Block A

Table No. C.3.4 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
A43	LKD	1.00	Below Minimum	-	1.00	Below Minimum	-
A43	Bed 1	0.30	Below Minimum	-	0.30	Below Minimum	-
A43	Bed 2	2.20	Minimum	Compliant	2.20	Minimum	Compliant
A44	LKD	3.70	Medium	Compliant	3.70	Medium	Compliant
A44	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A44	Bed 2	0.40	Below Minimum	-	0.40	Below Minimum	-
A45	LKD	4.00	High	Compliant	4.00	High	Compliant
A45	Bed 1	1.30	Below Minimum	-	1.30	Below Minimum	-
A46	LKD	4.00	High	Compliant	4.00	High	Compliant
A46	Bed 1	2.00	Minimum	-	2.00	Minimum	-
A46	Bed 2	0.60	Below Minimum	-	0.60	Below Minimum	-
A47	LKD	9.30	High	Compliant	9.30	High	Compliant
A47	Bed 1	3.80	Medium	-	3.80	Medium	-
A47	Bed 2	3.80	Medium	-	3.80	Medium	-
A48	LKD	9.40	High	Compliant	9.40	High	Compliant
A48	Bed 1	4.60	High	-	4.60	High	-
A48	Bed 2	4.60	High	-	4.60	High	-
A49	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
A49	Bed 1	4.60	High	Compliant	4.60	High	Compliant
A49	Bed 2	4.60	High	-	4.60	High	-
A50	LKD	4.10	High	Compliant	4.10	High	Compliant
A50	Bed 1	3.40	Medium	-	3.40	Medium	-
A50	Bed 2	3.40	Medium	-	3.40	Medium	-
A51	LKD	5.80	High	Compliant	5.80	High	Compliant
A51	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-
A52	LKD	4.50	High	Compliant	4.50	High	Compliant
A52	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
A52	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
A53	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
A53	Bed 1	0.40	Below Minimum	-	0.40	Below Minimum	-
A53	Bed 2	2.00	Minimum	Compliant	2.00	Minimum	Compliant
A54	LKD	4.80	High	Compliant	4.80	High	Compliant
A54	Bed 1	0.10	Below Minimum	-	0.10	Below Minimum	-
A54	Bed 2	2.40	Minimum	-	2.40	Minimum	-
A55	LKD	9.30	High	Compliant	9.30	High	Compliant
A55	Bed 1	2.90	Minimum	-	2.90	Minimum	-
A56	LKD	7.40	High	-	7.40	High	-
A56	BED 1	9.40	High	Compliant	9.40	High	Compliant

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.5 SE Results: Block A

Table No. C.3.5 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
A57	LKD	4.10	High	Compliant	4.10	High	Compliant
A57	Bed 1	3.40	Medium	-	3.40	Medium	-
A57	Bed 2	3.40	Medium	-	3.40	Medium	-
A58	LKD	6.40	High	Compliant	6.40	High	Compliant
A58	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.6 SE Results: Block B

Table No. C.3.6 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
B01	LKD	1.20	Below Minimum	Non-Compliant	1.20	Below Minimum	Non-Compliant
B01	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B01	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B02	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
B02	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B02	Bed 2	0.60	Below Minimum	Non-Compliant	0.60	Below Minimum	Non-Compliant
B03	LKD	5.10	High	Compliant	5.70	High	Compliant
B03	Bed 1	2.10	Minimum	-	2.10	Minimum	-
B03	Bed 2	0.20	Below Minimum	-	0.60	Below Minimum	-
B04	LKD	5.10	High	Compliant	6.10	High	Compliant
B04	Bed 1	2.30	Minimum	-	2.30	Minimum	-
B04	Bed 2	2.70	Minimum	-	2.70	Minimum	-
B05	LKD	2.30	Minimum	Compliant	2.30	Minimum	Compliant
B05	Bed 1	0.10	Below Minimum	-	0.10	Below Minimum	-
B05	Bed 2	0.10	Below Minimum	-	0.10	Below Minimum	-
B06	LKD	2.10	Minimum	Compliant	2.10	Minimum	Compliant
B06	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B07	LKD	1.10	Below Minimum	Non-Compliant	1.10	Below Minimum	Non-Compliant
B07	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B07	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B08	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
B08	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B08	Bed 2	0.60	Below Minimum	Non-Compliant	0.60	Below Minimum	Non-Compliant
B09	LKD	1.30	Below Minimum	Non-Compliant	1.30	Below Minimum	Non-Compliant
B09	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B09	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B10	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
B10	Bed 1	1.40	Below Minimum	Non-Compliant	1.40	Below Minimum	Non-Compliant
B11	LKD	2.10	Minimum	Compliant	2.10	Minimum	Compliant
B11	Bed 1	1.80	Minimum	-	1.80	Minimum	-
B11	Bed 2	1.80	Minimum	-	1.80	Minimum	-
B12	LKD	6.20	High	Compliant	6.20	High	Compliant
B12	Bed 1	2.10	Minimum	-	2.10	Minimum	-
B12	Bed 2	1.80	Minimum	-	1.80	Minimum	-
B13	LKD	6.30	High	Compliant	6.50	High	Compliant
B13	Bed 1	3.40	Medium	-	3.40	Medium	-
B13	Bed 2	3.10	Medium	-	3.10	Medium	-
B14	LKD	2.50	Minimum	Compliant	2.50	Minimum	Compliant
B14	Bed 1	0.40	Below Minimum	-	0.40	Below Minimum	-
B14	Bed 2	0.40	Below Minimum	-	0.40	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.7 SE Results: Block B

Table No. C.3.7 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
B15	LKD	2.40	Minimum	Compliant	2.40	Minimum	Compliant
B15	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B16	LKD	1.40	Below Minimum	Non-Compliant	1.40	Below Minimum	Non-Compliant
B16	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B16	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B17	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
B17	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B17	Bed 2	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
B18	LKD	1.50	Minimum	Compliant	1.50	Minimum	Compliant
B18	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B18	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B19	LKD	1.60	Minimum	Compliant	1.60	Minimum	Compliant
B19	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B20	LKD	2.30	Minimum	Compliant	2.30	Minimum	Compliant
B20	Bed 1	0.50	Below Minimum	-	0.50	Below Minimum	-
B20	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B21	LKD	6.50	High	Compliant	6.50	High	Compliant
B21	Bed 1	2.00	Minimum	-	2.00	Minimum	-
B21	Bed 2	2.00	Minimum	-	2.00	Minimum	-
B22	LKD	6.60	High	Compliant	6.60	High	Compliant
B22	Bed 1	3.10	Medium	-	3.10	Medium	-
B22	Bed 2	3.50	Medium	-	3.50	Medium	-
B23	LKD	2.70	Minimum	Compliant	2.70	Minimum	Compliant
B23	Bed 1	0.80	Below Minimum	-	0.80	Below Minimum	-
B23	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B24	LKD	3.00	Medium	Compliant	3.00	Medium	Compliant
B24	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
B24	Bed 2	0.90	Below Minimum	-	0.90	Below Minimum	-
B25	LKD	2.80	Minimum	Compliant	2.80	Minimum	Compliant
B25	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B26	LKD	1.70	Minimum	Compliant	1.70	Minimum	Compliant
B26	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B26	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B27	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
B27	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B27	Bed 2	1.20	Below Minimum	Non-Compliant	1.20	Below Minimum	Non-Compliant
B28	LKD	1.60	Minimum	Compliant	1.60	Minimum	Compliant
B28	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B28	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.

** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.

*** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.8 SE Results: Block B

Table No. C.3.8 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
B29	LKD	2.50	Minimum	Compliant	2.50	Minimum	Compliant
B29	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
B30	LKD	2.60	Minimum	Compliant	2.60	Minimum	Compliant
B30	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
B30	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B31	LKD	6.80	High	Compliant	6.80	High	Compliant
B31	Bed 1	1.40	Below Minimum	-	1.40	Below Minimum	-
B31	Bed 2	1.40	Below Minimum	-	1.40	Below Minimum	-
B32	LKD	8.80	High	Compliant	8.80	High	Compliant
B32	Bed 1	2.30	Minimum	-	2.30	Minimum	-
B32	Bed 2	2.60	Minimum	-	2.60	Minimum	-
B33	LKD	3.20	Medium	Compliant	3.20	Medium	Compliant
B33	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-
B33	Bed 2	0.50	Below Minimum	-	0.50	Below Minimum	-
B34	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
B34	Bed 1	1.50	Minimum	-	1.50	Minimum	-
B34	Bed 2	1.50	Minimum	-	1.50	Minimum	-
B35	LKD	3.30	Medium	Compliant	3.30	Medium	Compliant
B35	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B36	LKD	2.70	Minimum	Compliant	2.70	Minimum	Compliant
B36	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B36	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B37	LKD	0.80	Below Minimum	-	0.80	Below Minimum	-
B37	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B37	Bed 2	1.50	Minimum	Compliant	1.50	Minimum	Compliant
B38	LKD	3.00	Medium	Compliant	3.00	Medium	Compliant
B38	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B38	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B39	LKD	2.90	Minimum	Compliant	2.90	Minimum	Compliant
B39	Bed 1	0.80	Below Minimum	-	0.80	Below Minimum	-
B40	LKD	2.90	Minimum	Compliant	2.90	Minimum	Compliant
B40	Bed 1	1.70	Minimum	-	1.70	Minimum	-
B40	Bed 2	0.10	Below Minimum	-	0.10	Below Minimum	-
B41	LKD	8.20	High	Compliant	8.20	High	Compliant
B41	Bed 1	2.60	Minimum	-	2.60	Minimum	-
B41	Bed 2	2.60	Minimum	-	2.60	Minimum	-
B42	LKD	9.00	High	Compliant	9.00	High	Compliant
B42	Bed 1	3.70	Medium	-	3.70	Medium	-
B42	Bed 2	3.80	Medium	-	3.80	Medium	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.9 SE Results: Block B

Table No. C.3.9 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
B43	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
B43	Bed 1	1.80	Minimum	-	1.80	Minimum	-
B43	Bed 2	1.20	Below Minimum	-	1.20	Below Minimum	-
B44	LKD	4.50	High	Compliant	4.50	High	Compliant
B44	Bed 1	2.10	Minimum	-	2.10	Minimum	-
B44	Bed 2	2.10	Minimum	-	2.10	Minimum	-
B45	LKD	4.20	High	Compliant	4.20	High	Compliant
B45	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
B46	LKD	3.50	Medium	Compliant	3.50	Medium	Compliant
B46	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B46	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
B47	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
B47	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
B47	Bed 2	2.10	Minimum	Compliant	2.10	Minimum	Compliant
B48	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
B48	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B48	Bed 2	0.40	Below Minimum	-	0.40	Below Minimum	-
B49	LKD	4.20	High	Compliant	4.20	High	Compliant
B49	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
B50	LKD	4.00	High	Compliant	4.00	High	Compliant
B50	Bed 1	2.00	Minimum	-	2.00	Minimum	-
B50	Bed 2	0.50	Below Minimum	-	0.50	Below Minimum	-
B51	LKD	8.60	High	Compliant	8.60	High	Compliant
B51	Bed 1	3.10	Medium	-	3.10	Medium	-
B51	Bed 2	3.00	Medium	-	3.00	Medium	-
B52	LKD	9.40	High	Compliant	9.40	High	Compliant
B52	Bed 1	4.60	High	-	4.60	High	-
B52	Bed 2	4.60	High	-	4.60	High	-
B53	LKD	4.80	High	Compliant	4.80	High	Compliant
B53	Bed 1	2.40	Minimum	-	2.40	Minimum	-
B53	Bed 2	1.60	Minimum	-	1.60	Minimum	-
B54	LKD	5.40	High	Compliant	5.40	High	Compliant
B54	Bed 1	3.00	Medium	-	3.00	Medium	-
B54	Bed 2	2.80	Minimum	-	2.80	Minimum	-
B55	LKD	5.10	High	Compliant	5.10	High	Compliant
B55	Bed 1	0.80	Below Minimum	-	0.80	Below Minimum	-
B56	LKD	4.50	High	Compliant	4.50	High	Compliant
B56	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
B56	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.10 SE Results: Block B

Table No. C.3.10 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
B57	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
B57	Bed 1	0.40	Below Minimum	-	0.40	Below Minimum	-
B57	Bed 2	2.00	Minimum	Compliant	2.00	Minimum	Compliant
B58	LKD	4.80	High	Compliant	4.80	High	Compliant
B58	Bed 1	0.10	Below Minimum	-	0.10	Below Minimum	-
B58	Bed 2	2.40	Minimum	-	2.40	Minimum	-
B59	LKD	9.40	High	Compliant	9.40	High	Compliant
B59	Bed 1	2.90	Minimum	-	2.90	Minimum	-
B59	Bed 2	7.60	High	-	7.60	High	-
B59	Bed 3	4.50	High	-	4.50	High	-
B60	LKD	6.40	High	Compliant	6.40	High	Compliant
B60	Bed 1	3.40	Medium	-	3.40	Medium	-
B60	Bed 2	3.40	Medium	-	3.40	Medium	-
B61	LKD	6.40	High	Compliant	6.40	High	Compliant
B61	Bed 1	1.50	Minimum	-	1.50	Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.

** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.

*** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.11 SE Results: Block C

Table No. C.3.11 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
C01	LKD	1.20	Below Minimum	Non-Compliant	1.20	Below Minimum	Non-Compliant
C01	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C01	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C02	LKD	0.40	Below Minimum	-	1.10	Below Minimum	-
C02	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
C02	Bed 2	2.30	Minimum	Compliant	2.50	Minimum	Compliant
C03	LKD	4.00	High	Compliant	4.70	High	Compliant
C03	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C03	Bed 2	0.50	Below Minimum	-	1.30	Below Minimum	-
C04	LKD	3.60	Medium	Compliant	4.40	High	Compliant
C04	Bed 1	3.30	Medium	-	3.30	Medium	-
C04	Bed 2	3.40	Medium	-	3.40	Medium	-
C05	LKD	2.30	Minimum	Compliant	2.30	Minimum	Compliant
C05	Bed 1	0.10	Below Minimum	-	0.10	Below Minimum	-
C05	Bed 2	0.10	Below Minimum	-	0.10	Below Minimum	-
C06	LKD	2.10	Minimum	Compliant	2.10	Minimum	Compliant
C06	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C07	LKD	1.20	Below Minimum	Non-Compliant	1.20	Below Minimum	Non-Compliant
C07	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C07	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C08	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C08	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C08	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C09	LKD	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
C09	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C09	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-
C10	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
C10	Bed 1	0.70	Below Minimum	-	0.70	Below Minimum	-
C11	LKD	2.20	Minimum	Compliant	2.20	Minimum	Compliant
C11	Bed 1	2.00	Minimum	-	2.00	Minimum	-
C11	Bed 2	2.20	Minimum	-	2.20	Minimum	-
C12	LKD	5.70	High	Compliant	5.70	High	Compliant
C12	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C12	Bed 2	1.30	Below Minimum	-	1.30	Below Minimum	-
C13	LKD	6.20	High	Compliant	6.20	High	Compliant
C13	Bed 1	3.30	Medium	-	3.30	Medium	-
C13	Bed 2	3.30	Medium	-	3.30	Medium	-
C14	LKD	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C14	Bed 1	0.50	Below Minimum	-	0.50	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.12 SE Results: Block C

Table No. C.3.12 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
C14	Bed 2	0.50	Below Minimum	-	0.50	Below Minimum	-
C15	LKD	2.40	Minimum	Compliant	2.40	Minimum	Compliant
C15	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C16	LKD	1.40	Below Minimum	Non-Compliant	1.40	Below Minimum	Non-Compliant
C16	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C16	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C17	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C17	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C17	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C18	LKD	0.50	Below Minimum	-	0.50	Below Minimum	-
C18	Bed 1	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
C18	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-
C19	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
C19	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
C20	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C20	Bed 1	2.00	Minimum	-	2.00	Minimum	-
C20	Bed 2	2.20	Minimum	Compliant	2.20	Minimum	Compliant
C21	LKD	5.60	High	Compliant	5.60	High	Compliant
C21	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C21	Bed 2	1.30	Below Minimum	-	1.30	Below Minimum	-
C22	LKD	6.20	High	Compliant	6.20	High	Compliant
C22	Bed 1	2.90	Minimum	-	2.90	Minimum	-
C22	Bed 2	3.30	Medium	-	3.30	Medium	-
C23	LKD	2.90	Minimum	Compliant	2.90	Minimum	Compliant
C23	Bed 1	0.80	Below Minimum	-	0.80	Below Minimum	-
C23	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C24	LKD	3.10	Medium	Compliant	3.10	Medium	Compliant
C24	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C24	Bed 2	0.90	Below Minimum	-	0.90	Below Minimum	-
C25	LKD	2.80	Minimum	Compliant	2.80	Minimum	Compliant
C25	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C26	LKD	1.80	Minimum	Compliant	1.80	Minimum	Compliant
C26	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C26	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C27	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C27	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C27	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C28	LKD	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
C28	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C28	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.13 SE Results: Block C

Table No. C.3.13 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
C29	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
C29	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
C30	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C30	Bed 1	2.00	Minimum	-	2.00	Minimum	-
C30	Bed 2	2.20	Minimum	Compliant	2.20	Minimum	Compliant
C31	LKD	4.70	High	Compliant	4.70	High	Compliant
C31	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C31	Bed 2	1.30	Below Minimum	-	1.30	Below Minimum	-
C32	LKD	6.50	High	Compliant	6.50	High	Compliant
C32	Bed 1	2.30	Minimum	-	2.30	Minimum	-
C32	Bed 2	2.90	Minimum	-	2.90	Minimum	-
C33	LKD	3.20	Medium	Compliant	3.20	Medium	Compliant
C33	Bed 1	1.40	Below Minimum	-	1.40	Below Minimum	-
C33	Bed 2	0.50	Below Minimum	-	0.50	Below Minimum	-
C34	LKD	4.00	High	Compliant	4.00	High	Compliant
C34	Bed 1	1.50	Minimum	-	1.50	Minimum	-
C34	Bed 2	1.50	Minimum	-	1.50	Minimum	-
C35	LKD	3.40	Medium	Compliant	3.40	Medium	Compliant
C35	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C36	LKD	2.70	Minimum	Compliant	2.70	Minimum	Compliant
C36	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C36	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C37	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C37	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C37	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C38	LKD	0.50	Below Minimum	-	0.50	Below Minimum	-
C38	Bed 1	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
C38	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-
C39	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
C39	Bed 1	1.10	Below Minimum	-	1.10	Below Minimum	-
C40	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C40	Bed 1	2.20	Minimum	-	2.20	Minimum	-
C40	Bed 2	3.30	Medium	Compliant	3.30	Medium	Compliant
C41	LKD	5.90	High	Compliant	5.90	High	Compliant
C41	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C41	Bed 2	1.30	Below Minimum	-	1.30	Below Minimum	-
C42	LKD	6.70	High	Compliant	6.70	High	Compliant
C42	Bed 1	3.60	Medium	-	3.60	Medium	-
C42	Bed 2	3.60	Medium	-	3.60	Medium	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.14 SE Results: Block C

Table No. C.3.14 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
C43	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
C43	Bed 1	1.80	Minimum	-	1.80	Minimum	-
C43	Bed 2	1.10	Below Minimum	-	1.10	Below Minimum	-
C44	LKD	4.60	High	Compliant	4.60	High	Compliant
C44	Bed 1	2.10	Minimum	-	2.10	Minimum	-
C44	Bed 2	2.10	Minimum	-	2.10	Minimum	-
C45	LKD	4.30	High	Compliant	4.30	High	Compliant
C45	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
C46	LKD	3.70	Medium	Compliant	3.70	Medium	Compliant
C46	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C46	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
C47	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C47	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C47	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C48	LKD	0.90	Below Minimum	Non-Compliant	0.90	Below Minimum	Non-Compliant
C48	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C48	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-
C49	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
C49	Bed 1	1.00	Below Minimum	-	1.00	Below Minimum	-
C50	LKD	1.00	Below Minimum	-	1.00	Below Minimum	-
C50	Bed 1	3.30	Medium	Compliant	3.30	Medium	Compliant
C50	Bed 2	3.30	Medium	-	3.30	Medium	-
C51	LKD	6.10	High	Compliant	6.10	High	Compliant
C51	Bed 1	3.00	Medium	-	3.00	Medium	-
C51	Bed 2	1.30	Below Minimum	-	1.30	Below Minimum	-
C52	LKD	7.20	High	Compliant	7.20	High	Compliant
C52	Bed 1	4.20	High	-	4.20	High	-
C52	Bed 2	4.20	High	-	4.20	High	-
C53	LKD	4.50	High	Compliant	4.50	High	Compliant
C53	Bed 1	2.40	Minimum	-	2.40	Minimum	-
C53	Bed 2	1.60	Minimum	-	1.60	Minimum	-
C54	LKD	5.40	High	Compliant	5.40	High	Compliant
C54	Bed 1	3.10	Medium	-	3.10	Medium	-
C54	Bed 2	2.90	Minimum	-	2.90	Minimum	-
C55	LKD	5.20	High	Compliant	5.20	High	Compliant
C55	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C56	LKD	4.40	High	Compliant	4.40	High	Compliant
C56	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
C56	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.15 SE Results: Block C

Table No. C.3.15 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
C57	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
C57	Bed 1	1.70	Minimum	-	1.70	Minimum	-
C57	Bed 2	2.50	Minimum	Compliant	2.50	Minimum	Compliant
C58	LKD	3.20	Medium	Compliant	3.20	Medium	Compliant
C58	Bed 1	0.90	Below Minimum	-	0.90	Below Minimum	-
C58	Bed 2	0.70	Below Minimum	-	0.70	Below Minimum	-
C59	LKD	9.40	High	Compliant	9.40	High	Compliant
C59	Bed 1	2.90	Minimum	-	2.90	Minimum	-
C59	Bed 2	7.60	High	-	7.60	High	-
C59	Bed 3	4.50	High	-	4.50	High	-
C60	LKD	6.40	High	Compliant	6.40	High	Compliant
C60	Bed 1	3.40	Medium	-	3.40	Medium	-
C60	Bed 2	3.40	Medium	-	3.40	Medium	-
C61	LKD	6.40	High	Compliant	6.40	High	Compliant
C61	Bed 1	1.50	Minimum	-	1.50	Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.

** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.

*** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.16 SE Results: Block D

Table No. C.3.16 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
D01	LKD	0.80	Below Minimum	-	0.80	Below Minimum	-
D01	Bed 1	3.30	Medium	-	3.60	Medium	Compliant
D01	Bed 2	3.60	Medium	Compliant	3.60	Medium	-
D02	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D02	Bed 1	3.60	Medium	-	3.60	Medium	-
D02	Bed 2	3.60	Medium	-	3.60	Medium	-
D03	LKD	6.90	High	Compliant	6.90	High	-
D03	Bed 1	5.30	High	-	8.20	High	-
D03	Bed 2	6.60	High	-	8.30	High	Compliant
D04	LKD	4.90	High	Compliant	7.90	High	Compliant
D04	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D05	LKD	6.30	High	Compliant	7.30	High	Compliant
D05	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D06	LKD	0.00	Below Minimum	-	0.00	Below Minimum	-
D06	Bed 1	0.70	Below Minimum	Non-Compliant	0.70	Below Minimum	Non-Compliant
D06	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D06	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D07	LKD	0.70	Below Minimum	-	0.70	Below Minimum	-
D07	Bed 1	3.60	Medium	Compliant	3.60	Medium	Compliant
D07	Bed 2	3.60	Medium	-	3.60	Medium	-
D08	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D08	Bed 1	3.60	Medium	-	3.60	Medium	-
D08	Bed 2	3.60	Medium	-	3.60	Medium	-
D09	LKD	6.90	High	-	6.90	High	-
D09	Bed 1	8.20	High	-	8.20	High	-
D09	Bed 2	8.30	High	Compliant	8.30	High	Compliant
D10	LKD	7.80	High	Compliant	7.80	High	Compliant
D10	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D11	LKD	7.30	High	Compliant	7.30	High	Compliant
D11	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D12	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
D12	Bed 1	1.00	Below Minimum	Non-Compliant	1.00	Below Minimum	Non-Compliant
D12	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D12	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D13	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
D13	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D13	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D14	LKD	0.40	Below Minimum	Non-Compliant	0.40	Below Minimum	Non-Compliant
D14	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D14	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D14	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.17 SE Results: Block D

Table No. C.3.17 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
D15	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D15	Bed 1	3.60	Medium	Compliant	3.60	Medium	Compliant
D15	Bed 2	3.60	Medium	-	3.60	Medium	-
D16	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D16	Bed 1	3.60	Medium	-	3.60	Medium	-
D16	Bed 2	3.60	Medium	-	3.60	Medium	-
D17	LKD	6.90	High	-	6.90	High	-
D17	Bed 1	8.60	High	-	8.60	High	-
D17	Bed 2	8.80	High	Compliant	8.80	High	Compliant
D18	LKD	8.10	High	Compliant	8.10	High	Compliant
D18	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D19	LKD	7.40	High	Compliant	7.40	High	Compliant
D19	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D20	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
D20	Bed 1	1.50	Minimum	Compliant	1.50	Minimum	Compliant
D20	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D20	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D21	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
D21	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D21	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D22	LKD	0.70	Below Minimum	Non-Compliant	0.70	Below Minimum	Non-Compliant
D22	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D22	Bed 2	0.10	Below Minimum	-	0.10	Below Minimum	-
D22	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D23	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D23	Bed 1	3.60	Medium	Compliant	3.60	Medium	Compliant
D23	Bed 2	3.60	Medium	-	3.60	Medium	-
D24	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D24	Bed 1	3.60	Medium	-	3.60	Medium	-
D24	Bed 2	3.60	Medium	-	3.60	Medium	-
D25	LKD	6.90	High	-	6.90	High	-
D25	Bed 1	8.70	High	-	8.70	High	-
D25	Bed 2	8.80	High	Compliant	8.80	High	Compliant
D26	LKD	8.60	High	Compliant	8.60	High	Compliant
D26	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D27	LKD	8.00	High	Compliant	8.00	High	Compliant
D27	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D28	LKD	0.90	Below Minimum	-	0.90	Below Minimum	-
D28	Bed 1	1.70	Minimum	Compliant	1.70	Minimum	Compliant
D28	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D28	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.18 SE Results: Block D

Table No. C.3.18 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
D29	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
D29	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D29	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D30	LKD	2.20	Minimum	Compliant	2.20	Minimum	Compliant
D30	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D30	Bed 2	0.60	Below Minimum	-	0.60	Below Minimum	-
D30	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D31	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D31	Bed 1	3.60	Medium	Compliant	3.60	Medium	Compliant
D31	Bed 2	3.60	Medium	-	3.60	Medium	-
D32	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D32	Bed 1	3.60	Medium	-	3.60	Medium	-
D32	Bed 2	3.60	Medium	-	3.60	Medium	-
D33	LKD	6.90	High	-	6.90	High	-
D33	Bed 1	8.60	High	Compliant	8.60	High	Compliant
D33	Bed 2	8.60	High	-	8.60	High	-
D34	LKD	8.80	High	Compliant	8.80	High	Compliant
D34	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D35	LKD	8.50	High	Compliant	8.50	High	Compliant
D35	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D36	LKD	1.80	Minimum	-	1.80	Minimum	-
D36	Bed 1	3.10	Medium	Compliant	3.10	Medium	Compliant
D36	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D36	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D37	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
D37	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D37	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D38	LKD	4.40	High	Compliant	4.40	High	Compliant
D38	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D38	Bed 2	1.80	Minimum	-	1.80	Minimum	-
D38	Bed 3	0.90	Below Minimum	-	0.90	Below Minimum	-
D39	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D39	Bed 1	3.30	Medium	Compliant	3.30	Medium	Compliant
D39	Bed 2	3.30	Medium	-	3.30	Medium	-
D40	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
D40	Bed 1	3.30	Medium	-	3.30	Medium	-
D40	Bed 2	3.30	Medium	-	3.30	Medium	-
D41	LKD	6.90	High	-	6.90	High	-
D41	Bed 1	9.10	High	Compliant	9.10	High	Compliant
D41	Bed 2	9.10	High	-	9.10	High	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.19 SE Results: Block D

Table No. C.3.19 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
D42	LKD	9.10	High	Compliant	9.10	High	Compliant
D42	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D43	LKD	8.80	High	Compliant	8.80	High	Compliant
D43	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D44	LKD	3.50	Medium	Compliant	3.50	Medium	Compliant
D44	Bed 1	3.50	Medium	-	3.50	Medium	-
D44	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D44	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
D45	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
D45	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
D45	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
D46	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
D46	Bed 1	0.20	Below Minimum	-	0.20	Below Minimum	-
D46	Bed 2	3.40	Medium	-	3.40	Medium	-
D46	Bed 3	3.40	Medium	-	3.40	Medium	-
D47	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D47	Bed 1	3.30	Medium	Compliant	3.30	Medium	Compliant
D47	Bed 2	3.30	Medium	-	3.30	Medium	-
D48	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
D48	Bed 1	3.30	Medium	-	3.30	Medium	-
D48	Bed 2	3.30	Medium	-	3.30	Medium	-
D49	LKD	6.90	High	-	6.90	High	-
D49	Bed 1	8.60	High	Compliant	8.60	High	Compliant
D49	Bed 2	8.60	High	-	8.60	High	-
D50	LKD	4.50	High	Compliant	4.50	High	Compliant
D50	Bed 1	2.80	Minimum	-	2.80	Minimum	-
D50	Bed 2	4.20	High	-	4.20	High	-
D50	Bed 3	4.10	High	-	4.10	High	-
D51	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D51	Bed 1	2.50	Minimum	Compliant	2.50	Minimum	Compliant
D51	Bed 2	2.50	Minimum	-	2.50	Minimum	-
D52	LKD	3.10	Medium	Compliant	3.10	Medium	Compliant
D52	Bed 1	2.50	Minimum	-	2.50	Minimum	-
D52	Bed 2	2.50	Minimum	-	2.50	Minimum	-
D53	LKD	7.00	High	-	7.00	High	-
D53	Bed 1	9.40	High	Compliant	9.40	High	Compliant
D53	Bed 2	9.10	High	-	9.10	High	-
D54	LKD	4.70	High	Compliant	4.70	High	Compliant
D54	Bed 1	3.00	Medium	-	3.00	Medium	-
D54	Bed 2	4.50	High	-	4.50	High	-
D54	Bed 3	4.20	High	-	4.20	High	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.20 SE Results: Block D

Table No. C.3.20 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
D55	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
D55	Bed 1	3.30	Medium	Compliant	3.30	Medium	Compliant
D55	Bed 2	3.30	Medium	-	3.30	Medium	-
D56	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
D56	Bed 1	3.30	Medium	-	3.30	Medium	-
D56	Bed 2	3.30	Medium	-	3.30	Medium	-
D57	LKD	7.00	High	-	7.00	High	-
D57	Bed 1	9.40	High	Compliant	9.40	High	Compliant
D57	Bed 2	8.60	High	-	8.60	High	-
D58	LKD	4.50	High	Compliant	4.50	High	Compliant
D58	Bed 1	2.80	Minimum	-	2.80	Minimum	-
D58	Bed 2	4.20	High	-	4.20	High	-
D58	Bed 3	4.10	High	-	4.10	High	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.

** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.

*** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.

For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.21 SE Results: Block E

Table No. C.3.21 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
E01	LKD	0.50	Below Minimum	Non-Compliant	0.50	Below Minimum	Non-Compliant
E01	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E01	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E01	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E02	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
E02	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E02	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E03	LKD	7.80	High	Compliant	7.80	High	Compliant
E03	Bed 1	3.60	Medium	-	3.60	Medium	-
E03	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E03	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E04	LKD	8.40	High	Compliant	8.40	High	Compliant
E04	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E05	LKD	7.10	High	Compliant	7.10	High	Compliant
E05	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E06	LKD	1.50	Minimum	-	1.50	Minimum	-
E06	Bed 1	3.70	Medium	Compliant	3.70	Medium	Compliant
E06	Bed 2	1.40	Below Minimum	-	1.40	Below Minimum	-
E07	LKD	3.00	Medium	-	3.00	Medium	-
E07	Bed 1	4.20	High	Compliant	4.20	High	Compliant
E07	Bed 2	2.90	Minimum	-	2.90	Minimum	-
E08	LKD	0.50	Below Minimum	Non-Compliant	0.50	Below Minimum	Non-Compliant
E08	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E08	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E08	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E09	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
E09	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E09	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E10	LKD	7.80	High	Compliant	7.80	High	Compliant
E10	Bed 1	3.60	Medium	-	3.60	Medium	-
E10	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E10	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E11	LKD	9.40	High	Compliant	9.40	High	Compliant
E11	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E12	LKD	8.60	High	Compliant	8.60	High	Compliant
E12	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E13	LKD	3.50	Medium	-	3.50	Medium	-
E13	Bed 1	4.70	High	Compliant	4.70	High	Compliant
E13	Bed 2	2.60	Minimum	-	2.60	Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.22 SE Results: Block E

Table No. C.3.22 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
E14	LKD	4.30	High	-	4.30	High	-
E14	Bed 1	4.50	High	Compliant	4.50	High	Compliant
E14	Bed 2	4.50	High	-	4.50	High	-
E15	LKD	0.80	Below Minimum	-	0.80	Below Minimum	-
E15	Bed 1	4.50	High	Compliant	4.50	High	Compliant
E15	Bed 2	4.50	High	-	4.50	High	-
E16	LKD	0.40	Below Minimum	Non-Compliant	0.40	Below Minimum	Non-Compliant
E16	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E16	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E16	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E17	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
E17	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E17	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E18	LKD	7.80	High	Compliant	7.80	High	Compliant
E18	Bed 1	2.50	Minimum	-	2.50	Minimum	-
E18	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E18	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E19	LKD	9.10	High	Compliant	9.10	High	Compliant
E19	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E20	LKD	9.10	High	Compliant	9.10	High	Compliant
E20	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E21	LKD	3.90	Medium	-	3.90	Medium	-
E21	Bed 1	7.10	High	Compliant	7.10	High	Compliant
E21	Bed 2	7.10	High	-	7.10	High	-
E22	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
E22	Bed 1	3.40	Medium	-	3.40	Medium	-
E22	Bed 2	3.40	Medium	-	3.40	Medium	-
E23	LKD	1.10	Below Minimum	-	1.10	Below Minimum	-
E23	Bed 1	3.40	Medium	Compliant	3.40	Medium	Compliant
E23	Bed 2	3.40	Medium	-	3.40	Medium	-
E24	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
E24	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E24	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E24	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E25	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
E25	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E25	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E26	LKD	7.80	High	Compliant	7.80	High	Compliant
E26	Bed 1	3.50	Medium	-	3.50	Medium	-
E26	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E26	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.23 SE Results: Block E

Table No. C.3.23 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
E27	LKD	9.40	High	Compliant	9.40	High	Compliant
E27	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E28	LKD	9.40	High	Compliant	9.40	High	Compliant
E28	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E29	LKD	4.50	High	-	4.50	High	-
E29	Bed 1	8.60	High	Compliant	8.60	High	Compliant
E29	Bed 2	8.60	High	-	8.60	High	-
E30	LKD	4.50	High	Compliant	4.50	High	Compliant
E30	Bed 1	4.20	High	-	4.20	High	-
E30	Bed 2	4.20	High	-	4.20	High	-
E31	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
E31	Bed 1	4.20	High	Compliant	4.20	High	Compliant
E31	Bed 2	4.20	High	-	4.20	High	-
E32	LKD	3.10	Medium	Compliant	3.10	Medium	Compliant
E32	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E32	Bed 2	2.50	Minimum	-	2.50	Minimum	-
E32	Bed 3	0.20	Below Minimum	-	0.20	Below Minimum	-
E33	LKD	0.00	Below Minimum	Non-Compliant	0.00	Below Minimum	Non-Compliant
E33	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E33	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E34	LKD	7.80	High	Compliant	7.80	High	Compliant
E34	Bed 1	3.60	Medium	-	3.60	Medium	-
E34	Bed 2	0.00	Below Minimum	-	0.00	Below Minimum	-
E34	Bed 3	0.00	Below Minimum	-	0.00	Below Minimum	-
E35	LKD	9.10	High	Compliant	9.10	High	Compliant
E35	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E36	LKD	9.10	High	Compliant	9.10	High	Compliant
E36	Bed 1	0.00	Below Minimum	-	0.00	Below Minimum	-
E37	LKD	3.90	Medium	-	3.90	Medium	-
E37	Bed 1	7.10	High	Compliant	7.10	High	Compliant
E37	Bed 2	7.10	High	-	7.10	High	-
E38	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
E38	Bed 1	3.40	Medium	-	3.40	Medium	-
E38	Bed 2	3.40	Medium	-	3.40	Medium	-
E39	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
E39	Bed 1	3.40	Medium	Compliant	3.40	Medium	Compliant
E39	Bed 2	3.40	Medium	-	3.40	Medium	-
E40	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
E40	Bed 1	1.80	Minimum	-	1.80	Minimum	-
E40	Bed 2	3.30	Medium	-	3.30	Medium	-
E40	Bed 3	3.20	Medium	-	3.20	Medium	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.3.24 SE Results: Block E

Table No. C.3.24 - Sunlight Exposure Results:							
Unit Number	Room Description	Deciduous Trees as Opaque Objects*			Without Deciduous Trees*		
		SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**	SE Hours on March 21st	Level of SE on March 21st***	Unit compliance based on highest performing room**
E41	LKD	4.50	High	-	4.50	High	-
E41	Bed 1	8.60	High	Compliant	8.60	High	Compliant
E41	Bed 2	8.60	High	-	8.60	High	-
E42	LKD	4.50	High	Compliant	4.50	High	Compliant
E42	Bed 1	4.20	High	-	4.20	High	-
E42	Bed 2	4.20	High	-	4.20	High	-
E43	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
E43	Bed 1	4.20	High	Compliant	4.20	High	Compliant
E43	Bed 2	4.20	High	-	4.20	High	-
E44	LKD	3.10	Medium	Compliant	3.10	Medium	Compliant
E44	Bed 1	1.50	Minimum	-	1.50	Minimum	-
E44	Bed 2	2.50	Minimum	-	2.50	Minimum	-
E44	Bed 3	2.50	Minimum	-	2.50	Minimum	-
E45	LKD	3.90	Medium	-	3.90	Medium	-
E45	Bed 1	7.70	High	Compliant	7.70	High	Compliant
E45	Bed 2	7.10	High	-	7.10	High	-
E46	LKD	3.90	Medium	Compliant	3.90	Medium	Compliant
E46	Bed 1	3.40	Medium	-	3.40	Medium	-
E46	Bed 2	3.40	Medium	-	3.40	Medium	-
E47	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
E47	Bed 1	3.40	Medium	Compliant	3.40	Medium	Compliant
E47	Bed 2	3.40	Medium	-	3.40	Medium	-
E48	LKD	3.60	Medium	Compliant	3.60	Medium	Compliant
E48	Bed 1	1.80	Minimum	-	1.80	Minimum	-
E48	Bed 2	3.30	Medium	-	3.30	Medium	-
E48	Bed 3	3.20	Medium	-	3.20	Medium	-
E49	LKD	4.50	High	-	4.50	High	-
E49	Bed 1	8.60	High	Compliant	8.60	High	Compliant
E49	Bed 2	8.60	High	-	8.60	High	-
E50	LKD	4.50	High	Compliant	4.50	High	Compliant
E50	Bed 1	4.20	High	-	4.20	High	-
E50	Bed 2	4.20	High	-	4.20	High	-
E51	LKD	1.20	Below Minimum	-	1.20	Below Minimum	-
E51	Bed 1	4.20	High	Compliant	4.20	High	Compliant
E51	Bed 2	4.20	High	-	4.20	High	-

* Rooms are tested with deciduous trees as opaque objects and without deciduous trees to account for the range of possible sunlight hours.
 ** Section 3.1 of the BRE Guidelines recommend that for a unit to be compliant any room within the unit should receive a minimum of 1.5 hours of direct sunlight on March 21st, preferably a main living room. The SE circa compliance rates can be found in section 3.2.2 on page 26.
 *** For the interpretation of levels of Sunlight Exposure please refer to "E.3 Definition of Levels of Sunlight Exposure" on page 171.
 For floor plans of the assessed units please refer to section C.1 on page 52.

C.4 Sun On Ground (SOG) in Proposed Outdoor Amenity Areas

Below is an example of the table used to describe SOG in proposed gardens and amenity spaces.

Table Example. C.4 - Scheme Performance SOG					
Assigned Area Number	Assessed Area	Area Capable of Receiving 2 Hours of Sunlight on March 21st	Recommended Minimum	Level of Compliance with BRE Guidelines	Meets BRE 209 Criteria
A	B	C	D	E	F

A: Assigned Area Number

This column indicates the number that 3DDB have assigned to the assessed areas, which is included for the sole purpose of aiding in the identification of the corresponding space shown in the corresponding figure.

B: Assessed Area

This column identifies the assessed garden/amenity area.

C: Area Capable of Receiving 2 Hours of Sunlight on March 21st

The percentage of the proposed area that can receive more than 2 hours of sunlight on March 21st.

D: Recommended Minimum

Section 3.3.17 of the BRE Guidelines state that the percentage of a garden/amenity area that can receive more than 2 hours of sunlight on March 21st should be 50%. The target value for all spaces is set to 50%.

E: Level of Compliance with BRE Guidelines

This column states the compliance of the assessed space with the *BRE Target Value*. If the assessed garden or amenity area complies with the BRE Guidelines this cell will state "*BRE Compliant*". If the garden or amenity area does not meet the criteria as set out in the BRE Guidelines, a percentage of compliance with the *recommended minimum* will be stated.

F: Meets BRE 209 Criteria

This column states if the assessed area achieves the recommended level of sunlight on March 21st as per BRE 209.

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

C.4.1 Sun On Ground in Proposed Outdoor Amenity Areas

Table No. C.4.1 - SOG in Proposed Outdoor Amenity Areas Results:					
Assigned Area Number	Assessed Area	Area Capable of Receiving 2 Hours of Sunlight on March 21st	Recommended minimum	Level of Compliance with BRE Guidelines*	Meets BRE 209 Criteria*
POS 1	Public Open Space 1	99.08%	50.00%	BRE Compliant	Yes
POS 2	Public Open Space 2	93.82%	50.00%	BRE Compliant	Yes
POS 3	Public Open Space 3	51.53%	50.00%	BRE Compliant	Yes
COS 1	Communal Open Space 1	77.51%	50.00%	BRE Compliant	Yes
COS 2	Communal Open Space 2	78.82%	50.00%	BRE Compliant	Yes
COS 3	Communal Open Space 3	98.89%	50.00%	BRE Compliant	Yes
COS 4	Communal Open Space 4	98.42%	50.00%	BRE Compliant	Yes

* Section 3.3.17 of the BRE Guidelines recommends that for a garden or amenity to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on March 21st.

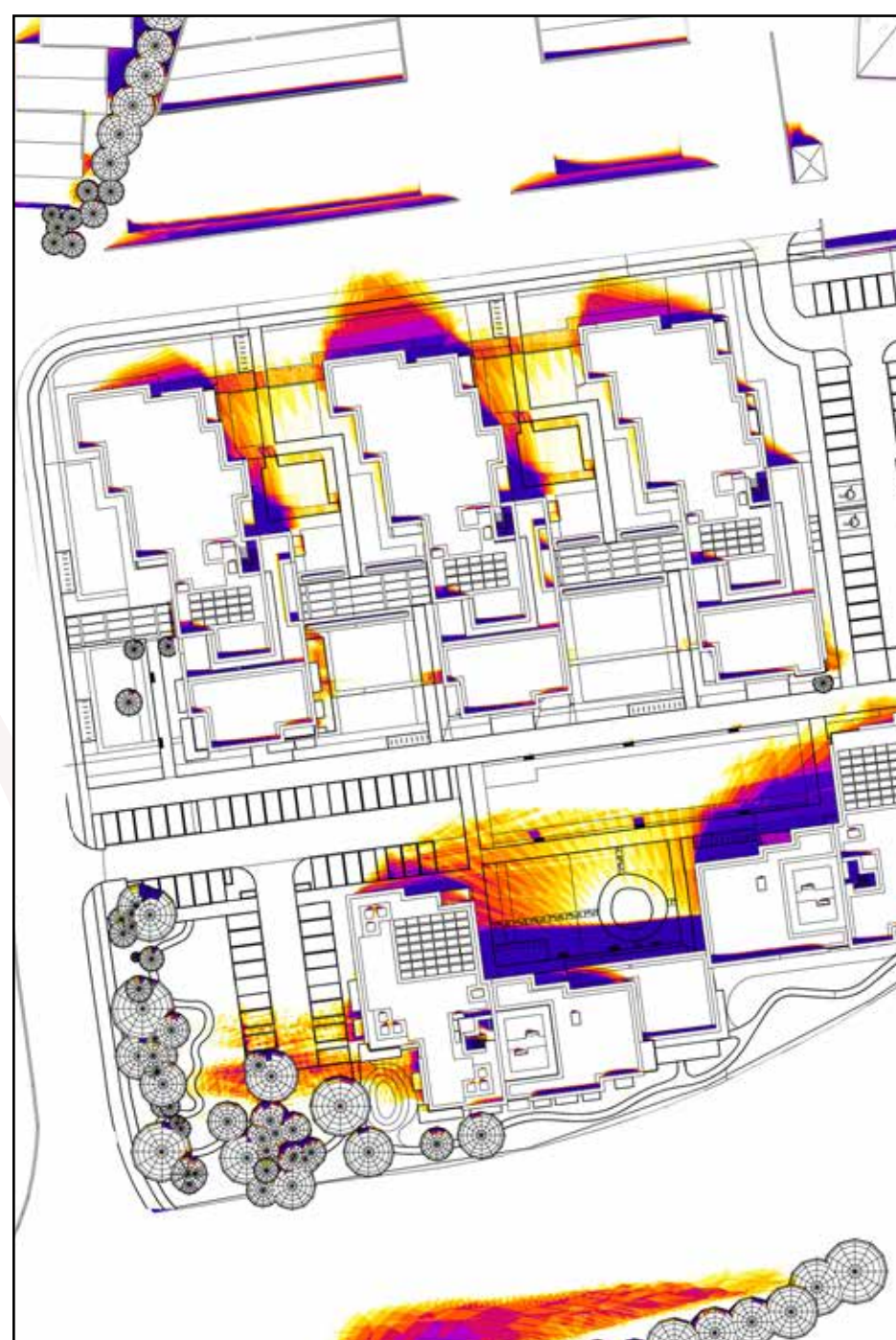


Figure C.44: Indication of the amenity areas that have been analysed (L), Area capable of receiving 2 hours of sunlight on March 21st shown in white (R)

D.0 Supplementary Study Results

D.1 SDA study, under the I.S. EN 17037 criteria

Below is an example of the table used to describe the supplementary study results for proposed units in the assessment of SDA under the I.S. EN 17037 criteria. In cases where rooms comply with the criteria of BRE 209 but do not meet the criteria of I.S. EN 17037, it is the recommendation of 3D Design Bureau that these rooms will be adequately daylighted. This recommendation is based on the fact that BRE 209 provides room-specific criteria, unlike I.S. EN 17037. BRE 209 considers the varying daylight requirements for different room types, which I.S. EN 17037 does not account for.

Table Example. D.1 - Supplementary Scheme Performance SDA (I.S. EN 17037 criteria)						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria
		Area above 300 Lux	Area above 100 Lux	Area above 300 Lux	Area above 100 Lux	
A	B	C	D	E	F	G

A: Unit Number

This column identifies the assessed unit. All unit numbers are determined by the architect's drawings, unless otherwise stated.

B: Room Description

Room Description details which room in the unit has been assessed, e.g. bedroom, LKD, etc.

C: % of area above 300 Lux (No Trees)

I.S. EN 17037 recommends at least 50% of the working plane receives above 300 lux for at least half the daylight hours.

This column states percentage of the working plane of the assessed room that is capable of receiving more than 300 lux for at least half the daylight hours when the assessment is carried out without trees in the analytical model.

D: % of area above 100 Lux (No Trees)

I.S. EN 17037 recommends at least 95% of the working plane receives above 100 lux for at least half the daylight hours.

This column states percentage of the working plane of the assessed room that is capable of receiving more than 100 lux for at least half the daylight hours when the assessment is carried out without trees in the analytical model.

E: % of area above 300 Lux (With Trees)

I.S. EN 17037 recommends at least 50% of the working plane receives above 300 lux for at least half the daylight hours.

This column states percentage of the working plane of the assessed room that is capable of receiving more than 300 lux for at least half the daylight hours with the foliage of deciduous trees varied to account for summer and winter conditions, i.e. full leaf and bare branch.

F: % of area above 100 Lux (With Trees)

I.S. EN 17037 recommends at least 95% of the working plane receives above 100 lux for at least half the daylight hours.

This column states percentage of the working plane of the assessed room that is capable of receiving more than 100 lux for at least half the daylight hours with the foliage of deciduous trees varied to account for summer and winter conditions.

G: Compliance with I.S. EN 17037 Criteria

This column states if the assessed room achieves the recommended level of daylight as per I.S. EN 17037 with consideration to the various tree states.

If the recommended lux levels are achieved on the working plane, for half the daylight hours, both with and without trees, this column will state: *'Compliant'*.

If the recommended lux levels are not achieved on the working plane, for half the daylight hours, both with and without trees, this column will state: *'Non-compliant'*.

If the recommended lux levels are achieved on the working plane, for half the daylight hours, without trees but are not achieved with trees, this column will state: *'Trees affecting compliance'*.

Compliance rates will be stated for SDA compliance with trees in all of the above states.

It should be noted that the figures displayed in the table of results have been rounded off. A manual calculation of these figures may yield a negligible difference and should not be considered an error.

D.1.1 Supplementary SDA Results (I.S. EN 17037 criteria): Block A

Table No. D.1.1 - Supplementary SDA Results (I.S. EN 17037 criteria):

Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
Creche	Classroom 0	100%	100%	98%	100%	Compliant
Creche	Office	100%	100%	100%	100%	Compliant
Creche	Play Area	42%	100%	33%	100%	Non-compliant
Creche	Sleeping Area	63%	100%	37%	100%	Trees affecting compliance
Creche	Staff Room/ Kitchen	5%	15%	5%	15%	Non-compliant
Creche	Classroom 1	100%	100%	100%	100%	Compliant
Creche	Classroom 2	35%	100%	14%	100%	Non-compliant
Creche	Classroom 3	1%	36%	1%	32%	Non-compliant
Creche	Classroom 4	65%	100%	52%	100%	Compliant
A01	LKD	100%	100%	91%	100%	Compliant
A01	Bed 1	79%	100%	63%	100%	Compliant
A01	Bed 2	88%	100%	52%	100%	Compliant
A02	LKD	48%	100%	29%	100%	Non-compliant
A02	Bed 1	11%	48%	9%	43%	Non-compliant
A02	Bed 2	11%	73%	11%	61%	Non-compliant
A03	LKD	66%	100%	36%	100%	Trees affecting compliance
A03	Bed 1	70%	100%	38%	100%	Trees affecting compliance
A03	Bed 2	98%	100%	68%	100%	Compliant
A04	LKD	71%	100%	38%	100%	Trees affecting compliance
A04	Bed 1	0%	100%	0%	12%	Non-compliant
A05	LKD	100%	100%	99%	100%	Compliant
A05	Bed 1	100%	100%	94%	100%	Compliant
A05	Bed 2	100%	100%	100%	100%	Compliant
A06	LKD	81%	100%	71%	100%	Compliant
A06	Bed 1	11%	66%	11%	63%	Non-compliant
A06	Bed 2	18%	100%	18%	100%	Non-compliant
A07	LKD	24%	98%	22%	91%	Non-compliant
A07	Bed 1	0%	0%	0%	0%	Non-compliant
A07	Bed 2	0%	6%	0%	3%	Non-compliant
A08	LKD	28%	58%	26%	56%	Non-compliant
A08	Bed 1	21%	100%	19%	99%	Non-compliant
A09	LKD	42%	100%	29%	81%	Non-compliant
A09	Bed 1	25%	100%	25%	100%	Non-compliant
A09	Bed 2	28%	100%	25%	100%	Non-compliant
A10	LKD	81%	100%	57%	100%	Compliant
A10	Bed 1	87%	100%	53%	100%	Compliant
A10	Bed 2	100%	100%	95%	100%	Compliant
A11	LKD	88%	100%	48%	100%	Trees affecting compliance
A11	Bed 1	0%	100%	0%	33%	Non-compliant
A12	LKD	100%	100%	100%	100%	Compliant
A12	Bed 1	100%	100%	100%	100%	Compliant
A12	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.2 Supplementary SDA Results (I.S. EN 17037 criteria): Block A

Table No. D.1.2 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
A13	LKD	95%	100%	89%	100%	Compliant
A13	Bed 1	21%	79%	20%	77%	Non-compliant
A13	Bed 2	27%	100%	27%	100%	Non-compliant
A14	LKD	28%	100%	28%	100%	Non-compliant
A14	Bed 1	0%	8%	0%	8%	Non-compliant
A14	Bed 2	0%	28%	0%	28%	Non-compliant
A15	LKD	44%	85%	43%	83%	Non-compliant
A15	Bed 1	0%	58%	0%	56%	Non-compliant
A16	LKD	25%	97%	24%	95%	Non-compliant
A16	Bed 1	0%	56%	0%	52%	Non-compliant
A16	Bed 2	0%	50%	0%	47%	Non-compliant
A17	LKD	100%	100%	93%	100%	Compliant
A17	Bed 1	35%	100%	33%	100%	Non-compliant
A17	Bed 2	27%	100%	27%	100%	Non-compliant
A18	LKD	100%	100%	100%	100%	Compliant
A18	Bed 1	100%	100%	86%	100%	Compliant
A18	Bed 2	100%	100%	100%	100%	Compliant
A19	LKD	12%	100%	3%	100%	Non-compliant
A19	Bed 1	100%	100%	89%	100%	Compliant
A19	Bed 2	100%	100%	100%	100%	Compliant
A20	LKD	94%	100%	64%	100%	Compliant
A20	Bed 1	93%	100%	68%	100%	Compliant
A20	Bed 2	100%	100%	98%	100%	Compliant
A21	LKD	98%	100%	66%	100%	Compliant
A21	Bed 1	0%	100%	0%	73%	Non-compliant
A22	LKD	100%	100%	100%	100%	Compliant
A22	Bed 1	100%	100%	100%	100%	Compliant
A22	Bed 2	100%	100%	100%	100%	Compliant
A23	LKD	97%	100%	96%	100%	Compliant
A23	Bed 1	32%	91%	32%	88%	Non-compliant
A23	Bed 2	41%	100%	41%	100%	Non-compliant
A24	LKD	37%	100%	36%	100%	Non-compliant
A24	Bed 1	0%	27%	0%	25%	Non-compliant
A24	Bed 2	0%	59%	0%	56%	Non-compliant
A25	LKD	48%	95%	47%	94%	Non-compliant
A25	Bed 1	0%	98%	0%	92%	Non-compliant
A26	LKD	30%	99%	30%	99%	Non-compliant
A26	Bed 1	8%	88%	8%	85%	Non-compliant
A26	Bed 2	0%	91%	0%	84%	Non-compliant
A27	LKD	100%	100%	100%	100%	Compliant
A27	Bed 1	52%	100%	50%	100%	Compliant
A27	Bed 2	43%	100%	43%	100%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.3 Supplementary SDA Results (I.S. EN 17037 criteria): Block A

Table No. D.1.3 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
A28	LKD	100%	100%	100%	100%	Compliant
A28	Bed 1	100%	100%	98%	100%	Compliant
A28	Bed 2	100%	100%	100%	100%	Compliant
A29	LKD	18%	100%	9%	100%	Non-compliant
A29	Bed 1	100%	100%	100%	100%	Compliant
A29	Bed 2	100%	100%	100%	100%	Compliant
A30	LKD	99%	100%	72%	100%	Compliant
A30	Bed 1	98%	100%	80%	100%	Compliant
A30	Bed 2	100%	100%	100%	100%	Compliant
A31	LKD	99%	100%	78%	100%	Compliant
A31	Bed 1	0%	100%	0%	100%	Non-compliant
A32	LKD	100%	100%	100%	100%	Compliant
A32	Bed 1	100%	100%	100%	100%	Compliant
A32	Bed 2	100%	100%	100%	100%	Compliant
A33	LKD	97%	100%	97%	100%	Compliant
A33	Bed 1	39%	98%	39%	93%	Non-compliant
A33	Bed 2	55%	100%	55%	100%	Compliant
A34	LKD	44%	100%	44%	100%	Non-compliant
A34	Bed 1	0%	63%	0%	63%	Non-compliant
A34	Bed 2	9%	97%	9%	97%	Non-compliant
A35	LKD	53%	99%	51%	99%	Compliant
A35	Bed 1	31%	100%	31%	100%	Non-compliant
A36	LKD	45%	100%	44%	100%	Non-compliant
A36	Bed 1	23%	100%	21%	100%	Non-compliant
A36	Bed 2	22%	100%	22%	100%	Non-compliant
A37	LKD	100%	100%	100%	100%	Compliant
A37	Bed 1	63%	100%	59%	100%	Compliant
A37	Bed 2	59%	100%	55%	100%	Compliant
A38	LKD	100%	100%	100%	100%	Compliant
A38	Bed 1	100%	100%	100%	100%	Compliant
A38	Bed 2	100%	100%	100%	100%	Compliant
A39	LKD	18%	100%	11%	100%	Non-compliant
A39	Bed 1	100%	100%	100%	100%	Compliant
A39	Bed 2	100%	100%	100%	100%	Compliant
A40	LKD	99%	100%	78%	100%	Compliant
A40	Bed 1	100%	100%	87%	100%	Compliant
A40	Bed 2	100%	100%	100%	100%	Compliant
A41	LKD	99%	100%	83%	100%	Compliant
A41	Bed 1	0%	100%	0%	100%	Non-compliant
A42	LKD	100%	100%	100%	100%	Compliant
A42	Bed 1	100%	100%	100%	100%	Compliant
A42	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.4 Supplementary SDA Results (I.S. EN 17037 criteria): Block A

Table No. D.1.4 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
A43	LKD	99%	100%	99%	100%	Compliant
A43	Bed 1	54%	100%	54%	100%	Compliant
A43	Bed 2	82%	100%	82%	100%	Compliant
A44	LKD	59%	100%	59%	100%	Compliant
A44	Bed 1	12%	94%	12%	92%	Non-compliant
A44	Bed 2	34%	100%	34%	100%	Non-compliant
A45	LKD	59%	100%	59%	100%	Compliant
A45	Bed 1	52%	100%	52%	100%	Compliant
A46	LKD	56%	100%	56%	100%	Compliant
A46	Bed 1	38%	100%	38%	100%	Non-compliant
A46	Bed 2	44%	100%	44%	100%	Non-compliant
A47	LKD	100%	100%	100%	100%	Compliant
A47	Bed 1	74%	100%	74%	100%	Compliant
A47	Bed 2	84%	100%	84%	100%	Compliant
A48	LKD	100%	100%	100%	100%	Compliant
A48	Bed 1	100%	100%	100%	100%	Compliant
A48	Bed 2	100%	100%	100%	100%	Compliant
A49	LKD	24%	100%	15%	100%	Non-compliant
A49	Bed 1	100%	100%	100%	100%	Compliant
A49	Bed 2	100%	100%	100%	100%	Compliant
A50	LKD	99%	100%	82%	100%	Compliant
A50	Bed 1	100%	100%	88%	100%	Compliant
A50	Bed 2	100%	100%	100%	100%	Compliant
A51	LKD	99%	100%	90%	100%	Compliant
A51	Bed 1	0%	100%	0%	100%	Non-compliant
A52	LKD	100%	100%	100%	100%	Compliant
A52	Bed 1	100%	100%	100%	100%	Compliant
A52	Bed 2	100%	100%	100%	100%	Compliant
A53	LKD	100%	100%	100%	100%	Compliant
A53	Bed 1	70%	100%	70%	100%	Compliant
A53	Bed 2	98%	100%	98%	100%	Compliant
A54	LKD	83%	100%	82%	100%	Compliant
A54	Bed 1	63%	100%	63%	100%	Compliant
A54	Bed 2	100%	100%	100%	100%	Compliant
A55	LKD	100%	100%	100%	100%	Compliant
A55	Bed 1	99%	100%	99%	100%	Compliant
A56	LKD	100%	100%	100%	100%	Compliant
A56	BED 1	100%	100%	100%	100%	Compliant
A57	LKD	100%	100%	88%	100%	Compliant
A57	Bed 1	100%	100%	92%	100%	Compliant
A57	Bed 2	100%	100%	100%	100%	Compliant
A58	LKD	99%	100%	96%	100%	Compliant
A58	Bed 1	0%	100%	0%	100%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.5 Supplementary SDA Results (I.S. EN 17037 criteria): Block B

Table No. D.1.5 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
B01	LKD	87%	100%	65%	100%	Compliant
B01	Bed 1	93%	100%	84%	100%	Compliant
B01	Bed 2	81%	100%	52%	100%	Compliant
B02	LKD	41%	100%	27%	100%	Non-compliant
B02	Bed 1	9%	44%	7%	43%	Non-compliant
B02	Bed 2	14%	86%	14%	78%	Non-compliant
B03	LKD	64%	100%	38%	100%	Trees affecting compliance
B03	Bed 1	10%	60%	10%	56%	Non-compliant
B03	Bed 2	7%	41%	7%	39%	Non-compliant
B04	LKD	89%	100%	68%	100%	Compliant
B04	Bed 1	25%	100%	19%	94%	Non-compliant
B04	Bed 2	22%	100%	19%	100%	Non-compliant
B05	LKD	36%	80%	26%	72%	Non-compliant
B05	Bed 1	4%	20%	0%	19%	Non-compliant
B05	Bed 2	9%	55%	9%	45%	Non-compliant
B06	LKD	12%	51%	11%	45%	Non-compliant
B06	Bed 1	0%	0%	0%	0%	Non-compliant
B07	LKD	95%	100%	86%	100%	Compliant
B07	Bed 1	100%	100%	98%	100%	Compliant
B07	Bed 2	100%	100%	100%	100%	Compliant
B08	LKD	69%	100%	64%	100%	Compliant
B08	Bed 1	11%	69%	11%	67%	Non-compliant
B08	Bed 2	22%	100%	22%	100%	Non-compliant
B09	LKD	23%	99%	21%	96%	Non-compliant
B09	Bed 1	0%	0%	0%	0%	Non-compliant
B09	Bed 2	0%	0%	0%	0%	Non-compliant
B10	LKD	27%	59%	27%	56%	Non-compliant
B10	Bed 1	19%	100%	18%	99%	Non-compliant
B11	LKD	12%	48%	9%	44%	Non-compliant
B11	Bed 1	21%	88%	21%	88%	Non-compliant
B11	Bed 2	25%	100%	25%	94%	Non-compliant
B12	LKD	92%	100%	87%	100%	Compliant
B12	Bed 1	18%	77%	17%	73%	Non-compliant
B12	Bed 2	12%	68%	12%	67%	Non-compliant
B13	LKD	97%	100%	87%	100%	Compliant
B13	Bed 1	27%	100%	23%	100%	Non-compliant
B13	Bed 2	28%	100%	27%	100%	Non-compliant
B14	LKD	51%	86%	40%	79%	Non-compliant
B14	Bed 1	7%	43%	7%	33%	Non-compliant
B14	Bed 2	13%	72%	9%	63%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.6 Supplementary SDA Results (I.S. EN 17037 criteria): Block B

Table No. D.1.6 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
B15	LKD	15%	61%	14%	53%	Non-compliant
B15	Bed 1	0%	0%	0%	0%	Non-compliant
B16	LKD	100%	100%	99%	100%	Compliant
B16	Bed 1	100%	100%	100%	100%	Compliant
B16	Bed 2	100%	100%	100%	100%	Compliant
B17	LKD	78%	100%	76%	100%	Compliant
B17	Bed 1	22%	81%	20%	80%	Non-compliant
B17	Bed 2	33%	100%	33%	100%	Non-compliant
B18	LKD	28%	100%	27%	99%	Non-compliant
B18	Bed 1	0%	10%	0%	10%	Non-compliant
B18	Bed 2	0%	10%	0%	8%	Non-compliant
B19	LKD	45%	85%	44%	83%	Non-compliant
B19	Bed 1	0%	45%	0%	42%	Non-compliant
B20	LKD	20%	90%	20%	87%	Non-compliant
B20	Bed 1	0%	52%	0%	45%	Non-compliant
B20	Bed 2	0%	29%	0%	24%	Non-compliant
B21	LKD	90%	100%	88%	100%	Compliant
B21	Bed 1	31%	98%	30%	93%	Non-compliant
B21	Bed 2	25%	98%	25%	98%	Non-compliant
B22	LKD	100%	100%	92%	100%	Compliant
B22	Bed 1	39%	100%	39%	100%	Non-compliant
B22	Bed 2	56%	100%	53%	100%	Compliant
B23	LKD	33%	100%	29%	100%	Non-compliant
B23	Bed 1	0%	64%	0%	57%	Non-compliant
B23	Bed 2	0%	45%	0%	41%	Non-compliant
B24	LKD	58%	95%	56%	88%	Trees affecting compliance
B24	Bed 1	15%	57%	15%	52%	Non-compliant
B24	Bed 2	20%	76%	20%	76%	Non-compliant
B25	LKD	18%	64%	17%	60%	Non-compliant
B25	Bed 1	0%	5%	0%	3%	Non-compliant
B26	LKD	100%	100%	100%	100%	Compliant
B26	Bed 1	100%	100%	100%	100%	Compliant
B26	Bed 2	100%	100%	100%	100%	Compliant
B27	LKD	89%	100%	86%	100%	Compliant
B27	Bed 1	33%	94%	33%	94%	Non-compliant
B27	Bed 2	50%	100%	50%	100%	Compliant
B28	LKD	36%	100%	35%	100%	Non-compliant
B28	Bed 1	0%	29%	0%	29%	Non-compliant
B28	Bed 2	0%	37%	0%	37%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.7 Supplementary SDA Results (I.S. EN 17037 criteria): Block B

Table No. D.1.7 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
B29	LKD	49%	96%	48%	93%	Non-compliant
B29	Bed 1	0%	77%	0%	77%	Non-compliant
B30	LKD	27%	99%	27%	98%	Non-compliant
B30	Bed 1	10%	81%	10%	81%	Non-compliant
B30	Bed 2	0%	65%	0%	65%	Non-compliant
B31	LKD	98%	100%	97%	100%	Compliant
B31	Bed 1	43%	100%	43%	100%	Non-compliant
B31	Bed 2	41%	100%	41%	100%	Non-compliant
B32	LKD	100%	100%	100%	100%	Compliant
B32	Bed 1	57%	100%	52%	100%	Compliant
B32	Bed 2	78%	100%	75%	100%	Compliant
B33	LKD	38%	100%	38%	100%	Non-compliant
B33	Bed 1	17%	98%	14%	90%	Non-compliant
B33	Bed 2	10%	73%	10%	73%	Non-compliant
B34	LKD	62%	100%	62%	100%	Compliant
B34	Bed 1	30%	83%	30%	76%	Non-compliant
B34	Bed 2	33%	80%	33%	80%	Non-compliant
B35	LKD	28%	75%	27%	72%	Non-compliant
B35	Bed 1	0%	27%	0%	27%	Non-compliant
B36	LKD	100%	100%	100%	100%	Compliant
B36	Bed 1	100%	100%	100%	100%	Compliant
B36	Bed 2	100%	100%	100%	100%	Compliant
B37	LKD	93%	100%	92%	100%	Compliant
B37	Bed 1	41%	100%	41%	100%	Non-compliant
B37	Bed 2	67%	100%	67%	100%	Compliant
B38	LKD	43%	100%	43%	100%	Non-compliant
B38	Bed 1	0%	71%	0%	71%	Non-compliant
B38	Bed 2	4%	88%	4%	88%	Non-compliant
B39	LKD	52%	98%	52%	98%	Compliant
B39	Bed 1	15%	100%	15%	100%	Non-compliant
B40	LKD	36%	100%	35%	100%	Non-compliant
B40	Bed 1	24%	100%	24%	100%	Non-compliant
B40	Bed 2	10%	96%	10%	96%	Non-compliant
B41	LKD	100%	100%	100%	100%	Compliant
B41	Bed 1	56%	100%	56%	100%	Compliant
B41	Bed 2	50%	100%	50%	100%	Compliant
B42	LKD	100%	100%	100%	100%	Compliant
B42	Bed 1	65%	100%	63%	100%	Compliant
B42	Bed 2	97%	100%	94%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.8 Supplementary SDA Results (I.S. EN 17037 criteria): Block B

Table No. D.1.8 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
B43	LKD	52%	100%	51%	100%	Compliant
B43	Bed 1	33%	100%	33%	100%	Non-compliant
B43	Bed 2	24%	100%	24%	100%	Non-compliant
B44	LKD	67%	100%	66%	100%	Compliant
B44	Bed 1	41%	96%	41%	96%	Non-compliant
B44	Bed 2	44%	85%	44%	83%	Non-compliant
B45	LKD	33%	84%	33%	82%	Non-compliant
B45	Bed 1	0%	75%	0%	72%	Non-compliant
B46	LKD	100%	100%	100%	100%	Compliant
B46	Bed 1	100%	100%	100%	100%	Compliant
B46	Bed 2	100%	100%	100%	100%	Compliant
B47	LKD	98%	100%	98%	100%	Compliant
B47	Bed 1	54%	100%	54%	100%	Compliant
B47	Bed 2	97%	100%	97%	100%	Compliant
B48	LKD	59%	100%	59%	100%	Compliant
B48	Bed 1	14%	100%	14%	100%	Non-compliant
B48	Bed 2	18%	100%	16%	100%	Non-compliant
B49	LKD	60%	100%	60%	100%	Compliant
B49	Bed 1	52%	100%	52%	100%	Compliant
B50	LKD	53%	100%	53%	100%	Compliant
B50	Bed 1	52%	100%	52%	100%	Compliant
B50	Bed 2	31%	100%	31%	100%	Non-compliant
B51	LKD	100%	100%	100%	100%	Compliant
B51	Bed 1	69%	100%	69%	100%	Compliant
B51	Bed 2	82%	100%	82%	100%	Compliant
B52	LKD	100%	100%	100%	100%	Compliant
B52	Bed 1	78%	100%	78%	100%	Compliant
B52	Bed 2	100%	100%	100%	100%	Compliant
B53	LKD	65%	100%	64%	100%	Compliant
B53	Bed 1	50%	100%	50%	100%	Compliant
B53	Bed 2	39%	100%	39%	100%	Non-compliant
B54	LKD	72%	100%	72%	100%	Compliant
B54	Bed 1	56%	100%	54%	100%	Compliant
B54	Bed 2	67%	96%	65%	96%	Compliant
B55	LKD	49%	99%	48%	99%	Non-compliant
B55	Bed 1	7%	100%	7%	100%	Non-compliant
B56	LKD	100%	100%	100%	100%	Compliant
B56	Bed 1	100%	100%	100%	100%	Compliant
B56	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.9 Supplementary SDA Results (I.S. EN 17037 criteria): Block B

Table No. D.1.9 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
B57	LKD	100%	100%	100%	100%	Compliant
B57	Bed 1	70%	100%	69%	100%	Compliant
B57	Bed 2	100%	100%	100%	100%	Compliant
B58	LKD	81%	100%	81%	100%	Compliant
B58	Bed 1	79%	100%	79%	100%	Compliant
B58	Bed 2	88%	100%	88%	100%	Compliant
B59	LKD	100%	100%	100%	100%	Compliant
B59	Bed 1	100%	100%	100%	100%	Compliant
B59	Bed 2	100%	100%	100%	100%	Compliant
B59	Bed 3	100%	100%	100%	100%	Compliant
B60	LKD	91%	100%	91%	100%	Compliant
B60	Bed 1	74%	100%	74%	100%	Compliant
B60	Bed 2	78%	100%	78%	100%	Compliant
B61	LKD	61%	100%	61%	100%	Compliant
B61	Bed 1	25%	100%	25%	100%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.10 Supplementary SDA Results (I.S. EN 17037 criteria): Block C

Table No. D.1.10 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
C01	LKD	86%	100%	62%	100%	Compliant
C01	Bed 1	95%	100%	80%	100%	Compliant
C01	Bed 2	88%	100%	58%	100%	Compliant
C02	LKD	81%	100%	57%	100%	Compliant
C02	Bed 1	65%	100%	44%	100%	Trees affecting compliance
C02	Bed 2	100%	100%	72%	100%	Compliant
C03	LKD	41%	100%	33%	99%	Non-compliant
C03	Bed 1	88%	100%	75%	100%	Compliant
C03	Bed 2	98%	100%	84%	100%	Compliant
C04	LKD	58%	100%	40%	100%	Trees affecting compliance
C04	Bed 1	19%	92%	17%	83%	Non-compliant
C04	Bed 2	25%	100%	25%	100%	Non-compliant
C05	LKD	43%	74%	33%	71%	Non-compliant
C05	Bed 1	4%	20%	4%	20%	Non-compliant
C05	Bed 2	7%	46%	7%	39%	Non-compliant
C06	LKD	13%	51%	13%	45%	Non-compliant
C06	Bed 1	0%	0%	0%	0%	Non-compliant
C07	LKD	95%	100%	91%	100%	Compliant
C07	Bed 1	100%	100%	100%	100%	Compliant
C07	Bed 2	100%	100%	100%	100%	Compliant
C08	LKD	100%	100%	93%	100%	Compliant
C08	Bed 1	91%	100%	74%	100%	Compliant
C08	Bed 2	100%	100%	100%	100%	Compliant
C09	LKD	57%	100%	41%	100%	Trees affecting compliance
C09	Bed 1	57%	100%	45%	100%	Trees affecting compliance
C09	Bed 2	31%	100%	8%	100%	Non-compliant
C10	LKD	84%	100%	71%	100%	Compliant
C10	Bed 1	0%	100%	0%	100%	Non-compliant
C11	LKD	11%	46%	10%	44%	Non-compliant
C11	Bed 1	100%	100%	96%	100%	Compliant
C11	Bed 2	88%	100%	72%	100%	Compliant
C12	LKD	58%	100%	52%	100%	Compliant
C12	Bed 1	100%	100%	77%	100%	Compliant
C12	Bed 2	93%	100%	70%	100%	Compliant
C13	LKD	89%	100%	81%	100%	Compliant
C13	Bed 1	23%	100%	22%	97%	Non-compliant
C13	Bed 2	28%	100%	27%	100%	Non-compliant
C14	LKD	54%	82%	53%	80%	Non-compliant
C14	Bed 1	7%	41%	7%	33%	Non-compliant
C14	Bed 2	13%	72%	13%	67%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.11 Supplementary SDA Results (I.S. EN 17037 criteria): Block C

Table No. D.1.11 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
C15	LKD	16%	60%	15%	59%	Non-compliant
C15	Bed 1	0%	0%	0%	0%	Non-compliant
C16	LKD	100%	100%	100%	100%	Compliant
C16	Bed 1	100%	100%	100%	100%	Compliant
C16	Bed 2	100%	100%	100%	100%	Compliant
C17	LKD	100%	100%	100%	100%	Compliant
C17	Bed 1	100%	100%	83%	100%	Compliant
C17	Bed 2	100%	100%	100%	100%	Compliant
C18	LKD	71%	100%	58%	100%	Compliant
C18	Bed 1	71%	100%	60%	100%	Compliant
C18	Bed 2	49%	100%	35%	100%	Non-compliant
C19	LKD	93%	100%	77%	100%	Compliant
C19	Bed 1	28%	100%	17%	100%	Non-compliant
C20	LKD	21%	100%	16%	100%	Non-compliant
C20	Bed 1	100%	100%	89%	100%	Compliant
C20	Bed 2	100%	100%	100%	100%	Compliant
C21	LKD	66%	100%	58%	100%	Compliant
C21	Bed 1	98%	100%	85%	100%	Compliant
C21	Bed 2	100%	100%	98%	100%	Compliant
C22	LKD	84%	100%	78%	100%	Compliant
C22	Bed 1	33%	100%	33%	100%	Non-compliant
C22	Bed 2	58%	100%	58%	100%	Compliant
C23	LKD	25%	97%	24%	96%	Non-compliant
C23	Bed 1	0%	45%	0%	43%	Non-compliant
C23	Bed 2	0%	45%	0%	43%	Non-compliant
C24	LKD	59%	90%	58%	89%	Non-compliant
C24	Bed 1	17%	57%	17%	56%	Non-compliant
C24	Bed 2	20%	76%	20%	76%	Non-compliant
C25	LKD	23%	66%	20%	65%	Non-compliant
C25	Bed 1	0%	7%	0%	7%	Non-compliant
C26	LKD	100%	100%	100%	100%	Compliant
C26	Bed 1	100%	100%	100%	100%	Compliant
C26	Bed 2	100%	100%	100%	100%	Compliant
C27	LKD	100%	100%	100%	100%	Compliant
C27	Bed 1	100%	100%	91%	100%	Compliant
C27	Bed 2	100%	100%	100%	100%	Compliant
C28	LKD	74%	100%	58%	100%	Compliant
C28	Bed 1	81%	100%	67%	100%	Compliant
C28	Bed 2	53%	100%	41%	100%	Trees affecting compliance

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.12 Supplementary SDA Results (I.S. EN 17037 criteria): Block C

Table No. D.1.12 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
C29	LKD	97%	100%	85%	100%	Compliant
C29	Bed 1	33%	100%	23%	100%	Non-compliant
C30	LKD	23%	100%	17%	100%	Non-compliant
C30	Bed 1	100%	100%	94%	100%	Compliant
C30	Bed 2	100%	100%	100%	100%	Compliant
C31	LKD	82%	100%	77%	100%	Compliant
C31	Bed 1	100%	100%	91%	100%	Compliant
C31	Bed 2	100%	100%	100%	100%	Compliant
C32	LKD	92%	100%	89%	100%	Compliant
C32	Bed 1	54%	100%	50%	100%	Compliant
C32	Bed 2	78%	100%	78%	100%	Compliant
C33	LKD	37%	100%	37%	100%	Non-compliant
C33	Bed 1	14%	88%	14%	88%	Non-compliant
C33	Bed 2	10%	84%	10%	82%	Non-compliant
C34	LKD	63%	100%	63%	100%	Compliant
C34	Bed 1	31%	87%	31%	81%	Non-compliant
C34	Bed 2	37%	80%	33%	80%	Non-compliant
C35	LKD	28%	76%	28%	75%	Non-compliant
C35	Bed 1	0%	30%	0%	30%	Non-compliant
C36	LKD	100%	100%	100%	100%	Compliant
C36	Bed 1	100%	100%	100%	100%	Compliant
C36	Bed 2	100%	100%	100%	100%	Compliant
C37	LKD	100%	100%	100%	100%	Compliant
C37	Bed 1	100%	100%	96%	100%	Compliant
C37	Bed 2	100%	100%	100%	100%	Compliant
C38	LKD	92%	100%	67%	100%	Compliant
C38	Bed 1	79%	100%	67%	100%	Compliant
C38	Bed 2	63%	100%	47%	100%	Trees affecting compliance
C39	LKD	98%	100%	86%	100%	Compliant
C39	Bed 1	35%	100%	23%	100%	Non-compliant
C40	LKD	24%	100%	20%	100%	Non-compliant
C40	Bed 1	100%	100%	96%	100%	Compliant
C40	Bed 2	100%	100%	100%	100%	Compliant
C41	LKD	94%	100%	91%	100%	Compliant
C41	Bed 1	100%	100%	91%	100%	Compliant
C41	Bed 2	100%	100%	100%	100%	Compliant
C42	LKD	100%	100%	100%	100%	Compliant
C42	Bed 1	59%	100%	57%	100%	Compliant
C42	Bed 2	97%	100%	97%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.13 Supplementary SDA Results (I.S. EN 17037 criteria): Block C

Table No. D.1.13 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
C43	LKD	45%	100%	45%	100%	Non-compliant
C43	Bed 1	33%	100%	33%	100%	Non-compliant
C43	Bed 2	24%	100%	24%	100%	Non-compliant
C44	LKD	67%	100%	67%	100%	Compliant
C44	Bed 1	41%	98%	41%	98%	Non-compliant
C44	Bed 2	44%	85%	44%	85%	Non-compliant
C45	LKD	36%	86%	35%	86%	Non-compliant
C45	Bed 1	0%	77%	0%	77%	Non-compliant
C46	LKD	100%	100%	100%	100%	Compliant
C46	Bed 1	100%	100%	100%	100%	Compliant
C46	Bed 2	100%	100%	100%	100%	Compliant
C47	LKD	100%	100%	100%	100%	Compliant
C47	Bed 1	100%	100%	100%	100%	Compliant
C47	Bed 2	100%	100%	100%	100%	Compliant
C48	LKD	84%	100%	64%	100%	Compliant
C48	Bed 1	88%	100%	76%	100%	Compliant
C48	Bed 2	67%	100%	51%	100%	Compliant
C49	LKD	99%	100%	90%	100%	Compliant
C49	Bed 1	33%	100%	22%	100%	Non-compliant
C50	LKD	23%	100%	17%	100%	Non-compliant
C50	Bed 1	100%	100%	100%	100%	Compliant
C50	Bed 2	100%	100%	100%	100%	Compliant
C51	LKD	100%	100%	100%	100%	Compliant
C51	Bed 1	100%	100%	100%	100%	Compliant
C51	Bed 2	100%	100%	100%	100%	Compliant
C52	LKD	100%	100%	100%	100%	Compliant
C52	Bed 1	78%	100%	78%	100%	Compliant
C52	Bed 2	100%	100%	100%	100%	Compliant
C53	LKD	63%	100%	62%	100%	Compliant
C53	Bed 1	50%	100%	50%	100%	Compliant
C53	Bed 2	41%	100%	41%	100%	Non-compliant
C54	LKD	73%	100%	72%	100%	Compliant
C54	Bed 1	59%	100%	57%	100%	Compliant
C54	Bed 2	69%	100%	69%	100%	Compliant
C55	LKD	49%	99%	49%	99%	Non-compliant
C55	Bed 1	10%	100%	10%	100%	Non-compliant
C56	LKD	100%	100%	100%	100%	Compliant
C56	Bed 1	100%	100%	100%	100%	Compliant
C56	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.14 Supplementary SDA Results (I.S. EN 17037 criteria): Block C

Table No. D.1.14 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
C57	LKD	100%	100%	100%	100%	Compliant
C57	Bed 1	100%	100%	100%	100%	Compliant
C57	Bed 2	100%	100%	100%	100%	Compliant
C58	LKD	99%	100%	95%	100%	Compliant
C58	Bed 1	88%	100%	79%	100%	Compliant
C58	Bed 2	69%	100%	53%	100%	Compliant
C59	LKD	100%	100%	100%	100%	Compliant
C59	Bed 1	100%	100%	100%	100%	Compliant
C59	Bed 2	100%	100%	100%	100%	Compliant
C59	Bed 3	100%	100%	100%	100%	Compliant
C60	LKD	93%	100%	93%	100%	Compliant
C60	Bed 1	74%	100%	74%	100%	Compliant
C60	Bed 2	78%	100%	78%	100%	Compliant
C61	LKD	61%	100%	61%	100%	Compliant
C61	Bed 1	30%	100%	30%	100%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.15 Supplementary SDA Results (I.S. EN 17037 criteria): Block D

Table No. D.1.15 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
D01	LKD	75%	100%	63%	100%	Compliant
D01	Bed 1	85%	100%	67%	100%	Compliant
D01	Bed 2	98%	100%	95%	100%	Compliant
D02	LKD	60%	100%	49%	93%	Trees affecting compliance
D02	Bed 1	87%	100%	67%	100%	Compliant
D02	Bed 2	98%	100%	93%	100%	Compliant
D03	LKD	100%	100%	97%	100%	Compliant
D03	Bed 1	100%	100%	69%	100%	Compliant
D03	Bed 2	100%	100%	100%	100%	Compliant
D04	LKD	71%	100%	38%	98%	Trees affecting compliance
D04	Bed 1	31%	100%	0%	100%	Non-compliant
D05	LKD	67%	100%	31%	94%	Trees affecting compliance
D05	Bed 1	23%	100%	0%	52%	Non-compliant
D06	LKD	26%	100%	9%	86%	Non-compliant
D06	Bed 1	83%	100%	65%	100%	Compliant
D06	Bed 2	26%	86%	24%	83%	Non-compliant
D06	Bed 3	85%	100%	70%	100%	Compliant
D07	LKD	92%	100%	72%	100%	Compliant
D07	Bed 1	100%	100%	93%	100%	Compliant
D07	Bed 2	100%	100%	98%	100%	Compliant
D08	LKD	68%	100%	62%	100%	Compliant
D08	Bed 1	100%	100%	94%	100%	Compliant
D08	Bed 2	100%	100%	100%	100%	Compliant
D09	LKD	100%	100%	100%	100%	Compliant
D09	Bed 1	100%	100%	100%	100%	Compliant
D09	Bed 2	100%	100%	100%	100%	Compliant
D10	LKD	93%	100%	70%	100%	Compliant
D10	Bed 1	60%	100%	25%	100%	Trees affecting compliance
D11	LKD	85%	100%	66%	100%	Compliant
D11	Bed 1	33%	100%	10%	100%	Non-compliant
D12	LKD	59%	100%	39%	100%	Trees affecting compliance
D12	Bed 1	90%	100%	75%	100%	Compliant
D12	Bed 2	33%	100%	33%	100%	Non-compliant
D12	Bed 3	95%	100%	95%	100%	Compliant
D13	LKD	13%	89%	12%	81%	Non-compliant
D13	Bed 1	19%	69%	17%	61%	Non-compliant
D13	Bed 2	25%	100%	25%	100%	Non-compliant
D14	LKD	34%	100%	31%	99%	Non-compliant
D14	Bed 1	39%	100%	35%	98%	Non-compliant
D14	Bed 2	43%	100%	38%	100%	Non-compliant
D14	Bed 3	48%	100%	38%	100%	Non-compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.16 Supplementary SDA Results (I.S. EN 17037 criteria): Block D

Table No. D.1.16 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
D15	LKD	97%	100%	78%	100%	Compliant
D15	Bed 1	100%	100%	100%	100%	Compliant
D15	Bed 2	100%	100%	100%	100%	Compliant
D16	LKD	72%	100%	69%	100%	Compliant
D16	Bed 1	100%	100%	100%	100%	Compliant
D16	Bed 2	100%	100%	100%	100%	Compliant
D17	LKD	100%	100%	100%	100%	Compliant
D17	Bed 1	100%	100%	100%	100%	Compliant
D17	Bed 2	100%	100%	100%	100%	Compliant
D18	LKD	98%	100%	93%	100%	Compliant
D18	Bed 1	90%	100%	60%	100%	Compliant
D19	LKD	96%	100%	86%	100%	Compliant
D19	Bed 1	42%	100%	29%	100%	Non-compliant
D20	LKD	90%	100%	80%	100%	Compliant
D20	Bed 1	90%	100%	88%	100%	Compliant
D20	Bed 2	47%	100%	45%	100%	Non-compliant
D20	Bed 3	100%	100%	100%	100%	Compliant
D21	LKD	21%	99%	21%	95%	Non-compliant
D21	Bed 1	24%	81%	24%	76%	Non-compliant
D21	Bed 2	36%	100%	36%	100%	Non-compliant
D22	LKD	48%	100%	46%	100%	Non-compliant
D22	Bed 1	43%	100%	41%	100%	Non-compliant
D22	Bed 2	47%	100%	45%	100%	Non-compliant
D22	Bed 3	55%	100%	50%	100%	Compliant
D23	LKD	98%	100%	90%	100%	Compliant
D23	Bed 1	100%	100%	100%	100%	Compliant
D23	Bed 2	100%	100%	100%	100%	Compliant
D24	LKD	74%	100%	72%	100%	Compliant
D24	Bed 1	100%	100%	100%	100%	Compliant
D24	Bed 2	100%	100%	100%	100%	Compliant
D25	LKD	100%	100%	100%	100%	Compliant
D25	Bed 1	100%	100%	100%	100%	Compliant
D25	Bed 2	100%	100%	100%	100%	Compliant
D26	LKD	99%	100%	98%	100%	Compliant
D26	Bed 1	96%	100%	90%	100%	Compliant
D27	LKD	99%	100%	96%	100%	Compliant
D27	Bed 1	54%	100%	50%	100%	Compliant
D28	LKD	96%	100%	90%	100%	Compliant
D28	Bed 1	93%	100%	92%	100%	Compliant
D28	Bed 2	59%	100%	58%	100%	Compliant
D28	Bed 3	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.17 Supplementary SDA Results (I.S. EN 17037 criteria): Block D

Table No. D.1.17 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
D29	LKD	31%	100%	30%	100%	Non-compliant
D29	Bed 1	35%	100%	31%	100%	Non-compliant
D29	Bed 2	53%	100%	53%	100%	Compliant
D30	LKD	42%	100%	40%	100%	Non-compliant
D30	Bed 1	48%	100%	48%	100%	Non-compliant
D30	Bed 2	55%	100%	53%	100%	Compliant
D30	Bed 3	60%	100%	58%	100%	Compliant
D31	LKD	99%	100%	96%	100%	Compliant
D31	Bed 1	100%	100%	100%	100%	Compliant
D31	Bed 2	100%	100%	100%	100%	Compliant
D32	LKD	76%	100%	72%	100%	Compliant
D32	Bed 1	100%	100%	100%	100%	Compliant
D32	Bed 2	100%	100%	100%	100%	Compliant
D33	LKD	100%	100%	100%	100%	Compliant
D33	Bed 1	100%	100%	100%	100%	Compliant
D33	Bed 2	100%	100%	100%	100%	Compliant
D34	LKD	99%	100%	98%	100%	Compliant
D34	Bed 1	96%	100%	88%	100%	Compliant
D35	LKD	98%	100%	96%	100%	Compliant
D35	Bed 1	52%	100%	42%	100%	Trees affecting compliance
D36	LKD	99%	100%	94%	100%	Compliant
D36	Bed 1	95%	100%	95%	100%	Compliant
D36	Bed 2	71%	100%	65%	100%	Compliant
D36	Bed 3	100%	100%	100%	100%	Compliant
D37	LKD	40%	100%	40%	100%	Non-compliant
D37	Bed 1	43%	100%	43%	100%	Non-compliant
D37	Bed 2	56%	100%	56%	100%	Compliant
D38	LKD	64%	100%	63%	100%	Compliant
D38	Bed 1	52%	100%	50%	100%	Compliant
D38	Bed 2	62%	100%	60%	100%	Compliant
D38	Bed 3	68%	100%	65%	100%	Compliant
D39	LKD	100%	100%	98%	100%	Compliant
D39	Bed 1	100%	100%	100%	100%	Compliant
D39	Bed 2	100%	100%	100%	100%	Compliant
D40	LKD	75%	100%	73%	100%	Compliant
D40	Bed 1	100%	100%	100%	100%	Compliant
D40	Bed 2	100%	100%	100%	100%	Compliant
D41	LKD	100%	100%	100%	100%	Compliant
D41	Bed 1	100%	100%	100%	100%	Compliant
D41	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.18 Supplementary SDA Results (I.S. EN 17037 criteria): Block D

Table No. D.1.18 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
D42	LKD	99%	100%	98%	100%	Compliant
D42	Bed 1	96%	100%	92%	100%	Compliant
D43	LKD	99%	100%	97%	100%	Compliant
D43	Bed 1	56%	100%	54%	100%	Compliant
D44	LKD	100%	100%	98%	100%	Compliant
D44	Bed 1	98%	100%	98%	100%	Compliant
D44	Bed 2	85%	100%	83%	100%	Compliant
D44	Bed 3	100%	100%	100%	100%	Compliant
D45	LKD	57%	100%	57%	100%	Compliant
D45	Bed 1	52%	100%	52%	100%	Compliant
D45	Bed 2	83%	100%	75%	100%	Compliant
D46	LKD	57%	100%	55%	100%	Compliant
D46	Bed 1	59%	100%	57%	100%	Compliant
D46	Bed 2	70%	100%	68%	100%	Compliant
D46	Bed 3	78%	100%	70%	100%	Compliant
D47	LKD	100%	100%	98%	100%	Compliant
D47	Bed 1	100%	100%	100%	100%	Compliant
D47	Bed 2	100%	100%	100%	100%	Compliant
D48	LKD	75%	100%	73%	100%	Compliant
D48	Bed 1	100%	100%	100%	100%	Compliant
D48	Bed 2	100%	100%	100%	100%	Compliant
D49	LKD	100%	100%	100%	100%	Compliant
D49	Bed 1	100%	100%	100%	100%	Compliant
D49	Bed 2	100%	100%	100%	100%	Compliant
D50	LKD	89%	100%	86%	100%	Compliant
D50	Bed 1	80%	100%	78%	100%	Compliant
D50	Bed 2	83%	100%	78%	100%	Compliant
D50	Bed 3	90%	100%	90%	100%	Compliant
D51	LKD	100%	100%	99%	100%	Compliant
D51	Bed 1	100%	100%	100%	100%	Compliant
D51	Bed 2	100%	100%	100%	100%	Compliant
D52	LKD	76%	100%	74%	100%	Compliant
D52	Bed 1	100%	100%	100%	100%	Compliant
D52	Bed 2	100%	100%	100%	100%	Compliant
D53	LKD	100%	100%	100%	100%	Compliant
D53	Bed 1	100%	100%	100%	100%	Compliant
D53	Bed 2	100%	100%	100%	100%	Compliant
D54	LKD	93%	100%	91%	100%	Compliant
D54	Bed 1	89%	100%	89%	100%	Compliant
D54	Bed 2	92%	100%	90%	100%	Compliant
D54	Bed 3	100%	100%	98%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.19 Supplementary SDA Results (I.S. EN 17037 criteria): Block D

Table No. D.1.19 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
D55	LKD	100%	100%	99%	100%	Compliant
D55	Bed 1	100%	100%	100%	100%	Compliant
D55	Bed 2	100%	100%	100%	100%	Compliant
D56	LKD	79%	100%	75%	100%	Compliant
D56	Bed 1	100%	100%	100%	100%	Compliant
D56	Bed 2	100%	100%	100%	100%	Compliant
D57	LKD	100%	100%	100%	100%	Compliant
D57	Bed 1	100%	100%	100%	100%	Compliant
D57	Bed 2	100%	100%	100%	100%	Compliant
D58	LKD	73%	100%	70%	100%	Compliant
D58	Bed 1	98%	100%	93%	100%	Compliant
D58	Bed 2	98%	100%	95%	100%	Compliant
D58	Bed 3	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.20 Supplementary SDA Results (I.S. EN 17037 criteria): Block E

Table No. D.1.20 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
E01	LKD	47%	100%	45%	100%	Non-compliant
E01	Bed 1	28%	85%	26%	78%	Non-compliant
E01	Bed 2	37%	100%	35%	93%	Non-compliant
E01	Bed 3	40%	100%	38%	95%	Non-compliant
E02	LKD	23%	91%	18%	79%	Non-compliant
E02	Bed 1	28%	100%	28%	93%	Non-compliant
E02	Bed 2	53%	100%	47%	100%	Trees affecting compliance
E03	LKD	100%	100%	100%	100%	Compliant
E03	Bed 1	82%	100%	70%	100%	Compliant
E03	Bed 2	39%	100%	29%	98%	Non-compliant
E03	Bed 3	100%	100%	100%	100%	Compliant
E04	LKD	97%	100%	83%	100%	Compliant
E04	Bed 1	42%	100%	15%	100%	Non-compliant
E05	LKD	96%	100%	75%	100%	Compliant
E05	Bed 1	63%	100%	25%	100%	Trees affecting compliance
E06	LKD	100%	100%	57%	100%	Compliant
E06	Bed 1	100%	100%	67%	100%	Compliant
E06	Bed 2	100%	100%	47%	100%	Trees affecting compliance
E07	LKD	69%	100%	41%	78%	Trees affecting compliance
E07	Bed 1	100%	100%	56%	100%	Compliant
E07	Bed 2	100%	100%	68%	100%	Compliant
E08	LKD	66%	100%	63%	100%	Compliant
E08	Bed 1	33%	100%	31%	94%	Non-compliant
E08	Bed 2	45%	100%	38%	100%	Non-compliant
E08	Bed 3	48%	100%	43%	100%	Non-compliant
E09	LKD	32%	100%	30%	100%	Non-compliant
E09	Bed 1	37%	100%	37%	100%	Non-compliant
E09	Bed 2	61%	100%	56%	100%	Compliant
E10	LKD	100%	100%	100%	100%	Compliant
E10	Bed 1	88%	100%	83%	100%	Compliant
E10	Bed 2	48%	100%	45%	100%	Non-compliant
E10	Bed 3	100%	100%	100%	100%	Compliant
E11	LKD	99%	100%	96%	100%	Compliant
E11	Bed 1	52%	100%	40%	100%	Trees affecting compliance
E12	LKD	98%	100%	90%	100%	Compliant
E12	Bed 1	92%	100%	46%	100%	Trees affecting compliance
E13	LKD	100%	100%	85%	100%	Compliant
E13	Bed 1	100%	100%	70%	100%	Compliant
E13	Bed 2	100%	100%	25%	100%	Trees affecting compliance

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.21 Supplementary SDA Results (I.S. EN 17037 criteria): Block E

Table No. D.1.21 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
E14	LKD	74%	100%	53%	93%	Trees affecting compliance
E14	Bed 1	100%	100%	76%	100%	Compliant
E14	Bed 2	100%	100%	93%	100%	Compliant
E15	LKD	89%	100%	60%	100%	Compliant
E15	Bed 1	100%	100%	74%	100%	Compliant
E15	Bed 2	100%	100%	93%	100%	Compliant
E16	LKD	59%	100%	59%	100%	Compliant
E16	Bed 1	37%	100%	37%	100%	Non-compliant
E16	Bed 2	50%	100%	48%	100%	Trees affecting compliance
E16	Bed 3	50%	100%	50%	100%	Compliant
E17	LKD	38%	100%	38%	100%	Non-compliant
E17	Bed 1	41%	100%	39%	100%	Non-compliant
E17	Bed 2	86%	100%	75%	100%	Compliant
E18	LKD	100%	100%	100%	100%	Compliant
E18	Bed 1	93%	100%	92%	100%	Compliant
E18	Bed 2	62%	100%	58%	100%	Compliant
E18	Bed 3	100%	100%	100%	100%	Compliant
E19	LKD	99%	100%	97%	100%	Compliant
E19	Bed 1	52%	100%	50%	100%	Compliant
E20	LKD	99%	100%	97%	100%	Compliant
E20	Bed 1	94%	100%	65%	100%	Compliant
E21	LKD	100%	100%	100%	100%	Compliant
E21	Bed 1	100%	100%	100%	100%	Compliant
E21	Bed 2	100%	100%	100%	100%	Compliant
E22	LKD	78%	100%	60%	99%	Compliant
E22	Bed 1	100%	100%	89%	100%	Compliant
E22	Bed 2	100%	100%	100%	100%	Compliant
E23	LKD	96%	100%	73%	100%	Compliant
E23	Bed 1	100%	100%	89%	100%	Compliant
E23	Bed 2	100%	100%	98%	100%	Compliant
E24	LKD	82%	100%	81%	100%	Compliant
E24	Bed 1	46%	100%	44%	100%	Non-compliant
E24	Bed 2	60%	100%	58%	100%	Compliant
E24	Bed 3	60%	100%	60%	100%	Compliant
E25	LKD	43%	100%	42%	100%	Non-compliant
E25	Bed 1	48%	100%	44%	100%	Non-compliant
E25	Bed 2	89%	100%	81%	100%	Compliant
E26	LKD	100%	100%	100%	100%	Compliant
E26	Bed 1	95%	100%	95%	100%	Compliant
E26	Bed 2	67%	100%	62%	100%	Compliant
E26	Bed 3	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.22 Supplementary SDA Results (I.S. EN 17037 criteria): Block E

Table No. D.1.22 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
E27	LKD	99%	100%	97%	100%	Compliant
E27	Bed 1	52%	100%	48%	100%	Trees affecting compliance
E28	LKD	99%	100%	96%	100%	Compliant
E28	Bed 1	94%	100%	69%	100%	Compliant
E29	LKD	100%	100%	100%	100%	Compliant
E29	Bed 1	100%	100%	100%	100%	Compliant
E29	Bed 2	100%	100%	100%	100%	Compliant
E30	LKD	80%	100%	65%	100%	Compliant
E30	Bed 1	100%	100%	96%	100%	Compliant
E30	Bed 2	100%	100%	100%	100%	Compliant
E31	LKD	99%	100%	84%	100%	Compliant
E31	Bed 1	100%	100%	94%	100%	Compliant
E31	Bed 2	100%	100%	98%	100%	Compliant
E32	LKD	75%	100%	74%	100%	Compliant
E32	Bed 1	52%	100%	52%	100%	Compliant
E32	Bed 2	70%	100%	65%	100%	Compliant
E32	Bed 3	70%	100%	70%	100%	Compliant
E33	LKD	59%	100%	58%	100%	Compliant
E33	Bed 1	50%	100%	50%	100%	Compliant
E33	Bed 2	97%	100%	97%	100%	Compliant
E34	LKD	100%	100%	100%	100%	Compliant
E34	Bed 1	98%	100%	98%	100%	Compliant
E34	Bed 2	91%	100%	88%	100%	Compliant
E34	Bed 3	100%	100%	100%	100%	Compliant
E35	LKD	99%	100%	97%	100%	Compliant
E35	Bed 1	52%	100%	46%	100%	Trees affecting compliance
E36	LKD	99%	100%	97%	100%	Compliant
E36	Bed 1	94%	100%	75%	100%	Compliant
E37	LKD	100%	100%	100%	100%	Compliant
E37	Bed 1	100%	100%	100%	100%	Compliant
E37	Bed 2	100%	100%	100%	100%	Compliant
E38	LKD	81%	100%	67%	100%	Compliant
E38	Bed 1	100%	100%	100%	100%	Compliant
E38	Bed 2	100%	100%	100%	100%	Compliant
E39	LKD	100%	100%	95%	100%	Compliant
E39	Bed 1	100%	100%	100%	100%	Compliant
E39	Bed 2	100%	100%	100%	100%	Compliant
E40	LKD	94%	100%	93%	100%	Compliant
E40	Bed 1	78%	100%	76%	100%	Compliant
E40	Bed 2	80%	100%	80%	100%	Compliant
E40	Bed 3	85%	100%	83%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.1.23 Supplementary SDA Results (I.S. EN 17037 criteria): Block E

Table No. D.1.23 - Supplementary SDA Results (I.S. EN 17037 criteria):						
Unit Number	Room Description	No Trees		With Trees		Compliance with I.S. EN 17037 Criteria*
		Area above 300 Lux*	Area above 100 Lux*	Area above 300 Lux*	Area above 100 Lux*	
E41	LKD	100%	100%	100%	100%	Compliant
E41	Bed 1	100%	100%	100%	100%	Compliant
E41	Bed 2	100%	100%	100%	100%	Compliant
E42	LKD	81%	100%	70%	100%	Compliant
E42	Bed 1	100%	100%	100%	100%	Compliant
E42	Bed 2	100%	100%	100%	100%	Compliant
E43	LKD	100%	100%	99%	100%	Compliant
E43	Bed 1	100%	100%	100%	100%	Compliant
E43	Bed 2	100%	100%	100%	100%	Compliant
E44	LKD	87%	100%	84%	100%	Compliant
E44	Bed 1	89%	100%	87%	100%	Compliant
E44	Bed 2	87%	100%	85%	100%	Compliant
E44	Bed 3	93%	100%	90%	100%	Compliant
E45	LKD	100%	100%	100%	100%	Compliant
E45	Bed 1	100%	100%	100%	100%	Compliant
E45	Bed 2	100%	100%	100%	100%	Compliant
E46	LKD	82%	100%	73%	100%	Compliant
E46	Bed 1	100%	100%	100%	100%	Compliant
E46	Bed 2	100%	100%	100%	100%	Compliant
E47	LKD	100%	100%	100%	100%	Compliant
E47	Bed 1	100%	100%	100%	100%	Compliant
E47	Bed 2	100%	100%	100%	100%	Compliant
E48	LKD	100%	100%	100%	100%	Compliant
E48	Bed 1	96%	100%	93%	100%	Compliant
E48	Bed 2	95%	100%	92%	100%	Compliant
E48	Bed 3	100%	100%	100%	100%	Compliant
E49	LKD	100%	100%	100%	100%	Compliant
E49	Bed 1	100%	100%	100%	100%	Compliant
E49	Bed 2	100%	100%	100%	100%	Compliant
E50	LKD	83%	100%	75%	100%	Compliant
E50	Bed 1	100%	100%	100%	100%	Compliant
E50	Bed 2	100%	100%	100%	100%	Compliant
E51	LKD	100%	100%	100%	100%	Compliant
E51	Bed 1	100%	100%	100%	100%	Compliant
E51	Bed 2	100%	100%	100%	100%	Compliant

* For information regarding the criteria under the various guidelines including target Lux please refer to section 2.5.1 on page 17.
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2 Supplementary No Sky Line (NSL) assessment in proposed units.

Below is an example of the table used to describe the supplementary assessment results for 'No Sky Line' in proposed units.

Table Example. D.2 - Supplementary Scheme Performance NSL			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%
A	B	C	D

A: Unit Number

This column identifies the assessed unit. All unit numbers are determined by the architect's drawings, unless otherwise stated.

B: Room Description

Room Description details which room in the unit has been assessed, e.g. bedroom, LKD, etc.

C: % of room where the sky is visible from the working plane

This column states the percentage of the room from which there is a direct line of sight to the sky when assessed at the working plane height, which is 850mm above the finished floor level in residential rooms or 700mm above the finished floor level in offices or classrooms.

D: Above 80%

Whilst the BRE Guidelines only provide recommendations for NSL in the context of an impact analysis, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

If this column states: 'Yes', it signifies that the sky will be visible from more than 80% of the working plane.

If this column states: 'No', it signifies that the sky will be visible from less than 80% of the working plane and supplementary electric lighting may be required.

D.2.1 Supplementary NSL Results: Block A

Table No. D.2.1 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
Creche	Classroom 0	94%	Yes
Creche	Office	100%	Yes
Creche	Play Area	93%	Yes
Creche	Sleeping Area	99%	Yes
Creche	Staff Room/ Kitchen	24%	No
Creche	Classroom 1	100%	Yes
Creche	Classroom 2	99%	Yes
Creche	Classroom 3	55%	No
Creche	Classroom 4	98%	Yes
A01	LKD	100%	Yes
A01	Bed 1	97%	Yes
A01	Bed 2	99%	Yes
A02	LKD	96%	Yes
A02	Bed 1	48%	No
A02	Bed 2	57%	No
A03	LKD	100%	Yes
A03	Bed 1	99%	Yes
A03	Bed 2	97%	Yes
A04	LKD	100%	Yes
A04	Bed 1	99%	Yes
A05	LKD	100%	Yes
A05	Bed 1	97%	Yes
A05	Bed 2	99%	Yes
A06	LKD	96%	Yes
A06	Bed 1	50%	No
A06	Bed 2	60%	No
A07	LKD	73%	No
A07	Bed 1	10%	No
A07	Bed 2	12%	No
A08	LKD	48%	No
A08	Bed 1	40%	No
A09	LKD	100%	Yes
A09	Bed 1	57%	No
A09	Bed 2	46%	No
A10	LKD	100%	Yes
A10	Bed 1	99%	Yes
A10	Bed 2	97%	Yes
A11	LKD	100%	Yes
A11	Bed 1	99%	Yes
A12	LKD	100%	Yes
A12	Bed 1	97%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.2 Supplementary NSL Results: Block A

Table No. D.2.2 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
A12	Bed 2	99%	Yes
A13	LKD	97%	Yes
A13	Bed 1	51%	No
A13	Bed 2	64%	No
A14	LKD	73%	No
A14	Bed 1	19%	No
A14	Bed 2	29%	No
A15	LKD	59%	No
A15	Bed 1	35%	No
A16	LKD	62%	No
A16	Bed 1	31%	No
A16	Bed 2	32%	No
A17	LKD	100%	Yes
A17	Bed 1	64%	No
A17	Bed 2	68%	No
A18	LKD	100%	Yes
A18	Bed 1	100%	Yes
A18	Bed 2	99%	Yes
A19	LKD	100%	Yes
A19	Bed 1	100%	Yes
A19	Bed 2	99%	Yes
A20	LKD	100%	Yes
A20	Bed 1	99%	Yes
A20	Bed 2	97%	Yes
A21	LKD	100%	Yes
A21	Bed 1	99%	Yes
A22	LKD	100%	Yes
A22	Bed 1	97%	Yes
A22	Bed 2	99%	Yes
A23	LKD	97%	Yes
A23	Bed 1	63%	No
A23	Bed 2	78%	No
A24	LKD	78%	No
A24	Bed 1	40%	No
A24	Bed 2	59%	No
A25	LKD	62%	No
A25	Bed 1	64%	No
A26	LKD	68%	No
A26	Bed 1	57%	No
A26	Bed 2	65%	No

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.3 Supplementary NSL Results: Block A

Table No. D.2.3 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
A27	LKD	100%	Yes
A27	Bed 1	83%	Yes
A27	Bed 2	92%	Yes
A28	LKD	100%	Yes
A28	Bed 1	100%	Yes
A28	Bed 2	99%	Yes
A29	LKD	100%	Yes
A29	Bed 1	100%	Yes
A29	Bed 2	98%	Yes
A30	LKD	100%	Yes
A30	Bed 1	99%	Yes
A30	Bed 2	97%	Yes
A31	LKD	100%	Yes
A31	Bed 1	99%	Yes
A32	LKD	100%	Yes
A32	Bed 1	97%	Yes
A32	Bed 2	99%	Yes
A33	LKD	98%	Yes
A33	Bed 1	78%	No
A33	Bed 2	94%	Yes
A34	LKD	83%	Yes
A34	Bed 1	81%	Yes
A34	Bed 2	92%	Yes
A35	LKD	70%	No
A35	Bed 1	90%	Yes
A36	LKD	93%	Yes
A36	Bed 1	83%	Yes
A36	Bed 2	96%	Yes
A37	LKD	100%	Yes
A37	Bed 1	99%	Yes
A37	Bed 2	95%	Yes
A38	LKD	100%	Yes
A38	Bed 1	100%	Yes
A38	Bed 2	99%	Yes
A39	LKD	100%	Yes
A39	Bed 1	100%	Yes
A39	Bed 2	98%	Yes
A40	LKD	100%	Yes
A40	Bed 1	99%	Yes
A40	Bed 2	97%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.4 Supplementary NSL Results: Block A

Table No. D.2.4 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
A41	LKD	100%	Yes
A41	Bed 1	99%	Yes
A42	LKD	100%	Yes
A42	Bed 1	97%	Yes
A42	Bed 2	99%	Yes
A43	LKD	98%	Yes
A43	Bed 1	99%	Yes
A43	Bed 2	96%	Yes
A44	LKD	95%	Yes
A44	Bed 1	90%	Yes
A44	Bed 2	96%	Yes
A45	LKD	86%	Yes
A45	Bed 1	99%	Yes
A46	LKD	100%	Yes
A46	Bed 1	97%	Yes
A46	Bed 2	98%	Yes
A47	LKD	100%	Yes
A47	Bed 1	99%	Yes
A47	Bed 2	95%	Yes
A48	LKD	100%	Yes
A48	Bed 1	100%	Yes
A48	Bed 2	99%	Yes
A49	LKD	100%	Yes
A49	Bed 1	99%	Yes
A49	Bed 2	97%	Yes
A50	LKD	100%	Yes
A50	Bed 1	99%	Yes
A50	Bed 2	97%	Yes
A51	LKD	100%	Yes
A51	Bed 1	99%	Yes
A52	LKD	100%	Yes
A52	Bed 1	97%	Yes
A52	Bed 2	99%	Yes
A53	LKD	100%	Yes
A53	Bed 1	99%	Yes
A53	Bed 2	97%	Yes
A54	LKD	100%	Yes
A54	Bed 1	95%	Yes
A54	Bed 2	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.5 Supplementary NSL Results: Block A

Table No. D.2.5 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
A55	LKD	100%	Yes
A55	Bed 1	99%	Yes
A56	LKD	100%	Yes
A56	BED 1	100%	Yes
A57	LKD	100%	Yes
A57	Bed 1	99%	Yes
A57	Bed 2	97%	Yes
A58	LKD	100%	Yes
A58	Bed 1	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.6 Supplementary NSL Results: Block B

Table No. D.2.6 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
B01	LKD	100%	Yes
B01	Bed 1	96%	Yes
B01	Bed 2	99%	Yes
B02	LKD	96%	Yes
B02	Bed 1	49%	No
B02	Bed 2	57%	No
B03	LKD	91%	Yes
B03	Bed 1	36%	No
B03	Bed 2	33%	No
B04	LKD	100%	Yes
B04	Bed 1	99%	Yes
B04	Bed 2	96%	Yes
B05	LKD	75%	No
B05	Bed 1	24%	No
B05	Bed 2	39%	No
B06	LKD	54%	No
B06	Bed 1	42%	No
B07	LKD	100%	Yes
B07	Bed 1	96%	Yes
B07	Bed 2	99%	Yes
B08	LKD	97%	Yes
B08	Bed 1	50%	No
B08	Bed 2	59%	No
B09	LKD	73%	No
B09	Bed 1	10%	No
B09	Bed 2	9%	No
B10	LKD	47%	No
B10	Bed 1	37%	No
B11	LKD	77%	No
B11	Bed 1	43%	No
B11	Bed 2	41%	No
B12	LKD	99%	Yes
B12	Bed 1	39%	No
B12	Bed 2	35%	No
B13	LKD	100%	Yes
B13	Bed 1	99%	Yes
B13	Bed 2	97%	Yes
B14	LKD	74%	No
B14	Bed 1	29%	No
B14	Bed 2	33%	No

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.7 Supplementary NSL Results: Block B

Table No. D.2.7 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
B15	LKD	46%	No
B15	Bed 1	37%	No
B16	LKD	99%	Yes
B16	Bed 1	97%	Yes
B16	Bed 2	99%	Yes
B17	LKD	97%	Yes
B17	Bed 1	55%	No
B17	Bed 2	66%	No
B18	LKD	73%	No
B18	Bed 1	21%	No
B18	Bed 2	23%	No
B19	LKD	58%	No
B19	Bed 1	30%	No
B20	LKD	38%	No
B20	Bed 1	35%	No
B20	Bed 2	31%	No
B21	LKD	100%	Yes
B21	Bed 1	54%	No
B21	Bed 2	59%	No
B22	LKD	100%	Yes
B22	Bed 1	99%	Yes
B22	Bed 2	97%	Yes
B23	LKD	96%	Yes
B23	Bed 1	41%	No
B23	Bed 2	41%	No
B24	LKD	75%	No
B24	Bed 1	38%	No
B24	Bed 2	40%	No
B25	LKD	57%	No
B25	Bed 1	47%	No
B26	LKD	100%	Yes
B26	Bed 1	96%	Yes
B26	Bed 2	99%	Yes
B27	LKD	98%	Yes
B27	Bed 1	63%	No
B27	Bed 2	77%	No
B28	LKD	75%	No
B28	Bed 1	45%	No
B28	Bed 2	50%	No

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.8 Supplementary NSL Results: Block B

Table No. D.2.8 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
B29	LKD	61%	No
B29	Bed 1	58%	No
B30	LKD	51%	No
B30	Bed 1	67%	No
B30	Bed 2	67%	No
B31	LKD	100%	Yes
B31	Bed 1	77%	No
B31	Bed 2	88%	Yes
B32	LKD	100%	Yes
B32	Bed 1	99%	Yes
B32	Bed 2	98%	Yes
B33	LKD	95%	Yes
B33	Bed 1	77%	No
B33	Bed 2	78%	No
B34	LKD	78%	No
B34	Bed 1	55%	No
B34	Bed 2	53%	No
B35	LKD	61%	No
B35	Bed 1	60%	No
B36	LKD	100%	Yes
B36	Bed 1	97%	Yes
B36	Bed 2	99%	Yes
B37	LKD	98%	Yes
B37	Bed 1	78%	No
B37	Bed 2	94%	Yes
B38	LKD	80%	Yes
B38	Bed 1	90%	Yes
B38	Bed 2	90%	Yes
B39	LKD	67%	No
B39	Bed 1	89%	Yes
B40	LKD	77%	No
B40	Bed 1	91%	Yes
B40	Bed 2	91%	Yes
B41	LKD	100%	Yes
B41	Bed 1	99%	Yes
B41	Bed 2	95%	Yes
B42	LKD	100%	Yes
B42	Bed 1	99%	Yes
B42	Bed 2	98%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.9 Supplementary NSL Results: Block B

Table No. D.2.9 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
B43	LKD	96%	Yes
B43	Bed 1	97%	Yes
B43	Bed 2	96%	Yes
B44	LKD	86%	Yes
B44	Bed 1	77%	No
B44	Bed 2	73%	No
B45	LKD	64%	No
B45	Bed 1	86%	Yes
B46	LKD	100%	Yes
B46	Bed 1	96%	Yes
B46	Bed 2	99%	Yes
B47	LKD	98%	Yes
B47	Bed 1	99%	Yes
B47	Bed 2	95%	Yes
B48	LKD	92%	Yes
B48	Bed 1	94%	Yes
B48	Bed 2	94%	Yes
B49	LKD	84%	Yes
B49	Bed 1	99%	Yes
B50	LKD	100%	Yes
B50	Bed 1	99%	Yes
B50	Bed 2	97%	Yes
B51	LKD	100%	Yes
B51	Bed 1	99%	Yes
B51	Bed 2	95%	Yes
B52	LKD	100%	Yes
B52	Bed 1	99%	Yes
B52	Bed 2	98%	Yes
B53	LKD	99%	Yes
B53	Bed 1	97%	Yes
B53	Bed 2	96%	Yes
B54	LKD	94%	Yes
B54	Bed 1	99%	Yes
B54	Bed 2	96%	Yes
B55	LKD	74%	No
B55	Bed 1	98%	Yes
B56	LKD	100%	Yes
B56	Bed 1	97%	Yes
B56	Bed 2	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.10 Supplementary NSL Results: Block B

Table No. D.2.10 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
B57	LKD	100%	Yes
B57	Bed 1	99%	Yes
B57	Bed 2	96%	Yes
B58	LKD	100%	Yes
B58	Bed 1	98%	Yes
B58	Bed 2	97%	Yes
B59	LKD	100%	Yes
B59	Bed 1	97%	Yes
B59	Bed 2	100%	Yes
B59	Bed 3	98%	Yes
B60	LKD	100%	Yes
B60	Bed 1	99%	Yes
B60	Bed 2	98%	Yes
B61	LKD	100%	Yes
B61	Bed 1	98%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.11 Supplementary NSL Results: Block C

Table No. D.2.11 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
C01	LKD	100%	Yes
C01	Bed 1	97%	Yes
C01	Bed 2	99%	Yes
C02	LKD	100%	Yes
C02	Bed 1	99%	Yes
C02	Bed 2	96%	Yes
C03	LKD	97%	Yes
C03	Bed 1	99%	Yes
C03	Bed 2	97%	Yes
C04	LKD	98%	Yes
C04	Bed 1	69%	No
C04	Bed 2	70%	No
C05	LKD	71%	No
C05	Bed 1	25%	No
C05	Bed 2	31%	No
C06	LKD	57%	No
C06	Bed 1	42%	No
C07	LKD	100%	Yes
C07	Bed 1	97%	Yes
C07	Bed 2	99%	Yes
C08	LKD	100%	Yes
C08	Bed 1	99%	Yes
C08	Bed 2	96%	Yes
C09	LKD	100%	Yes
C09	Bed 1	94%	Yes
C09	Bed 2	99%	Yes
C10	LKD	100%	Yes
C10	Bed 1	100%	Yes
C11	LKD	60%	No
C11	Bed 1	99%	Yes
C11	Bed 2	98%	Yes
C12	LKD	100%	Yes
C12	Bed 1	99%	Yes
C12	Bed 2	99%	Yes
C13	LKD	99%	Yes
C13	Bed 1	66%	No
C13	Bed 2	66%	No
C14	LKD	71%	No
C14	Bed 1	30%	No
C14	Bed 2	34%	No

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.12 Supplementary NSL Results: Block C

Table No. D.2.12 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
C15	LKD	48%	No
C15	Bed 1	37%	No
C16	LKD	100%	Yes
C16	Bed 1	97%	Yes
C16	Bed 2	99%	Yes
C17	LKD	100%	Yes
C17	Bed 1	99%	Yes
C17	Bed 2	96%	Yes
C18	LKD	100%	Yes
C18	Bed 1	96%	Yes
C18	Bed 2	99%	Yes
C19	LKD	100%	Yes
C19	Bed 1	100%	Yes
C20	LKD	100%	Yes
C20	Bed 1	99%	Yes
C20	Bed 2	96%	Yes
C21	LKD	100%	Yes
C21	Bed 1	99%	Yes
C21	Bed 2	96%	Yes
C22	LKD	99%	Yes
C22	Bed 1	73%	No
C22	Bed 2	81%	Yes
C23	LKD	69%	No
C23	Bed 1	45%	No
C23	Bed 2	44%	No
C24	LKD	74%	No
C24	Bed 1	40%	No
C24	Bed 2	41%	No
C25	LKD	58%	No
C25	Bed 1	48%	No
C26	LKD	100%	Yes
C26	Bed 1	97%	Yes
C26	Bed 2	99%	Yes
C27	LKD	100%	Yes
C27	Bed 1	99%	Yes
C27	Bed 2	96%	Yes
C28	LKD	100%	Yes
C28	Bed 1	96%	Yes
C28	Bed 2	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.13 Supplementary NSL Results: Block C

Table No. D.2.13 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
C29	LKD	100%	Yes
C29	Bed 1	100%	Yes
C30	LKD	100%	Yes
C30	Bed 1	99%	Yes
C30	Bed 2	96%	Yes
C31	LKD	100%	Yes
C31	Bed 1	99%	Yes
C31	Bed 2	96%	Yes
C32	LKD	100%	Yes
C32	Bed 1	84%	Yes
C32	Bed 2	95%	Yes
C33	LKD	81%	Yes
C33	Bed 1	82%	Yes
C33	Bed 2	82%	Yes
C34	LKD	78%	No
C34	Bed 1	58%	No
C34	Bed 2	55%	No
C35	LKD	61%	No
C35	Bed 1	61%	No
C36	LKD	100%	Yes
C36	Bed 1	97%	Yes
C36	Bed 2	99%	Yes
C37	LKD	100%	Yes
C37	Bed 1	99%	Yes
C37	Bed 2	97%	Yes
C38	LKD	100%	Yes
C38	Bed 1	96%	Yes
C38	Bed 2	99%	Yes
C39	LKD	100%	Yes
C39	Bed 1	100%	Yes
C40	LKD	100%	Yes
C40	Bed 1	99%	Yes
C40	Bed 2	97%	Yes
C41	LKD	100%	Yes
C41	Bed 1	99%	Yes
C41	Bed 2	96%	Yes
C42	LKD	99%	Yes
C42	Bed 1	99%	Yes
C42	Bed 2	97%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.14 Supplementary NSL Results: Block C

Table No. D.2.14 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
C43	LKD	87%	Yes
C43	Bed 1	97%	Yes
C43	Bed 2	96%	Yes
C44	LKD	87%	Yes
C44	Bed 1	81%	Yes
C44	Bed 2	76%	No
C45	LKD	66%	No
C45	Bed 1	91%	Yes
C46	LKD	100%	Yes
C46	Bed 1	97%	Yes
C46	Bed 2	99%	Yes
C47	LKD	100%	Yes
C47	Bed 1	99%	Yes
C47	Bed 2	96%	Yes
C48	LKD	100%	Yes
C48	Bed 1	96%	Yes
C48	Bed 2	99%	Yes
C49	LKD	100%	Yes
C49	Bed 1	100%	Yes
C50	LKD	100%	Yes
C50	Bed 1	99%	Yes
C50	Bed 2	97%	Yes
C51	LKD	100%	Yes
C51	Bed 1	99%	Yes
C51	Bed 2	96%	Yes
C52	LKD	100%	Yes
C52	Bed 1	99%	Yes
C52	Bed 2	97%	Yes
C53	LKD	99%	Yes
C53	Bed 1	97%	Yes
C53	Bed 2	96%	Yes
C54	LKD	95%	Yes
C54	Bed 1	99%	Yes
C54	Bed 2	97%	Yes
C55	LKD	77%	No
C55	Bed 1	98%	Yes
C56	LKD	100%	Yes
C56	Bed 1	97%	Yes
C56	Bed 2	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.15 Supplementary NSL Results: Block C

Table No. D.2.15 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
C57	LKD	100%	Yes
C57	Bed 1	99%	Yes
C57	Bed 2	96%	Yes
C58	LKD	100%	Yes
C58	Bed 1	96%	Yes
C58	Bed 2	99%	Yes
C59	LKD	100%	Yes
C59	Bed 1	97%	Yes
C59	Bed 2	100%	Yes
C59	Bed 3	98%	Yes
C60	LKD	100%	Yes
C60	Bed 1	99%	Yes
C60	Bed 2	98%	Yes
C61	LKD	100%	Yes
C61	Bed 1	98%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.16 Supplementary NSL Results: Block D

Table No. D.2.16 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
D01	LKD	100%	Yes
D01	Bed 1	99%	Yes
D01	Bed 2	96%	Yes
D02	LKD	92%	Yes
D02	Bed 1	99%	Yes
D02	Bed 2	96%	Yes
D03	LKD	99%	Yes
D03	Bed 1	99%	Yes
D03	Bed 2	97%	Yes
D04	LKD	100%	Yes
D04	Bed 1	100%	Yes
D05	LKD	100%	Yes
D05	Bed 1	99%	Yes
D06	LKD	100%	Yes
D06	Bed 1	96%	Yes
D06	Bed 2	83%	Yes
D06	Bed 3	97%	Yes
D07	LKD	100%	Yes
D07	Bed 1	99%	Yes
D07	Bed 2	96%	Yes
D08	LKD	94%	Yes
D08	Bed 1	99%	Yes
D08	Bed 2	96%	Yes
D09	LKD	99%	Yes
D09	Bed 1	99%	Yes
D09	Bed 2	97%	Yes
D10	LKD	100%	Yes
D10	Bed 1	99%	Yes
D11	LKD	100%	Yes
D11	Bed 1	99%	Yes
D12	LKD	100%	Yes
D12	Bed 1	98%	Yes
D12	Bed 2	90%	Yes
D12	Bed 3	97%	Yes
D13	LKD	99%	Yes
D13	Bed 1	87%	Yes
D13	Bed 2	86%	Yes
D14	LKD	92%	Yes
D14	Bed 1	96%	Yes
D14	Bed 2	95%	Yes
D14	Bed 3	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.17 Supplementary NSL Results: Block D

Table No. D.2.17 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
D15	LKD	100%	Yes
D15	Bed 1	99%	Yes
D15	Bed 2	97%	Yes
D16	LKD	94%	Yes
D16	Bed 1	99%	Yes
D16	Bed 2	96%	Yes
D17	LKD	99%	Yes
D17	Bed 1	99%	Yes
D17	Bed 2	96%	Yes
D18	LKD	100%	Yes
D18	Bed 1	100%	Yes
D19	LKD	100%	Yes
D19	Bed 1	99%	Yes
D20	LKD	100%	Yes
D20	Bed 1	98%	Yes
D20	Bed 2	91%	Yes
D20	Bed 3	97%	Yes
D21	LKD	99%	Yes
D21	Bed 1	87%	Yes
D21	Bed 2	87%	Yes
D22	LKD	98%	Yes
D22	Bed 1	98%	Yes
D22	Bed 2	97%	Yes
D22	Bed 3	99%	Yes
D23	LKD	100%	Yes
D23	Bed 1	99%	Yes
D23	Bed 2	96%	Yes
D24	LKD	94%	Yes
D24	Bed 1	99%	Yes
D24	Bed 2	96%	Yes
D25	LKD	99%	Yes
D25	Bed 1	99%	Yes
D25	Bed 2	96%	Yes
D26	LKD	100%	Yes
D26	Bed 1	100%	Yes
D27	LKD	100%	Yes
D27	Bed 1	99%	Yes
D28	LKD	100%	Yes
D28	Bed 1	99%	Yes
D28	Bed 2	91%	Yes
D28	Bed 3	98%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.18 Supplementary NSL Results: Block D

Table No. D.2.18 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
D29	LKD	100%	Yes
D29	Bed 1	95%	Yes
D29	Bed 2	89%	Yes
D30	LKD	96%	Yes
D30	Bed 1	98%	Yes
D30	Bed 2	98%	Yes
D30	Bed 3	99%	Yes
D31	LKD	100%	Yes
D31	Bed 1	99%	Yes
D31	Bed 2	96%	Yes
D32	LKD	94%	Yes
D32	Bed 1	99%	Yes
D32	Bed 2	96%	Yes
D33	LKD	99%	Yes
D33	Bed 1	99%	Yes
D33	Bed 2	97%	Yes
D34	LKD	100%	Yes
D34	Bed 1	100%	Yes
D35	LKD	100%	Yes
D35	Bed 1	99%	Yes
D36	LKD	100%	Yes
D36	Bed 1	99%	Yes
D36	Bed 2	91%	Yes
D36	Bed 3	98%	Yes
D37	LKD	100%	Yes
D37	Bed 1	98%	Yes
D37	Bed 2	89%	Yes
D38	LKD	99%	Yes
D38	Bed 1	99%	Yes
D38	Bed 2	99%	Yes
D38	Bed 3	99%	Yes
D39	LKD	100%	Yes
D39	Bed 1	99%	Yes
D39	Bed 2	96%	Yes
D40	LKD	94%	Yes
D40	Bed 1	99%	Yes
D40	Bed 2	96%	Yes
D41	LKD	99%	Yes
D41	Bed 1	99%	Yes
D41	Bed 2	96%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.19 Supplementary NSL Results: Block D

Table No. D.2.19 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
D42	LKD	100%	Yes
D42	Bed 1	100%	Yes
D43	LKD	100%	Yes
D43	Bed 1	99%	Yes
D44	LKD	100%	Yes
D44	Bed 1	100%	Yes
D44	Bed 2	93%	Yes
D44	Bed 3	99%	Yes
D45	LKD	100%	Yes
D45	Bed 1	98%	Yes
D45	Bed 2	90%	Yes
D46	LKD	98%	Yes
D46	Bed 1	99%	Yes
D46	Bed 2	99%	Yes
D46	Bed 3	99%	Yes
D47	LKD	100%	Yes
D47	Bed 1	99%	Yes
D47	Bed 2	96%	Yes
D48	LKD	94%	Yes
D48	Bed 1	99%	Yes
D48	Bed 2	96%	Yes
D49	LKD	99%	Yes
D49	Bed 1	99%	Yes
D49	Bed 2	97%	Yes
D50	LKD	99%	Yes
D50	Bed 1	99%	Yes
D50	Bed 2	100%	Yes
D50	Bed 3	99%	Yes
D51	LKD	100%	Yes
D51	Bed 1	99%	Yes
D51	Bed 2	96%	Yes
D52	LKD	94%	Yes
D52	Bed 1	99%	Yes
D52	Bed 2	96%	Yes
D53	LKD	99%	Yes
D53	Bed 1	99%	Yes
D53	Bed 2	96%	Yes
D54	LKD	99%	Yes
D54	Bed 1	99%	Yes
D54	Bed 2	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.20 Supplementary NSL Results: Block D

Table No. D.2.20 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
D54	Bed 3	99%	Yes
D55	LKD	100%	Yes
D55	Bed 1	99%	Yes
D55	Bed 2	96%	Yes
D56	LKD	94%	Yes
D56	Bed 1	99%	Yes
D56	Bed 2	96%	Yes
D57	LKD	99%	Yes
D57	Bed 1	99%	Yes
D57	Bed 2	97%	Yes
D58	LKD	98%	Yes
D58	Bed 1	99%	Yes
D58	Bed 2	100%	Yes
D58	Bed 3	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.21 Supplementary NSL Results: Block E

Table No. D.2.21 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
E01	LKD	93%	Yes
E01	Bed 1	88%	Yes
E01	Bed 2	90%	Yes
E01	Bed 3	88%	Yes
E02	LKD	98%	Yes
E02	Bed 1	99%	Yes
E02	Bed 2	94%	Yes
E03	LKD	100%	Yes
E03	Bed 1	100%	Yes
E03	Bed 2	90%	Yes
E03	Bed 3	98%	Yes
E04	LKD	100%	Yes
E04	Bed 1	100%	Yes
E05	LKD	100%	Yes
E05	Bed 1	100%	Yes
E06	LKD	99%	Yes
E06	Bed 1	92%	Yes
E06	Bed 2	86%	Yes
E07	LKD	82%	Yes
E07	Bed 1	99%	Yes
E07	Bed 2	95%	Yes
E08	LKD	99%	Yes
E08	Bed 1	93%	Yes
E08	Bed 2	93%	Yes
E08	Bed 3	91%	Yes
E09	LKD	99%	Yes
E09	Bed 1	100%	Yes
E09	Bed 2	94%	Yes
E10	LKD	100%	Yes
E10	Bed 1	100%	Yes
E10	Bed 2	91%	Yes
E10	Bed 3	98%	Yes
E11	LKD	100%	Yes
E11	Bed 1	100%	Yes
E12	LKD	100%	Yes
E12	Bed 1	100%	Yes
E13	LKD	99%	Yes
E13	Bed 1	96%	Yes
E13	Bed 2	56%	No
E14	LKD	100%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.22 Supplementary NSL Results: Block E

Table No. D.2.22 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
E14	Bed 1	100%	Yes
E14	Bed 2	97%	Yes
E15	LKD	100%	Yes
E15	Bed 1	99%	Yes
E15	Bed 2	97%	Yes
E16	LKD	98%	Yes
E16	Bed 1	99%	Yes
E16	Bed 2	98%	Yes
E16	Bed 3	98%	Yes
E17	LKD	99%	Yes
E17	Bed 1	99%	Yes
E17	Bed 2	94%	Yes
E18	LKD	100%	Yes
E18	Bed 1	100%	Yes
E18	Bed 2	91%	Yes
E18	Bed 3	98%	Yes
E19	LKD	100%	Yes
E19	Bed 1	100%	Yes
E20	LKD	100%	Yes
E20	Bed 1	100%	Yes
E21	LKD	100%	Yes
E21	Bed 1	99%	Yes
E21	Bed 2	95%	Yes
E22	LKD	100%	Yes
E22	Bed 1	100%	Yes
E22	Bed 2	97%	Yes
E23	LKD	100%	Yes
E23	Bed 1	99%	Yes
E23	Bed 2	97%	Yes
E24	LKD	100%	Yes
E24	Bed 1	99%	Yes
E24	Bed 2	99%	Yes
E24	Bed 3	99%	Yes
E25	LKD	100%	Yes
E25	Bed 1	99%	Yes
E25	Bed 2	92%	Yes
E26	LKD	100%	Yes
E26	Bed 1	100%	Yes
E26	Bed 2	92%	Yes
E26	Bed 3	98%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.23 Supplementary NSL Results: Block E

Table No. D.2.23 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
E27	LKD	100%	Yes
E27	Bed 1	100%	Yes
E28	LKD	100%	Yes
E28	Bed 1	100%	Yes
E29	LKD	100%	Yes
E29	Bed 1	99%	Yes
E29	Bed 2	96%	Yes
E30	LKD	100%	Yes
E30	Bed 1	99%	Yes
E30	Bed 2	97%	Yes
E31	LKD	100%	Yes
E31	Bed 1	99%	Yes
E31	Bed 2	97%	Yes
E32	LKD	100%	Yes
E32	Bed 1	99%	Yes
E32	Bed 2	100%	Yes
E32	Bed 3	100%	Yes
E33	LKD	100%	Yes
E33	Bed 1	98%	Yes
E33	Bed 2	92%	Yes
E34	LKD	100%	Yes
E34	Bed 1	99%	Yes
E34	Bed 2	93%	Yes
E34	Bed 3	99%	Yes
E35	LKD	100%	Yes
E35	Bed 1	100%	Yes
E36	LKD	100%	Yes
E36	Bed 1	100%	Yes
E37	LKD	100%	Yes
E37	Bed 1	99%	Yes
E37	Bed 2	95%	Yes
E38	LKD	100%	Yes
E38	Bed 1	99%	Yes
E38	Bed 2	96%	Yes
E39	LKD	100%	Yes
E39	Bed 1	99%	Yes
E39	Bed 2	97%	Yes
E40	LKD	100%	Yes
E40	Bed 1	99%	Yes
E40	Bed 2	99%	Yes
E40	Bed 3	99%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."

For floor plans of the assessed units please refer to section C.1 on page 52.

D.2.24 Supplementary NSL Results: Block E

Table No. D.2.24 - Supplementary NSL Results:			
Unit Number	Room Description	No Sky Line (NSL)	
		% of room where the sky is visible from the working plane	Above 80%*
E41	LKD	100%	Yes
E41	Bed 1	99%	Yes
E41	Bed 2	96%	Yes
E42	LKD	100%	Yes
E42	Bed 1	99%	Yes
E42	Bed 2	96%	Yes
E43	LKD	100%	Yes
E43	Bed 1	99%	Yes
E43	Bed 2	97%	Yes
E44	LKD	100%	Yes
E44	Bed 1	99%	Yes
E44	Bed 2	100%	Yes
E44	Bed 3	100%	Yes
E45	LKD	100%	Yes
E45	Bed 1	99%	Yes
E45	Bed 2	95%	Yes
E46	LKD	94%	Yes
E46	Bed 1	99%	Yes
E46	Bed 2	96%	Yes
E47	LKD	100%	Yes
E47	Bed 1	99%	Yes
E47	Bed 2	95%	Yes
E48	LKD	100%	Yes
E48	Bed 1	99%	Yes
E48	Bed 2	100%	Yes
E48	Bed 3	99%	Yes
E49	LKD	100%	Yes
E49	Bed 1	99%	Yes
E49	Bed 2	96%	Yes
E50	LKD	94%	Yes
E50	Bed 1	99%	Yes
E50	Bed 2	96%	Yes
E51	LKD	100%	Yes
E51	Bed 1	99%	Yes
E51	Bed 2	95%	Yes

* Whilst the BRE Guidelines do not provide target values for NSL in a proposed development, section 2.2.10 states that "Supplementary electric lighting will be needed if a significant part of the working plane (20% of the room or more) lies beyond the No Sky Line."
For floor plans of the assessed units please refer to section C.1 on page 52.

E.0 Glossary

E.1 Terms and Definitions

Below is a list of daylight and sunlight terminology that may be used in this report depending on the assessments carried out.

Skylight

Non directional ambient light cast from the sky and environment.

Sunlight

Direct parallel rays of light emitted from the sun.

Daylight

Combined skylight and sunlight.

Overcast sky model

A completely overcast sky model, used for daylight calculation.

Cloudless sky model

A completely cloudless sky model, used for sunlight exposure calculation.

Model State

The model state is a term used to describe the configuration of the digital model used to run analysis. Model states will typically reflect a baseline state and a proposed or cumulative state. For a definition of the model states used in the analysis carried out in this report, please refer to "Preparing the analytical model" on page 11.

Vertical Sky Component (VSC)

Ratio of that part of illuminance, at a point on a given vertical plane, that is received directly from an overcast sky model, to illuminance on a horizontal plane due to an unobstructed hemisphere of this sky. Usually the 'given vertical plane' is the outside of a window wall. The VSC does not include reflected light, either from the ground or from other buildings.

Annual Probable Sunlight Hours (APSH) / Winter Probable Sunlight Hours (WPSH)

Annual Probable Sunlight Hours (APSH) and Winter Probable Sunlight Hours (WPSH) are a measure of sunlight that a given window may expect over a one-year period (1 Jan - 31 Dec), or the winter period (21 Sep - 21 Mar) respectively.

North facing windows may receive sunlight on only a handful of occasions in a year, and windows facing eastwards or westwards will receive sunlight only at certain times of the day. Taking this into account, section 3.2.9 of the BRE Guidelines suggest that windows with an orientation within 90 degrees of due north need not be assessed.

Sun On Ground (SOG)

Assessment of what portion of a garden or amenity space is capable of receiving 2 hours or more of direct sunlight on March 21st.

Sunlight Exposure (SE)

The number of hours of direct sunlight a room can expect to receive on a given date between February 1st and March 21st at a determined point on the windows.

Spatial Daylight Autonomy (SDA)

Spatial Daylight Autonomy assesses whether a space receives sufficient daylight on a working plane during standard operating hours on an annual basis. For compliance, the target value is achieved across 50% of the working plane for half of the occupied period.

No Sky Line (NSL)

The No Sky Line divides points on the working plane which can and cannot see the sky.

Working plane

Horizontal, vertical or inclined plane in which a visual task lies. Normally the working plane may be taken to be horizontal, 850 mm above the floor in houses and factories, 700 mm above the floor in offices. The plane is offset 300mm from the room boundaries under BRE 209 criteria, and 500mm from the room boundaries under I.S. EN 17037 criteria.

LKD

Living / Kitchen / Dining room.

BRE Target Value

When assessing the effect a proposed development would have on a neighbouring property, a target value will be applied. This applied target value is generated as per the criteria set out for each study in the BRE Guidelines.

Alternative Target Value

It could be appropriate to use alternative target values when conducting assessment of effect on existing properties. If such instances occur the rationale will be clearly explained and the instances where the alternative target values have been applied will be clearly identified.

Level of BRE Compliance

Each table in the study that has a column identified as "Level of BRE Compliance", identifies how an assessed instance performs in relation to the appropriate target value. If the instance is in compliance with the recommendations as made in the BRE Guidelines the value will be expressed as "BRE Compliant". If the instance does not meet the criteria as set out in the BRE Guidelines a percentage will be expressed to determine the level of compliance with the recommendation. This value determines the definition of effect.

LUX

Lux is a standardised unit of measurement of light level intensity. A measurement of 1 lux is equal to the illumination of a one metre square surface that is one metre away from a single candle.

E.2 Definition of Effects

Section H3 and H4 of the BRE Guidelines states that:

“Adverse impacts occur when there is a significant decrease in the amount of skylight and sunlight reaching an existing building where it is required, or in the amount of sunlight reaching an open space. The assessment of impact will depend on a combination of factors, and there is no simple rule of thumb that can be applied.”

As such, planning authorities should consider a range of localised factors when making decisions. The terminology suggested in section H6 of the BRE Guidelines is listed below, whilst the assessment of impact should depend on a combination of factors. The BRE Guidelines (section H2) also state:

“Where a new development affects a number of existing buildings or open spaces, the clearest approach is usually to assess the impact on each one separately. It is also clearer to assess skylight and sunlight impacts separately.”

Taking this advice, 3DDB have categorised the level of effect on each window/room/open space on an individual basis. In quantifying the levels of effect, 3DDB have assigned numerical values to the levels of compliance with the BRE recommendations. By applying a numerical logic to the terminology used in defining the levels of effect there is no ambiguity regarding how the levels of effect have been categorised within this report.

The list of definitions given below is taken from ‘Appendix H: Environmental impact assessment’ of the BRE 209 with a clear indication of how they have been applied in the context of this report.

Negligible

For the purposes of this Daylight and Sunlight Assessment Report a ‘Negligible’ level of effect will be stated if the level of effect is within the criteria as recommended in the BRE Guidelines and the applied target value has been achieved.

Minor Adverse

For the purposes of this Sunlight and Daylight Assessment Report, a ‘Minor Adverse’ level of effect will be stated if the level of effect is marginally outside of the criteria as stated in the BRE Guidelines. Typically a ‘Minor Adverse’ level of effect will be applied if the level of daylight or sunlight is reduced to equal or greater than 80% and less than 100% of the applied target value.

Moderate Adverse

For the purposes of this Sunlight and Daylight Assessment Report, a ‘Moderate Adverse’ level of effect will be stated if the level of daylight or sunlight is reduced to equal or greater than 50% and less than 80% of the applied target value. ‘Moderate Adverse’ levels of effect are quite typical in instances where a proposed development is planned on an under-developed plot of land.

Major Adverse

An effect which, by its character, magnitude, duration or intensity alters a sensitive aspect of the environment. For the purposes of this Sunlight and Daylight Assessment Report a ‘Major Adverse’ level of effect will be stated if the proposed development reduces the availability of daylight or sunlight of a neighbouring property to significantly below a baseline level. A ‘Major Adverse’ level of effect will be stated if the level of daylight or sunlight is reduced to less than 50% of the applied target value.

Beneficial Impact

In relation to sunlight or daylight access, it is conceivable that a proposed development could yield positive effects on the neighbouring properties. In such circumstances the development would typically involve a reduction to the size or scale of built form (e.g. such as the demolition of a building or the removal of a large belt of evergreen trees, which might result in an increase in light access). Where such improvements occur, a ‘Beneficial Impact’ will only be stated if the ratio of change is greater than 1.20 (an improvement of 20%). Should less perceptible improvements occur a ‘Negligible’ level of effect will be stated.

Not Applicable (n.a.)

In instances where a baseline value is particularly low, levels of effects can appear exaggerated. To mitigate such occurrences, if the baseline value in the VSC, APSH/WPSH or SOG studies is below 1%, 3DDB have categorised the level of effect as n.a. (not applicable).

Averaged Windows (-)

If it can be determined or reasonably assumed that multiple windows are servicing the same room, each window will be assessed and a weighted average will be calculated. In such instances the level of effect for the room will be stated, but the level of effect for the individual windows contributing towards the average will be left blank in the table. This will be indicated in the tables with the dash symbol. (-)

E.3 Definition of Levels of Sunlight Exposure

For interiors, access to sunlight can be quantified. BRE 209 recommends that a space should receive a minimum of 1.5 hours of direct sunlight on a selected date between 1 February and 21 March with cloudless conditions. It is suggested that 21 March (equinox) be used. The medium level of recommendation is three hours and the high level of recommendation four hours. For dwellings, at least one habitable room, preferably a main living room, should meet at least the minimum criterion.

Level of Sunlight Exposure:

The level of sunlight exposure will be stated for each assessed room in the tables under section “C.3 Sunlight Exposure (SE) in Proposed Units” on page 93. Below is a list of the terms used to categorise the levels of sunlight exposure:

Below Minimum

Sunlight exposure will be categorised as ‘below minimum’ if the potential sunlight for the assessed room is less than 1.5 hours on March 21st. Note: the recommendation is that a room within a proposed unit is capable of receiving 1.5 hours of direct sunlight on March 21st. If an individual room of a proposed unit does not achieve this recommendation, it does not mean that the unit is non-compliant.

Minimum

A ‘minimum’ level of sunlight exposure will be stated if the potential sunlight for the assessed room is between 1.5 hours and 3 hours on March 21st.

Medium

A ‘medium’ level of sunlight exposure will be stated if the potential sunlight for the assessed room is between 3 hours and 4 hours on March 21st.

High

A ‘high’ level of sunlight exposure will be stated if the potential sunlight for the assessed room is greater than 4 hours on March 21st.

Unit Compliance:

In addition to the level of sunlight exposure expressed for each room, compliance will be stated on a unit-by-unit basis. A proposed unit is considered to be compliant if any habitable room within the unit is capable of receiving at least 1.5 hours of sunlight on the assessment date.

Non-Compliant

If no habitable rooms within a proposed unit can receive 1.5 hours of sunlight on the assessment date, the unit will be categorised as ‘Non-Compliant’.

Compliant

If at least one habitable room within a proposed unit can receive 1.5 hours or more of sunlight on the assessment date, the unit will be categorised as ‘Compliant’.

Typically unit compliance will be stated for the best performing room per unit only, with lesser performing rooms indicated with a dash (-). However, if more than one room in a given unit is considered to be the best performing room (i.e. they have the same number of SE hours on March 21st), then the unit compliance column will be populated in the first instance only.

F.0 Guidelines / Standards

Overview

Neither the British Standard, European Standard, British Annex to the European Standard nor the BRE Guidelines (BRE 209) set out rigid standards or limits. They are all considered advisory documents. The BRE Guide is preceded by the following very clear statement as to how the design advice contained therein should be used:

“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.”

That the recommendations of the BRE Guidelines are not suitable for rigid application to all developments in all contexts, is of particular importance in the context of national and local policies for the consolidation and densification of urban areas or when assessing applications for highly constrained sites (e.g. lands in close proximity or immediately to the south of residential lands). A compromise may have to be made concerning daylight and sunlight compliance to achieve national or local planning objectives.

It is the expert opinion of 3D Design Bureau, that the BRE Guidelines (BRE 209) are the most appropriate guiding document for daylight and sunlight assessment. For daylight within proposed developments, a supplementary study has also been carried out under the criteria of I.S. EN 17037. The rationale for this opinion is outlined below.

BRE 209 - Site Layout Planning for Daylight and Sunlight: a Guide to Good Practice (2022)

This document will be referred to as the *BRE Guidelines*, the *BRE Guide* or *BRE 209* in this report.

At the time of writing this report, the BRE Guidelines are in the third edition (BRE 209). The BRE Guidelines set out recommendations for appropriate levels of daylight and sunlight within a proposed development, as well as providing guidance on impacts arising from a proposed development to surrounding properties and amenity areas.

Upon publication of the 3rd Edition of the BRE 209 (2022), the 2nd edition (2011) has been withdrawn. Among the updates from the 2nd to the 3rd edition are some changes in the recommended metrics to use for carrying out scheme performance assessments.

Daylight within proposed developments was previously assessed under the 2011 guidelines using an ‘Average Daylight Factor’ assessment (ADF). This has been replaced with a ‘target illuminance assessment’, also known as a ‘Spatial Daylight Autonomy’ assessment (SDA).

Sunlight within proposed developments was previously assessed under the 2011 guidelines using an ‘Annual / Winter Probable Sunlight Hours’ assessment (APSH/WPSH). This has been replaced with a ‘Sunlight Exposure’ assessment (SE). However, APSH/WPSH is still recommended for sunlight impact assessments.

As such, no ADF or APSH/WPSH assessment will be included as part of a scheme performance assessment under the updated guidelines.

Details of the criteria for new metrics, and all other relevant metrics, can be found in the methodology section on Page 8 of this report.

It is the expert opinion of 3D Design Bureau that the BRE Guidelines are the most appropriate guiding document for assessing daylight potential within a proposed development. The rationale for this opinion is outlined in the Dublin City Council development plan (2022-2028), which states:

“Prior to 2018, Ireland had no standard for daylight. In 2018, the National Standards Authority of Ireland adopted EN 17037 to directly become IS EN 17037. It is important to note that no amendments were made to this document and unlike BS EN 317037 [sic – likely intended to reference BS EN 17037], it does not contain a national annex. It offers only a single target for new buildings (there are no space by space targets – e.g. a kitchen would have the same target as a warehouse or office). It does not offer guidance on how new developments will impact on surrounding existing environments. These limitations make it unsuitable for use in planning policy or during planning applications. BRE 209 must still be used for this purpose.”

While the BRE Guidelines draws reference from BS EN 17037, there are some subtle differences between BRE 209 and BS EN 17037. For the purposes of this report, the BRE Guidelines (BRE 209) is considered the appropriate reference document.

A detailed description of the various recommendations for impact assessment and scheme performance is contained in section “2.3 Quantitative Impact Assessment Overview” on page 14 of this report.

EN 17037:2018: Daylight in Buildings (2018)

EN 17037 is a European Standard that provides recommendations for daylight within spaces. (Emphasis added)

EN 17037:2018 recommends that 300 lux should be received across 50% of a hypothetical reference plane of any room for half of the daylight hours of the year, with no less than 100 lux received across 95% of the reference plane. No distinction is made for the function of the room for target lux levels within this standard.

It is the opinion of 3D Design Bureau that these target values are less appropriate for proposed residential developments than the recommendations made in the BRE Guidelines, which apply room-specific target values for appropriate LUX levels.

Recommendations made in EN 17037 regarding Sunlight Exposure for proposed developments have been incorporated into the BRE Guidelines. As such, Sunlight Exposure is deemed the appropriate assessment for sunlight within habitable rooms of the proposed development.

EN 17037 also makes recommendations related to glare and quality of view out. These aspects are not addressed in this report as these assessments have less relevance in a residential context where occupants have the freedom to move about in order to improve level of glare or alter the view out.

I.S. EN 17037:2018 Daylight in Buildings (2018)

I.S. EN 17037 is a direct adoption of the European Standard *EN 17037:2018* that provides recommendations for daylight within spaces.

The target values given within *I.S. EN 17037* are directly adopted from *EN 17037*. As such, there are no room-specific recommendations for daylight. Because of these limitations, it is the expert opinion of 3D Design Bureau, that the recommendations made in the *BRE Guidelines* are more appropriate to use than those within *I.S. EN 17037*.

Regardless, a supplementary SDA study has been carried out on the proposed development using the criterion of *I.S. EN 17037*, with compliance rates stated. However, this should be considered a supplementary study.

BS EN 17037:2018: Daylight in Buildings (2018)

BS EN 17037 is the British Annex to the European Standard (see above). The British Annex acknowledges that a rigid application of the European Standard “may not be achievable”. It states “... it is the opinion of the UK committee that the recommendations for daylight provision in a space [...] may not be achievable for some buildings, particularly dwellings.”

In BS EN 17037, daylight recommendations differ depending on the function of a room. Target lux levels are applied across 50% of the reference plane of a room for half of the daylight hours. The target lux levels are:

- 200 Lux for kitchens • 150 Lux for living rooms • 100 Lux for bedrooms

No minimum is stated to be achieved across 95% of the working plane. If a space has dual purposes it is advised that the higher target value should be applied.

Planning Design Standards for Apartments: Guidelines for Planning Authorities (2025)

In July 2025, the Department of Housing, Local Government and Heritage published an updated guidance document for new apartments, ‘*Planning Design Standards for Apartments: Guidelines for Planning Authorities, 2025*’. This document, which may be referred to by the simplified name ‘*Apartment Guidelines*’, supersedes the previous guidance document for apartments ‘*Sustainable Urban Housing: Design Standards for New Apartments, 2023*’.

Unlike the 2023 edition, the current Apartment Guidelines do not directly reference any specific guidance document for daylight and sunlight. Instead, they refer to ‘*Sustainable Residential Development and Compact Settlements Guidelines (2024)*’:

“The provision of acceptable levels of natural light in new apartment developments is an important planning consideration, as it contributes to the liveability and amenity enjoyed by apartment residents. It is also important to safeguard against a detrimental impact on the amenity of other sensitive occupiers of adjacent properties. Section 5.3.7 of the SRDCSGs outlines requirements for the provision of acceptable levels of daylight in new residential developments and adjoining properties.” (emphasis added.)

The relevant section of ‘*Sustainable Residential Development and Compact Settlements Guidelines*’ (SRDCGS), 5.3.7, is referenced in the following section of this report.

Paragraph 6.7 of the superseded 2023 apartment guidelines states:

“Where an applicant cannot fully meet all of 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, which planning authorities should apply their discretion in accepting taking account of its assessment of specific. This may arise due to a design constraints [sic] associated with the site or location 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.”

Although the above requirement has been removed from the 2025 apartment guidelines, the request remains in some local authority development plans. As such, the design team may still provide a rationale and/or compensatory design solutions for instances where daylight **and/or sunlight** recommendations have not been achieved.

Note: Section 3.2 of the ‘*Urban Development and Building Height Guidelines 2018*’, provides similar guidance as the ‘2023 apartment guidelines’ as referenced above. However, it should be noted that at the time of publication of the *Urban Development and Building Height Guidelines (2018)*, BRE 209 was in its second edition, first published in 2011. Since then, a third edition of BRE 209 has been published (June 2022) and the 2nd edition has been withdrawn. BRE 209 no longer references BS 8206-2:2008, which has also been withdrawn. The standard now referenced in BRE 209 edition 3 is BS EN 17037.

Sustainable Residential Development and Compact Settlements Guidelines (2024)

Often referred to as “The Compact Growth Guidelines” this document advises on compact growth principles as a means to promote sustainable development, efficient land use, and infrastructure while minimizing sprawl and environmental degradation, contributing to sustainable urban growth, enhance liveability and support broader planning objectives.

In regard to daylight, section 5.3.7 states:

“The provision of acceptable levels of daylight in new residential developments is an important planning consideration, in the interests of ensuring a high quality living environment for future residents. It is also important to safeguard against a detrimental impact on the amenity of other sensitive occupiers of adjacent properties.

(a) The potential for poor daylight performance in a proposed development or for a material impact on neighbouring

properties will generally arise in cases where the buildings are close together, where higher buildings are involved, or where there are other obstructions to daylight. Planning authorities do not need to undertake a detailed technical assessment in relation to daylight performance in all cases. It should be clear from the assessment of architectural drawings (including sections) in the case of low-rise housing with good separation from existing and proposed buildings that undue impact would not arise, and planning authorities may apply a level of discretion in this regard.

(b) In cases where a technical assessment of daylight performance is considered by the planning authority to be necessary regard should be had to quantitative performance approaches to daylight provision outlined in guides like A New European Standard for Daylighting in Buildings IS EN 17037:2018, UK National Annex BS EN 17037:2019 and the associated BRE Guide 209 2022 Edition (June 2022), or any relevant future standards or guidance specific to the Irish context.

In drawing conclusions in relation to daylight performance, planning authorities must weigh up the overall quality of the design and layout of the scheme and the measures proposed to maximise daylight provision, against the location of the site and the general presumption in favour of increased scales of urban residential development. Poor performance may arise due to design constraints associated with the site or location and there is a need to balance 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."

The Compact Growth Guidelines should be applied within statutory development plans and during the consideration of individual planning applications. Flexibility in interpretation allows planning authorities to tailor recommendations to specific local contexts and planning objectives.

Fingal Development Plan (2023-2029)

The guidance provided in the Fingal County Council Development Plan 2023-2029 references the 2nd Edition of the BRE guidelines (BRE 209).

Section 14.6.6.1 of the Fingal Development Plan states:

"Development shall be guided by the principles of Site Layout Planning for Daylight and Sunlight, A guide to good practice (Building Research Establishment Report, 2011) and/or any updated, or subsequent guidance, in this regard."

The Fingal Development Plan allows for consideration of any updated or subsequent guidance and, therefore, the 3rd edition of the BRE guidelines (BRE 209), which was released in 2022 and supersedes the 2nd edition is considered as the primary document.

Guidelines / Standards Summary

According to the aforementioned guiding documents, the following assessments are typically conducted for a daylight and sunlight study, depending on the specific requirements of the project.

Impact on the Surrounding Properties

Impact to daylight is assessed through a Vertical Sky Component (VSC) on all relevant surrounding windows: A VSC impact assessment is typically conducted, where appropriate, on the relevant surrounding windows determined by the BRE decision chart as illustrated in Figure 2.1 on page 9.

Impact to daylight can be further assessed through a No Sky Line (NSL) on surrounding properties: Section D3 of the BRE Guidelines recommends a No Sky Line study "where room layouts are known". Consequently, NSL assessments are typically conducted only on properties where detailed floor plans have been provided.

Impact to sunlight in neighbouring properties is assessed through an Annual Probable Sunlight Hours (APSH) and Winter Probable Sunlight Hours (WPSH) on all relevant surrounding windows: An APSH/WPSH impact assessment is typically conducted, where appropriate, on the relevant surrounding windows/rooms that have an orientation within 90° of due south.

Impact to sunlight in neighbouring gardens and/or amenity areas is assessed through a Sunlight on Ground (SOG) assessment in all surrounding amenity spaces: A SOG impact assessment is typically carried out, where appropriate, on the neighbouring gardens/ amenity spaces located within close proximity and to the north of the subject site.

Performance of the Proposed Development

Target Illuminance in all habitable rooms: A target illuminance assessment, also known as a Spatial Daylight Autonomy (SDA) assessment. The two recommended methodologies for this assessment are detailed in section 2.5.1 on page 17. In a scheme performance assessment, the SDA is typically calculated for the habitable rooms of the proposed development. A supplementary SDA assessment may also be conducted under the criteria of IS EN 17037.

When conducting a scheme performance assessment for sunlight in the habitable rooms of the proposed development, Sunlight Exposure (SE) is the relevant metric.

Sunlight on Ground (SOG) in all amenity spaces: A SOG assessment is typically carried out, for the amenity spaces of the proposed development.

No Sky Line (NSL) in all habitable rooms: An NSL assessment is typically conducted for the habitable rooms of the proposed development as a supplementary study as part of a scheme performance assessment.