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Daylight Availability & Sunlight Exposure Impact Report

Gort Mell Phase 3

1 Version

Status	Draft
Purpose	Planning Application -LRD
Version	2.1
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2 Introduction

2.1 The Proposal

This assessment has been conducted for the purposes of analysing the daylight and sunlight performance of dwellings in a large residential development at Gort Mell, Drogheda, Co Louth, and of any potential impacts on affected existing neighbours caused by the new scheme.

The proposed development involves the construction of 47 new houses and apartments in the 3rd phase of an existing LRD development. Two adjacent houses in the previous phase that have been redesigned and that are included in this planning application, have also been reassessed for daylight and sunlight performance.

The proposed scheme will be the subject of a planning application to Louth Co Council by Lagan Homes shortly.

This report provides a quantitative assessment of sunlight access and daylight levels within the new dwellings and of amenity sunlight to designated outdoor spaces and assesses the potential for impacts on any affected neighbours due to the development.

The report also sets out relevant policy standards and guidelines with respect to daylight, sunlight and overshadowing, the methods used to assess the impacts, the baseline conditions currently existing at the development site and the results of the assessment.

Further technical information is provided in the Appendices. The assessment has been undertaken by Solearth Design Analysis www.solearth.ie

2.2 Planning Context

The development is located within Louth Co Council's planning area and is subject to it's county Development Plan's (CDP) policies as well as the European, Irish and British daylight design standards, settlement design guidelines, apartment design standards and site design layout guidance referred to below (where relevant).

2.3 How to read this report.

CDP guidance calls for separate assessments of the proposed development performance and of neighbours impacts. This report seeks to make the 2 separate assessments, (guidance, methodologies and their results) clear. Where discussion is necessarily intermingled, language in black font shall refer to scheme performance or refer to both while blue font shall denote paragraphs referring only to neighbour impacts. Lilac coloured font indicates that the guidance/guidelines/standards state that results are to be considered as recommendations only and not as mandatory standards in that other competing priorities should be taken into consideration also.

3 Executive Summary

The proposed development complies with the recommendations for daylight and sunlight provision within a new residential development and complies with recommendations to avoid impacts to neighbours daylight and sunlight in the Guidance and Standards.

Of the 49 dwellings tested for daylight distribution (SDA), 210 of 212 habitable rooms (99%) are in compliance with BS EN 17037, with many spaces far exceeding the minimum standards.

Of the 49 dwellings tested for Sunlight Exposure requirements for new homes, 49 (100%) meet the EN 17037 criteria.

Of 47 dwelling assessed for view quality, all meet at least the minimum view rating.

Of 2 designated public open spaces (including communal space) areas, both comply fully with both exceeding the criteria by a factor of 2.

Of one neighbour assessed, neither their access to daylight, sunlight, nor amenity sunlight (to private outdoor spaces) are impacted

Gort Mell Phase 3	**Daylight Availability**	**Sunlight Exposure**	**Amenity Sunlight**	**View**
Test	SDA	SE		
Standard	BS EN 17037	EN 17037	BRE 209 (2022)	EN 17037
Proposed Dwellings				
All units	99.1%	100%%		
Public OS Areas			100%	
Private OS Areas			100%	
View				100%
	% units/rooms/areas meeting criteria			
Neighbours				
	BRE 209 (2022) (all)			
Houses/ gardens	100%	100%	100%	
	% not impacted			

Compliance Summary Table -All standards (all performance and impact classes)

4 Relevant Assessments

4.1 Terms of Reference

The requirement is for an assessment of the daylight availability within the dwellings, and their sunlight exposure levels as defined in BS EN 17037 and /or EN 17037 as well as amenity sunlight and neighbour impact assessments- daylight (VSC) and sunlight (a/wPSH) and outdoor amenity sunlight to standards set out in BRE 209 (2022).

4.2 Design Assessed

The proposal that is the subject of this assessment is the design by JFOC architects to be submitted by the applicant Lagan Homes to the Planning Authority's in the near future.

Site plan of proposed scheme

4.3 Scoping

4.3.1 In Scope

The following assessments were deemed by the authors to be in scope and were carried out:

- Proposed Project
- Assessment of daylight availability within the proposed dwellings
- Assessment of sunlight exposure within the proposed dwellings.
- Assessment of amenity sunlight to communal/ public/shared open spaces
- Assessment of amenity sunlight to private open spaces
- Screening for - glare analysis
- Screening for - view quality analysis
- Neighbouring Dwellings
- Assessment of potential for impact to daylight, sunlight, and amenity sunlight .

4.3.2 Ex Scope

- None

4.4 General Principles

The following guidance documents and standards have been consulted when compiling this report to ensure compliance with the various Daylight and Sunlight requirements as applicable and relevant:

The Building Research Establishment's (BRE) Site Layout Planning for Daylight and Sunlight: A guide to good practice (BRE 209) 3rd edition/ 2022 edition, ('BRE 209').

British Standard BS EN 17037:2018 – Daylight in Buildings (the 'UK Standard' / the UK National Annex NA)*).*

European (and Irish) Standard EN 17037:2018 aka *IS EN 17037* (the 'European Standard')*.*

The 2008 British Standard has been superseded by the 2018 British Standard, and BRE Guide 2nd Edition has been superseded by BRE Guide 209's 2022 (3rd) edition. Both previous revisions have now been withdrawn. Together these documents are referred to below as the **Guidance** (see below).

4.5 Daylight and Sunlight in Guidelines for Apartments

4.5.1 Design Standards for New Apartments

In 2025 the Department published revised guidelines for the design of new apartments Sustainable Urban Housing: Design Standards for New Apartments including reference to daylight and sunlight. These guidelines have been updated from previous versions to make reference to the documents below.

4.5.2 Urban Development (Height) Guidelines

The 2018 Urban Development and Building Height Guidelines may in some cases pertain to and offer guidance on daylight and sunlight design. They provide similar recommendations (and note similar limitation) as the apartment guidelines but refer to the 2nd (2011) edition of the BRE 209 document now withdrawn. This assessment pays regard to the recommendations provided in the BRE guide 'Site layout planning for daylight and sunlight – A guide to good practice' (2022 - 3rd Edition).'

4.5.3 Compact Settlements Guidelines.

The Sustainable Residential Development and Compact Settlement Guideline were introduced in 2024. In section 5.3.7 they call for the planning authority to consider when to require a detailed technical assessment of daylight in new projects and in cases where so required state that regard be had to quantitative performance approaches to daylight provision in guides like EN 1737, UK National Annex BS EN17047 and BRE 209 (2022).

Together these documents are referred to below as the **Design Guidelines.**

4.6 The Guidance

4.6.1 EN 17037:2018,

EN 17037 is the new European Standard for daylighting. It was adopted across Europe in 2018 and was transposed into the Irish context without modification as IS-EN 17037:2018. It was adopted in the UK as BS EN 17037:2018 with amendments that are significant for Ireland.

Below we refer to them as the European Standard (IS EN 17037) or the UK Standard (BS EN 17037) respectively.

Both versions mandate a measurement approach based on median daylight instead of the average daylight used in previous guidance. "A space is considered to provide adequate daylight if a target illuminance level is achieved across a fraction of the reference plane within a space for at least half of the daylight hours."

The texts of the UK standard and the European standard are the same, with one very significant difference. The alteration is that the UK standard appended an additional National 'Annex' (NA). This additional interpretation, sets out specific requirements for dwellings as a specific building use type, so as to achieve continuity with the previously accepted good practice mandated in the superseded

2008 British Standard which had in turn been informed by decades of authoritative research at the Building Research Establishment in Britian.

New Metrics and Methodologies –

Daylight Availability.

The European standard which forms the basis of both the new UK standard and the Irish standard terms internal daylight availability analysis as *spatial daylight autonomy (SDA).*

Under this approach we move away from previous guidance in BRE 209 (2nd edition 2011) which applied an average daylight factor across any space as the illuminance target with the methodology being to analyse a whole space and derive one single DF average for its illuminance.

Under the SDA methodology, illuminance targets are set by lux levels (both a target one which must be met across 50% of the space, and a minimum one which must be met across 95% of it).

The European Standard recommends that the minimum requirements for illuminance of 300 lux as the target DF should be received across 50% of a hypothetical reference plane of any room for half of the daylight hours of the year and additionally that no less than the minimum illuminance of 100 lux (or equivalent mDF) is received across 95% of the reference plane. These standards must be reached regardless of the function of the room or building type, across all of Europe. In application, these lux levels are then converted to median daylight factors (mDFs) for each specific country or city in Europe to serve as a DF equivalences for that location. Note that the UK Standard (BS EN 17037) modifies this (see below).

Sunlight Exposure

The ability of sunlight to access an interior space is termed Sunlight Exposure in the revised standard (all versions).

4.6.2 BS EN 17037 The UK National Annex (relevance to Ireland)

The above lux level recommendations (300 and 100 lux) of IS EN 17037 the International / Irish Standard translate to equivalent median daylight factors in UK and Ireland locations of 2% and 0.7%. Again, these standards must be reached regardless of the function of the room or building type.

It is widely accepted that these targets are too rigid and too onerous to apply to *housing* in the UK or Ireland and it is for this reason that when it was transposed into the British context as BS EN17037 the amendments in their National Annex were made.

The NA states in it's introduction: *The UK committee supports the recommendations for daylight in buildings given in BS EN 17037:2018; however, 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. The UK committee believes this could be the case for dwellings with basement rooms or those with significant external obstructions (for example, dwellings situated in a dense urban area or with tall trees outside), or for existing buildings being refurbished or converted into dwellings. This National Annex therefore provides the UK committee's guidance on minimum daylight provision in all UK dwellings."*

Where the International standard methodology has both a single lux/ DF target for all room types (buildings) and applies the above double metric, the 'national annex' (NA) of the UK Standard changed this to require that target median daylight factors, which are in turn specific to the kind of room under study (see below)) must be only achieved over 50% of the space for 50% of the time.

"Even if a predominantly daylit appearance is not achievable for a room in a UK dwelling, the UK committee recommends that the target illuminance values given in Table NA.1 are exceeded over at least 50% of the points on a reference plane 0.85 m above the floor, for at least half of the daylight hours."

The NA sets these minimum daylight requirements for UK dwellings with illuminances (lux) levels recommended for these different room types:

- bedrooms at 100 lux ie 1.0% median daylight factor,
- living /other rooms at 150 lux ie 1.5% median daylight factor,
- kitchens, or spaces containing kitchens, at 200 lux ie 2.0% median daylight factor.

It is in the context of the UK committee's opinion above as well as having regard to the Dublin City Development Plan daylighting annex referenced above, that experts consider that BS-EN 17037 is the most suitable guideline document for assessing daylight provision and distribution in new dwellings here in Ireland. This is the practice followed in our assessments, though given the continued reference to the Irish standard we do on occasion also provide the results for analysis under its recommendations for information only.

4.6.3 Standards - Daylight

The BRE Guide *Site Layout Planning for Daylight and Sunlight: A guide to good practice (BRE 209) 3rd edition/ 2022 edition* describes it's purpose in the following terms (Summary section v):

"This guide gives advice on site layout planning to achieve good sunlighting and daylighting, both within buildings and in the open spaces between them. It is intended to be used in conjunction with the interior daylight recommendations for new buildings in the British Standard Daylight in buildings, BS EN 17037. It contains guidance on site layout to provide good natural lighting within a new development; safeguarding of daylight and sunlight within existing buildings nearby; and the protection of daylighting of adjoining land for future development."

DCC City Development Plan

Dublin City is the planning authority that most deals with large scale dense new housing projects in Ireland. As such it's approach to applying the relatively new guidance on the daylight and sunlight performance of new housing projects is considered instructive and taken account of by other authorities.

The DCC Development Plan of 2022 to 2028 in it's Appendix 16 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 in the UK, it does not contain a national annex (which would localise it to Irish conditions) *it offers only a single target for new buildings (there are no space by space targets – eg a kitchen would have the same target as a warehouse or office). It does not offer guidance on how new developments will impact 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. (DCDP Appendix 16 section 3.4)*

In 2018 a new European wide standard for daylight was introduced being EN 17037. In the UK the standard was published as BSEN 17037 and importantly it contains a national annex. The national annex in PSEN 17037 attempts to align the guidance and expectations of the new European standard within now superseded BS 8206-2 PSEN 17037 does not offer any guidance on how new developments will impact on existing surrounding developments the minimum data provision targets given within the national annex have relevance. (DCDP Appendix 16 section 3.3)

It should be noted that BRE 209 references the various EN 17037 versions below so as to ensure the consistency required of good daylight and sunlight practice is achieved.

BRE 209 2022

BRE 209Daylight Test - Neighbour Impacts

Externally, daylight availability is reported using a metric called vertical sky component (VSC) whereby before and after tests of the portions of sky, and the recorded quantum of illumination coming from that sector of sky, that reaches the windows of the space analysed.

For existing neighbouring dwellings who's daylight might be impacted on by a proposed development, the BRE document sets out a two step test; stating that a kitchen, living room, or bedroom window may be adversely affected if, after the proposed development :

- the centre of the window in question has a vertical sky component (VSC) of less than 27% and
- its VSC is less than 0.8 times its former value (i.e. more than 20% loss)

4.6.4 Standards - Sunlight

EN 17037

EN 17037 governs the standards for Sunlight Exposure to new dwellings. It sets out the recommendations for sunlight availability for the interior of a dwelling. It recommends that a room should receive a minimum of 1.5 hours of direct sunlight on a selected day between 1st of February and 21st of March. The single day of March 21st (September 21st) is normally taken as representing this condition.

BRE 209 2022

For outdoor spaces, an assessment of incident sunlight (termed amenity sunlight or sun– on – ground) is carried out to certain external surfaces - to the provision of BER 209 (2022). 2 hours sunlight should be achieved on the same sample dates as above (to 50% of the area).

BRE 209 Sunlight Test- Neighbour Impacts

For existing neighboring dwellings who's sunlight might be impacted on by a proposed development, the BRE sets out a three-step test to be applied to living rooms (only) that are within 90 degrees (on plan) of south, stating *that* existing dwellings may be adversely affected if, after the proposed development, *the centre of the window in question*:

1. receives less than 25% of the annual probable sunlight hours or less than 5% of the probable sunlight hours in winter and
2. receives less than 0.8 times its former sunlight hours during either and
3. has a reduction in sunlight received over the whole year greater than 4% of the annual probable sunlight hours.

4.6.5 View Assessment

View quality assessment is a new performance category that has been addressed in the recently adopted EN 17037 daylight Standard for Europe. The standard sets out how to evaluate the quality of a view out and defines 3 levels of quality (minimum, medium and high) depending on the results of the evaluation. However EN 17037 is silent on what kinds of buildings or room usages (residential,

education, etc) should be assessed and under what circumstance, how to select the reference point to be analysed nor how many rooms in abuilding or a dwelling, should be evaluated.

The standard assigns three parameters to the quality of a view;

- Which of the three view layers (ground, mid frame (or landscape) and sky) are visible.
- The distance of the view measured to the furthest away object that can be seen
- The width of the view opening (ie window) also known as the 'horizontal view angle'

View quality is rated as 'minimum', 'medium' or 'high' depending on the above 3 parameters as set out in a table in the standard.

Combining the above, a view that is rated as minimum would have a horizontal sight angle (ie on plan) of no less than 14 degrees, a view distance (to furthest object that can be seen) of no less than 6 metres and at least the middle landscape layer of the view would be visible. A medium rated view's equivalents would be 28 degrees, 20 meters and seeing both the landscape layer plus either the ground or sky layer. For a view rated high these parameters would be 54 degrees, 50 meters distance and seeing all 3 view layers.

The required performance is that for any space, at least one window must have a rated view ie it's view must meet at least the criteria for a minimum rating. Two verification procedures are described in the Standard.

4.6.6 Glare Assessment

Glare Assessment Is also covered in the new standard EN17037. Their assessment is suggested in spaces where the expected activities are comparable to reading writing or using display devices and where the user is not able to choose freely of their position and viewing direction such as in a office or factory with an assigned working position.

Given this project is a residential project where the occupants of the buildings are free to move around each space so as to find the environmental (including daylight and sunlight) conditions that suit them in any given moment, the carrying out of an assessment for glare woul not be usual or expected.

4.7 Guidance Summary

	Proposed Project (self tests)	**Neighbouring Dwellings** (neighbour impact tests)
Daylight internally		
focus	to habitable rooms	to windows of habitable rooms
standard	BS EN 17037 (or IS EN 17037 / EN 17037)	BRE 209 (2022)
metric	mdDF (or tDF & mnDF)	VSC
Sunlight to windows/ rooms		
focus	windows of habitable rooms	on windows of living rooms (if w/in 90° of south)
standard	IS EN 17037/ EN 17037	BRE 209 (2022)
metric	Hours sunlight on Mar/ Sept21	APSH & WPSH

Amenity Sunlight		
focus	sun on ground of outdoor amenity spaces	Sun on ground of outdoor amenity spaces
standard	BRE 209 (2022)	BRE 209 (2022)
metric	hours sunlight on Mar/ Sept21	hours sunlight on Mar/ Sept21

See glossary in Appendix for explanation of acronyms

4.8 Guidance Not Regulation

Irish planning policy advises that in instances where it is not possible to demonstrate full conformity with advisory minimums consent-authorities are entitled to accept departures where other planning objective are found to countervail.

Specific guidance on this matter is provided within Section 4.5 of the National Planning Framework (2025) where it states as follows:

"To enable brownfield and infill development, planning policies and standards need to be flexible, focusing on design-led and performance-based outcomes, rather than specifying absolute requirements in all cases. Performance-Based Design Standards are a goal oriented design approach which involve developing standards to achieve a particular outcome (for example, preventing undue overshadowing) rather than applying rigid quantitative standards in all cases (for example, mandatory separation distances). Performance criteria are the indicators that are identified in assessing the outcome. Although sometimes necessary to safeguard against poor quality design, planning standards should be flexibly applied in response to well-designed development proposals that can achieve urban infill and brownfield development objectives in settlements of all sizes. In particular, general restrictions on building height or universal standards for car parking, separation distances or garden size may not be applicable in all circumstances in urban areas and should be replaced by performance-based criteria appropriate to general location, e.g. city/ town/ village centre, urban neighbourhood, public transport interchange, suburban or edge location etc. A more dynamic performance-based approach appropriate to location will also enable the level of public transport service to improve as more development occurs and vice-versa. An important first step in prioritising infill and brownfield development is the identification of these opportunity sites in the local authority development plan. As part of the 'Settlement Capacity Audit' prepared as an input to the Development Plan process, local authorities should map brownfield/ infill sites that have regeneration and development potential and publish the outputs. The Urban Development and Building Height Guidelines issued in 2018 and the Sustainable Residential Development and Compact Settlements Guidelines issued in 2024 under Section 28 of the Planning and Development Act (as amended), provide detailed guidance and standards in support of NPO22."

On the basis that this guidance is applicable to daylight standards it is evident that a clear basis exists for consenting authorities to accept shortfalls from advisory minimum standards in instances where a countervailing planning objective(s) exists.

Additional support is provided in Section 28 Planning Guidelines,

The Apartment Guidelines state (in Paragraph 6.7) :

where an applicant cannot fully meet all of the requirements of the daylight provisions above this must be clearly identified an error and the rationale for any alternative compensatory design solutions must be set out which planning authorities should apply their discretion in accepting taking account it's assessment of (the) *specific*(s of the scheme)

This may arise due to design constraints associated with the site or location and the balancing of the 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 Settlement Guidelines state (Para 5.3.7):

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 maximize 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 secure and comprehensive urban regeneration and or an effective urban design and streetscape solution.

The BRE 209 Guide notes (par 1.6 and 1.7):

The guide is intended for building designers and their clients, consultants, and planning officials. 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 (see Section 5). In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre, or in an area with modern high-rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings. Alternatively, where natural light is of special importance, less obstruction and hence more sunlight and daylight may be deemed necessary. The calculation methods in Appendices A and B are entirely flexible in this respect. Appendix F gives advice on how to develop a consistent set of target values for skylight under such circumstances.

The guidance here is intended for use in the United Kingdom and in the Republic of Ireland, though recommendations in the Irish Standard IS EN 17037 may vary from those in BS EN 17037. Many of the principles outlined will apply to other temperate climates. More specific guidance for other locations and climate types is given in BRE Report Environmental site layout planning.

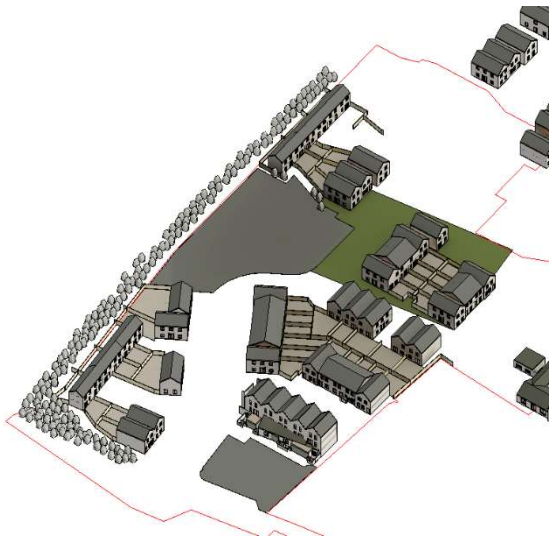
Therefore, if the situation arises where the targets identified within the guidance are not reached, the differences should be indicated and either justified in the context of the proposal or if possible 'compensatory measures' can be suggested. In this report, departures from the targets and references in the guidance will be identified, and mitigations will be proposed to reduce or eliminate the impacts.

5 Assessment Methodology

This assessment focussed on assessing the daylight autonomy (availability), sunlight exposure /access, and amenity sunlight private gardens and designated public open space areas in the new development.

5.1 Assessment Process

Using the design information related to the proposal information, as received from the architects, a 3D computer model of the existing context and the proposed development has been created by the author.



3D computer model used for assessments showing proposed geometries

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The overall 3D model sets out the proposed buildings geometry, levels, walls, floors, ceilings, windows and doors at the correct levels, orientation/ and location. The study model includes for

habitable spaces of dwellings as well as window geometry and specification. Reflectances for the materials are also accounted for (see below).

Using proprietary accredited software and methodologies associated with it, a number of daylight and sunlight assessment tests have been carried out. The simulation processes follow the procedures set out in ISO 15469:2004 being quantitative, climate based calculations that provide a comprehensive assessment of the performance before and after a proposed development.

The evaluations takes account of space, time and climate. The spatial reality is represented using the 3D computer model of the proposed building and the local spatial context outside. The standards allows use of a calculation of the daylight levels expected to occur at such a latitude (usually a weather file for the nearest weather station). A climate file for Dublin airport has been used in this assessment.

The analysis procedure for daylight autonomy (availability) to residential spaces sets out a matrix of analysis points across the plan of the rooms (ignoring a 500mm band along the perimeter) at a height of 850mm over floor level.

5.1.1 Software Specifics

The software utilised for this analysis is Waldram Tools by MBS Software Ltd in the UK (Company No: 3344454). It utilises accredited industry standard simulation technology Radiance and follows the BREs Waldram Methodologies BRE 209 (2022) for daylight and sunlight analysis and in accordance with procedures set out in in ISO 15469: 2004. It has been used on hundreds of daylight sunlight and rights to light analyses over the past 15 years.

5.1.2 Daylight Availability

The guidelines present two main methods of calculating daylight: Spatial Daylight Autonomy (availability) (SDA) and related methods Daylight Factor (DF) and the Vertical Sky Component (VSC) method.

The DF and SDA methods, used for within a proposed development, are derived from European standard for daylighting BS EN 17037 and British Standard 8206 Part 2, Code of Practice for Daylighting. The Spatial Daylight Autonomy (availability) (SDA) method is a more complex and accurate representative calculation than DF to determine natural internal luminance. It takes into account not only sky geometries, but also factors such as window size, number of windows available to the room, room size, glass transmittance and room surface reflectance and calculates each of up to 50 points in a room over 4000 times to assess the performance through the course of the years and adjusts for the exact orientation of windows.

The VSC method measures the amount of light available on the outside plane at the centre of a window, as a ratio (expressed as a percentage) of the amount of total unobstructed sky visible following the introduction of visible barriers such as buildings.

The VSC assessment method is usually used to assess windows to neighbouring dwellings to evaluate whether they have suffered any unacceptable diminution in daylight.

5.1.3 Sunlight Exposure

For proposed new developments EN 17037 as well as IS / BS EN17037 recommends that habitable rooms in a dwelling receive a minimum number of hours sunlight on a given representative date over the year. A sunlight exposure test determining whether or not each space can receive at least the lowest acceptable level (1.5 hours on March or September 21st and in some cases the medium (3 hours) or higher (4 hour) targets. The target minima for a new dwelling is 1.5 hours and for an outdoor amenity space 2 hours. Sunlight exposure studies take account of on site location, longitude and latitude, and solar azimuths. i.e. buildings south of a site will not be impacted for sunlight in the northern hemisphere.

For impacts to neighbours as noted above, the annual probable sunlight hour (APSH) test under BRE 209 (2022) is used.

5.1.4 View Quality

An evaluation is made of the typical / recurring combination of conditions of unit types, room layouts compared to the distance to objects (fences wall other building, distant topography etc) outside, an d their heights and the angles subtended from their top and bottom edges to the reference point (usually the centre of the room under study. The resulting parameters are assessed against Table A5 of EN 17037 to test of the minima have been achieved.

In the case of a low rise residential project such as this, it can be assumed that the rooms to be assessed for view are any one of the day rooms (kitchen, living, dining etc rooms) in a dwelling. It is sufficient to sample i) the minimum horizontal sight angles from typical rooms and ii) to evaluate distances from window the to the first obstacle outside, versus it's height across the project so as to establish whether these parameters exceed the minimum metric in Table A5 ie:

- 6 metres minimum distance (window to first obstacle outside)
- horizontal sight angles (HSA), of all windows combined, to be greater than 14 degrees
- at least the landscape layer (ground) to be visible.

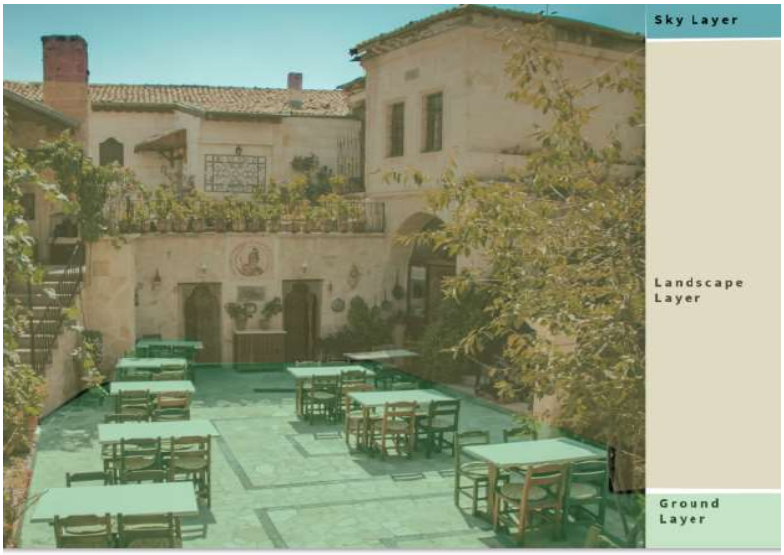
Table A.5 — Assessment of the view outwards from a given position

	Parameter [a]		
Level of recommendation for view out	**Horizontal sight angle**	**Outside distance of the view**	**Number of layers to be seen from at least 75 % of utilized area:** **- sky** **- landscape (urban and/or nature)** **- ground**
Minimum	≥ 14°	≥ 6,0 m	At least landscape layer is included
Medium	≥ 28°	≥ 20,0 m	Landscape layer and one additional layer is included in the same view opening
High	≥ 54°	≥ 50,0 m	all layers are included in the same view opening

[a] For a space with room depth more than 4 m, it is recommended that the respective sum of the view opening(s) dimensions is at least 1,0 m × 1,25 m (width × height).

Table A5 EN17037 showing requirements for various view ratings (above))

View layer definitions (below))



5.2 Simulation Procedure

5.2.1 Test Subjects

A total of 49 new dwelling were assessed as follows;

- 37 houses -in Phase 3
- 10 apartments - in Phase 3
- 2 houses from previous phase were also reassessed

Before (with approximate site indicated)

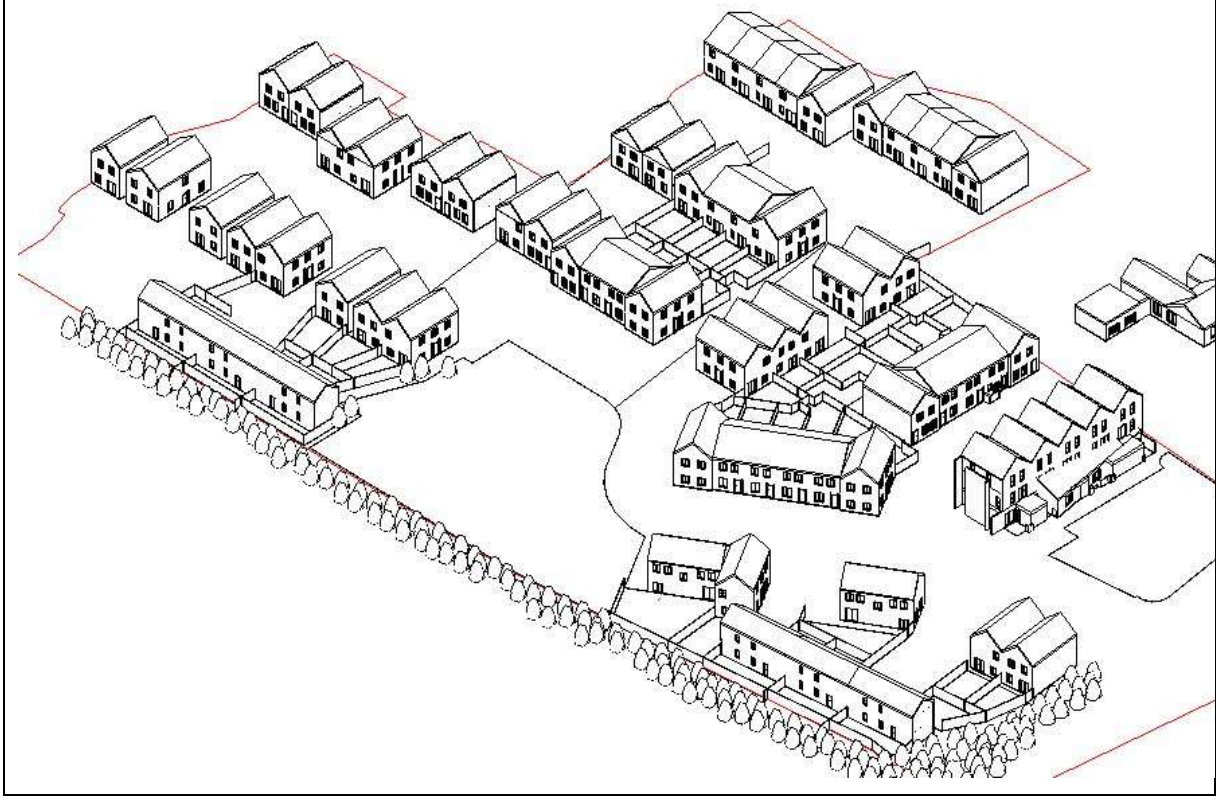
Proposed Layout (Phase 3 zone highlighted)

5.2.2 Test Model

A purpose modelled daylight -sunlight digital model was built by the author to represent:

- the existing situation the existing site and topography and neighbouring structures.
- the proposed (post development) scenario comprising the 6 new blocks of dwellings in context.

Study Model 3d view: propsoed development

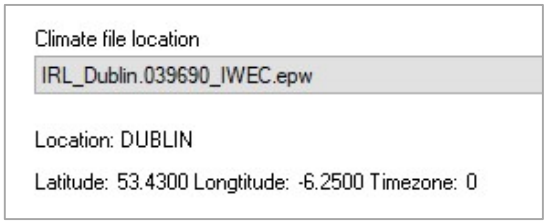


Section & levels in 3D model for assessment:

5.2.3 Assumptions and Constants – SDA /daylight

The digital model used in the assessments assumed the following material constants, settings and values:

Transparency	*transmission*
Glazing to windows and doors	68%
Obscured glazing (as per architects drawings)	51%
Trees – sunlight exposure tests Deciduous (march to September) Evergreen (annual) / Deciduous (Sept-March)	 20% 55%
Trees - SDA tests (annualised)	European Birch
Reflectances	*reflectance*
Ceilings	80%
Internal Walls	70%
Floors	30%
Other (external)	30%
Trees winter	10%
Trees summer	40%
Climate File	Dublin Airport



5.3 Assessments Carried Out- Proposed Project

5.3.1 Daylight Assessment

A Spatial Daylight Autonomy (availability) (SDA) assessment to the procedure set out in BS EN 17037. was carried out to all habitable rooms (bedrooms, kitchen dining, living etc) within each proposed new dwelling.

5.3.2 Sunlight Exposure Assessment

A Sunlight Exposure Assessment to the procedure set out in EN 17037 was carried out to all habitable rooms (bedrooms, kitchen dining, living etc) within each proposed new dwellings.

5.3.3 Amenity Sunlight

An amenity sunlight analysis of designated public/ communal outdoor open spaces of the scheme was carried out to the procedures and standards set out in BRE 209 (2022).

An amenity sunlight analysis of private open space (private gardens) zones was carried out to the procedures and standards set out in BRE 209 (2022).

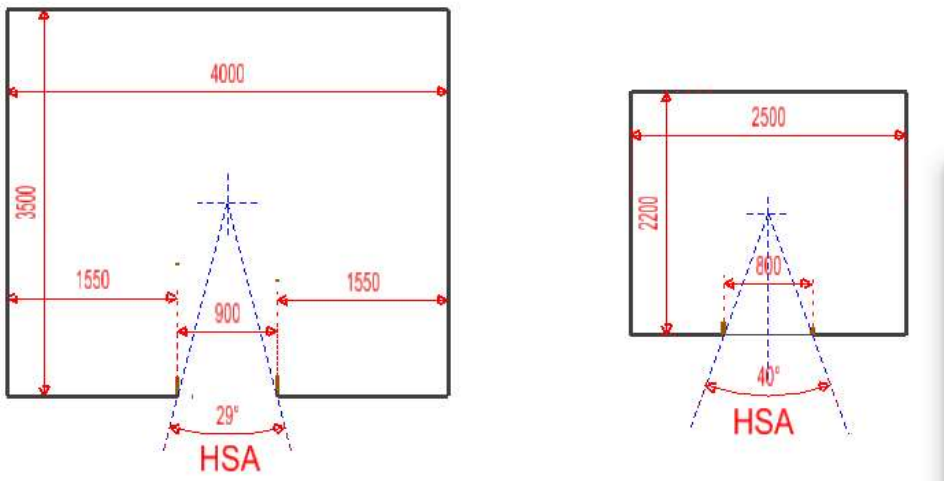
Trees indicated on the west boundary on the site plan were not included in the assessment according to the procedures set out in Section G2.2 BRE 209 (2022). Internal fences between private garden were not included but fences. Garden wall bordering public area were assessed.

5.3.4 View Quality

A preliminary view quality assessment was carried out according to the methodology of EN 17037 and the considerations set out above.

Horizontal Sight Angle

Tests were made of various room layouts (room depth, length and window width) in the dwelling types, to establish whether the minimum horizontal sight angle (HSA), assuming a viewing position in the geometric centre of the room, would be less than the minimum angle in Table A5 (ie 14 degrees). Rooms of dimension 3.5 deep x 4m wide with a window centred on the long wall 0.9m wide and a room 2.5m x 2.2dm and window 0.8m assumed to represent the range of smaller room with only one window (ie the worst case scenario for habitable rooms) were tested.



Sampling of typical (/ minimum) room dimensions and window widths versus horizontal view angle

It was found that unless an assessed room (being living, dining , KDL) was of lesser dimensions with narrower (combined) window widths than the rooms illustrated here, the HAS would be significantly above the Tabel A5 minimum (14 degrees) e.g. as above by a factor of 2 or 2.5.

Distance to Obstacle

The table below sets out the distances between the main (day) rooms windows of all units and the obstacles (fences, walls, houses) opposite them that form the first containment of the ground and landscape layers of the view.

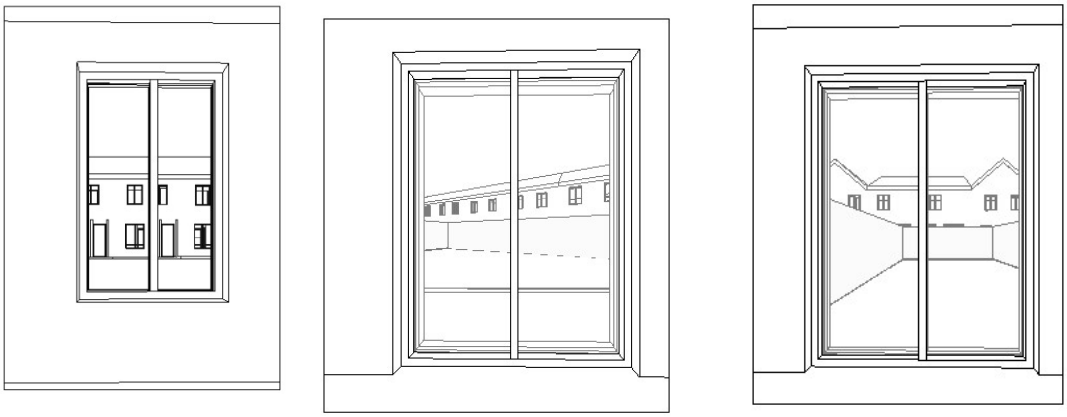
View Analysis: Distance to First Obstacle outside Main Window (Minimum = 6.0m)		
Unit no	rear	front
11-15	7.7m	15.5
16	7.8m*	37m
17	11.2m	37.0m
18	14.2m	20.0m
19 -21	8.6m	20.0m
22 -26	8.7m	8.4
27-30 31-34	8.25m 8.25m	+30.0m +50.0m
35-37	8.8m	+15.0m
38-39	6.8m	
40	+10.0m	20.0m
41	9.0m	20.0m
42	+7.0m	20.0m
43-44	9.0m	+40m
45-47	6.9m	
Q1-Q5	30m	15.75m
Q6-Q10	30m	15.75m

It can be seen that no dwelling has a distance to obstacle of less than 6.0 metres

View Layers

The requirement for a minimum passing view rating is that there be at least the landscape (middle) layer present in the view.

Typical views out are portrayed below"



Views from unit 40 to front, 42 to rear and 29 to rear

All views sampled illustrated a clear landscape layer and, in most cases ground and sky layer also.

5.4 Assessment – Neighbours

One existing residential home in the vicinity of our development site were identified as being probable residences.

probable residential neighbour (highlighted)

5.4.1 Daylight Assessment Neighbours

A daylight availability assessment comparing vertical sky components metrics before and after the development was be carried out to windows assumed to be to residential rooms in the neighbouring house (shown blue in above image) to the procedures and standards set out in BRE 209 (2022). The line of high mature trees on its west boundary was NOT modelled.

5.4.2 Sunlight Exposure Assessment- Neighbours

A Sunlight Exposure assessment comparing annual and winter probable sunlight hours before and after the development was carried for windows assumed to be to living rooms (ie ground floor windows-shown red in above image) to the procedures and standards set out in BRE 209 (2022).

5.4.3 Amenity Sunlight -Neighbours

An amenity sunlight analysis of the assumed private outdoor open spaces, at ground level, of the neighbouring dwellings was carried out at 3 points in their gardens to the procedures and standards set out in BRE 209 (2022).

6 Results

6.1 Terminology (results)

Assessment results are numerical in nature, usually a percentage of various metrics (% of room meeting the daylight factor/ lux targets, percentage of a room or space that receives the recommended sunshine exposure hours/level, etc). Each metric has a threshold that must be met to be deemed complaint or meeting the recommended standard.

We use the terms 'Pass', 'Meets', 'Minimum' or 'Yes' (depending on the language of the assessed criteria in the Guidance) to indicate that the assessed dwelling, room (or window for neighbour impact tests) is compliant. For scores that exceed the threshold, terminology like 'meets', 'yes', 'medium' or 'high' is used (both indicating compliance also obviously. For dwellings or rooms (/windows) that do not reach the threshold, the results are termed 'marginal' if they fall within 7.5% of the threshold (eg 47% where the threshold is 50%). For results below that, the terms 'Fail', 'No' / 'Not', 'Low' or 'Below' may be used. The word 'noticeable' in terms of neighbour impact assessment has the meaning described in BRE 209 (2022).

Results falling fully within the criterion here are deemed to PASS or meet the target criteria for SDA. met

Results falling within 10% of the Lux AND % Effective Area requirements are deemed borderline or marginal.

SDA	Criteria			
BS EN 17037	Req Lux	Req % of Effective Area	Req % of Daylight Hours	Daylight Hours
Bedroom	100	50%	50%	4380
Living	150	50%	50%	4380
Diing	150	50%	50%	4380
Kitche	200	50%	50%	4380
KDL	200	50%	50%	4380

Table showing daylight autonomy (SDA) targets to be met (BS EN 17037)

6.2 Assessment Results – Proposed Project

6.2.1 Daylight Availability

The following are the headline result of the daylight availability assessment to the subject rooms:

Summary			
Assessment DAYLIGHT SDA BS EN 17037	Number of Rooms Tested	Rooms satisfying Criteria	
		No.	%
	212	210	99.06%
Total	**212**	**210**	**99.06%**

Of 212 rooms assessed in the projects dwellings, 210 or 99.06% meet the BS EN 17037 criteria for spatial daylight autonomy.

Room by room these are the SDA results :

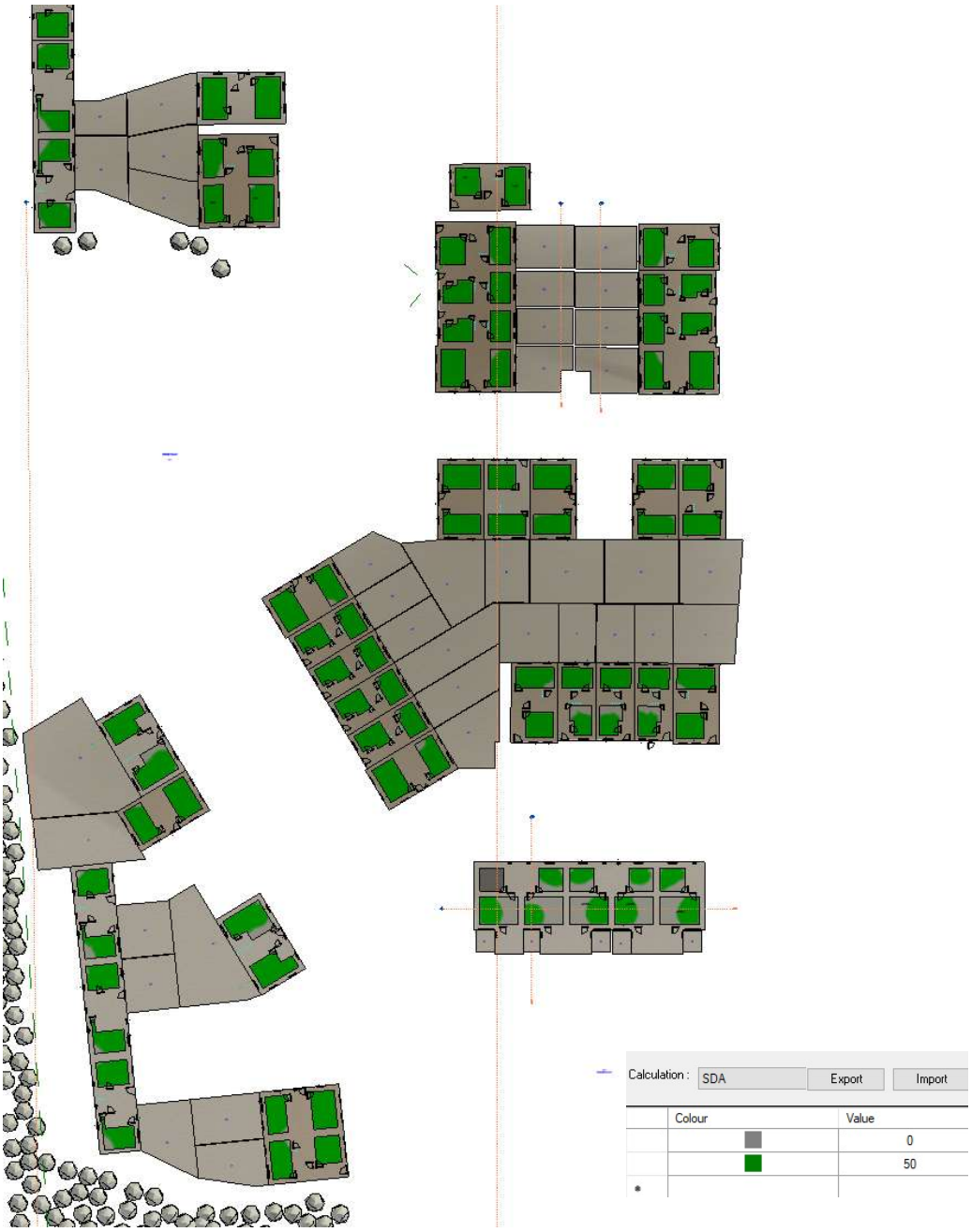
07/08/2025 BS En17037								>50% of time	
Level	Room Ref	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req. Lux:	**Meets Criteria**
Gnd. Fl.	Dplx01_Q1g_KLD	KDL	23.41	17.91	275	11.48	64%	200	YES
Gnd. Fl.	Dplx01_Q1g_KLDB	Bedroom	13.17	9.17	186	8.99	98%	100	YES
Gnd. Fl.	Dplx02_Q2g_B	Bedroom	13.65	9.58	152	8.62	90%	100	YES
Gnd. Fl.	Dplx02_Q2g_KLD	KDL	23.97	18.39	186	8.75	48%	200	NO
Gnd. Fl.	Dplx03_Q2g_B	Bedroom	13.65	9.58	143	7.92	83%	100	YES
Gnd. Fl.	Dplx03_Q2g_KLD	KDL	23.98	18.40	275	11.46	62%	200	YES
Gnd. Fl.	Dplx04_Q2g_B	Bedroom	13.65	9.58	142	8.01	84%	100	YES
Gnd. Fl.	Dplx04_Q2g_KLD	KDL	23.98	18.40	272	11.37	62%	200	YES
Gnd. Fl.	Dplx05_Q2g_B	Bedroom	13.65	9.58	163	8.53	89%	100	YES
Gnd. Fl.	Dplx05_Q2g_KLD	KDL	23.98	18.40	259	11.01	60%	200	YES
Gnd. Fl.	Unit 11 - N2 - KD	Kitchen	18.21	13.28	499	13.28	100%	200	YES
Gnd. Fl.	Unit 11 - N2 - L	Living	16.14	11.68	469	11.68	100%	100	YES
Gnd. Fl.	Unit 12 - P2 - KD	Kitchen	14.93	10.58	390	10.58	100%	200	YES
Gnd. Fl.	Unit 12 - P2 - L	Living	14.86	10.39	199	10.30	99%	100	YES
Gnd. Fl.	Unit 13 - P1 - KD	Kitchen	14.93	10.58	395	10.58	100%	200	YES
Gnd. Fl.	Unit 13 - P1 - L	Living	14.86	10.39	187	10.04	97%	100	YES
Gnd. Fl.	Unit 14 - P1 - KD	Kitchen	14.93	10.58	390	10.49	99%	200	YES
Gnd. Fl.	Unit 14 - P1 - L	Living	14.86	10.39	181	9.95	96%	100	YES
Gnd. Fl.	Unit 15 - N2 - KD	Kitchen	18.21	13.28	467	13.28	100%	200	YES
Gnd. Fl.	Unit 15 - N2 - L	Living	16.14	11.68	351	11.68	100%	100	YES
Gnd. Fl.	Unit 16 - L1 - L	Living	20.49	15.32	437	15.32	100%	100	YES
Gnd. Fl.	Unit 16 - L1 -KD	Kitchen	17.81	12.77	564	12.77	100%	200	YES
Gnd. Fl.	Unit 17 - P1- KD	Kitchen	14.93	10.58	397	10.49	99%	200	YES
Gnd. Fl.	Unit 17 - P1- L	Living	14.86	10.39	310	10.39	100%	100	YES
Gnd. Fl.	Unit 18 - P1- KD	Kitchen	14.93	10.58	403	10.58	100%	200	YES
Gnd. Fl.	Unit 18 - P1- L	Living	14.86	10.39	311	10.39	100%	100	YES
Gnd. Fl.	Unit 19 - P1- KD	Kitchen	14.93	10.58	416	10.58	100%	200	YES
Gnd. Fl.	Unit 19 - P1- L	Living	14.86	10.39	306	10.39	100%	100	YES
Gnd. Fl.	Unit 20 - P1- KD	Kitchen	14.93	10.58	414	10.58	100%	200	YES
Gnd. Fl.	Unit 20 - P1- L	Living	14.86	10.39	301	10.39	100%	100	YES
Gnd. Fl.	Unit 21 - L1 - KD	Kitchen	17.81	12.77	629	12.77	100%	200	YES
Gnd. Fl.	Unit 21 - L1 - L	Living	20.49	15.32	403	15.32	100%	100	YES
Gnd. Fl.	Unit 22- L1 - KD	Kitchen	17.81	12.77	842	12.77	100%	200	YES

Level	Room Ref	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req. Lux:	Meets Criteria
Gnd. Fl.	Unit 24 - L1 - KD	Kitchen	17.81	12.77	742	12.77	100%	200	YES
Gnd. Fl.	Unit 24 - L1 - L	Living	20.49	15.32	274	15.32	100%	100	YES
Gnd. Fl.	Unit 25 - L1 - KD	Kitchen	17.81	12.77	757	12.77	100%	200	YES
Gnd. Fl.	Unit 25 - L1 - L	Living	20.49	15.32	272	15.32	100%	100	YES
Gnd. Fl.	Unit 26 - N1 - KD	Kitchen	18.21	13.28	718	13.28	100%	200	YES
Gnd. Fl.	Unit 26 - N1 - L	Living	16.14	11.68	315	11.68	100%	100	YES
Gnd. Fl.	Unit 27- L1 - KD	Kitchen	17.81	12.77	600	12.77	100%	200	YES
Gnd. Fl.	Unit 27- L1 - L	Living	20.49	15.32	357	15.32	100%	100	YES
Gnd. Fl.	Unit 28- P1 - KD	Kitchen	14.93	10.58	381	10.58	100%	200	YES
Gnd. Fl.	Unit 28- P1 - L	Living	14.86	10.39	283	10.39	100%	100	YES
Gnd. Fl.	Unit 29- P1 - KD	Kitchen	14.93	10.58	382	10.58	100%	200	YES
Gnd. Fl.	Unit 29- P1 - L	Living	14.86	10.39	276	10.39	100%	100	YES
Gnd. Fl.	Unit 30 - N2- KD	Kitchen	18.21	13.28	504	13.28	100%	200	YES
Gnd. Fl.	Unit 30 - N2- L	Living	16.14	11.68	452	11.68	100%	100	YES
Gnd. Fl.	Unit 31-L1-KD	Kitchen	17.81	12.77	608	12.77	100%	200	YES
Gnd. Fl.	Unit 31-L1-L	Living	20.49	15.32	376	15.32	100%	100	YES
Gnd. Fl.	Unit 32 - P1 - KD	Kitchen	14.93	10.58	427	10.49	99%	200	YES
Gnd. Fl.	Unit 32 - P1 - L	Living	14.86	10.39	286	10.39	100%	100	YES
Gnd. Fl.	Unit 33 - P1 - KD	Kitchen	14.93	10.58	427	10.58	100%	200	YES
Gnd. Fl.	Unit 33 - P1 - L	Living	14.86	10.39	289	10.39	100%	100	YES
Gnd. Fl.	Unit 34 -N2 - KD	Kitchen	18.21	13.28	527	13.28	100%	200	YES
Gnd. Fl.	Unit 34 -N2 - L	Living	16.14	11.68	474	11.68	100%	100	YES
Gnd. Fl.	Unit 36 - N1- KD	Kitchen	18.21	13.28	537	13.28	100%	200	YES
Gnd. Fl.	Unit 36 - N1- L	Living	16.14	11.68	448	11.68	100%	100	YES
Gnd. Fl.	Unit 38 - O3 -KD	Kitchen	17.58	12.11	481	11.61	96%	200	YES
Gnd. Fl.	Unit 38 - O3 -L	Living	17.82	13.09	258	12.24	94%	100	YES
Gnd. Fl.	Unit 39 - O2 - KD	Kitchen	17.50	12.05	493	11.32	94%	200	YES
Gnd. Fl.	Unit 39 - O2 - L	Living	17.82	13.09	316	12.83	98%	100	YES
Gnd. Fl.	Unit 39 - R2 -KD	Kitchen	23.08	17.53	359	15.58	89%	200	YES
Gnd. Fl.	Unit 39 - R2 -L	Living	23.65	18.03	269	18.03	100%	100	YES
Gnd. Fl.	Unit 40 - U -KD	Kitchen	25.46	19.37	323	16.16	83%	200	YES
Gnd. Fl.	Unit 40 - U -L	Living	21.23	15.58	694	15.58	100%	100	YES
Gnd. Fl.	Unit 41 - L1 - KD	Kitchen	17.81	12.77	662	12.77	100%	200	YES
Gnd. Fl.	Unit 41 - L1 - L	Living	20.49	15.32	368	15.32	100%	100	YES
Gnd. Fl.	Unit 42 - U - KD	Kitchen	25.46	19.37	335	15.98	82%	200	YES
Gnd. Fl.	Unit 42 - U - L	Living	21.23	15.58	904	15.58	100%	100	YES
Gnd. Fl.	Unit 43 - L1- KD	Kitchen	17.81	12.77	660	12.77	100%	200	YES
Gnd. Fl.	Unit 43 - L1- L	Living	20.49	15.32	422	15.32	100%	100	YES
Gnd. Fl.	Unit 44- N1- KD	Kitchen	18.21	13.28	529	13.28	100%	200	YES
Gnd. Fl.	Unit 44- N1- L	Living	16.14	11.68	509	11.68	100%	100	YES
Gnd. Fl.	Unit 45 - O2 - KD	Kitchen	17.50	12.05	516	11.80	98%	200	YES
Gnd. Fl.	Unit 45 - O2 - L	Living	17.82	13.09	367	13.09	100%	100	YES
Gnd. Fl.	Unit 46 - O3 - KD	Kitchen	17.58	12.11	553	12.02	99%	200	YES
Gnd. Fl.	Unit 46 - O3 - L	Living	17.82	13.09	264	12.32	94%	100	YES
Gnd. Fl.	Unit 47 - O2 - KD	Kitchen	17.50	12.05	505	11.88	99%	200	YES
Gnd. Fl.	Unit 47 - O2 - L	Living	17.82	13.09	359	13.09	100%	100	YES
Gnd. Fl.	Unit 92 -N1_KDL	Bedroom	18.21	13.28	12955	13.28	100%	100	YES
Gnd. Fl.	Unit 92 -N1_L	Bedroom	16.14	11.68	11828	11.68	100%	100	YES
Gnd. Fl.	Unit 93 - O3_KD	Kitchen	17.58	12.11	500	11.47	95%	200	YES
Gnd. Fl.	Unit 99 - O3_L	Living	17.82	13.09	233	12.07	92%	100	YES
Gnd. Fl.	Unit35-L-L	Living Roo	20.49	15.32	468	15.32	100%	150	YES
Gnd. Fl.	Unit36-L-KD	M Bedrool	17.81	12.77	657	12.77	100%	100	YES

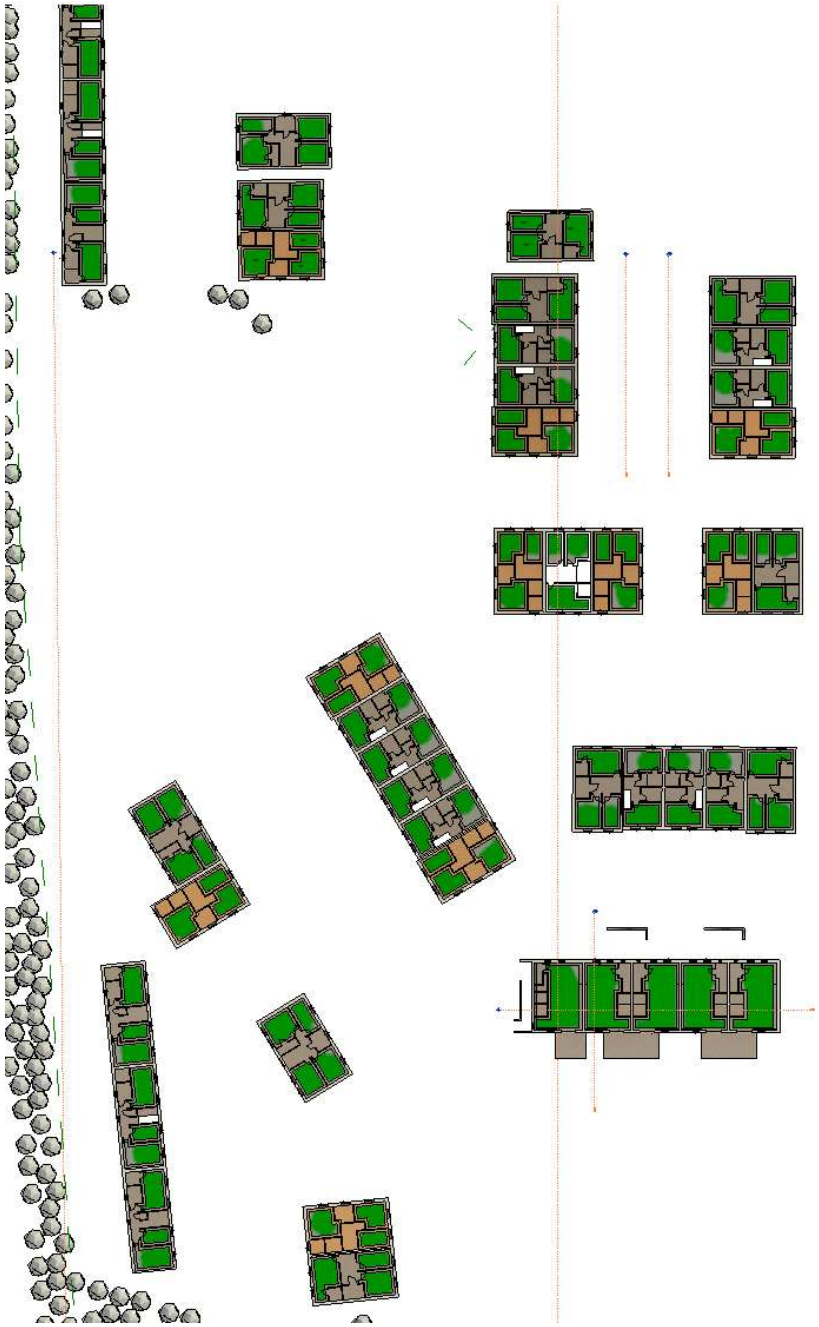
Level	Room Ref	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req. Lux:	Meets Criteria
+1FL	Unit 11 - N2 - B1	Bed 1	15.36	10.42	394	10.42	100%	100	YES
+1FL	Unit 11 - N2 - B2	Bed 2	12.63	8.50	298	8.50	100%	100	YES
+1FL	Unit 11 - N2 - B3	Bed 3	9.26	5.77	304	5.77	100%	100	YES
+1FL	Unit 12 - P2 - B1	Bed 1	13.89	9.55	215	6.72	70%	100	YES
+1FL	Unit 12 - P2 - B2	Bed 2	12.55	8.40	665	8.40	100%	100	YES
+1FL	Unit 13 - P1 - B1	Bed 1	13.89	9.55	217	6.83	72%	100	YES
+1FL	Unit 13 - P1 - B2	Bed 2	12.55	8.40	632	8.40	100%	100	YES
+1FL	Unit 14 - P1 - B1	Bed 1	13.89	9.55	223	7.16	75%	100	YES
+1FL	Unit 14 - P1 - B2	Bed 2	12.55	8.40	598	8.40	100%	100	YES
+1FL	Unit 15 - N2 - B1	Bed 1	15.36	10.42	381	10.42	100%	100	YES
+1FL	Unit 15 - N2 - B2	Bed 2	12.63	8.50	252	7.97	94%	100	YES
+1FL	Unit 15 - N2 - B3	Bed 3	9.26	5.77	252	4.90	85%	100	YES
+1FL	Unit 16 - L1 -B1	Bed 1	12.90	8.78	190	8.42	96%	100	YES
+1FL	Unit 16 - L1 -B2	Bed 2	11.11	7.22	848	7.22	100%	100	YES
+1FL	Unit 16 - L1 -B3	Bed 3	8.14	4.93	349	4.93	100%	100	YES
+1FL	Unit 17 - P1- B1	Bed 1	13.89	9.55	212	7.01	73%	100	YES
+1FL	Unit 17 - P1- B2	Bed 2	12.55	8.40	707	8.40	100%	100	YES
+1FL	Unit 18 - P1- B1	Bed 1	13.89	9.55	227	7.09	74%	100	YES
+1FL	Unit 18 - P1- B2	Bed 2	12.55	8.40	698	8.40	100%	100	YES
+1FL	Unit 19 - P1- B1	Bed 1	13.89	9.55	223	6.83	72%	100	YES
+1FL	Unit 19 - P1- B2	Bed 2	12.55	8.40	699	8.40	100%	100	YES
+1FL	Unit 20 - P1- B1	Bed 1	13.89	9.55	221	6.92	72%	100	YES
+1FL	Unit 20 - P1- B2	Bed 2	12.55	8.40	699	8.40	100%	100	YES
+1FL	Unit 21 - L1 - B1	Bed 1	12.90	8.78	199	8.69	99%	100	YES
+1FL	Unit 21 - L1 - B2	Bed 2	11.11	7.22	696	7.22	100%	100	YES
+1FL	Unit 21 - L1 - B3	Bed 3	8.14	4.93	353	4.93	100%	100	YES
+1FL	Unit 22- L1 - B1	Bed 1	12.90	8.78	199	8.69	99%	100	YES
+1FL	Unit 22- L1 - B2	Bed 2	11.11	7.22	593	7.22	100%	100	YES
+1FL	Unit 22- L1 - B3	Bed 3	8.14	4.93	222	4.93	100%	100	YES
+1FL	Unit 23 - N4 - B1	Bed 1	15.76	10.79	392	10.79	100%	100	YES
+1FL	Unit 23 - N4 - B2	Bed 2	12.51	8.42	199	8.07	96%	100	YES
+1FL	Unit 23 - N4 - B3	Bed 3	9.11	5.66	193	5.00	88%	100	YES
+1FL	Unit 24 - L1 - B1	Bed 1	12.90	8.78	182	8.33	95%	100	YES
+1FL	Unit 24 - L1 - B2	Bed 2	11.11	7.22	580	7.22	100%	100	YES
+1FL	Unit 24 - L1 - B3	Bed 3	8.14	4.93	265	4.93	100%	100	YES
+1FL	Unit 25 - L1 - B1	Bed 1	12.90	8.78	159	8.24	94%	100	YES
+1FL	Unit 25 - L1 - B3	Bed 3	8.14	4.93	227	4.93	100%	100	YES
+1FL	Unit 26 - N1 - B1	Bed 1	15.36	10.42	551	10.42	100%	100	YES
+1FL	Unit 26 - N1 - B2	Bed 2	12.63	8.50	213	8.41	99%	100	YES
+1FL	Unit 26 - N1 - B3	Bed 3	9.26	5.77	211	5.00	87%	100	YES
+1FL	Unit 27- L1 - B1	Bed 1	12.90	8.78	221	8.69	99%	100	YES
+1FL	Unit 27- L1 - B2	Bed 2	11.11	7.22	799	7.22	100%	100	YES
+1FL	Unit 27- L1 - B3	Bed 3	8.14	4.93	324	4.93	100%	100	YES
+1FL	Unit 28- P1 - B1	Bed 1	13.89	9.55	221	7.25	76%	100	YES
+1FL	Unit 28- P1 - B2	Bed 2	12.55	8.40	613	8.40	100%	100	YES
+1FL	Unit 29- P1 - B1	Bed 1	13.89	9.55	220	7.42	78%	100	YES
+1FL	Unit 29- P1 - B2	Bed 2	12.55	8.40	614	8.40	100%	100	YES
+1FL	Unit 30 - N2- B1	Bed 1	15.36	10.42	406	10.42	100%	100	YES
+1FL	Unit 30 - N2- B2	Bed 2	12.63	8.50	258	8.50	100%	100	YES
+1FL	Unit 30 - N2- B3	Bed 3	9.26	5.77	276	5.77	100%	100	YES
+1FL	Unit 31-L1-B1	Bed 1	12.90	8.78	209	8.60	98%	100	YES
+1FL	Unit 31-L1-B2	Bed 2	11.11	7.22	773	7.22	100%	100	YES
+1FL	Unit 31-L1-B3	Bed 3	8.14	4.93	292	4.93	100%	100	YES
+1FL	Unit 32 - P1 - B1	Bed 1	13.89	9.55	234	7.60	80%	100	YES
+1FL	Unit 32 - P1 - B2	Bed 2	12.55	8.40	609	8.40	100%	100	YES
+1FL	Unit 33 - P1 - B1	Bed 1	13.89	9.55	236	7.87	82%	100	YES
+1FL	Unit 33 - P1 - B2	Bed 2	12.55	8.40	608	8.40	100%	100	YES

Level	Room Ref	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req. Lux:	Meets Criteria
+1FL	Unit 33 - P1 - B2	Bed 2	12.55	8.40	608	8.40	100%	100	YES
+1FL	Unit 34 -N2 - B1	Bed 1	15.36	10.42	433	10.42	100%	100	YES
+1FL	Unit 34 -N2 - B2	Bed 2	12.63	8.50	253	8.50	100%	100	YES
+1FL	Unit 34 -N2 - B3	Bed 3	9.26	5.77	270	5.77	100%	100	YES
+1FL	Unit 36 - N1- B1	Bed 1	15.36	10.42	440	10.42	100%	100	YES
+1FL	Unit 36 - N1- B2	Bed 2	12.63	8.50	258	8.50	100%	100	YES
+1FL	Unit 36 - N1- B3	Bed 3	9.27	5.77	278	5.77	100%	100	YES
+1FL	Unit 38 - O3 -B	Bed 2	14.02	9.36	117	5.40	58%	100	YES
+1FL	Unit 38 - O3 -B2	Bed 1	14.63	9.88	281	9.88	100%	100	YES
+1FL	Unit 38 - O3 -B3	Bed 3	7.47	4.44	211	4.44	100%	100	YES
+1FL	Unit 39 - O2 - B1	Bed 1	14.90	10.14	551	10.14	100%	100	YES
+1FL	Unit 39 - O2 - B2	Bed 2	14.03	9.35	246	8.90	95%	100	YES
+1FL	Unit 39 - O2 - B3	Bed 3	7.53	4.48	439	4.48	100%	100	YES
+1FL	Unit 39 - R2 -B1	Bed 1	11.45	7.71	163	6.66	86%	100	YES
+1FL	Unit 39 - R2 -B2	Bed 2	8.93	5.48	117	3.10	57%	100	YES
+1FL	Unit 39 - R2 -B3	Bed 3	11.71	7.92	172	6.66	84%	100	YES
+1FL	Unit 39 - R2 -B4	Bed 4	13.61	9.46	126	4.02	42%	150	NO
+1FL	Unit 40 - U -B1	Bed 1	11.85	8.03	712	8.03	100%	100	YES
+1FL	Unit 40 - U -B2	Bed 2	9.12	5.64	397	5.55	98%	100	YES
+1FL	Unit 40 - U -B3	Bed 3	11.77	7.96	279	7.78	98%	100	YES
+1FL	Unit 40 - U -B4	Bed 4	13.26	9.19	488	9.19	100%	150	YES
+1FL	Unit 41 - L1 - B1	Bed 1	12.90	8.78	256	8.78	100%	100	YES
+1FL	Unit 41 - L1 - B2	Bed 2	11.11	7.22	801	7.22	100%	100	YES
+1FL	Unit 41 - L1 - B3	Bed 3	8.14	4.93	297	4.93	100%	100	YES
+1FL	Unit 42 - U - B1	Bed 1	11.85	8.03	717	8.03	100%	100	YES
+1FL	Unit 42 - U - B3	Bed 3	11.77	7.96	272	7.87	99%	100	YES
+1FL	Unit 42 - U - B4	Bed 4	13.26	9.19	596	9.19	100%	150	YES
+1FL	Unit 42 - U -B2	Bed 2	9.12	5.64	392	5.55	98%	100	YES
+1FL	Unit 43 - L1- B1	Bed 1	12.90	8.78	180	8.60	98%	100	YES
+1FL	Unit 43 - L1- B2	Bed 2	11.11	7.22	664	7.22	100%	100	YES
+1FL	Unit 43 - L1- B3	Bed 3	8.14	4.93	297	4.93	100%	100	YES
+1FL	Unit 44- N1- B1	Bed 1	15.36	10.42	452	10.42	100%	100	YES
+1FL	Unit 44- N1- B2	Bed 2	12.63	8.50	279	8.50	100%	100	YES
+1FL	Unit 44- N1- B3	Bed 3	9.27	5.77	290	5.77	100%	100	YES
+1FL	Unit 45 - O2 - B1	Bed 1	14.90	10.14	555	10.14	100%	100	YES
+1FL	Unit 45 - O2 - B2	Bed 2	14.03	9.35	250	8.90	95%	100	YES
+1FL	Unit 45 - O2 - B3	Bed 3	7.53	4.48	431	4.48	100%	100	YES
+1FL	Unit 46 - O3 - B1	Bed 1	14.63	9.88	283	9.88	100%	100	YES
+1FL	Unit 46 - O3 - B2	Bed 2	14.02	9.36	122	5.40	58%	100	YES
+1FL	Unit 46 - O3 - B3	Bed 3	7.47	4.44	214	4.44	100%	100	YES
+1FL	Unit 47 - O2 - B1	Bed 1	14.90	10.14	550	10.14	100%	100	YES
+1FL	Unit 47 - O2 - B2	Bed 2	14.03	9.35	239	8.90	95%	100	YES
+1FL	Unit 47 - O2 - B3	Bed 3	7.53	4.48	426	4.48	100%	100	YES
+1FL	Unit 92 -N1_B1	Bedroom	15.36	10.42	15154	10.42	100%	100	YES
+1FL	Unit 92 -N1_B3	Bedroom	9.26	5.77	13737	5.77	100%	100	YES
+1FL	Unit 92 -N1_B22	Bedroom	12.63	8.50	13101	8.50	100%	100	YES
+1FL	Unit 93 - O3_B8	Bed 2	14.02	9.36	121	5.31	57%	100	YES
+1FL	Unit 99 - O3_B3	Bed 1	14.63	9.88	278	9.88	100%	100	YES
+1FL	Unit 99 - O3_B7	Bed 3	7.47	4.44	219	4.44	100%	100	YES
+1FL	Unit35-L-B1	Bedroom	12.90	8.78	274	8.78	100%	100	YES
+1FL	Unit35-L-B2	Bedroom	11.11	7.22	873	7.22	100%	100	YES
+1FL	Unit35-L-B3	Bedroom	8.14	4.93	317	4.93	100%	100	YES
+1FL(Q)	Dplx06_Q1u_KLD	Kitchen/Li	37.05	28.66	502	28.39	99%	200	YES
+1FL(Q)	Dplx07_Q1u_KLD	Kitchen/Li	35.85	27.57	442	27.57	100%	200	YES
+1FL(Q)	Dplx08_Q1u_KLD	Kitchen/Li	35.95	27.66	443	27.66	100%	200	YES
+1FL(Q)	Dplx09_Q1u_KLD	Kitchen/Li	36.01	27.72	435	27.72	100%	200	YES
+1FL(Q)	Dplx10_Q1u_KLD	Kitchen/Li	36.00	27.70	452	27.70	100%	200	YES

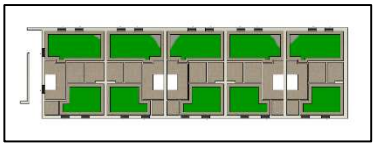
Level	Room Ref	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req. Lux:	**Meets Criteria**
+2FL(Q)	Dplx06_Q1u_B1	Bedroom	16.89	11.93	521	11.93	100%	100	YES
+2FL(Q)	Dplx06_Q1u_B2	Bedroom	12.23	8.15	576	8.15	100%	100	YES
+2FL(Q)	Dplx07_Q2u_B1	Bedroom	16.25	11.42	330	11.08	97%	100	YES
+2FL(Q)	Dplx07_Q2u_B2	Bedroom	11.73	7.68	566	7.68	100%	100	YES
+2FL(Q)	Dplx08_Q2u_B1	Bedroom	16.31	11.47	321	11.04	96%	100	YES
+2FL(Q)	Dplx08_Q2u_B2	Bedroom	11.80	7.74	559	7.74	100%	100	YES
+2FL(Q)	Dplx09_Q2u_B1	Bedroom	16.30	11.47	324	11.12	97%	100	YES
+2FL(Q)	Dplx09_Q2u_B2	Bedroom	11.78	7.72	565	7.72	100%	100	YES
+2FL(Q)	Dplx10_Q2u_B1	Bedroom	16.33	11.49	332	11.14	97%	100	YES
+2FL(Q)	Dplx10_Q2u_B2	Bedroom	11.81	7.75	565	7.75	100%	100	YES



SDA-graphic results to ground floors



SDA results First Floor (top) and 2nd Floor -units type Q) (below)



6.2.2 Sunlight Exposure

An assessment for sunlight exposure was carried out on relevant rooms throughout the project.

The following are the result of the sunlight exposure to the dwellings and rooms assessed:

Summary **SUNLIGHT EXPOSURE** (SE) - EN17037	Number of Rooms Tested	Rating				No. of Rooms Satisfying Criteria
		High	Medium	Minimum	Failed	
Various	204	75	41	44	44	160
Total	**204**	**75**	**41**	**44**	**44**	**160**

Of 204 rooms tested, 160 (78%) meet the SE targets in EN 17037 fully.

It should be noted that for a unit (dwelling) to be deemed compliant, one habitable room in it must meet the required sunlight exposure level.

At a dwelling level the result were as follows:

SE Individual Dwelling Test **SUNLIGHT EXPOSURE (SE) - EN17037** Gort Mell Ph 3 (Proposed Scheme)					Qty: **49**
Unit Ref Qty: **49.00**	Ratings occurring in any room of dwelling (Y= yes)? SE Ratings: High	Medium	Minimum	Pass	**Dwellings Complying**
(requirement is any 1 habitable room must meet standard for dwelling to comply)					**100%**
Dplx01	Y	0	0	0	**PASS**
Dplx02	0	0	Y	0	**PASS**
Dplx03	Y	0	0	0	**PASS**
Dplx04	Y	0	0	0	**PASS**
Dplx05	Y	0	0	0	**PASS**
Unit 11	Y	0	0	0	**PASS**
Unit 12	Y	0	0	0	**PASS**
Unit 13	Y	0	0	0	**PASS**
Unit 14	Y	0	0	0	**PASS**
Unit 15	Y	0	0	0	**PASS**
Unit 16	Y	0	0	0	**PASS**
Unit 17	Y	0	Y	0	**PASS**
Unit 18	Y	Y	0	0	**PASS**
Unit 19	Y	Y	0	0	**PASS**
Unit 20	Y	Y	Y	0	**PASS**
Unit 21	Y	0	Y	0	**PASS**
Unit 22	Y	0	Y	0	**PASS**
Unit 23	Y	0	0	0	**PASS**
Unit 24	Y	0	Y	0	**PASS**
Unit 25	Y	0	Y	0	**PASS**
Unit 26	Y	0	0	0	**PASS**
Unit 27	Y	Y	0	0	**PASS**
Unit 28	0	Y	Y	0	**PASS**
Unit 29	0	Y	Y	0	**PASS**
Unit 30	0	Y	Y	0	**PASS**
Unit 31	Y	0	Y	0	**PASS**
Unit 32	0	Y	Y	0	**PASS**

SE Individual Dwelling Test SUNLIGHT EXPOSURE (SE) - EN17037 Gort Mell Ph 3 (Proposed Scheme)						Qty: 49
Unit Ref Qty: 49.00	Ratings occurring in any room of dwelling (Y= yes)? SE Ratings:	High	Medium	Minimum	Pass	Dwellings Complying
(requirement is any 1 habitable room must meet standard for dwelling to comply)						100%
Unit 33		0	Y	Y	0	PASS
Unit 34		0	Y	Y	0	PASS
Unit 36		0	0	Y	0	PASS
Unit 38		Y	Y	Y	0	PASS
Unit 39		Y	Y	Y	0	PASS
Unit 40		Y	Y	0	0	PASS
Unit 41		Y	0	0	0	PASS
Unit 42		Y	0	0	0	PASS
Unit 43		0	Y	Y	0	PASS
Unit 44		0	Y	Y	0	PASS
Unit 45		Y	Y	Y	0	PASS
Unit 46		Y	Y	0	0	PASS
Unit 47		Y	Y	0	0	PASS
Unit 92		0	Y	Y	0	PASS
Unit 93		Y	Y	0	0	PASS
Unit35		Y	0	0	0	PASS
Unit 35		Y	0	Y	0	PASS
Dplx06		Y	0	0	0	PASS
Dplx07		Y	0	0	0	PASS
Dplx08		Y	0	0	0	PASS
Dplx09		Y	0	0	0	PASS
Dplx10		Y	0	0	0	PASS

All 49 units meet the recommendation for Sunlight Exposure set out in EN 17037.

6.2.3 Amenity Sunlight

2 public outdoor / communal open spaces, were tested for sunlight amenity targets under BER 209 2022.

Public /communal open spaces (shown green) , private open space zones (shown blue) assessed for amenity sunlight

The following table show the results for the public/ communal open spaces.

Gort Mell 04/08/2025		**Amenity Sunlight Analysis** BRE 2029 2022 (March / Sept 21st) Public Open Spaces Extnl Areas		* recommendation is 50% to receive >2hrs sun on March/ Sept21
Zone Ref	**Area** (msq)	**Proposed:** Areas Meeting Criteria* (msq)	(%)	**>50% Receives** >2hrs sun March/ Sept 21st)- **Existing ?** Pass/Fai
Extnl Space_1	1824.0	1811.2	99.30%	YES
Extnl Space_2	736.0	736.0	100.00%	YES

All meet the BRE 209 2009 criteria for amenity sunlight.

The following table show the results for the private open space zones.

Project Name: Gort Mell_Proposed-B
Project No.: D522
Assessment-Amenity Sunlight_Private Open Space - Proposed
BRE 209 (2022)
15-Aug-25

Floor Ref	Amenity Ref		Amenity Area	Lit Area Proposed	Meets BRE Criteria
Private Open Space Zones					
0 FFL	SoG_PrvtGdns_27-34	Area m2	341.57	294.85	YES
		Percentage		86%	
	SoG_PrvtGdns_35-39	Area m2	244.12	207.66	YES
		Percentage		85%	
	SoG_PrvtGdns_43-45	Area m2	159.34	95.99	YES
		Percentage		60%	
	SoG_PrvyGdns_11-26	Area m2	919.71	739.43	YES
		Percentage		80%	

All private open space zones meet the BRE 209 2009 criteria for amenity sunlight.

6.2.4 View Quality

As set out in Section 5.3.4 above all units were found to have results that lie within the minimum quality view matrix of Table A4 of EN 17037. Many views would qualify as being rated higher.

6.3 Neighbour Impact Results

6.3.1 Daylight Impacts

The following are the results of assessment of potential impacts to the vertical sky component of the relevant neighbour's windows assessed under BRE 209 (2022):

Gort Mell Ph 3_Neighbours DSA24 Daylight & Sunlight Analysis - Neighbour BRE 209 (2022) Date of Analysis:			DAYLIGHT VSC		
Window Ref.	Window Orient-ation		VSC	Pr/Ex	Meets BRE Criteria
Neighbour					
1564	276°N	Existing	39.02	0.88	YES
		Proposed	34.35		
1565	276°N	Existing	39.01	0.88	YES
		Proposed	34.50		
1566	186°	Existing	39.51	0.99	YES
		Proposed	39.13		
1567	186°	Existing	39.54	0.99	YES
		Proposed	39.25		
1568	186°	Existing	39.57	0.99	YES
		Proposed	39.34		
1569	186°	Existing	39.59	1.00	YES
		Proposed	39.43		
1578	6°N	Existing	39.57	0.97	YES
		Proposed	38.29		
1579	6°N	Existing	39.57	0.96	YES
		Proposed	38.12		
1575	186°	Existing	39.62	1.00	YES
		Proposed	39.51		

No windows experience any reduction in daylight (VSC) due to the proposed development.

For more detailed window by window results please see Appendices below.

6.3.2 Sunlight Impacts

The following are the results of assessment of potential impacts to the annual and winter probable sunshine hours (a/wPSH) of the relevant neighbours windows assessed.

Gort Mell Ph 3_Neighbours DSA24 Daylight & Sunlight Analysis - Neighbour BRE 209 (2022) Date of Analysis:			**SUNLIGHT** a/wPSH						**Window Annual**		**Window Winter**	
Window Ref.	Window Orient-ation		Annual	Pr/Ex	**Meets BRE Criteria**	Winter	Pr/Ex	**Meets BRE Criteria**	Loss	Passing Criteria	Passing Criteria	**Meets Both Window Criteria**
Neighbour												
1564	276°N	Existing		*North	*North		*North	*North	*North			
		Proposed										
1565	276°N	Existing		*North	*North		*North	*North	*North			
		Proposed										
1566	186°	Existing	87.88	1.00	**YES**	32.17	1.00	YES	0.31	nual Pr >=	inter Pr >=	**YES**
		Proposed	87.57			32.17						
1567	186°	Existing	87.88	1.00	**YES**	32.17	1.00	YES	0.16	nual Pr >=	inter Pr >=	**YES**
		Proposed	87.72			32.17						
1568	186°	Existing	87.88	1.00	**YES**	32.17	1.00	YES	0.16	nual Pr >=	inter Pr >=	**YES**
		Proposed	87.72			32.17						
1569	186°	Existing	87.88	1.00	**YES**	32.17	1.00	YES	0.08	nual Pr >=	inter Pr >=	**YES**
		Proposed	87.80			32.17						
1578	6°N	Existing		*North	*North		*North	*North	*North			
		Proposed										
1579	6°N	Existing		*North	*North		*North	*North	*North			
		Proposed										
1575	186°	Existing	87.88	1.00	**YES**	32.17	1.00	YES	0.00	nual Pr >=	inter Pr >=	**YES**
		Proposed	87.88			32.17						

No windows experience a noticeable reduction in sunlight (a/wPSH) due to the proposed development when assessed under criterion set out in BRE 209 (2022).

It should be noted that only windows within 90 of south are assessed for impacts to sunlight access.

6.3.3 Amenity Sunlight Impacts

The following are the results of assessment of potential impacts to the amenity sunlight of the neighbour 3 selected outdoor amenity spaces assessed.

Project Name: Gort Mell Ph 3_Neighbours Project No.: DSA24 Report Title: Two hours Sunlight to Amenity Analysis - Neighbour Date of Analysis:						
Amenity Ref		Amenity Area	Lit Area Existing	Lit Area Proposed	Pr/Ex	Meets BRE Criteria
Neighbour						
Neighbour_Garden Area 1	Area m2	21.87	21.87	21.87	1.00	**YES**
	Percentage		100%	100%		
Neighbour_Garden Area 2	Area m2	73.15	73.15	73.15	1.00	**YES**
	Percentage		100%	100%		
Neighbour_Garden Area 3	Area m2	34.99	34.99	34.99	1.00	**YES**
	Percentage		100%	100%		

No outdoor spaces experience a noticeable reduction in amenity sunlight due to the proposed development when assessed under criterion set out in BRE 209 (2022).

6.4 Flexibility in the Guidance - Mitigation and Compensation

6.4.1 Mitigations and Compensatory Measures

The proposed scheme meets the required standards for daylight and sunlight within the new dwellings and has no impact on neighbours and so no mitigating actions or compensatory measures required.

6.4.1 Flexibility in Evaluating Results

The guidance is replete with suggestions to planning authorities to consider the numerical guidelines as recommendations, not as rigid metrics to be imposed to the detriment of other, often competing planning and urban design objectives.

The Design Guidelines for instance states '*planning authorities should apply their discretion taking account of its assessment of specifics (aspects of the proposal). This (departure from meeting the recommendations) may arise due to a design constraints associated with the site or location and the (planning authority should proceed by) 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 solutions'*.

The BRE guidance document states that '*although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design. In special circumstances the developer or planning authority may wish to use different target values. For example in historic city centres or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments or to match the height and proportions of existing buildings'*

6.5 Conclusion

The proposed development has been successfully designed to provide the recommended quality of daylight availability, sunlight exposure and view quality to all new dwellings, and has achieved the recommend levels of amenity sunlight to both private and public/ communal outdoor spaces.

Only one private house lies in the vicinity of the project and it experiences no impacts to it's daylight, sunlight, or amenity sunlight due to the proposed scheme.

7 Approval

This assessment study was carried out by Brian T O Brien MRIAI M Arch (UC Berkely), B Arch Sci TU Dublin, Dip Arch, Bau-biologist.

Brian is a graduate of T U Dublin School of Architecture, has a Masters in sustainable architecture (2009) from the University California at Berkeley, experience with UCDs Energy Research Group, 20 years lecturing on sustainable design at TU Dublin and two decades leading Irish and European research/ analysis and design projects at prestigious Irish sustainable design practice Solearth Architecture. He has been conducting daylight and shadow analysis for the last 20 years and is an acknowledged expert in sustainable design and building performance.

Signed: 

Date: 14 August 2025

8 Appendix

8.1 Glossary and Meanings

Vertical Sky Component (VSC):

VSC is the proportion of the illuminance available at a point on a given vertical plane that is received directly from an overcast sky model compared to the luminance on a horizontal plane due to an unobstructed hemisphere of this sky at the same moment. Usually the given vertical plane is the outside of a window wall or a window itself. The VSC does not include reflected light either from the ground or from other buildings.

VSC is the appropriate measure of daylight on a window.

Annual probable sunlight hours (APSH) and winter probable sunlight hours (WPSH)

APSH and WPS H are a measure of sunlight that a given window may expect over a 365 day period or over the period between 21st September and 21st March respectively.

These are the appropriate measures of sunlight on a window.

Sun on Ground (SoG)/ Amenity sunlight

SoG is an evaluation of what area, or percentage of the area, of a garden or amenity space is capable of receiving 2 hours or more of direct sunlight on March 21st. SOG is the appropriate measure of sunlight on an outdoor open space.

Sunlight Exposure (SE)

SE is the number of hours of direct sunlight a room could expect to receive on a given date between February 1st and March 21st at a specified window. Sunlight exposure is the appropriate test for sunlight received inside a room.

Spatial Daylight Autonomy (SDA) also known as daylight availability

SDA analyzes whether a room receives appropriate sunlight on a theoretical working plane during typical operating hours over the year. For compliance, the target must be achieved across half of the working plane for half of the occupied period. SDA is the appropriate test for the level of daylight ie daylight availability inside a room.

Lux (illuminance)

Lux is a standardized unit of measurement of light level intensity. One Lux is the same as the illumination a single candle strength light provides to a 1square meter surface that is a metre away from it. For daylight analysis, lux levels are typically translated, (based on the latitude of the location) to daylight factors (DF). BS EN 17037's NA gives the following examples; a lux level of 100 translates to a daylight factor of 1.0, 150 lux becomes a daylight factor of 1.5, and 200 lux equates to a 2% daylight factor.

Daylight Factor (DF)

DF is the ratio of the daylight available on a theoretical plane inside a space, versus the daylight available outside that space on a comparable plane, at the same moment.

No Sky line (NSL)

The NSL is the line across a room's plan that separates areas that can see the sky from those that cant.

Gort Mell Phase 3 (Proposed Scheme)
DSA24 A
Assessment: SUNLIGHT Sunlight Exposure (SE) Analysis - Proposed Scheme
IS EN 17037 Date: 07/08/2025

Level	Room Ref	Room Use	Window Ref	Window Orientation	Proposed Sunlight Exposure (Hours)	Rating	Unit No
							49.00
0 FFL	Dplx01_Q1g_KLD	KDL	Duplex- 245	186°	4.2		Dplx01
	Dplx01_Q1g_KLD				4.2	High	Dplx01
0 FFL	Dplx01_Q1g_KLDB	Bedroom	Duplex- 226	6°N	0		Dplx01
	Dplx01_Q1g_KLDB				0	Failed	Dplx01
0 FFL	Dplx02_Q2g_B	Bedroom	Duplex- 229	6°N	0		Dplx02
	Dplx02_Q2g_B				0	Failed	Dplx02
0 FFL	Dplx02_Q2g_KLD	KDL	Duplex- 243	186°	2.4		Dplx02
	Dplx02_Q2g_KLD				2.4	Minimum	Dplx02
0 FFL	Dplx03_Q2g_B	Bedroom	Duplex- 230	6°N	0		Dplx03
	Dplx03_Q2g_B				0	Failed	Dplx03
0 FFL	Dplx03_Q2g_KLD	KDL	Duplex- 240	186°	4.7		Dplx03
	Dplx03_Q2g_KLD				4.7	High	Dplx03
0 FFL	Dplx04_Q2g_B	Bedroom	Duplex- 233	6°N	0		Dplx04
	Dplx04_Q2g_B				0	Failed	Dplx04
0 FFL	Dplx04_Q2g_KLD	KDL	Duplex- 239	186°	4.4		Dplx04
	Dplx04_Q2g_KLD				4.4	High	Dplx04
0 FFL	Dplx05_Q2g_B	Bedroom	Duplex- 234	6°N	0		Dplx05
	Dplx05_Q2g_B				0	Failed	Dplx05
0 FFL	Dplx05_Q2g_KLD	KDL	Duplex- 236	186°	4.3		Dplx05
	Dplx05_Q2g_KLD				4.3	High	Dplx05
0 FFL	Unit 11 - N2 - KD	Kitchen	Unit 11 - 218	7°N	0		Unit 11
	Unit 11 - N2 - KD		Unit 11 - 219	7°N	0		Unit 11
	Unit 11 - N2 - KD				0	Failed	Unit 11
0 FFL	Unit 11 - N2 - L	Living	Unit 11 - 220	187°	6.6		Unit 11
	Unit 11 - N2 - L		Unit 11 - 221	187°	6.6		Unit 11
	Unit 11 - N2 - L				6.9	High	Unit 11
0 FFL	Unit 12 - P2 - KD	Kitchen	Unit 12 - 211	7°N	0		Unit 12
	Unit 12 - P2 - KD		Unit 12 - 212	7°N	0		Unit 12
	Unit 12 - P2 - KD				0	Failed	Unit 12
0 FFL	Unit 12 - P2 - L	Living	Unit 12 - 213	187°	6.6		Unit 12
	Unit 12 - P2 - L		Unit 12 - 214	187°	6.2		Unit 12
	Unit 12 - P2 - L				6.7	High	Unit 12
0 FFL	Unit 13 - P1 - KD	Kitchen	Unit 13 - 205	7°N	0		Unit 13
	Unit 13 - P1 - KD		Unit 13 - 206	7°N	0		Unit 13
	Unit 13 - P1 - KD				0	Failed	Unit 13
0 FFL	Unit 13 - P1 - L	Living	Unit 13 - 207	187°	7.6		Unit 13
	Unit 13 - P1 - L				7.6	High	Unit 13
0 FFL	Unit 14 - P1 - KD	Kitchen	Unit 14 - 199	7°N	0		Unit 14
	Unit 14 - P1 - KD		Unit 14 - 200	7°N	0		Unit 14
	Unit 14 - P1 - KD				0	Failed	Unit 14
0 FFL	Unit 14 - P1 - L	Living	Unit 14 - 201	187°	7.6		Unit 14
	Unit 14 - P1 - L				7.6	High	Unit 14
0 FFL	Unit 15 - N2 - KD	Kitchen	Unit 15 - 191	7°N	0		Unit 15
	Unit 15 - N2 - KD		Unit 15 - 192	7°N	0		Unit 15
	Unit 15 - N2 - KD				0	Failed	Unit 15
0 FFL	Unit 15 - N2 - L	Living	Unit 15 - 193	187°	7		Unit 15
	Unit 15 - N2 - L		Unit 15 - 194	187°	7		Unit 15

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	Unit 15 - N2 - L				7	High	Unit 15
0 FFL	Unit 16 - L1 - L	Living	Unit 16 - 408	245°	4.2		Unit 16
	Unit 16 - L1 - L		Unit 16 - 409	245°	4.2		Unit 16
	Unit 16 - L1 - L		Unit 16 - 414	155°	3.9		Unit 16
	Unit 16 - L1 - L				6.9	High	Unit 16
0 FFL	Unit 16 - L1 -KD	Kitchen	Unit 16 - 410	65°N	1.1		Unit 16
	Unit 16 - L1 -KD		Unit 16 - 411	65°N	1.9		Unit 16
	Unit 16 - L1 -KD		Unit 16 - 412	155°	4.8		Unit 16
	Unit 16 - L1 -KD				5	High	Unit 16
0 FFL	Unit 17 - P1- KD	Kitchen	Unit 17 - 403	65°N	0		Unit 17
	Unit 17 - P1- KD		Unit 17 - 404	65°N	1.6		Unit 17
	Unit 17 - P1- KD				1.6	Minimum	Unit 17
0 FFL	Unit 17 - P1- L	Living	Unit 17 - 402	245°	4.4		Unit 17
	Unit 17 - P1- L				4.4	High	Unit 17
0 FFL	Unit 18 - P1- KD	Kitchen	Unit 18 - 397	65°N	0		Unit 18
	Unit 18 - P1- KD		Unit 18 - 398	65°N	1		Unit 18
	Unit 18 - P1- KD				1	Failed	Unit 18
0 FFL	Unit 18 - P1- L	Living	Unit 18 - 396	245°	3.8		Unit 18
	Unit 18 - P1- L				3.8	Medium	Unit 18
0 FFL	Unit 19 - P1- KD	Kitchen	Unit 19 - 391	65°N	0		Unit 19
	Unit 19 - P1- KD		Unit 19 - 392	65°N	1.2		Unit 19
	Unit 19 - P1- KD				1.2	Failed	Unit 19
0 FFL	Unit 19 - P1- L	Living	Unit 19 - 390	245°	4		Unit 19
	Unit 19 - P1- L				4	Medium	Unit 19
0 FFL	Unit 20 - P1- KD	Kitchen	Unit 20 - 385	65°N	0.4		Unit 20
	Unit 20 - P1- KD		Unit 20 - 386	65°N	1.7		Unit 20
	Unit 20 - P1- KD				1.8	Minimum	Unit 20
0 FFL	Unit 20 - P1- L	Living	Unit 20 - 384	245°	4		Unit 20
	Unit 20 - P1- L				4	Medium	Unit 20
0 FFL	Unit 21 - L1 - KD	Kitchen	Unit 21 - 375	335°N	0		Unit 21
	Unit 21 - L1 - KD		Unit 21 - 376	65°N	1.9		Unit 21
	Unit 21 - L1 - KD		Unit 21 - 377	65°N	1.1		Unit 21
	Unit 21 - L1 - KD				1.9	Minimum	Unit 21
0 FFL	Unit 21 - L1 - L	Living	Unit 21 - 371	245°	3.9		Unit 21
	Unit 21 - L1 - L		Unit 21 - 372	245°	4.2		Unit 21
	Unit 21 - L1 - L		Unit 21 - 373	335°N	0		Unit 21
	Unit 21 - L1 - L				4.2	High	Unit 21
0 FFL	Unit 22- L1 - KD	Kitchen	Unit 22- 138	186°	6.5		Unit 22
	Unit 22- L1 - KD		Unit 22- 139	186°	7.2		Unit 22
	Unit 22- L1 - KD		Unit 22- 140	276°N	1.2		Unit 22
	Unit 22- L1 - KD				7.3	High	Unit 22
0 FFL	Unit 22- L1 - L	Living	Unit 22- 136	6°N	0		Unit 22
	Unit 22- L1 - L		Unit 22- 137	6°N	0		Unit 22
	Unit 22- L1 - L		Unit 22- 142	276°N	2.4		Unit 22
	Unit 22- L1 - L				2.4	Minimum	Unit 22
0 FFL	Unit 23 - N4 -KD	Kitchen	Unit 23 - 151	186°	8.1		Unit 23
	Unit 23 - N4 -KD		Unit 23 - 152	186°	7		Unit 23
	Unit 23 - N4 -KD				8.1	High	Unit 23

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0 FFL	Unit 23 - N4 -L	Living	Unit 23 - 149	6°N	0		Unit 23
	Unit 23 - N4 -L		Unit 23 - 150	6°N	0		Unit 23
	Unit 23 - N4 -L				0	Failed	Unit 23
0 FFL	Unit 24 - L1 - KD	Kitchen	Unit 24 - 161	96°	2.5		Unit 24
	Unit 24 - L1 - KD		Unit 24 - 162	186°	8.1		Unit 24
	Unit 24 - L1 - KD		Unit 24 - 163	186°	6.5		Unit 24
	Unit 24 - L1 - KD				8.6	High	Unit 24
0 FFL	Unit 24 - L1 - L	Living	Unit 24 - 157	6°N	0		Unit 24
	Unit 24 - L1 - L		Unit 24 - 158	6°N	0		Unit 24
	Unit 24 - L1 - L		Unit 24 - 159	96°	1		Unit 24
	Unit 24 - L1 - L				1	Failed	Unit 24
0 FFL	Unit 25 - L1 - KD	Kitchen	Unit 25 - 172	186°	6.5		Unit 25
	Unit 25 - L1 - KD		Unit 25 - 173	186°	8.1		Unit 25
	Unit 25 - L1 - KD		Unit 25 - 174	276°N	2.4		Unit 25
	Unit 25 - L1 - KD				8.3	High	Unit 25
0 FFL	Unit 25 - L1 - L	Living	Unit 25 - 170	6°N	0		Unit 25
	Unit 25 - L1 - L		Unit 25 - 171	6°N	0		Unit 25
	Unit 25 - L1 - L		Unit 25 - 176	276°N	0.7		Unit 25
	Unit 25 - L1 - L				0.7	Failed	Unit 25
0 FFL	Unit 26 - N1 - KD	Kitchen	Unit 26 - 185	186°	8.5		Unit 26
	Unit 26 - N1 - KD		Unit 26 - 186	186°	7		Unit 26
	Unit 26 - N1 - KD				8.5	High	Unit 26
0 FFL	Unit 26 - N1 - L	Living	Unit 26 - 183	6°N	0		Unit 26
	Unit 26 - N1 - L		Unit 26 - 184	6°N	0		Unit 26
	Unit 26 - N1 - L				0	Failed	Unit 26
0 FFL	Unit 27- L1 - KD	Kitchen	Unit 27- 127	186°	5.3		Unit 27
	Unit 27- L1 - KD		Unit 27- 128	276°N	1.9		Unit 27
	Unit 27- L1 - KD		Unit 27- 129	276°N	2.4		Unit 27
	Unit 27- L1 - KD				6.7	High	Unit 27
0 FFL	Unit 27- L1 - L	Living	Unit 27- 124	96°	2.8		Unit 27
	Unit 27- L1 - L		Unit 27- 125	186°	5.1		Unit 27
	Unit 27- L1 - L		Unit 28- 123	96°	2.8		Unit 27
	Unit 27- L1 - L				6.6	High	Unit 27
0 FFL	Unit 28- P1 - KD	Kitchen	Unit 28- 118	276°N	3		Unit 28
	Unit 28- P1 - KD		Unit 28- 119	276°N	1.2		Unit 28
	Unit 28- P1 - KD				3	Medium	Unit 28
0 FFL	Unit 28- P1 - L	Living	Unit 28- 117	96°	3.2		Unit 28
	Unit 28- P1 - L				3.2	Medium	Unit 28
0 FFL	Unit 29- P1 - KD	Kitchen	Unit 29- 112	276°N	2.4		Unit 29
	Unit 29- P1 - KD		Unit 29- 113	276°N	0.7		Unit 29
	Unit 29- P1 - KD				2.4	Minimum	Unit 29
0 FFL	Unit 29- P1 - L	Living	Unit 29- 111	96°	3.2		Unit 29
	Unit 29- P1 - L				3.2	Medium	Unit 29
0 FFL	Unit 30 - N2- KD	Kitchen	Unit 30 - 105	276°N	2		Unit 30
	Unit 30 - N2- KD		Unit 30 - 106	276°N	2.6		Unit 30
	Unit 30 - N2- KD				2.7	Minimum	Unit 30
0 FFL	Unit 30 - N2- L	Living	Unit 30 - 103	96°	2.7		Unit 30
	Unit 30 - N2- L		Unit 30 - 104	96°	2.8		Unit 30

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	Unit 30 - N2- L				2.8	Minimum	Unit 30
0 FFL	Unit 31-L1-KD	Kitchen	Unit 31 - 090	96°	2.6		Unit 31
	Unit 31-L1-KD		Unit 31 - 091	96°	3.7		Unit 31
	Unit 31-L1-KD		Unit 31 - 092	186°	5.4		Unit 31
	Unit 31-L1-KD				7.3	High	Unit 31
0 FFL	Unit 31-L1-L	Living	Unit 31 - 094	186°	6.1		Unit 31
	Unit 31-L1-L		Unit 31 - 095	276°N	2.4		Unit 31
	Unit 31-L1-L		Unit 31 - 096	276°N	2.4		Unit 31
	Unit 31-L1-L				7.1	High	Unit 31
0 FFL	Unit 32 - P1 - KD	Kitchen	Unit 32 - 084	96°	2.8		Unit 32
	Unit 32 - P1 - KD		Unit 32 - 085	96°	1.7		Unit 32
	Unit 32 - P1 - KD				3	Medium	Unit 32
0 FFL	Unit 32 - P1 - L	Living	Unit 32 - 086	276°N	2.9		Unit 32
	Unit 32 - P1 - L				2.9	Minimum	Unit 32
0 FFL	Unit 33 - P1 - KD	Kitchen	Unit 33 - 078	96°	3.2		Unit 33
	Unit 33 - P1 - KD		Unit 33 - 079	96°	1.9		Unit 33
	Unit 33 - P1 - KD				3.2	Medium	Unit 33
0 FFL	Unit 33 - P1 - L	Living	Unit 33 - 080	276°N	2.9		Unit 33
	Unit 33 - P1 - L				2.9	Minimum	Unit 33
0 FFL	Unit 34 -N2 - KD	Kitchen	Unit 34 - 070	96°	3.2		Unit 34
	Unit 34 -N2 - KD		Unit 34 - 071	96°	2.6		Unit 34
	Unit 34 -N2 - KD				3.2	Medium	Unit 34
0 FFL	Unit 34 -N2 - L	Living	Unit 34 - 072	276°N	2.6		Unit 34
	Unit 34 -N2 - L		Unit 34 - 073	276°N	2.6		Unit 34
	Unit 34 -N2 - L				2.6	Minimum	Unit 34
0 FFL	Unit 36 - N1- KD	Kitchen	Unit 36 - 051	276°N	2.3		Unit 36
	Unit 36 - N1- KD		Unit 36 - 052	276°N	2.6		Unit 36
	Unit 36 - N1- KD				2.9	Minimum	Unit 36
0 FFL	Unit 36 - N1- L	Living	Unit 36 - 049	96°	2.8		Unit 36
	Unit 36 - N1- L		Unit 36 - 050	96°	2.9		Unit 36
	Unit 36 - N1- L				2.9	Minimum	Unit 36
0 FFL	Unit 38 - O3 -KD	Kitchen	Unit 38 - 015	96°	2.6		Unit 38
	Unit 38 - O3 -KD		Unit 38 - 016	276°N	1.8		Unit 38
	Unit 38 - O3 -KD				4.3	High	Unit 38
0 FFL	Unit 38 - O3 -L	Living	Unit 38 - 013	96°	1.8		Unit 38
	Unit 38 - O3 -L		Unit 38 - 018	276°N	1.6		Unit 38
	Unit 38 - O3 -L				3.4	Medium	Unit 38
0 FFL	Unit 39 - O2 - KD	Kitchen	Unit 39 - 025	96°	2.3		Unit 39
	Unit 39 - O2 - KD		Unit 39 - 030	276°N	1.5		Unit 39
	Unit 39 - O2 - KD				3.8	Medium	Unit 39
0 FFL	Unit 39 - O2 - L	Living	Unit 39 - 027	96°	2.7		Unit 39
	Unit 39 - O2 - L		Unit 39 -028	276°N	1.5		Unit 39
	Unit 39 - O2 - L				4.2	High	Unit 39
0 FFL	Unit 39 - R2 -KD	Kitchen	Unit 37 - 037	6°N	0		Unit 39
	Unit 39 - R2 -KD		Unit 37 - 042	276°N	2		Unit 39
	Unit 39 - R2 -KD		Unit 37 - 043	276°N	2.6		Unit 39
	Unit 39 - R2 -KD				2.6	Minimum	Unit 39
0 FFL	Unit 39 - R2 -L	Living	Unit 37 - 039	6°N	0		Unit 39

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	Unit 39 - R2 -L		Unit 37 - 040	96°	2.9		Unit 39
	Unit 39 - R2 -L		Unit 37 - 041	96°	2.9		Unit 39
	Unit 39 - R2 -L				3.2	Medium	Unit 39
0 FFL	Unit 40 - U -KD	Kitchen	Unit 40 - 329	245°	2.4		Unit 40
	Unit 40 - U -KD		Unit 40 - 335	65°N	1.2		Unit 40
	Unit 40 - U -KD				3.6	Medium	Unit 40
0 FFL	Unit 40 - U -L	Living	Unit 40 - 330	245°	4.6		Unit 40
	Unit 40 - U -L		Unit 40 - 331	335°N	0		Unit 40
	Unit 40 - U -L		Unit 40 - 332	335°N	0		Unit 40
	Unit 40 - U -L		Unit 40 - 333	65°N	1.3		Unit 40
	Unit 40 - U -L				5.9	High	Unit 40
0 FFL	Unit 41 - L1 - KD	Kitchen	Unit 41 - 344	245°	1.7		Unit 41
	Unit 41 - L1 - KD		Unit 41 - 345	245°	1.9		Unit 41
	Unit 41 - L1 - KD		Unit 41 - 350	155°	6.2		Unit 41
	Unit 41 - L1 - KD				7.5	High	Unit 41
0 FFL	Unit 41 - L1 - L	Living	Unit 41 - 346	65°N	1.1		Unit 41
	Unit 41 - L1 - L		Unit 41 - 347	65°N	0.8		Unit 41
	Unit 41 - L1 - L		Unit 41 - 348	155°	6		Unit 41
	Unit 41 - L1 - L				6.4	High	Unit 41
0 FFL	Unit 42 - U - KD	Kitchen	Unit 42 -357	245°	3.9		Unit 42
	Unit 42 - U - KD		Unit 42 -358	65°N	1.4		Unit 42
	Unit 42 - U - KD				5.3	High	Unit 42
0 FFL	Unit 42 - U - L	Living	Unit 42 -359	65°N	1.4		Unit 42
	Unit 42 - U - L		Unit 42 -360	155°	6.6		Unit 42
	Unit 42 - U - L		Unit 42 -361	155°	6.6		Unit 42
	Unit 42 - U - L		Unit 42 -362	245°	4		Unit 42
	Unit 42 - U - L				8.8	High	Unit 42
0 FFL	Unit 43 - L1- KD	Kitchen	Unit 43 - 279	271°N	2.7		Unit 43
	Unit 43 - L1- KD		Unit 43 - 280	271°N	3.4		Unit 43
	Unit 43 - L1- KD		Unit 43 - 281	1°N	0		Unit 43
	Unit 43 - L1- KD				3.4	Medium	Unit 43
0 FFL	Unit 43 - L1- L	Living	Unit 43 - 283	1°N	0		Unit 43
	Unit 43 - L1- L		Unit 43 - 284	91°	2.8		Unit 43
	Unit 43 - L1- L		Unit 43 - 285	91°	2.8		Unit 43
	Unit 43 - L1- L				2.8	Minimum	Unit 43
0 FFL	Unit 44- N1- KD	Kitchen	Unit 44- 271	271°N	3.5		Unit 44
	Unit 44- N1- KD		Unit 44- 272	271°N	2.9		Unit 44
	Unit 44- N1- KD				3.5	Medium	Unit 44
0 FFL	Unit 44- N1- L	Living	Unit 44- 273	91°	3		Unit 44
	Unit 44- N1- L		Unit 44- 274	91°	3		Unit 44
	Unit 44- N1- L				3	Medium	Unit 44
0 FFL	Unit 45 - O2 - KD	Kitchen	Unit 45 - 292	271°N	2.6		Unit 45
	Unit 45 - O2 - KD		Unit 45 - 298	91°	2.9		Unit 45
	Unit 45 - O2 - KD				5.5	High	Unit 45
0 FFL	Unit 45 - O2 - L	Living	Unit 45 - 294	271°N	1.9		Unit 45
	Unit 45 - O2 - L		Unit 45 - 296	91°	2		Unit 45
	Unit 45 - O2 - L				3.9	Medium	Unit 45
0 FFL	Unit 46 - O3 - KD	Kitchen	Unit 46 - 305	271°N	2.4		Unit 46

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	Unit 46 - O3 - KD		Unit 46 - 310	91°	3.6		Unit 46
	Unit 46 - O3 - KD				5.9	High	Unit 46
0 FFL	Unit 46 - O3 - L	Living	Unit 46 - 307	271°N	1.9		Unit 46
	Unit 46 - O3 - L		Unit 46 - 308	91°	3		Unit 46
	Unit 46 - O3 - L				4.9	High	Unit 46
0 FFL	Unit 47 - O2 - KD	Kitchen	Unit 47 - 317	271°N	2.5		Unit 47
	Unit 47 - O2 - KD		Unit 47 - 322	91°	3.1		Unit 47
	Unit 47 - O2 - KD				5.6	High	Unit 47
0 FFL	Unit 47 - O2 - L	Living	Unit 47 - 319	271°N	2		Unit 47
	Unit 47 - O2 - L		Unit 47 - 320	91°	2.1		Unit 47
	Unit 47 - O2 - L				4.1	High	Unit 47
0 FFL	Unit 92 -N1_KDL	Bedroom	Duplex-443	96°	2.7		Unit 92
	Unit 92 -N1_KDL		Duplex-448	96°	2.5		Unit 92
	Unit 92 -N1_KDL				3.3	Medium	Unit 92
0 FFL	Unit 92 -N1_L	Bedroom	Duplex-444	276°N	2.6		Unit 92
	Unit 92 -N1_L		Duplex-445	276°N	2.6		Unit 92
	Unit 92 -N1_L				2.6	Minimum	Unit 92
0 FFL	Unit 93 - O3_KD	Kitchen	Unit 99 - 001	96°	2.9		Unit 93
	Unit 93 - O3_KD		Unit 99 - 006	276°N	1.9		Unit 93
	Unit 93 - O3_KD				4.8	High	Unit 93
0 FFL	Unit 93 - O3_L	Living	Unit 99 - 003	96°	3.3		Unit 93
	Unit 93 - O3_L		Unit 99 - 004	276°N	1.4		Unit 93
	Unit 93 - O3_L				4.7	High	Unit 93
0 FFL	Unit35-L-L	Living Room	Unit 35 - 057	96°	2.3		Unit35
	Unit35-L-L		Unit 35 - 058	96°	2.6		Unit35
	Unit35-L-L		Unit 35 - 059	186°	6.5		Unit35
	Unit35-L-L				7.8	High	Unit35
0 FFL	Unit 35-L-KD	Master Bedro	Unit 35 - 061	186°	4.9		Unit 35
	Unit 35-L-KD		Unit 35 - 062	276°N	2		Unit 35
	Unit 35-L-KD		Unit 35 - 063	276°N	2.4		Unit 35
	Unit 35-L-KD				7.6	High	Unit 35
+1FL	Unit 11 - N2 - B1	Bed 1	Unit 11 - 222	7°N	0		Unit 11
	Unit 11 - N2 - B1		Unit 11 - 223	7°N	0		Unit 11
	Unit 11 - N2 - B1				0	Failed	Unit 11
+1FL	Unit 11 - N2 - B2	Bed 2	Unit 11 - 224	187°	7		Unit 11
	Unit 11 - N2 - B2				7	High	Unit 11
+1FL	Unit 11 - N2 - B3	Bed 3	Unit 11 - 225	187°	7		Unit 11
	Unit 11 - N2 - B3				7	High	Unit 11
+1FL	Unit 12 - P2 - B1	Bed 1	Unit 12 - 215	7°N	0		Unit 12
	Unit 12 - P2 - B1				0	Failed	Unit 12
+1FL	Unit 12 - P2 - B2	Bed 2	Unit 12 - 216	187°	7		Unit 12
	Unit 12 - P2 - B2		Unit 12 - 217	187°	7		Unit 12
	Unit 12 - P2 - B2				7	High	Unit 12
+1FL	Unit 13 - P1 - B1	Bed 1	Unit 13 - 208	7°N	0		Unit 13
	Unit 13 - P1 - B1				0	Failed	Unit 13
+1FL	Unit 13 - P1 - B2	Bed 2	Unit 13 - 209	187°	7		Unit 13
	Unit 13 - P1 - B2		Unit 13 - 210	187°	7		Unit 13
	Unit 13 - P1 - B2				7	High	Unit 13

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+1FL	Unit 14 - P1 - B1	Bed 1	Unit 14 - 202	7°N	0		Unit 14
	Unit 14 - P1 - B1				0	Failed	Unit 14
+1FL	Unit 14 - P1 - B2	Bed 2	Unit 14 - 203	187°	7		Unit 14
	Unit 14 - P1 - B2		Unit 14 - 204	187°	7		Unit 14
	Unit 14 - P1 - B2				7	High	Unit 14
+1FL	Unit 15 - N2 - B1	Bed 1	Unit 15 - 195	7°N	0		Unit 15
	Unit 15 - N2 - B1		Unit 15 - 196	7°N	0		Unit 15
	Unit 15 - N2 - B1				0	Failed	Unit 15
+1FL	Unit 15 - N2 - B2	Bed 2	Unit 15 - 198	187°	7		Unit 15
	Unit 15 - N2 - B2				7	High	Unit 15
+1FL	Unit 15 - N2 - B3	Bed 3	Unit 15 - 197	187°	7		Unit 15
	Unit 15 - N2 - B3				7	High	Unit 15
+1FL	Unit 16 - L1 -B1	Bed 1	Unit 16 - 418	155°	6.4		Unit 16
	Unit 16 - L1 -B1				6.4	High	Unit 16
+1FL	Unit 16 - L1 -B2	Bed 2	Unit 16 - 415	245°	4.2		Unit 16
	Unit 16 - L1 -B2		Unit 16 - 420	155°	6.1		Unit 16
	Unit 16 - L1 -B2				9.1	High	Unit 16
+1FL	Unit 16 - L1 -B3	Bed 3	Unit 16 - 416	245°	4.2		Unit 16
	Unit 16 - L1 -B3				4.2	High	Unit 16
+1FL	Unit 17 - P1- B1	Bed 1	Unit 17 - 407	65°N	0.9		Unit 17
	Unit 17 - P1- B1				0.9	Failed	Unit 17
+1FL	Unit 17 - P1- B2	Bed 2	Unit 17 - 405	245°	4.4		Unit 17
	Unit 17 - P1- B2		Unit 17 - 406	245°	4.4		Unit 17
	Unit 17 - P1- B2				4.4	High	Unit 17
+1FL	Unit 18 - P1- B1	Bed 1	Unit 18 - 401	65°N	1.1		Unit 18
	Unit 18 - P1- B1				1.1	Failed	Unit 18
+1FL	Unit 18 - P1- B2	Bed 2	Unit 18 - 399	245°	4.4		Unit 18
	Unit 18 - P1- B2		Unit 18 - 400	245°	4.4		Unit 18
	Unit 18 - P1- B2				4.4	High	Unit 18
+1FL	Unit 19 - P1- B1	Bed 1	Unit 19 - 395	65°N	1.3		Unit 19
	Unit 19 - P1- B1				1.3	Failed	Unit 19
+1FL	Unit 19 - P1- B2	Bed 2	Unit 19 - 393	245°	4.4		Unit 19
	Unit 19 - P1- B2		Unit 19 - 394	245°	4.4		Unit 19
	Unit 19 - P1- B2				4.4	High	Unit 19
+1FL	Unit 20 - P1- B1	Bed 1	Unit 20 - 389	65°N	1.4		Unit 20
	Unit 20 - P1- B1				1.4	Failed	Unit 20
+1FL	Unit 20 - P1- B2	Bed 2	Unit 20 - 387	245°	4.4		Unit 20
	Unit 20 - P1- B2		Unit 20 - 388	245°	4.4		Unit 20
	Unit 20 - P1- B2				4.4	High	Unit 20
+1FL	Unit 21 - L1 - B1	Bed 1	Unit 21 - 382	335°N	0		Unit 21
	Unit 21 - L1 - B1				0	Failed	Unit 21
+1FL	Unit 21 - L1 - B2	Bed 2	Unit 21 - 379	245°	4.2		Unit 21
	Unit 21 - L1 - B2		Unit 21 - 380	335°N	0		Unit 21
	Unit 21 - L1 - B2				4.2	High	Unit 21
+1FL	Unit 21 - L1 - B3	Bed 3	Unit 21 - 378	245°	4.2		Unit 21
	Unit 21 - L1 - B3				4.2	High	Unit 21
+1FL	Unit 22- L1 - B1	Bed 1	Unit 22- 146	276°N	2.4		Unit 22
	Unit 22- L1 - B1				2.4	Minimum	Unit 22

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+1FL	Unit 22- L1 - B2	Bed 2	Unit 22- 143	6°N	0		Unit 22
	Unit 22- L1 - B2		Unit 22- 148	276°N	2.4		Unit 22
	Unit 22- L1 - B2				2.4	Minimum	Unit 22
+1FL	Unit 22- L1 - B3	Bed 3	Unit 22- 144	6°N	0		Unit 22
	Unit 22- L1 - B3				0	Failed	Unit 22
+1FL	Unit 23 - N4 - B1	Bed 1	Unit 23 - 155	186°	6.2		Unit 23
	Unit 23 - N4 - B1		Unit 23 - 156	186°	6.2		Unit 23
	Unit 23 - N4 - B1				6.2	High	Unit 23
+1FL	Unit 23 - N4 - B2	Bed 2	Unit 23 - 154	6°N	0		Unit 23
	Unit 23 - N4 - B2				0	Failed	Unit 23
+1FL	Unit 23 - N4 - B3	Bed 3	Unit 23 - 153	6°N	0		Unit 23
	Unit 23 - N4 - B3				0	Failed	Unit 23
+1FL	Unit 24 - L1 - B1	Bed 1	Unit 24 - 168	96°	2.6		Unit 24
	Unit 24 - L1 - B1				2.6	Minimum	Unit 24
+1FL	Unit 24 - L1 - B2	Bed 2	Unit 24 - 165	6°N	0		Unit 24
	Unit 24 - L1 - B2		Unit 24 - 166	96°	2		Unit 24
	Unit 24 - L1 - B2				2	Minimum	Unit 24
+1FL	Unit 24 - L1 - B3	Bed 3	Unit 24 - 164	6°N	0		Unit 24
	Unit 24 - L1 - B3				0	Failed	Unit 24
+1FL	Unit 25 - L1 - B1	Bed 1	Unit 25 - 180	276°N	2.4		Unit 25
	Unit 25 - L1 - B1				2.4	Minimum	Unit 25
+1FL	Unit 25 - L1 - B2	Bed 2	Unit 25 - 177	6°N	0		Unit 25
	Unit 25 - L1 - B2		Unit 25 - 182	276°N	1.5		Unit 25
	Unit 25 - L1 - B2				1.5	Minimum	Unit 25
+1FL	Unit 25 - L1 - B3	Bed 3	Unit 25 - 178	6°N	0		Unit 25
	Unit 25 - L1 - B3				0	Failed	Unit 25
+1FL	Unit 26 - N1 - B1	Bed 1	Unit 26 - 189	186°	7		Unit 26
	Unit 26 - N1 - B1		Unit 26 - 190	186°	7		Unit 26
	Unit 26 - N1 - B1				7	High	Unit 26
+1FL	Unit 26 - N1 - B2	Bed 2	Unit 26 - 188	6°N	0		Unit 26
	Unit 26 - N1 - B2				0	Failed	Unit 26
+1FL	Unit 26 - N1 - B3	Bed 3	Unit 26 - 187	6°N	0		Unit 26
	Unit 26 - N1 - B3				0	Failed	Unit 26
+1FL	Unit 27- L1 - B1	Bed 1	Unit 27- 134	186°	6.5		Unit 27
	Unit 27- L1 - B1				6.5	High	Unit 27
+1FL	Unit 27- L1 - B2	Bed 2	Unit 27- 131	96°	3.1		Unit 27
	Unit 27- L1 - B2		Unit 27- 132	186°	6.5		Unit 27
	Unit 27- L1 - B2				8.4	High	Unit 27
+1FL	Unit 27- L1 - B3	Bed 3	Unit 27- 130	96°	3.1		Unit 27
	Unit 27- L1 - B3				3.1	Medium	Unit 27
+1FL	Unit 28- P1 - B1	Bed 1	Unit 28- 122	276°N	2.5		Unit 28
	Unit 28- P1 - B1				2.5	Minimum	Unit 28
+1FL	Unit 28- P1 - B2	Bed 2	Unit 28- 120	96°	3.3		Unit 28
	Unit 28- P1 - B2		Unit 28- 121	96°	3.3		Unit 28
	Unit 28- P1 - B2				3.3	Medium	Unit 28
+1FL	Unit 29- P1 - B1	Bed 1	Unit 29- 116	276°N	2.6		Unit 29
	Unit 29- P1 - B1				2.6	Minimum	Unit 29
+1FL	Unit 29- P1 - B2	Bed 2	Unit 29- 114	96°	3.3		Unit 29

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	Unit 29- P1 - B2		Unit 29- 115	96°	3.3		Unit 29
	Unit 29- P1 - B2				3.3	Medium	Unit 29
+1FL	Unit 30 - N2- B1	Bed 1	Unit 30 - 109	276°N	2.6		Unit 30
	Unit 30 - N2- B1		Unit 30 - 110	276°N	2.6		Unit 30
	Unit 30 - N2- B1				2.6	Minimum	Unit 30
+1FL	Unit 30 - N2- B2	Bed 2	Unit 30 - 107	96°	3.3		Unit 30
	Unit 30 - N2- B2				3.3	Medium	Unit 30
+1FL	Unit 30 - N2- B3	Bed 3	Unit 30 - 108	96°	3.3		Unit 30
	Unit 30 - N2- B3				3.3	Medium	Unit 30
+1FL	Unit 31-L1-B1	Bed 1	Unit 31 - 098	186°	6.5		Unit 31
	Unit 31-L1-B1				6.5	High	Unit 31
+1FL	Unit 31-L1-B2	Bed 2	Unit 31 - 100	186°	6.5		Unit 31
	Unit 31-L1-B2		Unit 31 - 101	276°N	2.4		Unit 31
	Unit 31-L1-B2				7.5	High	Unit 31
+1FL	Unit 31-L1-B3	Bed 3	Unit 31 - 102	276°N	2.4		Unit 31
	Unit 31-L1-B3				2.4	Minimum	Unit 31
+1FL	Unit 32 - P1 - B1	Bed 1	Unit 32 -087	96°	3.3		Unit 32
	Unit 32 - P1 - B1				3.3	Medium	Unit 32
+1FL	Unit 32 - P1 - B2	Bed 2	Unit 32 - 088	276°N	2.6		Unit 32
	Unit 32 - P1 - B2		Unit 32 - 089	276°N	2.6		Unit 32
	Unit 32 - P1 - B2				2.6	Minimum	Unit 32
+1FL	Unit 33 - P1 - B1	Bed 1	Unit 33 - 081	96°	3.3		Unit 33
	Unit 33 - P1 - B1				3.3	Medium	Unit 33
+1FL	Unit 33 - P1 - B2	Bed 2	Unit 33 - 082	276°N	2.6		Unit 33
	Unit 33 - P1 - B2		Unit 33 - 083	276°N	2.6		Unit 33
	Unit 33 - P1 - B2				2.6	Minimum	Unit 33
+1FL	Unit 34 -N2 - B1	Bed 1	Unit 34 - 074	96°	3.3		Unit 34
	Unit 34 -N2 - B1		Unit 34 - 075	96°	3.3		Unit 34
	Unit 34 -N2 - B1				3.3	Medium	Unit 34
+1FL	Unit 34 -N2 - B2	Bed 2	Unit 34 - 077	276°N	2.6		Unit 34
	Unit 34 -N2 - B2				2.6	Minimum	Unit 34
+1FL	Unit 34 -N2 - B3	Bed 3	Unit 34 - 076	276°N	2.6		Unit 34
	Unit 34 -N2 - B3				2.6	Minimum	Unit 34
+1FL	Unit 36 - N1- B1	Bed 1	Unit 36 - 055	276°N	2.6		Unit 36
	Unit 36 - N1- B1		Unit 36 - 056	276°N	2.6		Unit 36
	Unit 36 - N1- B1				2.6	Minimum	Unit 36
+1FL	Unit 36 - N1- B2	Bed 2	Unit 36 - 053	96°	2.9		Unit 36
	Unit 36 - N1- B2				2.9	Minimum	Unit 36
+1FL	Unit 36 - N1- B3	Bed 3	Unit 36 - 054	96°	2.8		Unit 36
	Unit 36 - N1- B3				2.8	Minimum	Unit 36
+1FL	Unit 38 - O3 -B	Bed 2	Unit 38 - 022	96°	2.9		Unit 38
	Unit 38 - O3 -B				2.9	Minimum	Unit 38
+1FL	Unit 38 - O3 -B2	Bed 1	Unit 38 - 019	96°	3.3		Unit 38
	Unit 38 - O3 -B2		Unit 38 - 020	96°	2.7		Unit 38
	Unit 38 - O3 -B2				3.3	Medium	Unit 38
+1FL	Unit 38 - O3 -B3	Bed 3	Unit 38 - 021	96°	2.9		Unit 38
	Unit 38 - O3 -B3				2.9	Minimum	Unit 38
+1FL	Unit 39 - O2 - B1	Bed 1	Unit 39 - 033	96°	2.9		Unit 39

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	Unit 39 - O2 - B1		Unit 39 - 034	96°	2.9		Unit 39
	Unit 39 - O2 - B1				2.9	Minimum	Unit 39
+1FL	Unit 39 - O2 - B2	Bed 2	Unit 39 - 031	96°	2.9		Unit 39
	Unit 39 - O2 - B2				2.9	Minimum	Unit 39
+1FL	Unit 39 - O2 - B3	Bed 3	Unit 39 - 032	96°	2.9		Unit 39
	Unit 39 - O2 - B3				2.9	Minimum	Unit 39
+1FL	Unit 39 - R2 -B1	Bed 1	Unit 37 - 046	96°	3		Unit 39
	Unit 39 - R2 -B1				3	Medium	Unit 39
+1FL	Unit 39 - R2 -B2	Bed 2	Unit 37 - 048	276°N	2.3		Unit 39
	Unit 39 - R2 -B2				2.3	Minimum	Unit 39
+1FL	Unit 39 - R2 -B3	Bed 3	Unit 37 - 045	96°	3.1		Unit 39
	Unit 39 - R2 -B3				3.1	Medium	Unit 39
+1FL	Unit 39 - R2 -B4	Bed 4	Unit 37 - 047	276°N	2.7		Unit 39
	Unit 39 - R2 -B4				2.7	Minimum	Unit 39
+1FL	Unit 40 - U -B1	Bed 1	Unit 40 - 339	245°	4.4		Unit 40
	Unit 40 - U -B1		Unit 40 - 340	245°	4.4		Unit 40
	Unit 40 - U -B1				4.4	High	Unit 40
+1FL	Unit 40 - U -B2	Bed 2	Unit 40 - 343	65°N	1.4		Unit 40
	Unit 40 - U -B2				1.4	Failed	Unit 40
+1FL	Unit 40 - U -B3	Bed 3	Unit 40 - 341	65°N	1.4		Unit 40
	Unit 40 - U -B3				1.4	Failed	Unit 40
+1FL	Unit 40 - U -B4	Bed 4	Unit 40 - 336	245°	2.6		Unit 40
	Unit 40 - U -B4		Unit 40 - 337	245°	4.4		Unit 40
	Unit 40 - U -B4				4.4	High	Unit 40
+1FL	Unit 41 - L1 - B1	Bed 1	Unit 41 - 356	155°	6.4		Unit 41
	Unit 41 - L1 - B1				6.4	High	Unit 41
+1FL	Unit 41 - L1 - B2	Bed 2	Unit 41 - 353	65°N	1.1		Unit 41
	Unit 41 - L1 - B2		Unit 41 - 354	155°	6.4		Unit 41
	Unit 41 - L1 - B2				6.4	High	Unit 41
+1FL	Unit 41 - L1 - B3	Bed 3	Unit 41 - 352	65°N	1.1		Unit 41
	Unit 41 - L1 - B3				1.1	Failed	Unit 41
+1FL	Unit 42 - U - B1	Bed 1	Unit 42 -363	245°	4.4		Unit 42
	Unit 42 - U - B1		Unit 42 -364	245°	4.4		Unit 42
	Unit 42 - U - B1				4.4	High	Unit 42
+1FL	Unit 42 - U - B3	Bed 3	Unit 42 -370	65°N	1.4		Unit 42
	Unit 42 - U - B3				1.4	Failed	Unit 42
+1FL	Unit 42 - U - B4	Bed 4	Unit 42 -366	245°	4.3		Unit 42
	Unit 42 - U - B4		Unit 42 -367	245°	4.3		Unit 42
	Unit 42 - U - B4				4.3	High	Unit 42
+1FL	Unit 42 - U -B2	Bed 2	Unit 42 -368	65°N	1.4		Unit 42
	Unit 42 - U -B2				1.4	Failed	Unit 42
+1FL	Unit 43 - L1- B1	Bed 1	Unit 43 - 287	1°N	0		Unit 43
	Unit 43 - L1- B1				0	Failed	Unit 43
+1FL	Unit 43 - L1- B2	Bed 2	Unit 43 - 289	1°N	0		Unit 43
	Unit 43 - L1- B2		Unit 43 - 290	91°	2.8		Unit 43
	Unit 43 - L1- B2				2.8	Minimum	Unit 43
+1FL	Unit 43 - L1- B3	Bed 3	Unit 43 - 291	91°	2.8		Unit 43
	Unit 43 - L1- B3				2.8	Minimum	Unit 43

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+1FL	Unit 44- N1- B1	Bed 1	Unit 44- 275	271°N	2.9		Unit 44
	Unit 44- N1- B1		Unit 44- 276	271°N	2.9		Unit 44
	Unit 44- N1- B1				2.9	Minimum	Unit 44
+1FL	Unit 44- N1- B2	Bed 2	Unit 44- 278	91°	3		Unit 44
	Unit 44- N1- B2				3	Medium	Unit 44
+1FL	Unit 44- N1- B3	Bed 3	Unit 44- 277	91°	3		Unit 44
	Unit 44- N1- B3				3	Medium	Unit 44
+1FL	Unit 45 - O2 - B1	Bed 1	Unit 45 - 301	91°	3		Unit 45
	Unit 45 - O2 - B1		Unit 45 - 302	91°	2.8		Unit 45
	Unit 45 - O2 - B1				3	Medium	Unit 45
+1FL	Unit 45 - O2 - B2	Bed 2	Unit 45 - 304	91°	2.8		Unit 45
	Unit 45 - O2 - B2				2.8	Minimum	Unit 45
+1FL	Unit 45 - O2 - B3	Bed 3	Unit 45 - 303	91°	3		Unit 45
	Unit 45 - O2 - B3				3	Medium	Unit 45
+1FL	Unit 46 - O3 - B1	Bed 1	Unit 46 - 313	91°	3		Unit 46
	Unit 46 - O3 - B1		Unit 46 - 314	91°	3		Unit 46
	Unit 46 - O3 - B1				3	Medium	Unit 46
+1FL	Unit 46 - O3 - B2	Bed 2	Unit 46 - 316	91°	3		Unit 46
	Unit 46 - O3 - B2				3	Medium	Unit 46
+1FL	Unit 46 - O3 - B3	Bed 3	Unit 46 - 315	91°	3		Unit 46
	Unit 46 - O3 - B3				3	Medium	Unit 46
+1FL	Unit 47 - O2 - B1	Bed 1	Unit 47 - 325	91°	3		Unit 47
	Unit 47 - O2 - B1		Unit 47 - 326	91°	2.8		Unit 47
	Unit 47 - O2 - B1				3	Medium	Unit 47
+1FL	Unit 47 - O2 - B2	Bed 2	Unit 47 - 328	91°	3		Unit 47
	Unit 47 - O2 - B2				3	Medium	Unit 47
+1FL	Unit 47 - O2 - B3	Bed 3	Unit 47 - 327	91°	3		Unit 47
	Unit 47 - O2 - B3				3	Medium	Unit 47
+1FL	Unit 92 -N1_B1	Bedroom	Duplex-449	96°	3.3		Unit 92
	Unit 92 -N1_B1		Duplex-450	96°	3.3		Unit 92
	Unit 92 -N1_B1				3.3	Medium	Unit 92
+1FL	Unit 92 -N1_B3	Bedroom	Duplex-447	276°N	2.6		Unit 92
	Unit 92 -N1_B3				2.6	Minimum	Unit 92
+1FL	Unit 92 -N1_B22	Bedroom	Duplex-446	276°N	2.6		Unit 92
	Unit 92 -N1_B22				2.6	Minimum	Unit 92
+1FL	Unit 93 - O3_B8	Bed 2	Unit 99 - 007	96°	3.3		Unit 93
	Unit 93 - O3_B8				3.3	Medium	Unit 93
+1FL	Unit 93 - O3_B3	Bed 1	Unit 99 - 009	96°	3.3		Unit 93
	Unit 93 - O3_B3		Unit 99 - 010	96°	3.3		Unit 93
	Unit 93 - O3_B3				3.3	Medium	Unit 93
+1FL	Unit 93 - O3_B7	Bed 3	Unit 99 - 008	96°	3.2		Unit 93
	Unit 93 - O3_B7				3.2	Medium	Unit 93
+1FL	Unit 35-L-B1	Bedroom	Unit 35 - 068	186°	5.7		Unit 35
	Unit 35-L-B1				5.7	High	Unit 35
+1FL	Unit 35-L-B2	Bedroom	Unit 35 - 065	96°	2.8		Unit 35
	Unit 35-L-B2		Unit 35 - 066	186°	6.5		Unit 35
	Unit 35-L-B2				8.3	High	Unit 35
+1FL	Unit 35-L-B3	Bedroom	Unit 35 - 064	96°	2.8		Unit 35

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	Unit 35-L-B3				2.8	Minimum	Unit 35
+1FL_Q1,Q2	Dplx06_Q1u_KLD	Kitchen/Living	Duplex- 246	6°N	0		Dplx06
	Dplx06_Q1u_KLD		Duplex- 247	6°N	0		Dplx06
	Dplx06_Q1u_KLD		Duplex- 268	186°	8.6		Dplx06
	Dplx06_Q1u_KLD		Duplex- 269	186°	5.8		Dplx06
	Dplx06_Q1u_KLD		Duplex- 270	276°N	2.1		Dplx06
	Dplx06_Q1u_KLD				8.6	High	Dplx06
+1FL_Q1,Q2	Dplx07_Q1u_KLD	Kitchen/Living	Duplex- 248	6°N	0		Dplx07
	Dplx07_Q1u_KLD		Duplex- 249	6°N	0		Dplx07
	Dplx07_Q1u_KLD		Duplex- 266	186°	8.7		Dplx07
	Dplx07_Q1u_KLD		Duplex- 267	186°	6.2		Dplx07
	Dplx07_Q1u_KLD				8.7	High	Dplx07
+1FL_Q1,Q2	Dplx08_Q1u_KLD	Kitchen/Living	Duplex- 252	6°N	0		Dplx08
	Dplx08_Q1u_KLD		Duplex- 253	6°N	0		Dplx08
	Dplx08_Q1u_KLD		Duplex- 264	186°	6.2		Dplx08
	Dplx08_Q1u_KLD		Duplex- 265	186°	8.7		Dplx08
	Dplx08_Q1u_KLD				8.7	High	Dplx08
+1FL_Q1,Q2	Dplx09_Q1u_KLD	Kitchen/Living	Duplex- 254	6°N	0		Dplx09
	Dplx09_Q1u_KLD		Duplex- 255	6°N	0		Dplx09
	Dplx09_Q1u_KLD		Duplex- 262	186°	8.7		Dplx09
	Dplx09_Q1u_KLD		Duplex- 263	186°	6.2		Dplx09
	Dplx09_Q1u_KLD				8.7	High	Dplx09
+1FL_Q1,Q2	Dplx10_Q1u_KLD	Kitchen/Living	Duplex- 258	6°N	0		Dplx10
	Dplx10_Q1u_KLD		Duplex- 259	6°N	0		Dplx10
	Dplx10_Q1u_KLD		Duplex- 260	186°	6.2		Dplx10
	Dplx10_Q1u_KLD		Duplex- 261	186°	8.7		Dplx10
	Dplx10_Q1u_KLD				8.7	High	Dplx10
+2FL_Q1,Q2	Dplx06_Q1u_B1	Bedroom 1	Duplex-421	6°N	0		Dplx06
	Dplx06_Q1u_B1		Duplex-422	6°N	0		Dplx06
	Dplx06_Q1u_B1		Duplex-442	276°N	0		Dplx06
	Dplx06_Q1u_B1				0	Failed	Dplx06
+2FL_Q1,Q2	Dplx06_Q1u_B2	Bedroom 2	Duplex-439	186°	6.2		Dplx06
	Dplx06_Q1u_B2		Duplex-440	186°	6.2		Dplx06
	Dplx06_Q1u_B2				6.2	High	Dplx06
+2FL_Q1,Q2	Dplx07_Q2u_B1	Bedroom	Duplex-423	6°N	0		Dplx07
	Dplx07_Q2u_B1		Duplex-424	6°N	0		Dplx07
	Dplx07_Q2u_B1				0	Failed	Dplx07
+2FL_Q1,Q2	Dplx07_Q2u_B2	Bedroom	Duplex-437	186°	6.2		Dplx07
	Dplx07_Q2u_B2		Duplex-438	186°	6.2		Dplx07
	Dplx07_Q2u_B2				6.2	High	Dplx07
+2FL_Q1,Q2	Dplx08_Q2u_B1	Bedroom	Duplex-425	6°N	0		Dplx08
	Dplx08_Q2u_B1		Duplex-426	6°N	0		Dplx08
	Dplx08_Q2u_B1				0	Failed	Dplx08
+2FL_Q1,Q2	Dplx08_Q2u_B2	Bedroom	Duplex-435	186°	6.2		Dplx08
	Dplx08_Q2u_B2		Duplex-436	186°	6.2		Dplx08
	Dplx08_Q2u_B2				6.2	High	Dplx08
+2FL_Q1,Q2	Dplx09_Q2u_B1	Bedroom	Duplex-427	6°N	0		Dplx09
	Dplx09_Q2u_B1		Duplex-428	6°N	0		Dplx09

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	Dplx09_Q2u_B1				0	Failed	Dplx09
+2FL_Q1,Q2	Dplx09_Q2u_B2	Bedroom	Duplex-433	186°	6.2		Dplx09
	Dplx09_Q2u_B2		Duplex-434	186°	6.2		Dplx09
	Dplx09_Q2u_B2				6.2	High	Dplx09
+2FL_Q1,Q2	Dplx10_Q2u_B1	Bedroom	Duplex-429	6°N	0		Dplx10
	Dplx10_Q2u_B1		Duplex-430	6°N	0		Dplx10
	Dplx10_Q2u_B1				0	Failed	Dplx10
+2FL_Q1,Q2	Dplx10_Q2u_B2	Bedroom	Duplex-431	186°	6.2		Dplx10
	Dplx10_Q2u_B2		Duplex-432	186°	6.2		Dplx10
	Dplx10_Q2u_B2				6.2	High	Dplx10