



OCSC

O'CONNOR · SUTTON · CRONIN
MULTIDISCIPLINARY CONSULTING ENGINEERS

L389: **STAPOLIN**

DAYLIGHT, SUNLIGHT & OVERSHADOWING ASSESSMENT

For
Land Development Agency

16 July 2026

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1 EXECUTIVE SUMMARY

OCSC (M&E) have been appointed to carry out a Daylight, Sunlight & Overshadowing Assessment for the Stapolin Residential Amended Scheme. The proposed development will consist of the alteration of permitted development of Block A, Block D and Stapolin Square, as permitted under ABP Reg. Ref. ABP-310418-21 (and as amended under LRD/0015/S3 & LRD/0073/S3E). No amendments are proposed to any other permitted blocks

The permitted Block A and Block D are located to the south and north of Stapolin Square and include for 528 units (277 in Block A1, A2 & A3 and 251 in Block D1, D2 & D3) and include residential tenant amenity, retail/café/restaurant, pharmacy, medical centre, crèche, gym, car and bicycle parking and public realm. The proposed alterations only relate to Block A, Block D and Stapolin Square, of the permitted development and for the most part are contained within the footprint and massing of the permitted development and relate to internal reconfiguration.

The proposed alterations result in an overall increase of 68 no. units in Block A and Block D, bringing the total units in Block A and Block D to 596, the total units permitted under ABP Reg. Ref. ABP-310418-21 (as amended) to 893 (760 apartments and 133 houses).

The reconfiguration of internal layouts of each of the blocks has resulted in the reduction of the blocks overall width and therefore increased width and area to the courtyards and increased distance between individual blocks. The aim of the study is to record and analyse the results for the following:

- The internal daylight levels within the living/kitchen/dining and bedroom spaces;
- The quality of amenity space being provided as part of the development, in relation to sunlight;
- The impact of the proposed amended development on adjacent permitted properties.

The results presented in Section 5 of this report demonstrate that 97.52% of the assessed spaces comply with Criteria 1 and 95.05% comply with Criterion 2 of the Third Edition Daylight Standard (BR209) (2022) (the BRE Guide). Overall, the assessment confirms that the proposed amended development achieves excellent levels of internal daylight provision, with the vast majority of spaces meeting the recommended daylight performance criteria.

It is important to note that the performance targets which are included should be used with a degree of flexibility as per the extract below from the BRE Guide:

“The advice given here is not mandatory and this document should not be seen as an instrument of planning policy. Its aim is to help rather than constrain the designer. Although it gives numeral guidelines these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design.”

Internal Daylight

The analysis confirms that the majority of spaces not only meet but greatly exceed the recommendations outlined within the BRE Guide methodology, 97.52% for Criterion 1 and 95.05% for Criterion 2 of all the spaces assessed of the proposed amended development has been achieved.

Throughout the development, comfortable and desirable spaces have been designed to enhance the opportunity for improved daylight levels and extensive glazing to every room enabling deep daylight penetration and providing enhanced views to landscaped open spaces.

Sunlight to amenity spaces

In relation to amenity space sunlight, the overall amenity space in the development show compliance with BRE Guide recommendations, with more than 50% of the total amenity space receiving more than 2 hours of sunlight on March 21st test day.

Overshadowing

The proposed scheme demonstrates that there is a negligible impact on the surrounding properties when assessed on the 21st March test day.

Impact to neighbouring properties

The Vertical Sky Component (VSC) assessment has been carried out for all windows within the surrounding permitted properties. The results show that the majority of neighbouring windows achieve VSC values above the 27% BRE target; however, due to the positioning of the proposed amended development, some windows experience a reduction and fall below this threshold.

In accordance with BRE guide, a comparison with the previously permitted scheme demonstrates that the amended proposal represents an improvement, with VSC values remaining equal to or exceeding those previously approved. Accordingly, the amended development would not result in any worsening of daylight conditions and confirms that no significant adverse impacts are anticipated.

Furthermore, a detailed internal daylight assessment has been carried out for selected worst-case rooms within the adjacent permitted properties. This analysis confirms that adequate daylight levels would continue to be achieved with the proposed amended development in place, and no significant adverse impact on internal daylight conditions is anticipated.

2 PROPOSED DEVELOPMENT

The proposed development will consist of the alteration of permitted development of Block A, Block D and Stapolin Square, as permitted under ABP Reg. Ref. ABP-310418-21 (and as amended under LRD/0015/S3 & LRD/0073/S3E). No amendments are proposed to any other permitted blocks. The permitted Block A and Block D are located to the south and north of Stapolin Square and include for 528 units (277 in Block A1, A2 & A3 and 251 in Block D1, D2 & D3) and include residential tenant amenity, retail/café/restaurant, pharmacy, medical centre, crèche, gym, car and bicycle parking and public realm. The proposed alterations only relate to Block A, Block D and Stapolin Square, of the permitted development and for the most part are contained within the footprint and massing of the permitted development and relate to internal reconfiguration.

The proposed alterations result in an overall increase of 68 no. units in Block A and Block D, bringing the total units in Block A and Block D to 596, the total units permitted under ABP Reg. Ref. ABP-310418-21 (as amended) to 893 (760 apartments and 133 houses).

The proposed altered residential development of Block A and Block D will consist of a total of 596 no residential apartments, as follows:

1. Alteration of Blocks A1, A2 & A3 from permitted 4 to 7-storey buildings providing for 288 no. apartment units to a 4 to 7 storey building providing for 312 no. apartments.
2. Alteration of Blocks D1, D2 & D3 from permitted 5 to 10-storey buildings providing for 251 no. apartment units to a 5 to 10 storey building providing for 284 no apartments.
3. The reconfiguration of internal layouts of each of the blocks has resulted in the reduction of the blocks overall width and therefore increased width and area to the courtyards and increased distance between individual blocks.
4. Alteration of the permitted uses and facade at ground floor level and removal of permitted Residential Tenant Amenity Facilities located in Blocks A3 and D3 to provide for a ground floor level that includes in Blocks A1-A3, retail/restaurant/café/gym units and a creche including outdoor play space and in Blocks D1-D3, retail/restaurant/cafe units and residential units.
5. A revised central civic plaza at Stapolin Square centrally located between blocks A1-A3 and D1-D3, redesigned to address Condition 2 (a) of ABP-310418-21 which requires the removal of the two previously proposed public lifts. Stapolin Square is now designed to accommodate a gently sloped landscaped route from Longfield Road to Clongriffin Train Station.
6. Alterations to the permitted below podium areas under Block A, Stapolin Square & Block D to include for alterations to permitted layouts of car parking, cycle parking, plant, waste stores and substation locations. This includes the reduction in car parking as required under Condition 2 (b) of ABP-310418-

21 which requires omission of car parking under the permitted ramped access road to the Train Station to the north of Block D. An increase in bicycle parking is proposed.

No amendments are proposed to the constructed Blocks within B3, B4, C4, C5, C6 or the permitted The Haggard Park which remains as permitted, or all other elements including surface water attenuation wetlands and associated upstream surface water network, demolition of existing temporary lift and stair enclosure and associated infrastructure to Clongriffin Train Station, road infrastructure (except where within the application boundary and requiring to be locally altered for proposed alterations), and utilities infrastructure (except where within the application boundary and requiring to be locally altered for proposed alterations), all of which remain as per permitted.



Figure 1: Proposed Development Site Plan

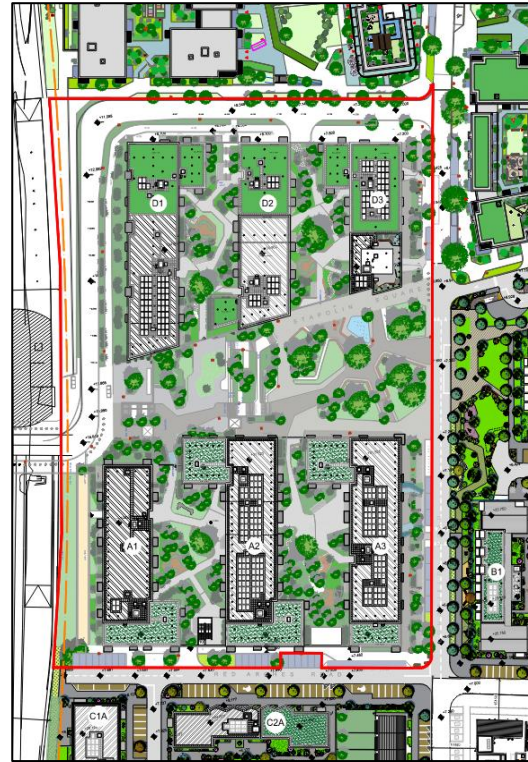


Figure 2: Previously Permitted Development Site Plan

3 PROPOSED BUILDING DESIGN

To ensure that daylight levels were maximised for the proposed amended development, several key design strategies were incorporated during concept design.

BUILDING MATERIAL SELECTION

The selection of materials play an important role in ambient daylight levels. The façade of the proposed amended development has been carefully selected to promote a sense of brightness. This will ensure light is reflected throughout the development. The inclusion of greenery to the amenity spaces will help to improve the sense of light and brightness within the dwellings.



Figure 3: Façade West View of Proposed Amended Development (Block D1)

GLAZING TO WALL RATIO

The primary function of the glazing to wall ratio is to maximise daylight within the space while reducing excessive solar gains within a given development. The other advantage, in conjunction with appropriate materials, is that the lighter coloured, reflective materials used externally, the more ambient daylight will be reflected to the surrounding areas. Extensive analysis was undertaken on all building façades to ensure glazing widths were maximised to promote access to daylight. The image below illustrates the glazing to wall ratio of the proposed amended development.

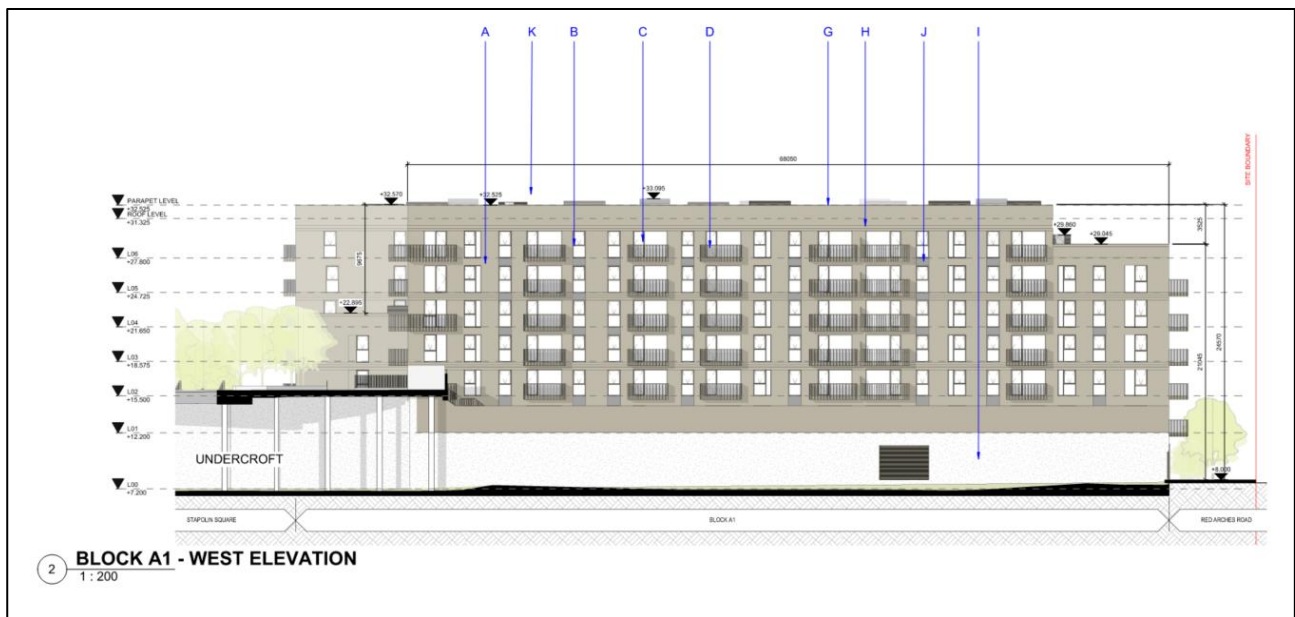


Figure 4: West Elevation Glazing to Wall Ratio (Block A1)

4 GUIDELINES FOR DAYLIGHT AND SUNLIGHT

The analysis of the development's daylight potential and the quality of amenity spaces have been based on the Building Research Establishment (BRE) guidelines on "Site Layout Planning for Daylight and Sunlight: A Good Practice Guide" by PJ Littlefair, 2022.

The guideline provides the criteria and methodology for calculations pertaining to daylight and sunlight and is the primary reference for this matter. The guide gives simple rules for analysing sites where the geometry of the surroundings is straightforward, supplementing them with graphical methods for complex sites.

However, it is important to note that the performance targets which are included should be used with a degree of flexibility as per the extract below from the BRE guide:

"The advice given here is not mandatory and this document should not be seen as an instrument of planning policy. Its aim is to help rather than constrain the designer. Although it gives numeral guidelines these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design."

5 DAYLIGHT LEVELS WITHIN THE PROPOSED DEVELOPMENT

ASSESSMENT CRITERIA – INTERNAL DAYLIGHT (2022 METHODOLOGY)

The proposed amended development's daylight levels have been tested to the more recently published Third Edition (2022). The 2022 Methodology standard goes beyond the average daylight levels within a space, and accounts for the distribution of light within a space.

Level of recommendation for vertical and inclined daylight opening	Target illuminance E_T lx	Fraction of space for target level $F_{plane, \%}$	Minimum target illuminance E_{TM} lx	Fraction of space for minimum target level $F_{plane, \%}$	Fraction of daylight hours $F_{time, \%}$
Minimum	300	50 %	100	95 %	50 %
Medium	500	50 %	300	95 %	50 %
High	750	50 %	500	95 %	50 %
NOTE Table A.3 gives target daylight factor (D_T) and minimum target daylight factor (D_{TM}) corresponding to target illuminance level and minimum target illuminance, respectively, for the CEN capital cities.					

Figure 5: BRE Guide 3rd Edition – Daylight Analysis Methodology – Table A.1

The BRE Guide calculation method using illuminance level features two daylight criteria for compliance:

- Criterion 1 recommends that in the analysed space an illuminance of ≥ 100 lux must be achieved for half of the daylight time in a year (2,190 hours), across $\geq 95\%$ of the floor area of the given space;
- Criterion 2 recommends that in the analysed space an illuminance of ≥ 300 lux must be achieved for half of the daylight time in a year (2,190 hours), across $\geq 50\%$ of the floor area of the given space.

In order to analyse the daylight performance for the proposed amended development in this regard, detailed 3D model was generated of the entire development and adjacent properties. A number of computer simulations were then undertaken in IESVE program to ascertain the lux levels achieved within all units of the proposed amended development. IESVE is an integrated building performance analysis software used to simulate and assess the environmental performance of buildings.

The proposed development will consist of the alteration of permitted development of Block A, Block D and Stapolin Square, as permitted under ABP Reg. Ref. ABP-310418-21 (and as amended under LRD/0015/S3 & LRD/0073/S3E). No amendments are proposed to any other permitted blocks. The permitted Block A and Block D are located to the south and north of Stapolin Square and include for 528 units (277 in Block A1, A2 & A3 and 251 in Block D1, D2 & D3) and include residential tenant amenity, retail/café/restaurant, pharmacy, medical centre, crèche, gym, car and bicycle parking and public realm. The proposed alterations only relate to Block A, Block D and Stapolin Square, of the permitted development and for the most part are contained within the footprint and massing of the permitted development and relate to internal reconfiguration.

The proposed alterations result in an overall increase of 68 no. units in Block A and Block D, bringing the total units in Block A and Block D to 596, the total units permitted under ABP Reg. Ref. ABP-310418-21 (as amended) to 893 (760 apartments and 133 houses).

The reconfiguration of internal layouts of each of the blocks has resulted in the reduction of the blocks overall width and therefore increased width and area to the courtyards and increased distance between individual blocks.

DAYLIGHT PARAMETERS

The surface reflectance values outlined in Table 1 have been used in the analysis, as per the BRE Guide.

Surface Type	Reflectance (%)
External Wall	20
Internal Partitions	50
Ceiling	70
Floor	20
Adjacent Buildings	20
Glazing Transmittance	70

Table 1: Surface Reflectance Values

The lux calculations are carried out in a working plane that lies 850 mm above the finished floor level. A grid of 250 mm is used to calculate all different points within the room and the average of these points determines Lux levels achieved.

Unit assessed are based on the following drawings provided by Henry J Lyons Architect:

Job	Drawing Name/No.	Drawing Type
L389	STAP-HJL-D-00-DR-A-1020-00 - PROPOSED GROUND FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-01-DR-A-1021-01 - PROPOSED FIRST FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-02-DR-A-1022-02 - PROPOSED SECOND FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-03-DR-A-1023-03 - PROPOSED THIRD FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-04-DR-A-1024-04 - PROPOSED FOURTH FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-05-DR-A-1025-05 - PROPOSED FIFTH FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-06-DR-A-1026-06 - PROPOSED SIXTH FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-07-DR-A-1027-07 - PROPOSED SEVENTH FLOOR PLAN - BLOCK	Floor Plans
L389	STAP-HJL-D-08-DR-A-1028-08 - PROPOSED EIGHTH FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-D-09-DR-A-1029-09 - PROPOSED NINTH FLOOR PLAN - BLOCK D	Floor Plans
L389	STAP-HJL-A-00-DR-A-1010-00 - PROPOSED GROUND FLOOR PLAN - BLOCK A	Floor Plans
L389	STAP-HJL-A-01-DR-A-1011-01 - PROPOSED FIRST FLOOR PLAN BLOCK A	Floor Plans
L389	STAP-HJL-A-02-DR-A-1012-02 - PROPOSED SECOND FLOOR PLAN BLOCK A	Floor Plans
L389	STAP-HJL-A-03-DR-A-1013-03 - PROPOSED THIRD FLOOR PLAN - BLOCK A	Floor Plans
L389	STAP-HJL-A-04-DR-A-1014-04 - PROPOSED FOURTH FLOOR PLAN BLOCK A	Floor Plans
L389	STAP-HJL-A-05-DR-A-1015-05 - PROPOSED FIFTH FLOOR PLAN BLOCK A	Floor Plans
L389	STAP-HJL-A-06-DR-A-1016-06 - PROPOSED SIXTH FLOOR PLAN BLOCK A	Floor Plans

Table 2: List of drawings referenced in the Daylight analysis

DAYLIGHT RESULTS – INTERNAL DAYLIGHT IN PROPOSED DWELLINGS

This section outlines the assessment of internal daylight levels in the proposed amendments to Stapolin residential development.

In summary, 97.52% for Criterion 1 and 95.05% for Criterion 2 of all the spaces assessed of the proposed amended development comply with internal daylight levels when each space was assessed under the BRE Guide.

In all cases, generous floor to ceiling heights have been designed into the project with glazing areas being increased to amplify the quality of daylight received. Careful consideration has been given to room layout design, generally aiming to allocate storage and circulation areas to the back of rooms, and living spaces to the front - where the highest level of daylight is expected. The results of the analysis are outlined in the accompanying tables.

Legends

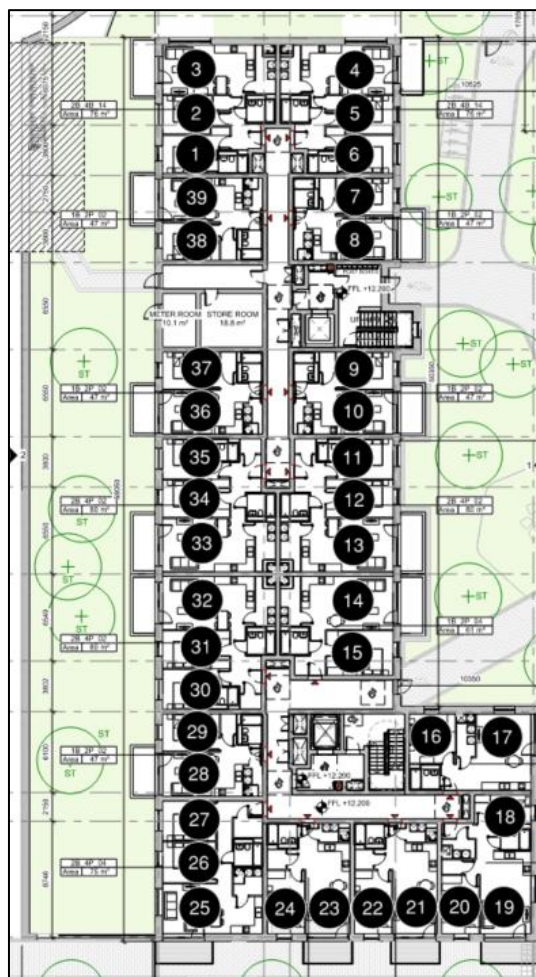


Figure 6: Proposed First Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	71%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	60%	Y
6	Bedroom	100%	Y	63%	Y
7	Bedroom	100%	Y	60%	Y
8	Liv/Din	100%	Y	62%	Y
9	Bedroom	100%	Y	57%	Y
10	Liv/Din	100%	Y	50%	Y
11	Bedroom	100%	Y	66%	Y
12	Bedroom	100%	Y	72%	Y
13	Liv/Din	89%	N	37%	N
14	Liv/Din	85%	N	36%	N
15	Bedroom	86%	N	19%	N
16	Bedroom	100%	Y	45%	N
17	Liv/Din	100%	Y	100%	Y
18	Bedroom	100%	Y	95%	Y
19	Liv/Din	100%	Y	100%	Y
20	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
21	Liv/Din	100%	Y	96%	Y
22	Bedroom	100%	Y	98%	Y
23	Liv/Din	100%	Y	100%	Y
24	Bedroom	100%	Y	96%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	93%	Y
27	Bedroom	100%	Y	97%	Y
28	Liv/Din	100%	Y	99%	Y
29	Bedroom	100%	Y	80%	Y
30	Bedroom	100%	Y	97%	Y
31	Bedroom	100%	Y	98%	Y
32	Liv/Din	100%	Y	84%	Y
33	Liv/Din	100%	Y	68%	Y
34	Bedroom	100%	Y	96%	Y
35	Bedroom	100%	Y	96%	Y
36	Liv/Din	100%	Y	89%	Y
37	Bedroom	100%	Y	74%	Y
38	Bedroom	100%	Y	79%	Y
39	Liv/Din	100%	Y	88%	Y

Table 3: BR209 Methodology Results (Block A1 First Floor)

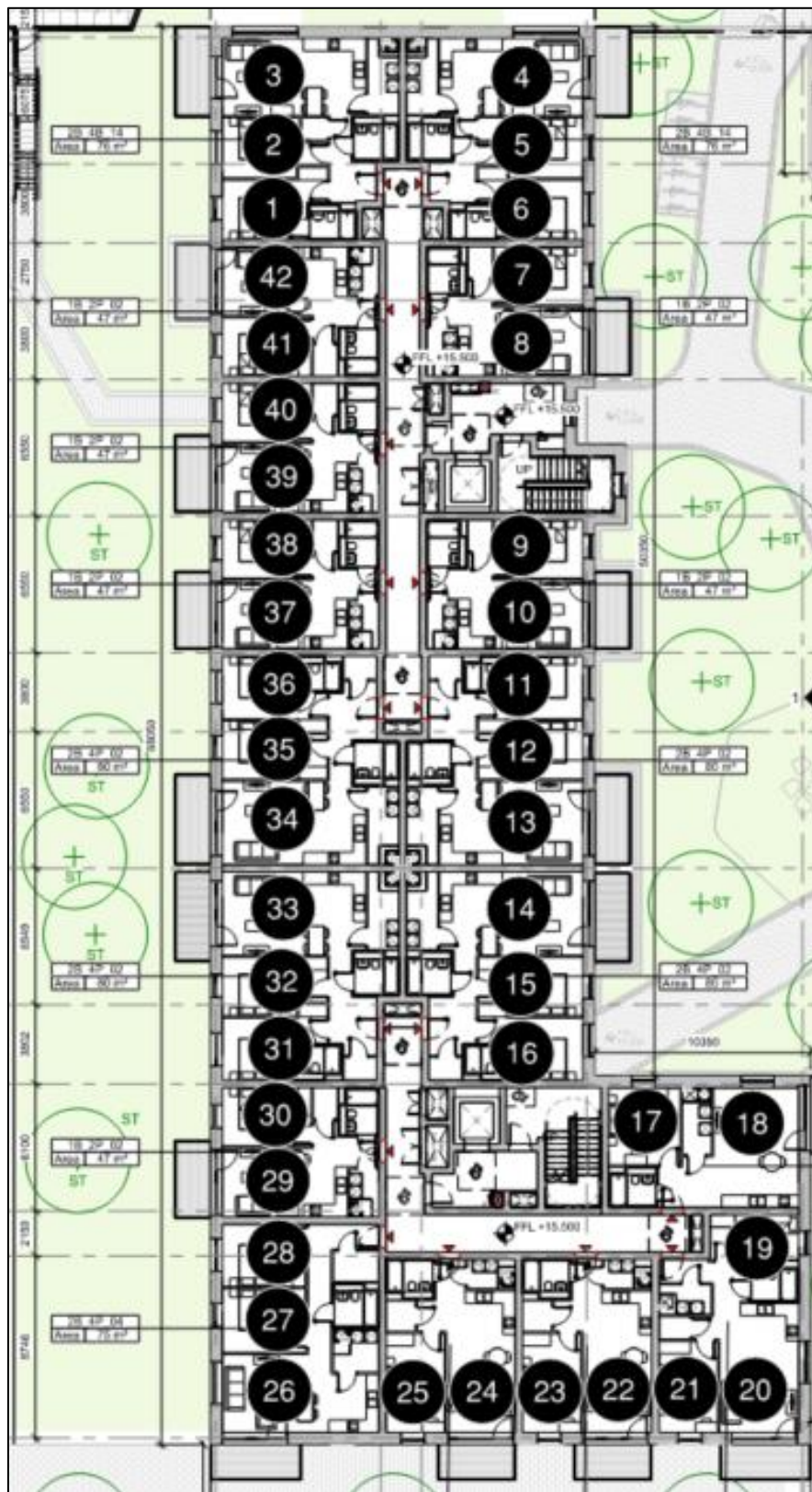
Legends

Figure 7: Proposed Second Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	76%	Y
6	Bedroom	100%	Y	67%	Y
7	Bedroom	100%	Y	62%	Y
8	Liv/Din	100%	Y	52%	Y
9	Bedroom	100%	Y	68%	Y
10	Liv/Din	100%	Y	53%	Y
11	Bedroom	100%	Y	86%	Y
12	Bedroom	100%	Y	86%	Y
13	Liv/Din	88%	N	43%	N
14	Liv/Din	97%	Y	42%	N
15	Bedroom	99%	Y	31%	N
16	Bedroom	99%	Y	50%	Y
17	Bedroom	91%	N	41%	N
18	Liv/Din	100%	Y	89%	Y
19	Bedroom	100%	Y	99%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Liv/Din	100%	Y	100%	Y
25	Bedroom	100%	Y	89%	Y
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	93%	Y
28	Bedroom	100%	Y	99%	Y
29	Liv/Din	100%	Y	100%	Y
30	Bedroom	100%	Y	96%	Y
31	Bedroom	100%	Y	99%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	81%	Y
34	Liv/Din	100%	Y	71%	Y
35	Bedroom	100%	Y	96%	Y
36	Bedroom	100%	Y	96%	Y
37	Liv/Din	100%	Y	93%	Y
38	Bedroom	100%	Y	99%	Y
39	Liv/Din	100%	Y	100%	Y
40	Bedroom	100%	Y	96%	Y
41	Bedroom	100%	Y	92%	Y
42	Liv/Din	100%	Y	100%	Y

Table 4: BR209 Methodology Results (Block A1 Second Floor)

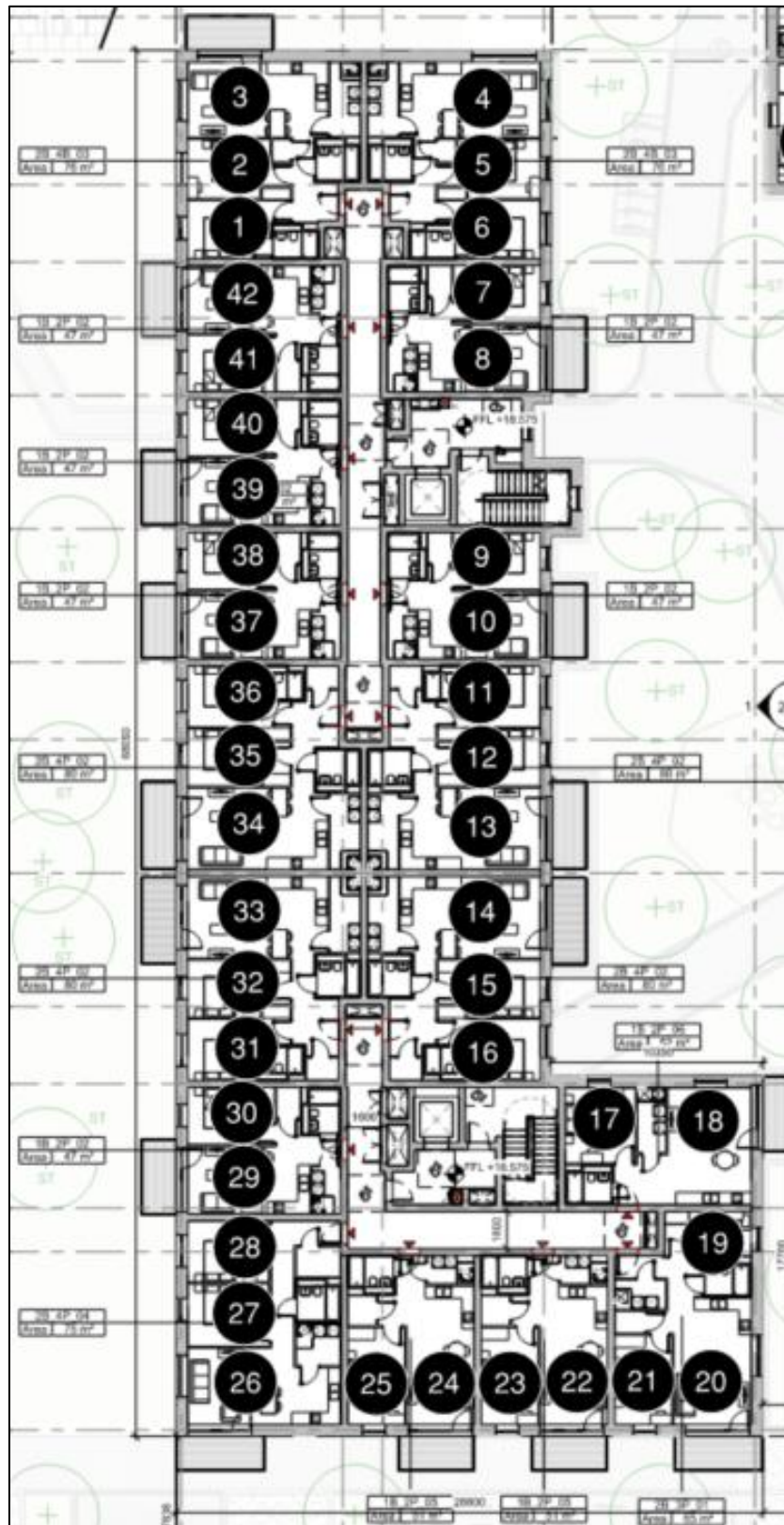
Legends

Figure 8: Proposed Third Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	80%	Y
6	Bedroom	100%	Y	70%	Y
7	Bedroom	100%	Y	72%	Y
8	Liv/Din	100%	Y	62%	Y
9	Bedroom	100%	Y	82%	Y
10	Liv/Din	100%	Y	60%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	88%	Y
13	Liv/Din	87%	N	48%	N
14	Liv/Din	92%	N	48%	N
15	Bedroom	100%	Y	39%	N
16	Bedroom	100%	Y	55%	Y
17	Bedroom	100%	Y	46%	N
18	Liv/Din	100%	Y	100%	Y
19	Bedroom	100%	Y	97%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Liv/Din	100%	Y	100%	Y
25	Bedroom	100%	Y	95%	Y
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	96%	Y
28	Bedroom	100%	Y	100%	Y
29	Liv/Din	100%	Y	100%	Y
30	Bedroom	100%	Y	97%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	81%	Y
34	Liv/Din	100%	Y	81%	Y
35	Bedroom	100%	Y	96%	Y
36	Bedroom	100%	Y	96%	Y
37	Liv/Din	100%	Y	100%	Y
38	Bedroom	100%	Y	100%	Y
39	Liv/Din	100%	Y	100%	Y
40	Bedroom	100%	Y	96%	Y
41	Bedroom	100%	Y	97%	Y
42	Liv/Din	100%	Y	100%	Y

Table 5: BR209 Methodology Results (Block A1 Third Floor)

This detailed floor plan illustrates the layout of a 19-story building, featuring 42 numbered units arranged in two symmetrical wings. The units are numbered 1 through 42, with 1-21 on the left wing and 22-42 on the right wing. The plan includes room layouts, furniture, and technical specifications such as area and volume. Key features include a central corridor, stairs, and elevators. The plan is overlaid with a grid and various technical annotations, including room numbers, area, and volume.

Technical specifications for units are provided in the following table:

Unit Number	Area (m²)	Volume (m³)
1	47.00	16.00
2	47.00	16.00
3	47.00	16.00
4	47.00	16.00
5	47.00	16.00
6	47.00	16.00
7	47.00	16.00
8	47.00	16.00
9	47.00	16.00
10	47.00	16.00
11	47.00	16.00
12	47.00	16.00
13	47.00	16.00
14	47.00	16.00
15	47.00	16.00
16	47.00	16.00
17	47.00	16.00
18	47.00	16.00
19	47.00	16.00
20	47.00	16.00
21	47.00	16.00
22	47.00	16.00
23	47.00	16.00
24	47.00	16.00
25	47.00	16.00
26	47.00	16.00
27	47.00	16.00
28	47.00	16.00
29	47.00	16.00
30	47.00	16.00
31	47.00	16.00
32	47.00	16.00
33	47.00	16.00
34	47.00	16.00
35	47.00	16.00
36	47.00	16.00
37	47.00	16.00
38	47.00	16.00
39	47.00	16.00
40	47.00	16.00
41	47.00	16.00
42	47.00	16.00

Figure 9: Proposed Fourth Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	96%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	86%	Y
6	Bedroom	100%	Y	82%	Y
7	Bedroom	100%	Y	81%	Y
8	Liv/Din	100%	Y	70%	Y
9	Bedroom	100%	Y	80%	Y
10	Liv/Din	100%	Y	71%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	99%	Y
13	Liv/Din	95%	Y	59%	Y
14	Liv/Din	89%	N	53%	Y
15	Bedroom	100%	Y	54%	Y
16	Bedroom	100%	Y	60%	Y
17	Bedroom	100%	Y	58%	Y
18	Liv/Din	100%	Y	99%	Y
19	Bedroom	100%	Y	99%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Liv/Din	100%	Y	100%	Y
25	Bedroom	100%	Y	100%	Y
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	96%	Y
28	Bedroom	100%	Y	100%	Y
29	Liv/Din	100%	Y	100%	Y
30	Bedroom	100%	Y	99%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	87%	Y
34	Liv/Din	100%	Y	91%	Y
35	Bedroom	100%	Y	96%	Y
36	Bedroom	100%	Y	97%	Y
37	Liv/Din	100%	Y	100%	Y
38	Bedroom	100%	Y	100%	Y
39	Liv/Din	100%	Y	100%	Y
40	Bedroom	100%	Y	97%	Y
41	Bedroom	100%	Y	100%	Y
42	Liv/Din	100%	Y	100%	Y

Table 6: BR209 Methodology Results (Block A1 Fourth Floor)

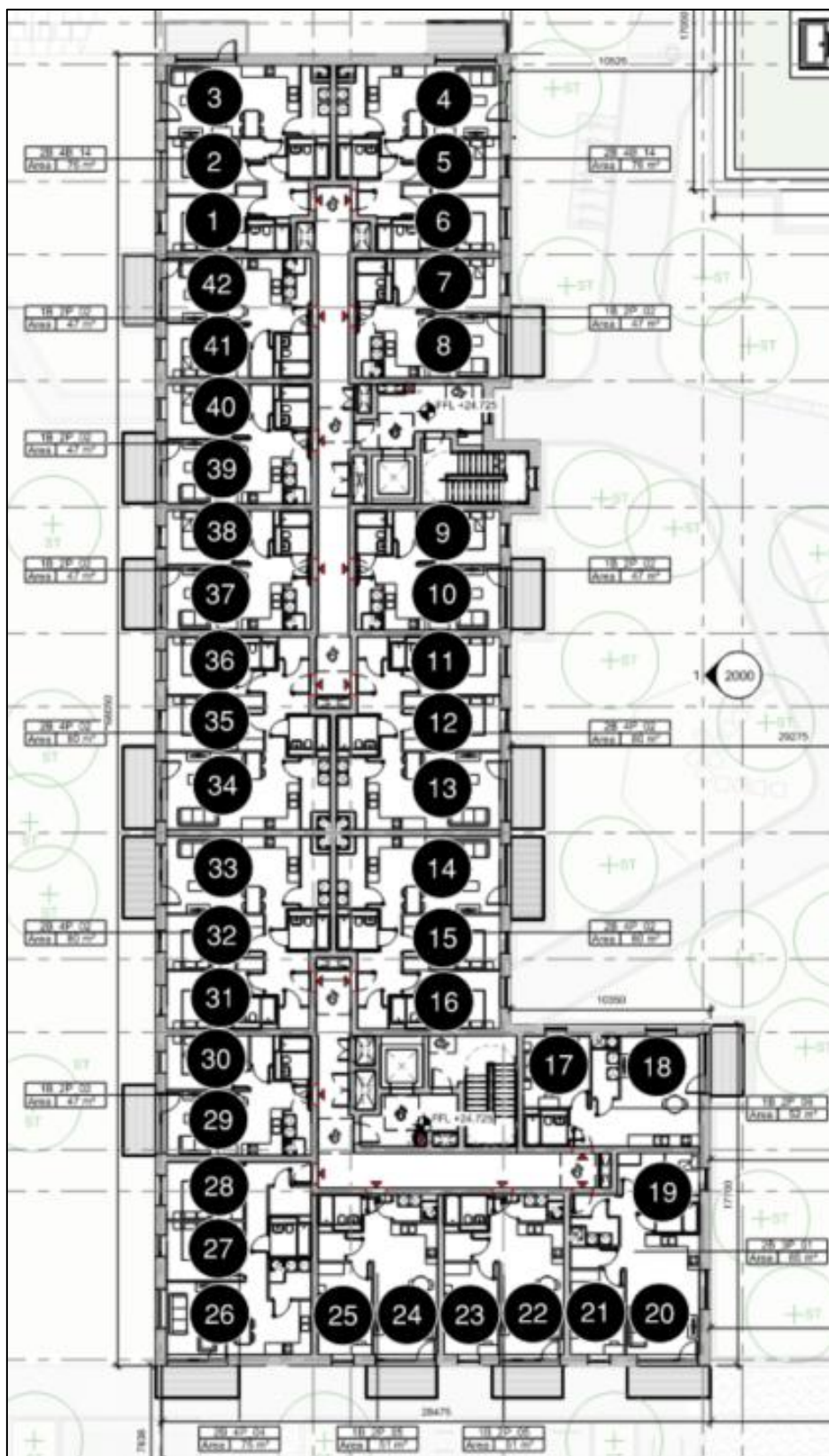
Legends

Figure 10: Proposed Fifth Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	99%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	98%	Y
8	Liv/Din	100%	Y	85%	Y
9	Bedroom	100%	Y	88%	Y
10	Liv/Din	100%	Y	84%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	69%	Y
14	Liv/Din	100%	Y	66%	Y
15	Bedroom	100%	Y	77%	Y
16	Bedroom	100%	Y	86%	Y
17	Bedroom	100%	Y	68%	Y
18	Liv/Din	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Liv/Din	100%	Y	100%	Y
25	Bedroom	100%	Y	100%	Y
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Liv/Din	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	100%	Y
34	Liv/Din	100%	Y	96%	Y
35	Bedroom	100%	Y	98%	Y
36	Bedroom	100%	Y	97%	Y
37	Liv/Din	100%	Y	100%	Y
38	Bedroom	100%	Y	100%	Y
39	Liv/Din	100%	Y	100%	Y
40	Bedroom	100%	Y	96%	Y
41	Bedroom	100%	Y	100%	Y
42	Liv/Din	100%	Y	100%	Y

Table 7: BR209 Methodology Results (Block A1 Fifth Floor)

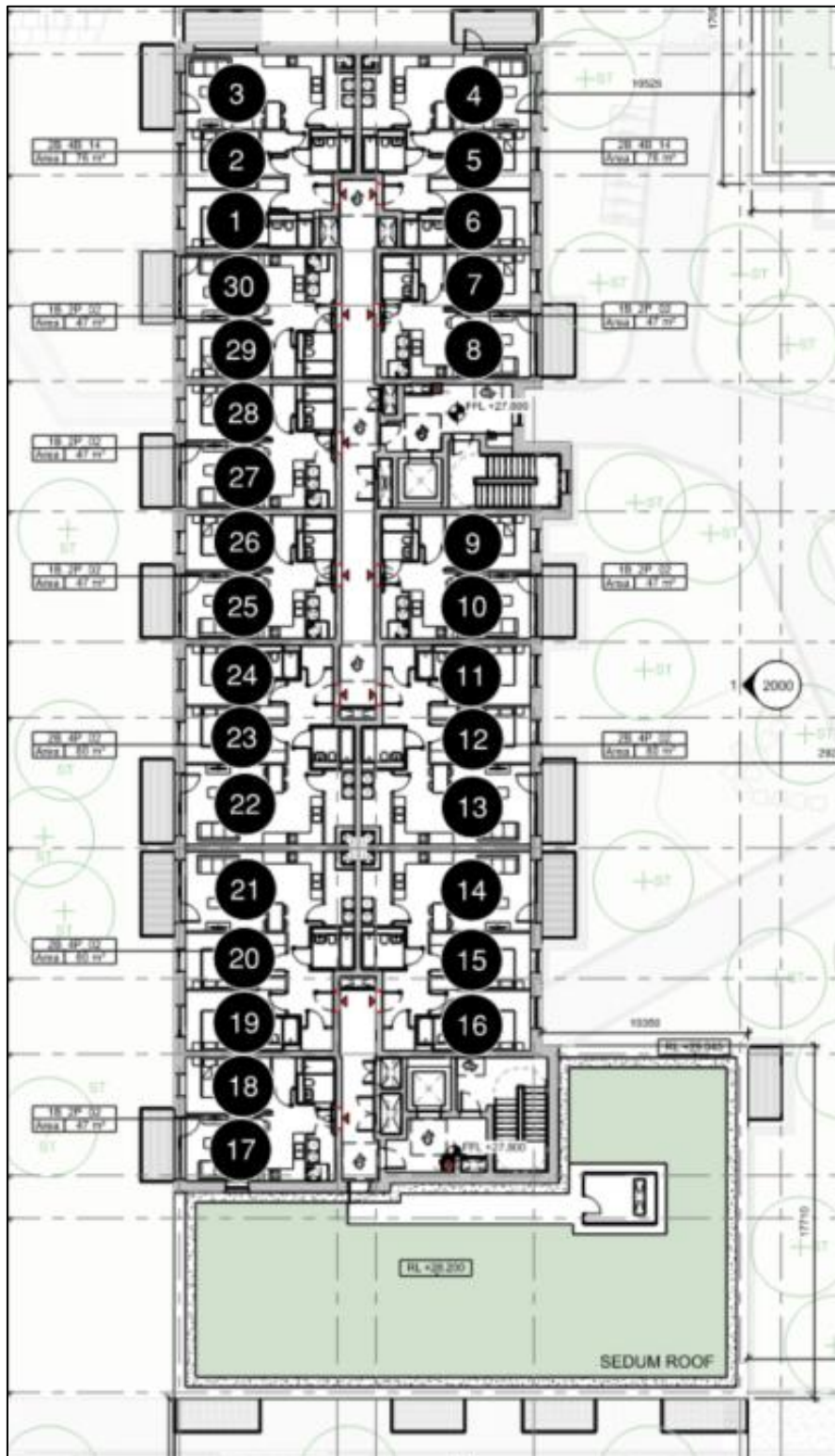
Legends

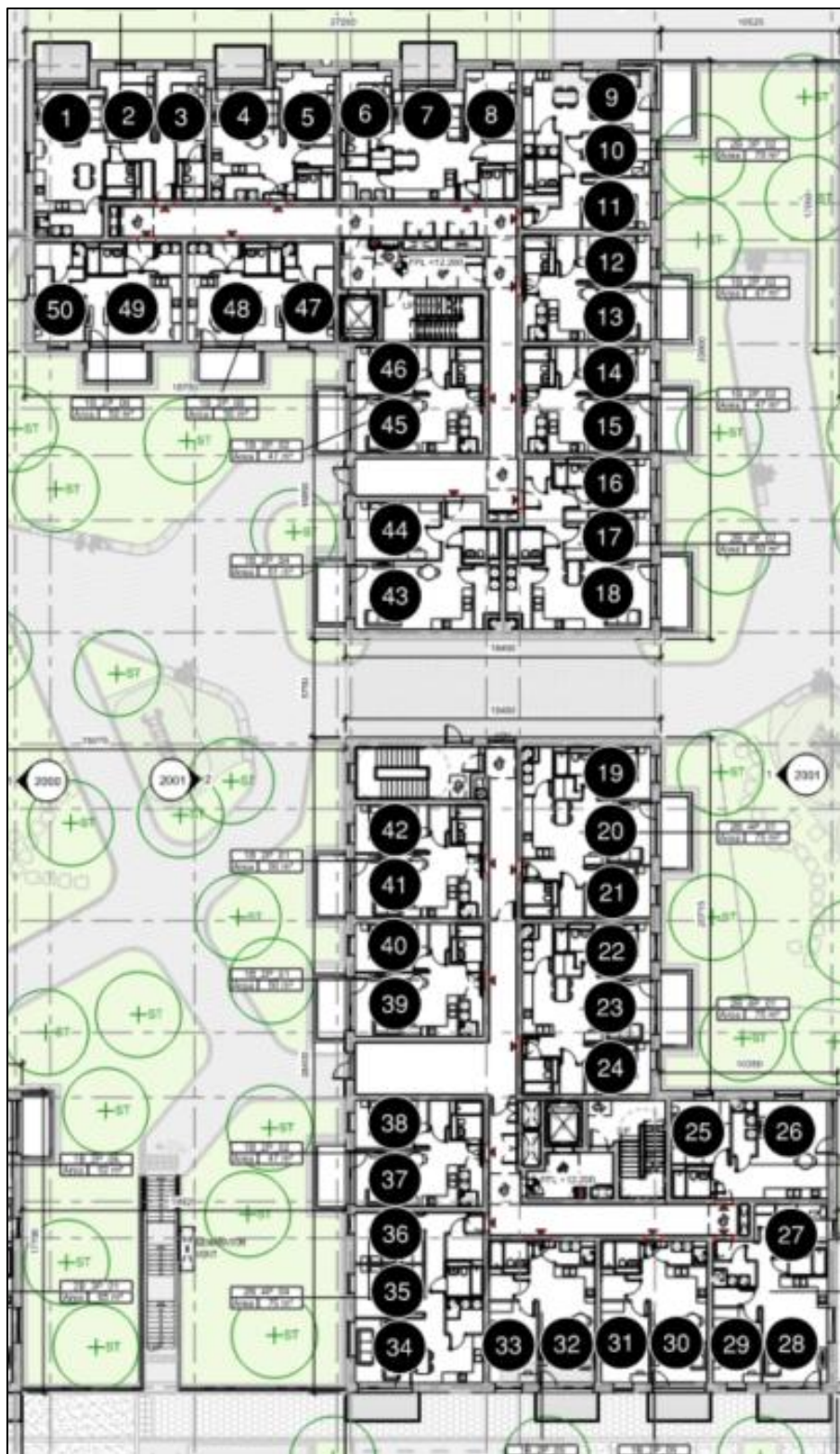
Figure 11: Proposed Sixth Floor (Block A1) Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	97%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	99%	Y
14	Liv/Din	100%	Y	82%	Y
15	Bedroom	100%	Y	99%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	100%	Y
18	Liv/Din	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Bedroom	100%	Y	100%	Y
21	Liv/Din	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	98%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Liv/Din	100%	Y	100%	Y

Table 8: BR209 Methodology Results (Block A1 Fifth Floor)

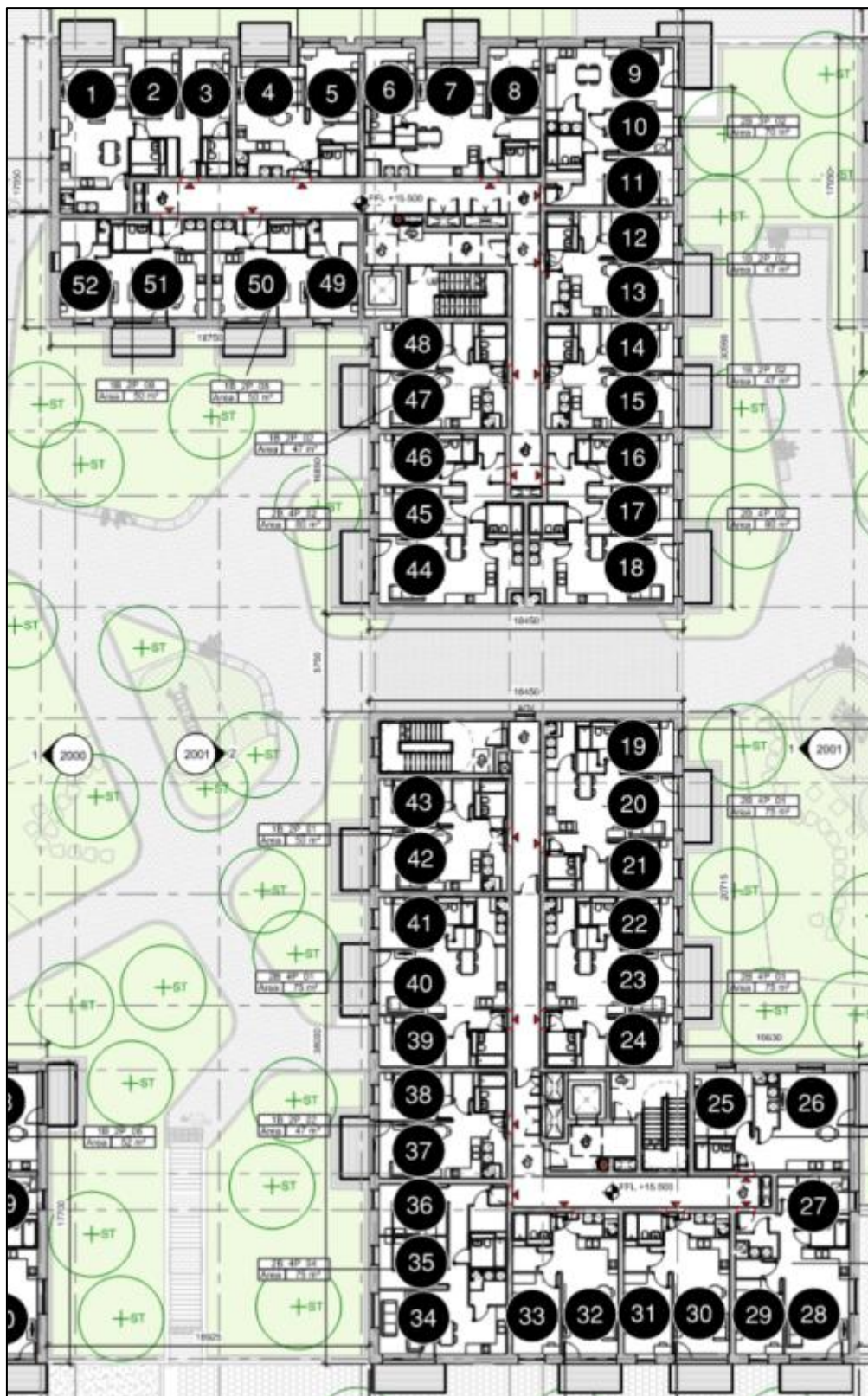
Legends*Figure 12: Block A2 First Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	98%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	64%	Y
8	Bedroom	100%	Y	78%	Y
9	Liv/Din	100%	Y	97%	Y
10	Bedroom	100%	Y	79%	Y
11	Bedroom	100%	Y	62%	Y
12	Bedroom	100%	Y	46%	N
13	Liv/Din	100%	Y	43%	N
14	Bedroom	100%	Y	55%	Y
15	Liv/Din	100%	Y	53%	Y
16	Bedroom	100%	Y	84%	Y
17	Bedroom	100%	Y	81%	Y
18	Liv/Din	100%	Y	60%	Y
19	Bedroom	100%	Y	70%	Y
20	Liv/Din	100%	Y	40%	N
21	Bedroom	100%	Y	67%	Y
22	Bedroom	100%	Y	73%	Y
23	Liv/Din	72%	N	28%	N
24	Bedroom	61%	N	31%	N
25	Bedroom	100%	Y	41%	N

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	97%	Y
28	Liv/Din	100%	Y	100%	Y
29	Bedroom	100%	Y	93%	Y
30	Liv/Din	100%	Y	77%	Y
31	Bedroom	100%	Y	78%	Y
32	Liv/Din	100%	Y	71%	Y
33	Bedroom	100%	Y	81%	Y
34	Liv/Din	100%	Y	100%	Y
35	Bedroom	100%	Y	72%	Y
36	Bedroom	100%	Y	60%	Y
37	Liv/Din	100%	Y	66%	Y
38	Bedroom	100%	Y	55%	Y
39	Liv/Din	100%	Y	53%	Y
40	Bedroom	100%	Y	52%	Y
41	Liv/Din	100%	Y	50%	Y
42	Bedroom	100%	Y	60%	Y
43	Liv/Din	99%	Y	38%	N
44	Bedroom	96%	Y	31%	N
45	Liv/Din	95%	Y	36%	N
46	Bedroom	88%	N	29%	N
47	Liv/Din	100%	Y	69%	Y
48	Bedroom	100%	Y	96%	Y
49	Liv/Din	100%	Y	92%	Y
50	Bedroom	100%	Y	100%	Y

Table 9: BR209 Methodology Results (Block A2 First Floor)

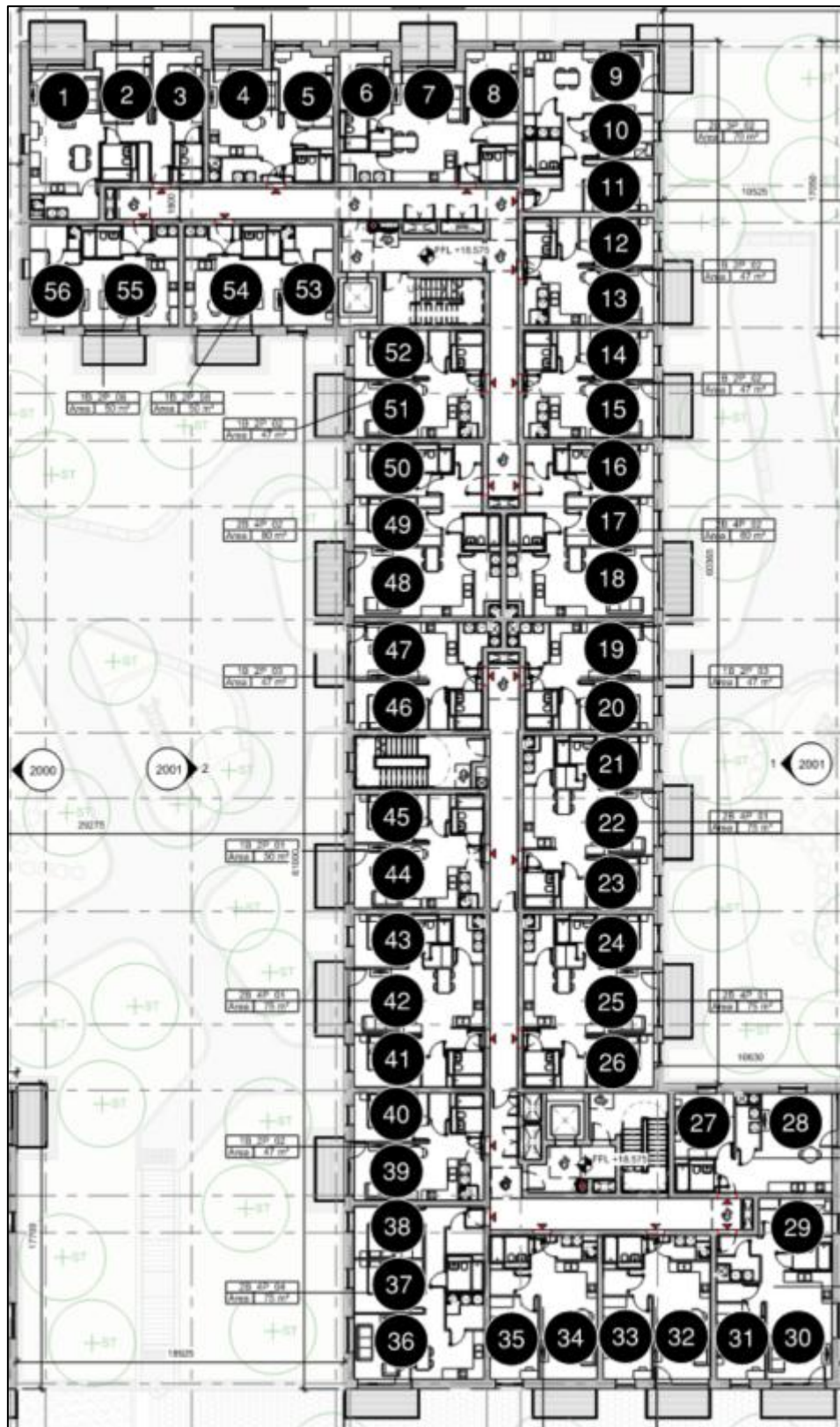
Legends*Figure 13: Block A2 Second Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	98%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	77%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	91%	Y
11	Bedroom	100%	Y	76%	Y
12	Bedroom	100%	Y	60%	Y
13	Liv/Din	98%	Y	49%	N
14	Bedroom	100%	Y	62%	Y
15	Liv/Din	99%	Y	50%	Y
16	Bedroom	100%	Y	89%	Y
17	Bedroom	100%	Y	94%	Y
18	Liv/Din	92%	N	41%	N
19	Bedroom	100%	Y	86%	Y
20	Liv/Din	100%	Y	47%	N
21	Bedroom	100%	Y	75%	Y
22	Bedroom	100%	Y	86%	Y
23	Liv/Din	84%	N	37%	N
24	Bedroom	100%	Y	40%	N
25	Bedroom	100%	Y	43%	N
26	Liv/Din	100%	Y	98%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
27	Bedroom	100%	Y	96%	Y
28	Liv/Din	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Liv/Din	100%	Y	96%	Y
31	Bedroom	100%	Y	95%	Y
32	Liv/Din	100%	Y	83%	Y
33	Bedroom	100%	Y	100%	Y
34	Liv/Din	100%	Y	100%	Y
35	Bedroom	100%	Y	75%	Y
36	Bedroom	100%	Y	73%	Y
37	Liv/Din	100%	Y	63%	Y
38	Bedroom	100%	Y	58%	Y
39	Bedroom	100%	Y	97%	Y
40	Liv/Din	100%	Y	55%	Y
41	Bedroom	100%	Y	56%	Y
42	Liv/Din	100%	Y	50%	Y
43	Bedroom	100%	Y	72%	Y
44	Liv/Din	100%	Y	40%	N
45	Bedroom	100%	Y	52%	Y
46	Bedroom	100%	Y	93%	Y
47	Liv/Din	99%	Y	41%	N
48	Bedroom	100%	Y	39%	N
49	Bedroom	100%	Y	82%	Y
50	Liv/Din	100%	Y	99%	Y
51	Liv/Din	100%	Y	100%	Y
52	Bedroom	100%	Y	100%	Y

Table 10: BR209 Methodology Results (Block A2 Second Floor)

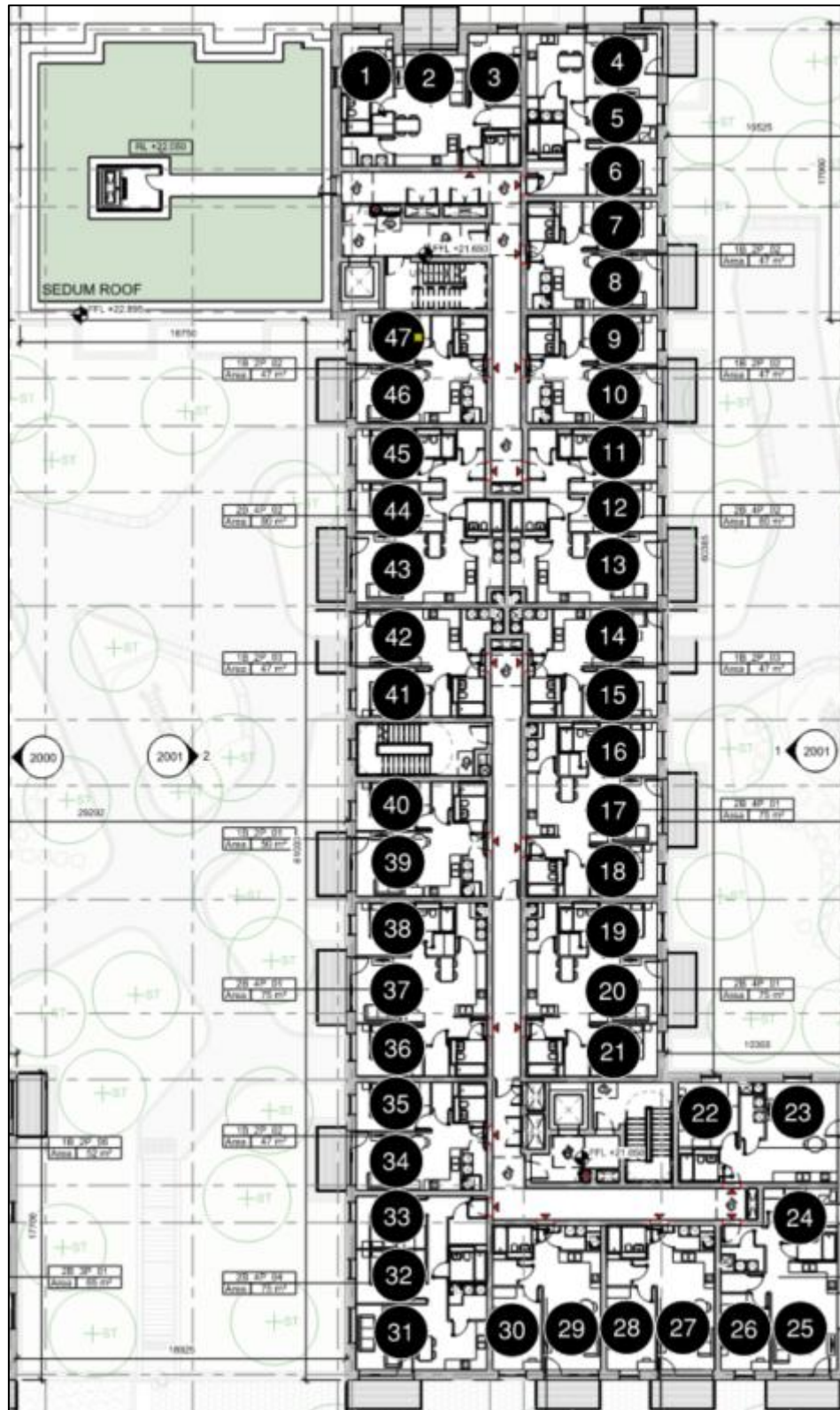
Legends*Figure 14: Block A2 Third Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	98%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	98%	Y
11	Bedroom	100%	Y	92%	Y
12	Bedroom	100%	Y	67%	Y
13	Liv/Din	99%	Y	55%	Y
14	Bedroom	100%	Y	73%	Y
15	Liv/Din	100%	Y	58%	Y
16	Bedroom	100%	Y	93%	Y
17	Bedroom	100%	Y	97%	Y
18	Liv/Din	95%	Y	50%	Y
19	Bedroom	100%	Y	68%	Y
20	Liv/Din	100%	Y	82%	Y
21	Bedroom	100%	Y	100%	Y
22	Liv/Din	85%	N	45%	N
23	Bedroom	100%	Y	86%	Y
24	Bedroom	100%	Y	98%	Y
25	Liv/Din	70%	N	43%	N
26	Bedroom	100%	Y	50%	Y
27	Bedroom	96%	Y	46%	N
28	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
29	Bedroom	100%	Y	97%	Y
30	Liv/Din	100%	Y	100%	Y
31	Bedroom	100%	Y	100%	Y
32	Liv/Din	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Liv/Din	100%	Y	100%	Y
35	Bedroom	100%	Y	100%	Y
36	Liv/Din	100%	Y	100%	Y
37	Bedroom	100%	Y	92%	Y
38	Bedroom	100%	Y	80%	Y
39	Liv/Din	100%	Y	65%	Y
40	Bedroom	100%	Y	69%	Y
41	Bedroom	100%	Y	99%	Y
42	Liv/Din	100%	Y	64%	Y
43	Bedroom	100%	Y	69%	Y
44	Liv/Din	100%	Y	60%	Y
45	Bedroom	100%	Y	77%	Y
46	Bedroom	100%	Y	75%	Y
47	Liv/Din	100%	Y	72%	Y
48	Liv/Din	98%	Y	46%	N
49	Bedroom	100%	Y	64%	Y
50	Bedroom	100%	Y	100%	Y
51	Liv/Din	100%	Y	55%	Y
52	Bedroom	100%	Y	55%	Y
53	Bedroom	100%	Y	100%	Y
54	Liv/Din	100%	Y	100%	Y
55	Liv/Din	100%	Y	100%	Y
56	Bedroom	100%	Y	100%	Y

Table 11: BR209 Methodology Results (Block A2 Third Floor)

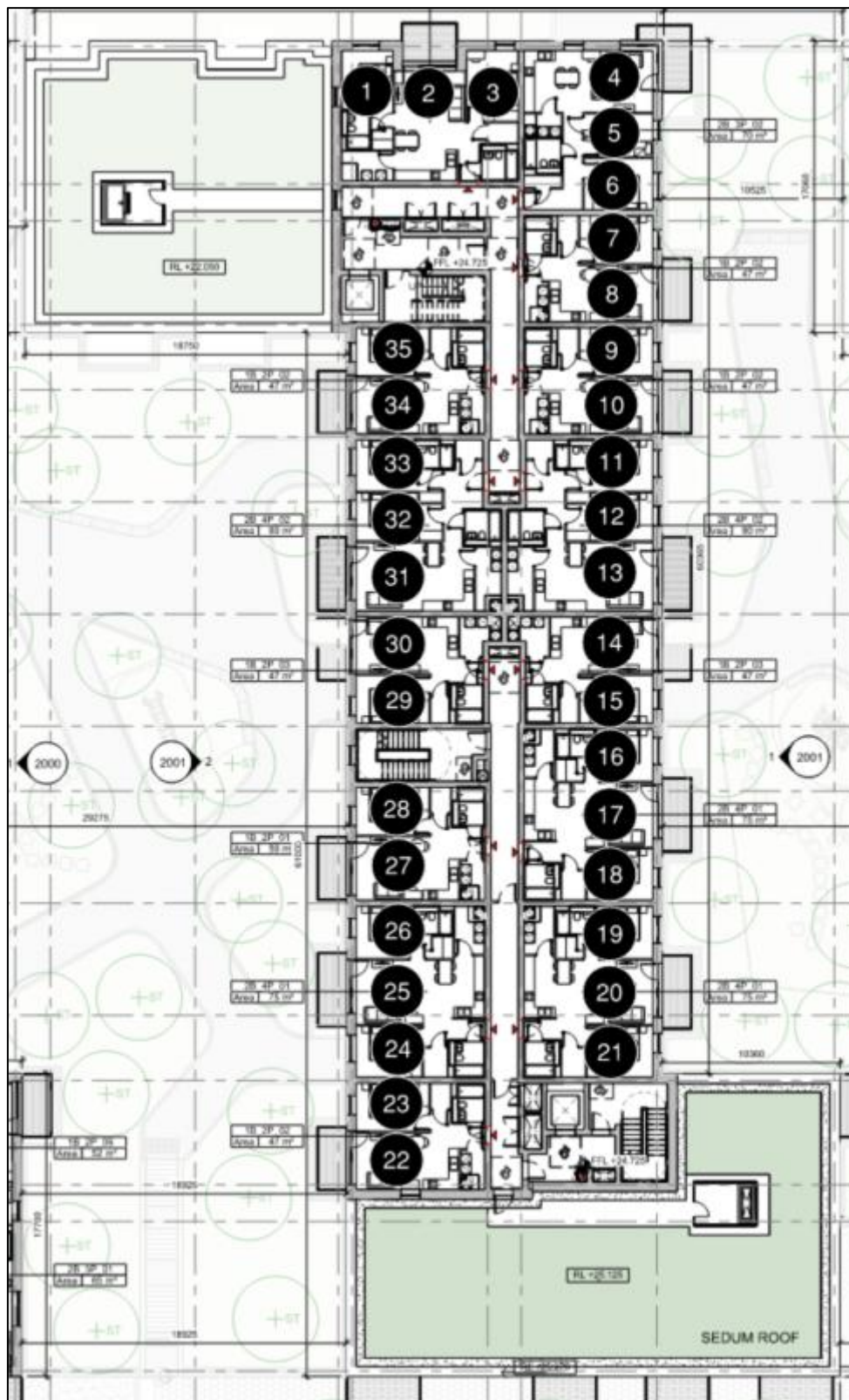
Legends

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	99%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	80%	Y
8	Liv/Din	100%	Y	70%	Y
9	Bedroom	100%	Y	76%	Y
10	Liv/Din	100%	Y	71%	Y
11	Bedroom	100%	Y	98%	Y
12	Bedroom	100%	Y	97%	Y
13	Liv/Din	99%	Y	60%	Y
14	Bedroom	100%	Y	79%	Y
15	Liv/Din	100%	Y	88%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	97%	Y	54%	Y
18	Bedroom	100%	Y	95%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	71%	N	54%	Y
21	Bedroom	100%	Y	59%	Y
22	Bedroom	100%	Y	67%	Y
23	Liv/Din	78%	N	100%	Y
24	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Liv/Din	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	96%	Y
33	Bedroom	100%	Y	91%	Y
34	Liv/Din	100%	Y	73%	Y
35	Bedroom	100%	Y	80%	Y
36	Bedroom	100%	Y	99%	Y
37	Liv/Din	100%	Y	68%	Y
38	Bedroom	100%	Y	74%	Y
39	Liv/Din	100%	Y	70%	Y
40	Bedroom	100%	Y	75%	Y
41	Bedroom	100%	Y	79%	Y
42	Liv/Din	100%	Y	78%	Y
43	Liv/Din	100%	Y	56%	Y
44	Bedroom	100%	Y	67%	Y
45	Bedroom	100%	Y	100%	Y
46	Liv/Din	100%	Y	72%	Y
47	Bedroom	100%	Y	79%	Y

Table 12: BR209 Methodology Results (Block A2 Fourth Floor)

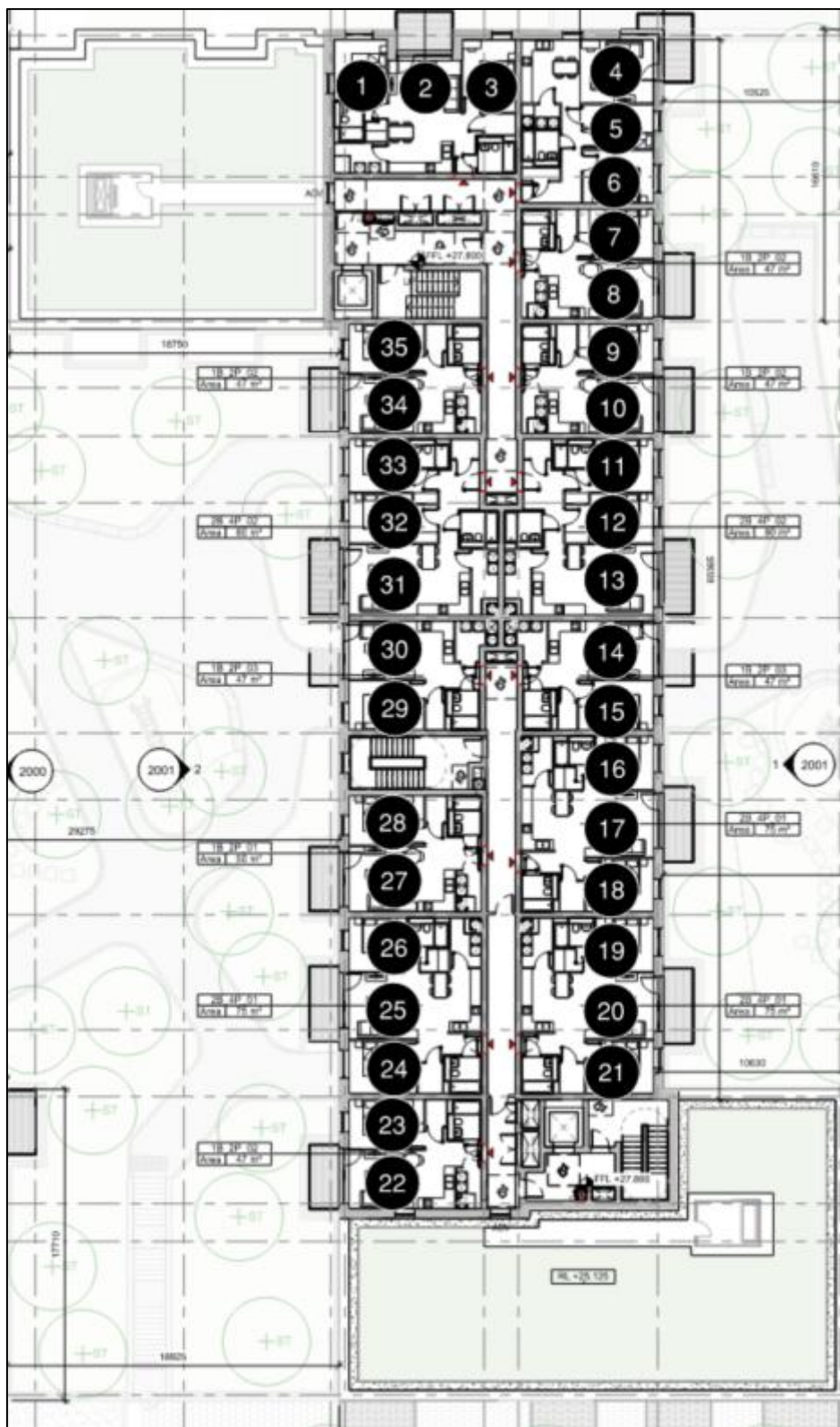
Legends*Figure 16: Block A2 Fifth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	98%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	85%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	97%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	66%	Y
14	Bedroom	100%	Y	97%	Y
15	Liv/Din	100%	Y	89%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	61%	Y
18	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	66%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Liv/Din	100%	Y	85%	Y
24	Bedroom	100%	Y	99%	Y
25	Liv/Din	100%	Y	78%	Y
26	Bedroom	100%	Y	86%	Y
27	Liv/Din	100%	Y	74%	Y
28	Bedroom	100%	Y	83%	Y
29	Bedroom	100%	Y	91%	Y
30	Liv/Din	100%	Y	85%	Y
31	Liv/Din	100%	Y	70%	Y
32	Bedroom	98%	Y	78%	Y
33	Bedroom	100%	Y	100%	Y
34	Liv/Din	100%	Y	100%	Y
35	Bedroom	100%	Y	96%	Y

Table 13: BR209 Methodology Results (Block A2 Fifth Floor)

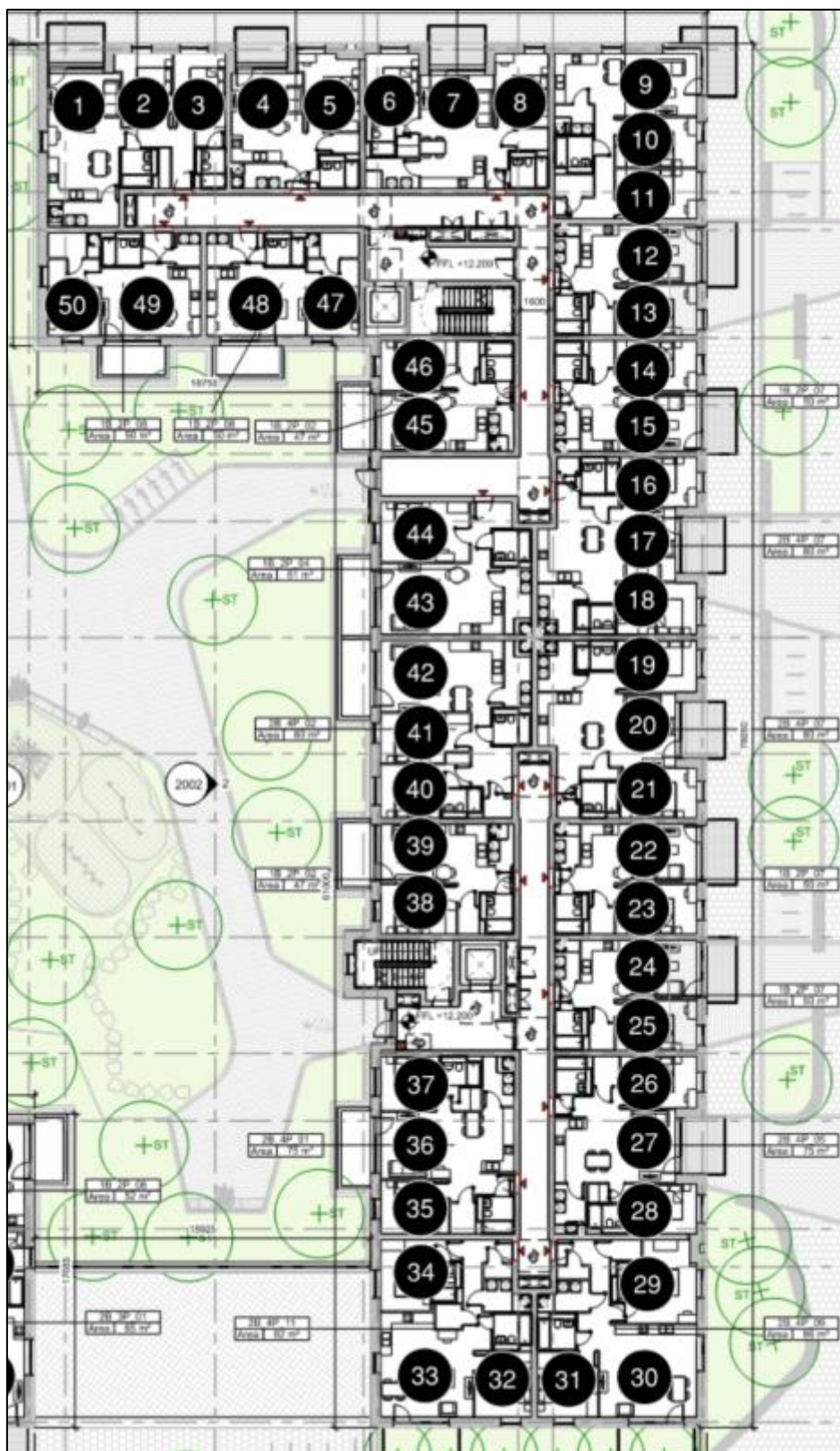
Legends*Figure 17: Block A2 Sixth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	97%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	99%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	75%	Y
18	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	98%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Liv/Din	100%	Y	100%	Y
24	Bedroom	100%	Y	99%	Y
25	Liv/Din	100%	Y	99%	Y
26	Bedroom	100%	Y	98%	Y
27	Liv/Din	100%	Y	97%	Y
28	Bedroom	100%	Y	95%	Y
29	Bedroom	100%	Y	96%	Y
30	Liv/Din	100%	Y	100%	Y
31	Liv/Din	100%	Y	82%	Y
32	Bedroom	98%	Y	86%	Y
33	Bedroom	100%	Y	100%	Y
34	Liv/Din	100%	Y	100%	Y
35	Bedroom	100%	Y	100%	Y

Table 14: BR209 Methodology Results (Block A2 Sixth Floor)

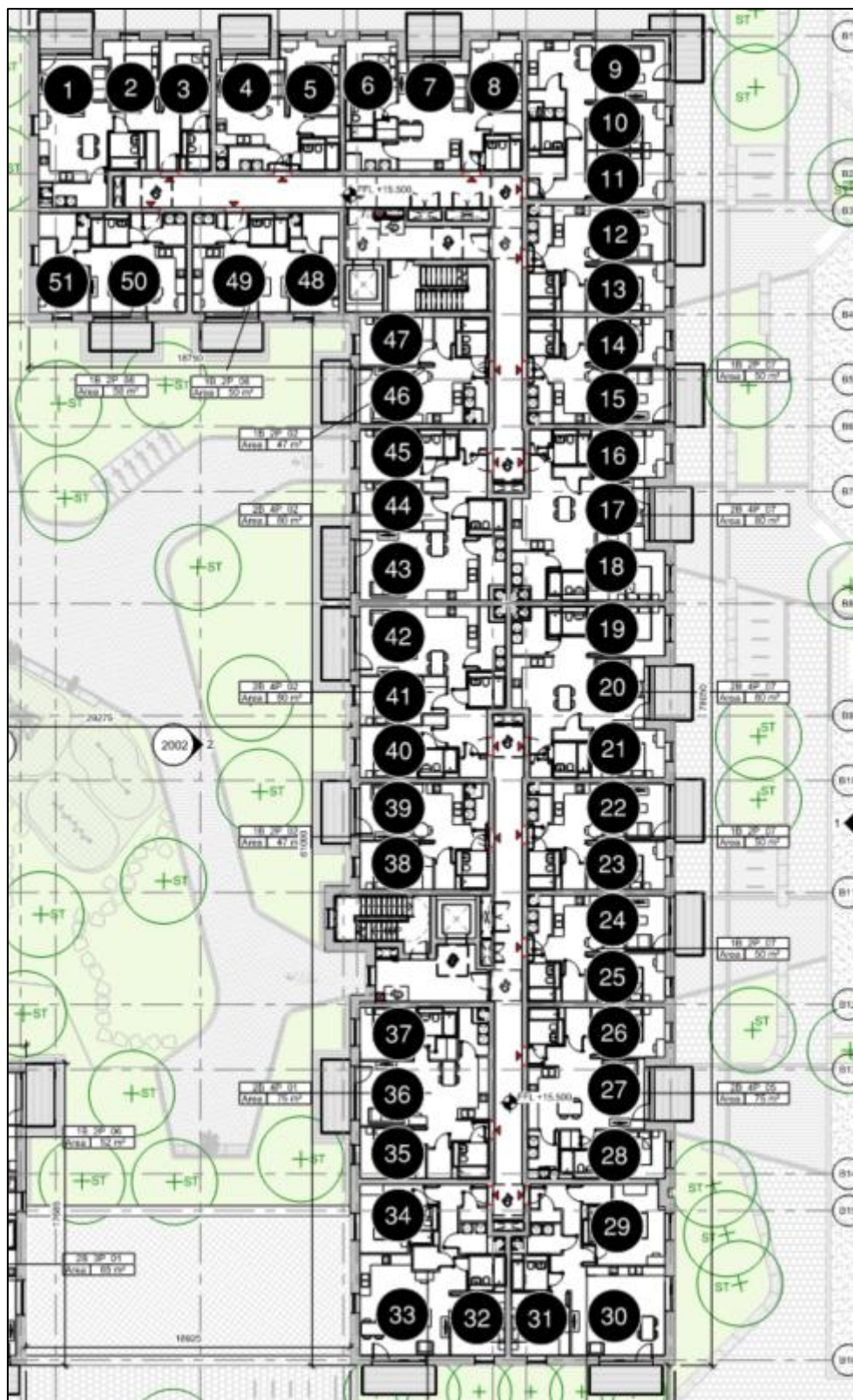
Legends*Figure 18: Block A3 First Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	97%	Y
2	Bedroom	100%	Y	95%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	97%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	95%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	98%	Y
10	Bedroom	100%	Y	99%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	99%	Y
13	Liv/Din	100%	Y	96%	Y
14	Bedroom	100%	Y	96%	Y
15	Liv/Din	100%	Y	90%	Y
16	Bedroom	100%	Y	95%	Y
17	Liv/Din	98%	Y	55%	Y
18	Bedroom	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	91%	N	52%	Y
21	Bedroom	100%	Y	87%	Y
22	Bedroom	100%	Y	77%	Y
23	Liv/Din	100%	Y	73%	Y
24	Bedroom	100%	Y	76%	Y
25	Liv/Din	100%	Y	84%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Bedroom	100%	Y	81%	Y
27	Liv/Din	100%	Y	72%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Liv/Din	100%	Y	100%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	100%	Y
34	Bedroom	100%	Y	95%	Y
35	Bedroom	100%	Y	46%	N
36	Liv/Din	100%	Y	54%	Y
37	Bedroom	100%	Y	98%	Y
38	Bedroom	100%	Y	54%	Y
39	Liv/Din	100%	Y	53%	Y
40	Bedroom	100%	Y	69%	Y
41	Bedroom	100%	Y	64%	Y
42	Liv/Din	100%	Y	65%	Y
43	Liv/Din	100%	Y	55%	Y
44	Bedroom	100%	Y	38%	N
45	Liv/Din	100%	Y	40%	N
46	Bedroom	87%	N	30%	N
47	Liv/Din	100%	Y	70%	Y
48	Bedroom	100%	Y	90%	Y
49	Liv/Din	100%	Y	95%	Y
50	Bedroom	100%	Y	100%	Y

Table 15: BR209 Methodology Results (Block A3 First Floor)

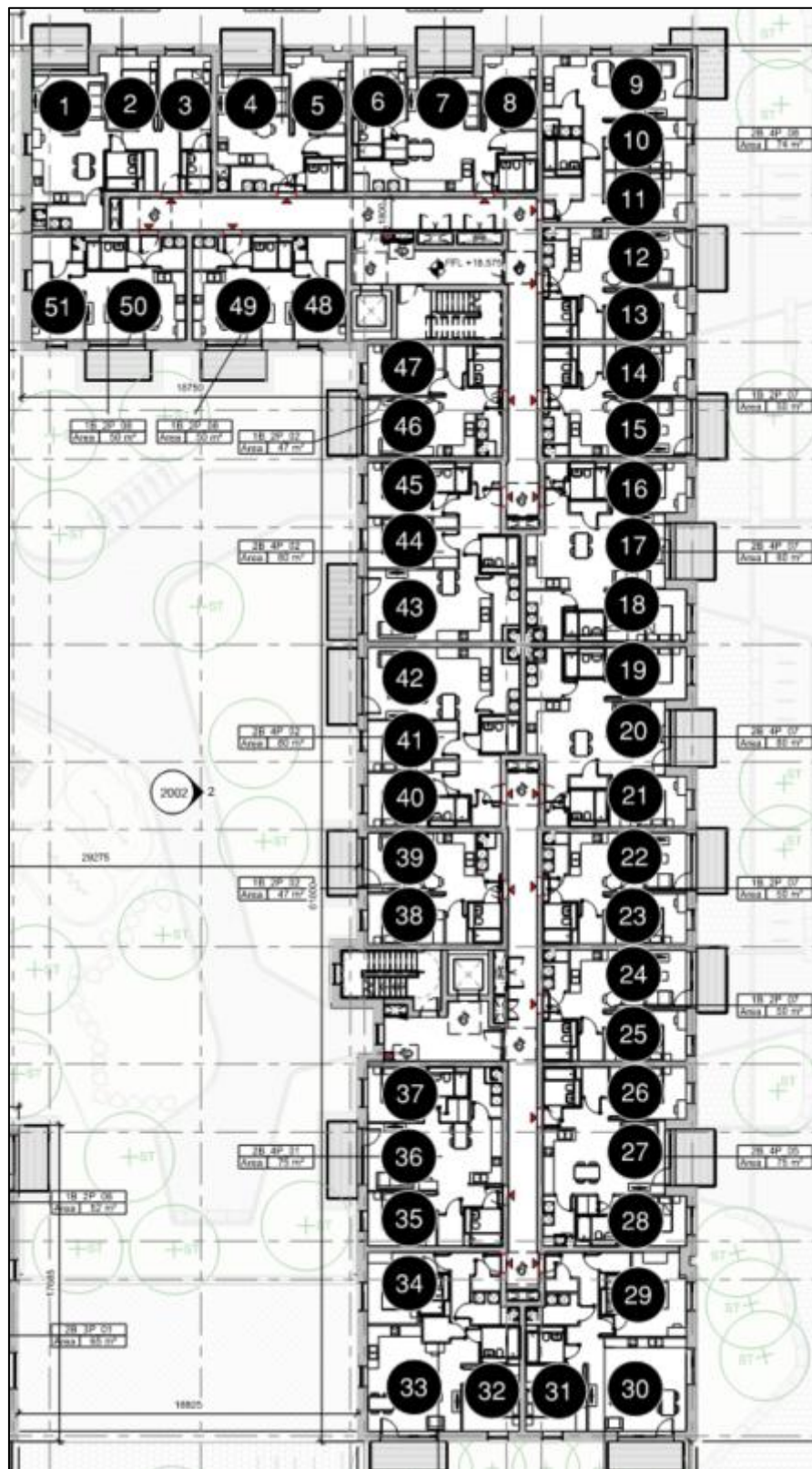
Legends*Figure 19: Block A3 Second Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	97%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	81%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	95%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	100%	Y
14	Bedroom	100%	Y	94%	Y
15	Liv/Din	100%	Y	89%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	99%	Y	55%	Y
18	Bedroom	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	97%	Y	54%	Y
21	Bedroom	100%	Y	99%	Y
22	Bedroom	100%	Y	81%	Y
23	Liv/Din	100%	Y	89%	Y
24	Bedroom	100%	Y	81%	Y
25	Liv/Din	100%	Y	97%	Y
26	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
27	Liv/Din	100%	Y	72%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	98%	Y
30	Liv/Din	100%	Y	100%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	100%	Y
34	Bedroom	100%	Y	98%	Y
35	Bedroom	100%	Y	62%	Y
36	Liv/Din	96%	Y	44%	N
37	Bedroom	100%	Y	80%	Y
38	Bedroom	100%	Y	61%	Y
39	Liv/Din	100%	Y	50%	Y
40	Bedroom	100%	Y	80%	Y
41	Bedroom	100%	Y	75%	Y
42	Liv/Din	100%	Y	66%	Y
43	Liv/Din	100%	Y	57%	Y
44	Bedroom	100%	Y	63%	Y
45	Bedroom	100%	Y	72%	Y
46	Liv/Din	100%	Y	46%	N
47	Bedroom	99%	Y	36%	N
48	Bedroom	100%	Y	85%	Y
49	Liv/Din	100%	Y	95%	Y
50	Liv/Din	100%	Y	99%	Y
51	Bedroom	100%	Y	100%	Y

Table 16: BR209 Methodology Results (Block A3 Second Floor)

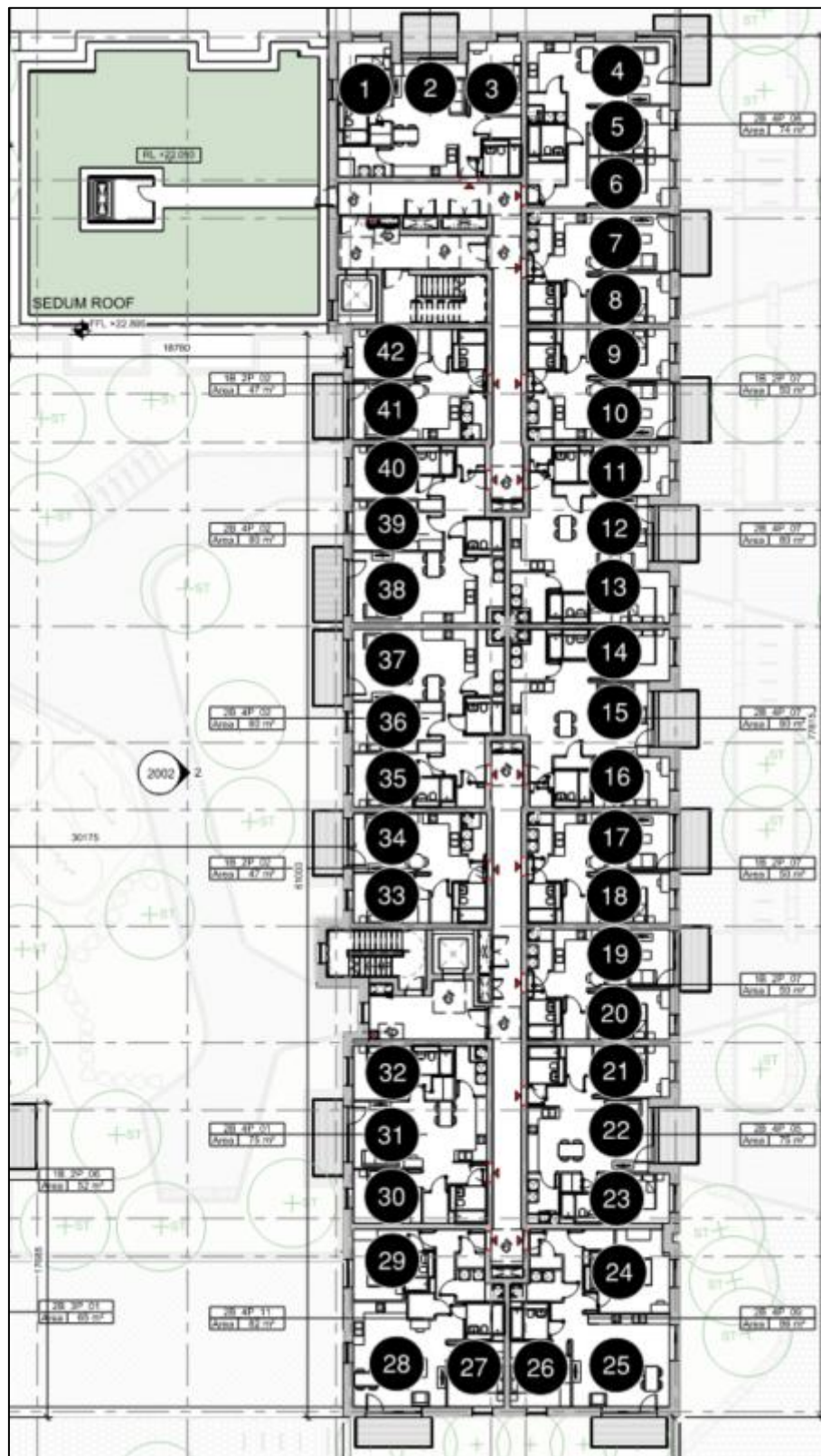
Legends*Figure 20: Block A3 Third Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	99%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	98%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	94%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Liv/Din	100%	Y	98%	Y
14	Bedroom	100%	Y	98%	Y
15	Liv/Din	100%	Y	97%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	62%	Y
18	Bedroom	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	58%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	91%	Y
23	Liv/Din	100%	Y	95%	Y
24	Bedroom	100%	Y	88%	Y
25	Liv/Din	100%	Y	95%	Y
26	Bedroom	100%	Y	99%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
27	Liv/Din	100%	Y	75%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	98%	Y
30	Liv/Din	100%	Y	100%	Y
31	Bedroom	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Liv/Din	100%	Y	100%	Y
34	Bedroom	100%	Y	98%	Y
35	Bedroom	100%	Y	67%	Y
36	Liv/Din	99%	Y	54%	Y
37	Bedroom	100%	Y	96%	Y
38	Bedroom	100%	Y	66%	Y
39	Liv/Din	100%	Y	65%	Y
40	Bedroom	100%	Y	89%	Y
41	Bedroom	100%	Y	98%	Y
42	Liv/Din	100%	Y	67%	Y
43	Liv/Din	100%	Y	56%	Y
44	Bedroom	100%	Y	74%	Y
45	Bedroom	100%	Y	85%	Y
46	Liv/Din	100%	Y	56%	Y
47	Bedroom	99%	Y	50%	Y
48	Bedroom	100%	Y	99%	Y
49	Liv/Din	100%	Y	100%	Y
50	Liv/Din	100%	Y	96%	Y
51	Bedroom	100%	Y	100%	Y

Table 17: BR209 Methodology Results (Block A3 Third Floor)

Legends*Figure 21: Block A3 Fourth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	98%	Y
3	Bedroom	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	62%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	61%	Y
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	97%	Y
18	Liv/Din	100%	Y	98%	Y
19	Bedroom	100%	Y	98%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
22	Liv/Din	100%	Y	92%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	100%	Y
28	Liv/Din	100%	Y	100%	Y
29	Bedroom	100%	Y	98%	Y
30	Bedroom	100%	Y	67%	Y
31	Liv/Din	100%	Y	58%	Y
32	Bedroom	100%	Y	97%	Y
33	Bedroom	100%	Y	78%	Y
34	Liv/Din	100%	Y	69%	Y
35	Bedroom	100%	Y	96%	Y
36	Bedroom	100%	Y	100%	Y
37	Liv/Din	100%	Y	73%	Y
38	Liv/Din	100%	Y	74%	Y
39	Bedroom	100%	Y	74%	Y
40	Bedroom	100%	Y	92%	Y
41	Liv/Din	100%	Y	69%	Y
42	Bedroom	100%	Y	75%	Y

Table 18: BR209 Methodology Results (Block A3 Fourth Floor)

Legends

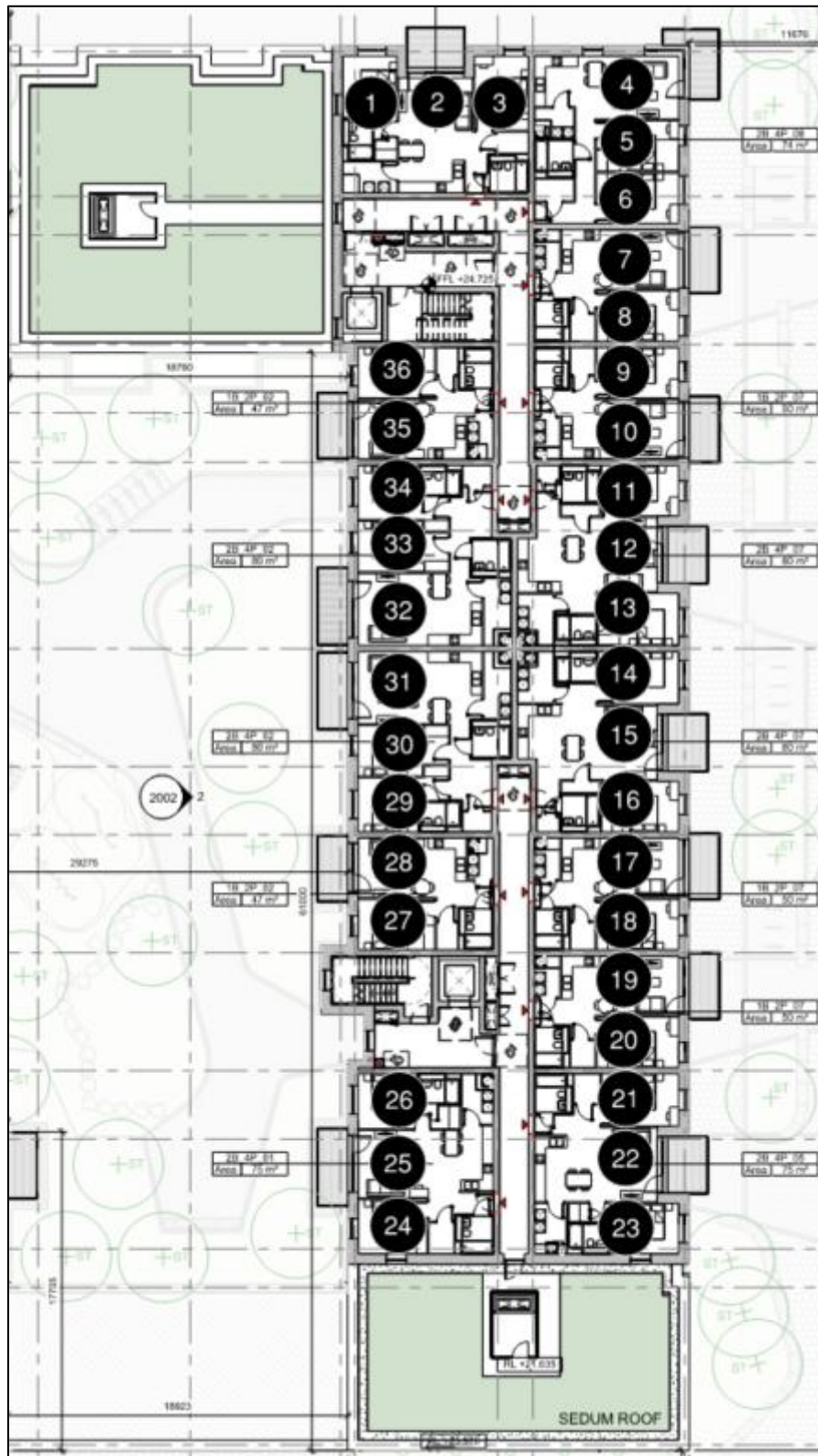


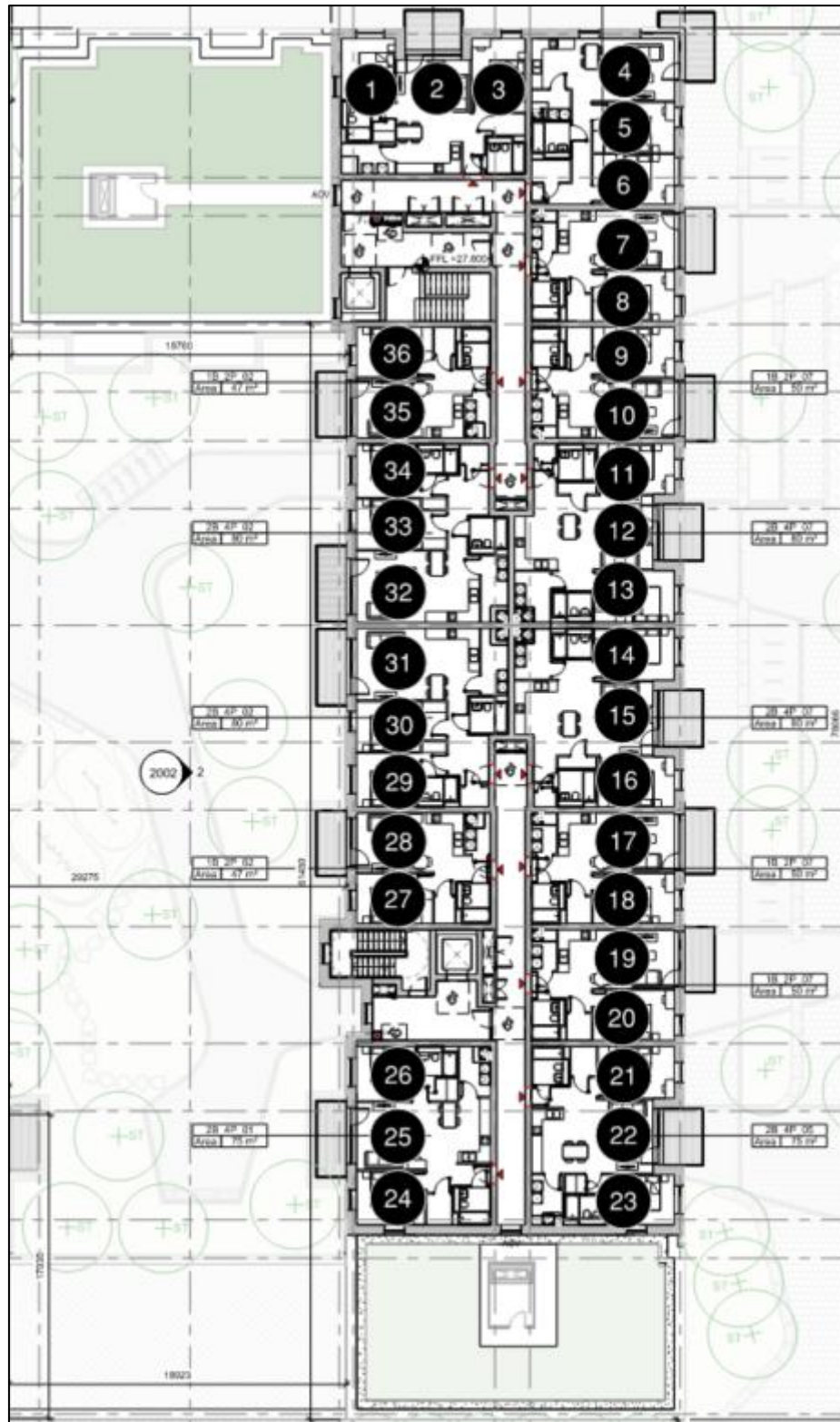
Figure 22: Block A3 Fifth Floor Legend

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	98%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	86%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	99%	Y
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	100%	Y
18	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	66%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	82%	Y
28	Liv/Din	100%	Y	76%	Y
29	Bedroom	100%	Y	96%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	91%	Y
32	Liv/Din	100%	Y	100%	Y
33	Bedroom	100%	Y	98%	Y
34	Bedroom	100%	Y	94%	Y
35	Liv/Din	100%	Y	85%	Y
36	Bedroom	100%	Y	88%	Y

Table 19: BR209 Methodology Results (Block A3 Fifth Floor)

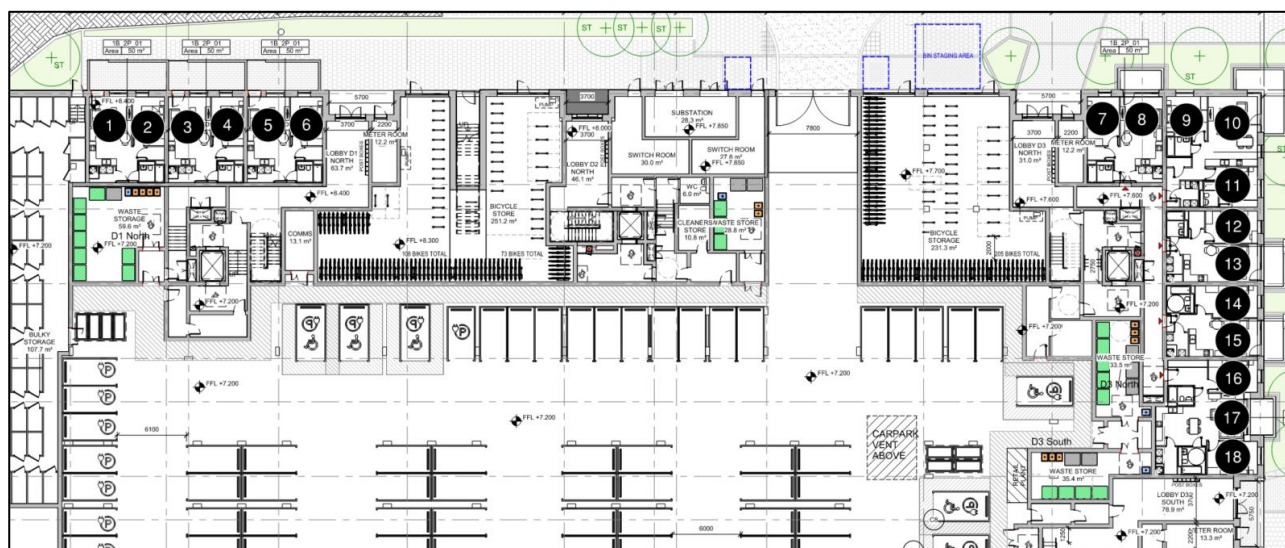
Legends*Figure 23: Block A3 Sixth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	99%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	78%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	77%	Y
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	100%	Y
18	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	81%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	93%	Y
28	Liv/Din	100%	Y	97%	Y
29	Bedroom	100%	Y	97%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Liv/Din	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Bedroom	100%	Y	96%	Y
35	Liv/Din	100%	Y	100%	Y
36	Bedroom	100%	Y	99%	Y

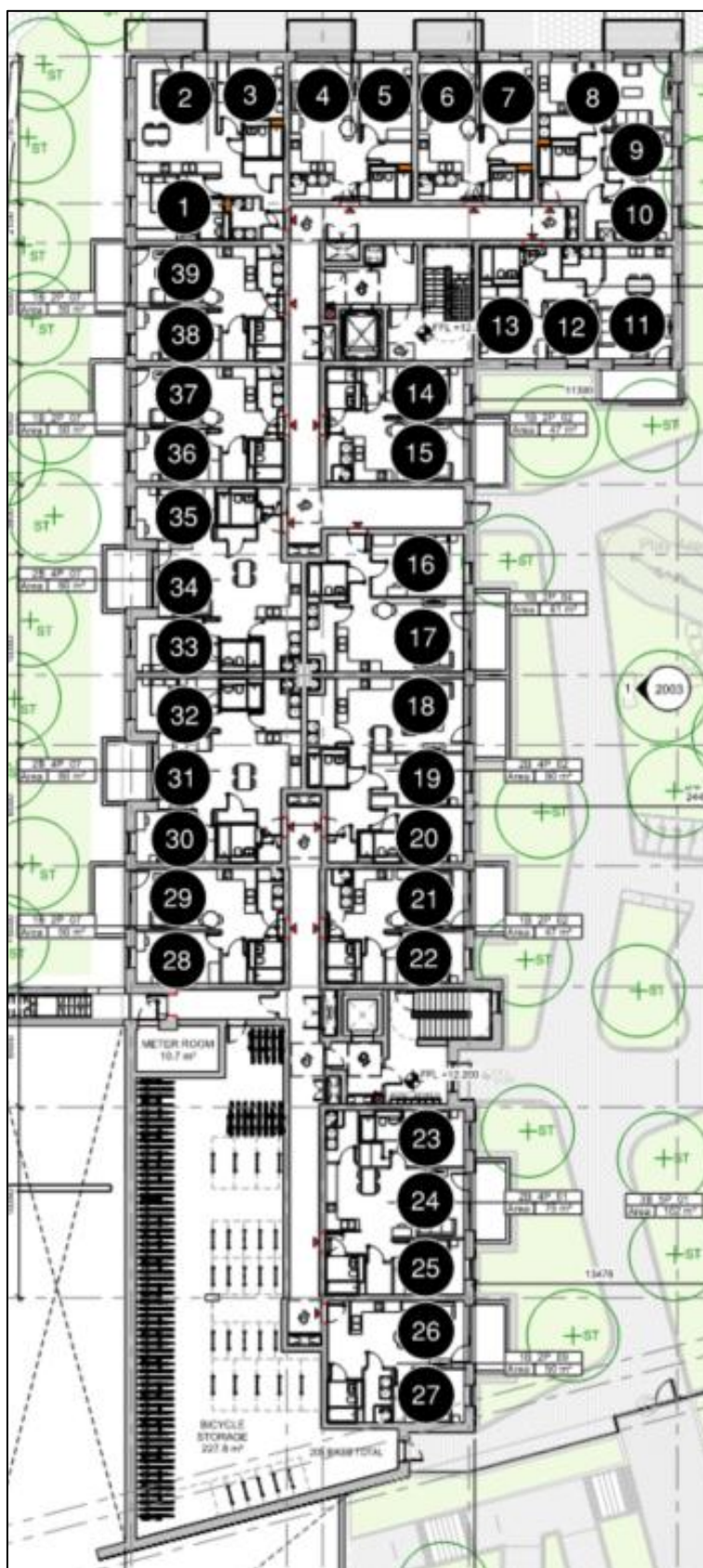
Table 20: BR209 Methodology Results (Block A3 Sixth Floor)

Legends*Figure 24: Block D1, D2, and D3 Ground Floor Legend***Results**

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	46%	N
2	Bedroom	100%	Y	62%	Y
3	Liv/Din	100%	Y	45%	N
4	Bedroom	100%	Y	75%	Y
5	Liv/Din	100%	Y	44%	N
6	Bedroom	100%	Y	63%	Y
7	Bedroom	100%	Y	63%	Y
8	Liv/Din	100%	Y	99%	Y
9	Bedroom	100%	Y	96%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Bedroom	100%	Y	88%	Y
13	Liv/Din	100%	Y	75%	Y
14	Bedroom	100%	Y	80%	Y
15	Liv/Din	100%	Y	74%	Y
16	Bedroom	100%	Y	84%	Y
17	Liv/Din	100%	Y	67%	Y
18	Bedroom	100%	Y	100%	Y

Table 21: BR209 Methodology Results (Block D1, D2, and D3 Ground Floor)

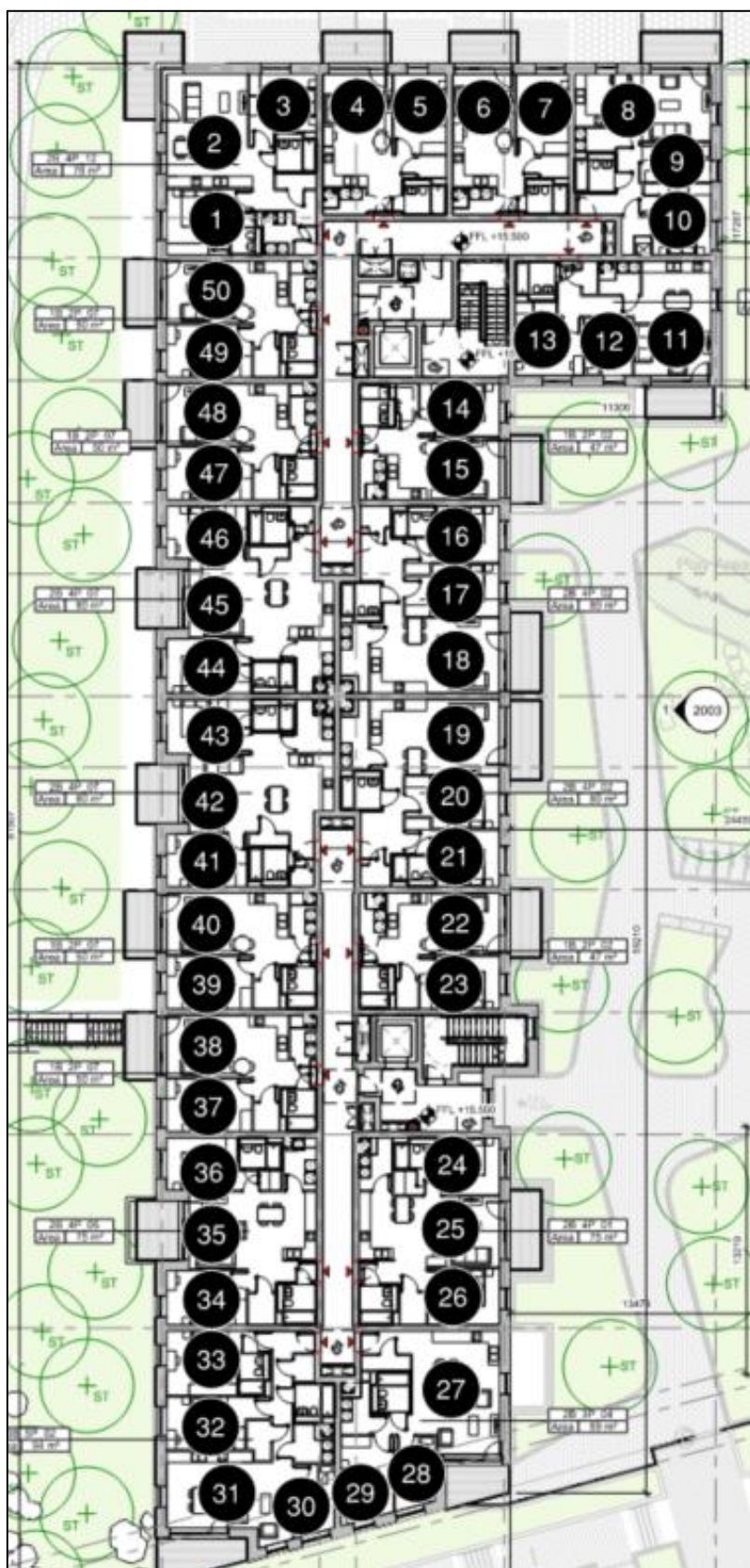
Legends*Figure 25: Block D1 First Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	92%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	96%	Y
4	Liv/Din	100%	Y	78%	Y
5	Bedroom	100%	Y	78%	Y
6	Liv/Din	100%	Y	79%	Y
7	Bedroom	100%	Y	75%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	75%	Y
10	Bedroom	100%	Y	74%	Y
11	Liv/Din	100%	Y	98%	Y
12	Bedroom	100%	Y	100%	Y
13	Bedroom	100%	Y	88%	Y
14	Bedroom	66%	N	21%	N
15	Liv/Din	92%	N	39%	N
16	Bedroom	100%	Y	32%	N
17	Liv/Din	99%	Y	41%	N
18	Liv/Din	99%	Y	50%	Y
19	Bedroom	100%	Y	63%	Y
20	Bedroom	100%	Y	63%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
21	Liv/Din	100%	Y	50%	Y
22	Bedroom	100%	Y	45%	N
23	Bedroom	100%	Y	90%	Y
24	Liv/Din	100%	Y	69%	Y
25	Bedroom	100%	Y	79%	Y
26	Liv/Din	100%	Y	100%	Y
27	Bedroom	100%	Y	100%	Y
28	Bedroom	100%	Y	85%	Y
29	Liv/Din	100%	Y	84%	Y
30	Bedroom	100%	Y	70%	Y
31	Liv/Din	100%	Y	60%	Y
32	Bedroom	100%	Y	83%	Y
33	Bedroom	100%	Y	95%	Y
34	Liv/Din	100%	Y	66%	Y
35	Bedroom	100%	Y	92%	Y
36	Bedroom	100%	Y	67%	Y
37	Liv/Din	100%	Y	86%	Y
38	Bedroom	100%	Y	94%	Y
39	Liv/Din	100%	Y	100%	Y

Table 22: BR209 Methodology Results (Block D1 First Floor)

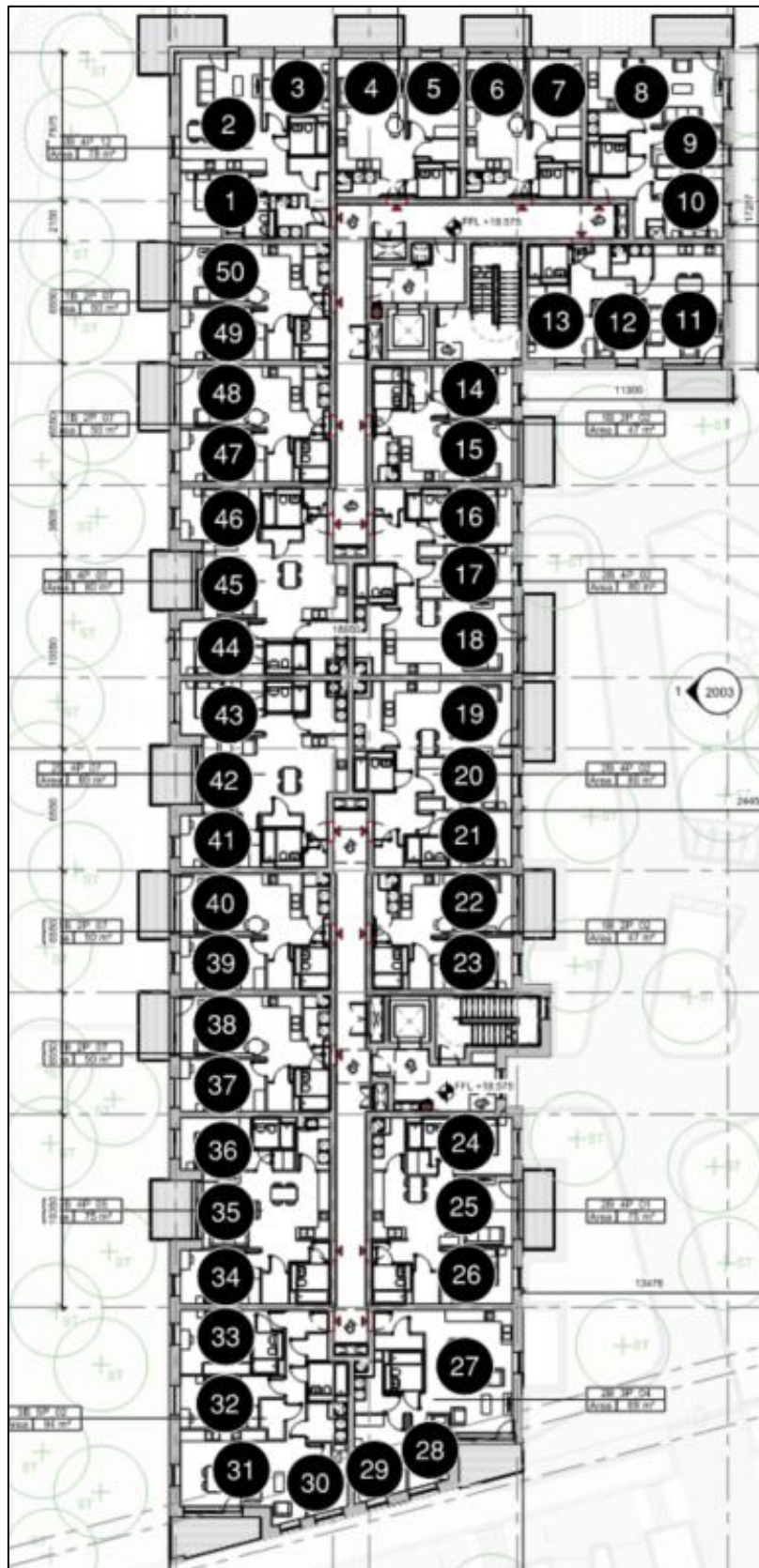
Legends*Figure 26: Block D1 Second Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	96%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	96%	Y
4	Liv/Din	100%	Y	77%	Y
5	Bedroom	100%	Y	94%	Y
6	Liv/Din	100%	Y	78%	Y
7	Bedroom	100%	Y	91%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	80%	Y
10	Bedroom	100%	Y	88%	Y
11	Liv/Din	100%	Y	97%	Y
12	Bedroom	100%	Y	100%	Y
13	Bedroom	100%	Y	97%	Y
14	Bedroom	89%	N	35%	N
15	Liv/Din	98%	Y	50%	Y
16	Bedroom	100%	Y	81%	Y
17	Bedroom	100%	Y	56%	Y
18	Liv/Din	88%	N	43%	N
19	Liv/Din	91%	N	47%	N
20	Bedroom	100%	Y	69%	Y
21	Bedroom	100%	Y	85%	Y
22	Liv/Din	98%	Y	48%	N
23	Bedroom	100%	Y	53%	Y
24	Bedroom	100%	Y	88%	Y
25	Liv/Din	98%	Y	61%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Bedroom	100%	Y	99%	Y
35	Liv/Din	100%	Y	100%	Y
36	Bedroom	100%	Y	100%	Y
37	Bedroom	100%	Y	97%	Y
38	Liv/Din	100%	Y	91%	Y
39	Bedroom	100%	Y	91%	Y
40	Liv/Din	100%	Y	84%	Y
41	Bedroom	100%	Y	76%	Y
42	Liv/Din	100%	Y	58%	Y
43	Bedroom	100%	Y	95%	Y
44	Bedroom	100%	Y	98%	Y
45	Liv/Din	100%	Y	65%	Y
46	Bedroom	100%	Y	96%	Y
47	Bedroom	100%	Y	71%	Y
48	Liv/Din	100%	Y	86%	Y
49	Bedroom	100%	Y	93%	Y
50	Liv/Din	100%	Y	100%	Y

Table 23: BR209 Methodology Results (Block D1 Second Floor)

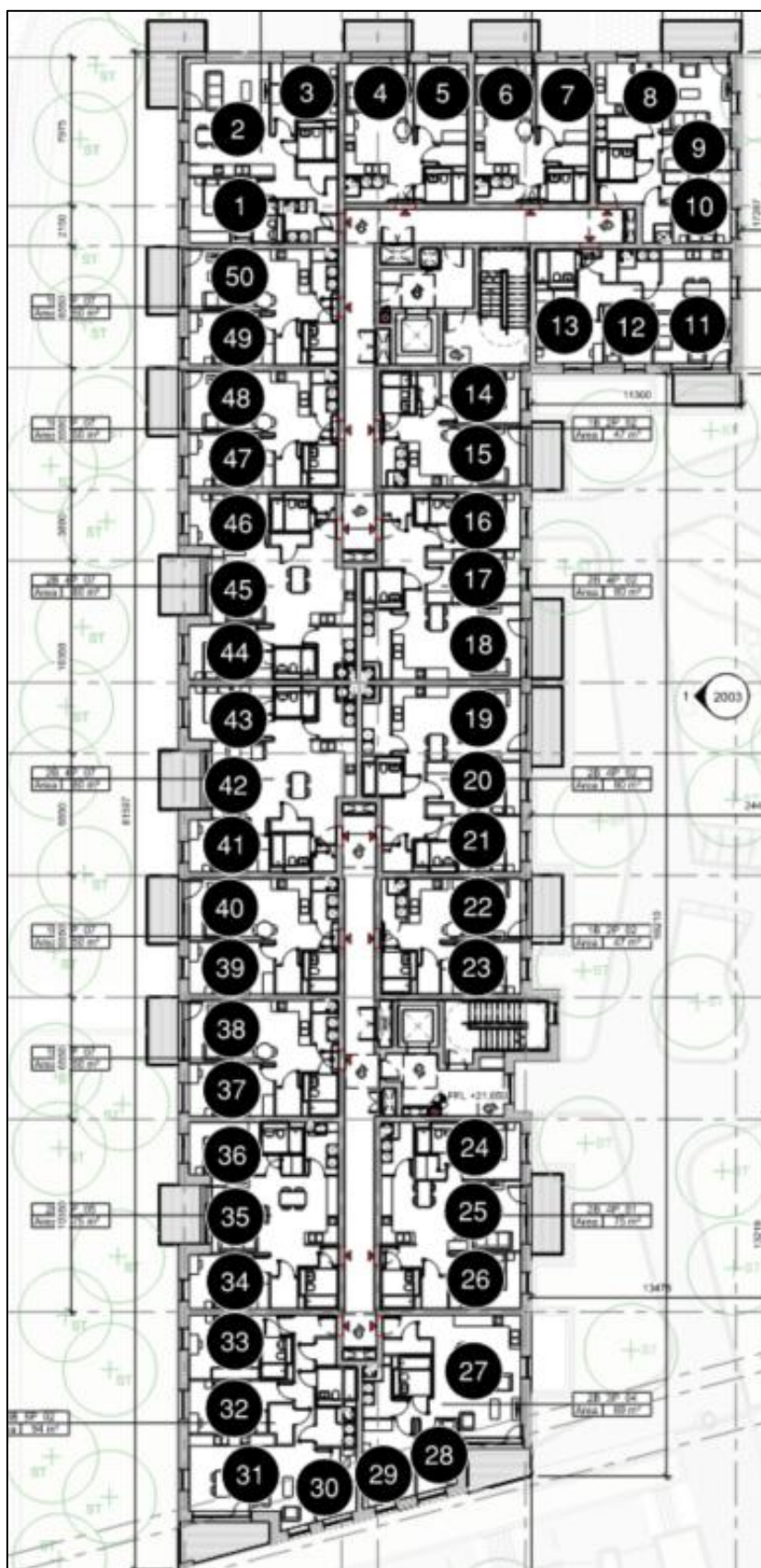
Legends*Figure 27: Block D1 Third Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	93%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	84%	Y
5	Bedroom	100%	Y	92%	Y
6	Liv/Din	100%	Y	84%	Y
7	Bedroom	100%	Y	87%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Bedroom	100%	Y	88%	Y
11	Liv/Din	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	47%	N
15	Liv/Din	95%	Y	58%	Y
16	Bedroom	97%	Y	93%	Y
17	Bedroom	100%	Y	62%	Y
18	Liv/Din	93%	N	52%	Y
19	Liv/Din	94%	N	52%	Y
20	Bedroom	100%	Y	78%	Y
21	Bedroom	100%	Y	95%	Y
22	Liv/Din	100%	Y	56%	Y
23	Bedroom	96%	Y	54%	Y
24	Bedroom 1	100%	Y	96%	Y
25	Liv/Din	97%	Y	55%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Bedroom	100%	Y	100%	Y
35	Liv/Din	100%	Y	71%	Y
36	Bedroom	100%	Y	100%	Y
37	Bedroom	100%	Y	100%	Y
38	Liv/Din	100%	Y	100%	Y
39	Bedroom	100%	Y	95%	Y
40	Liv/Din	100%	Y	84%	Y
41	Bedroom	100%	Y	85%	Y
42	Liv/Din	100%	Y	63%	Y
43	Bedroom	100%	Y	93%	Y
44	Bedroom	100%	Y	99%	Y
45	Liv/Din	100%	Y	65%	Y
46	Bedroom	100%	Y	96%	Y
47	Bedroom	100%	Y	76%	Y
48	Liv/Din	100%	Y	87%	Y
49	Bedroom	100%	Y	86%	Y
50	Liv/Din	100%	Y	100%	Y

Table 24: BR209 Methodology Results (Block D1 Third Floor)

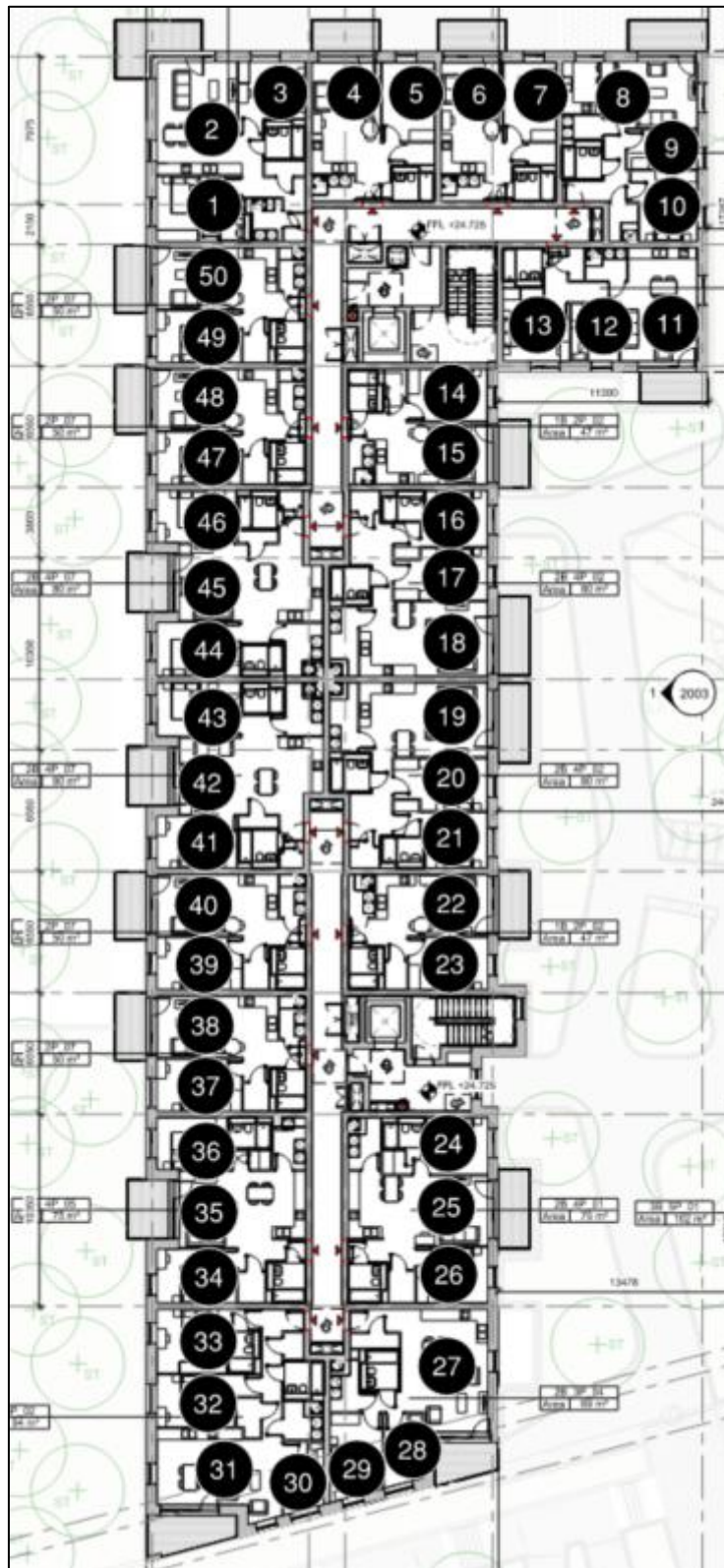
Legends*Figure 28: Block D1 Fourth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	94%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	97%	Y
4	Liv/Din	100%	Y	89%	Y
5	Bedroom	100%	Y	100%	Y
6	Liv/Din	100%	Y	90%	Y
7	Bedroom	100%	Y	97%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Bedroom	100%	Y	98%	Y
11	Liv/Din	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	63%	Y
15	Liv/Din	100%	Y	74%	Y
16	Bedroom	100%	Y	98%	Y
17	Bedroom	100%	Y	69%	Y
18	Liv/Din	100%	Y	65%	Y
19	Liv/Din	100%	Y	67%	Y
20	Bedroom	100%	Y	92%	Y
21	Bedroom	100%	Y	100%	Y
22	Liv/Din	100%	Y	66%	Y
23	Bedroom	100%	Y	61%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	67%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Bedroom	100%	Y	100%	Y
35	Liv/Din	100%	Y	100%	Y
36	Bedroom	100%	Y	100%	Y
37	Bedroom	100%	Y	97%	Y
38	Liv/Din	100%	Y	96%	Y
39	Bedroom	100%	Y	95%	Y
40	Liv/Din	100%	Y	84%	Y
41	Bedroom	100%	Y	76%	Y
42	Liv/Din	100%	Y	63%	Y
43	Bedroom	100%	Y	95%	Y
44	Bedroom	100%	Y	96%	Y
45	Liv/Din	100%	Y	67%	Y
46	Bedroom	100%	Y	96%	Y
47	Bedroom	100%	Y	74%	Y
48	Liv/Din	100%	Y	89%	Y
49	Bedroom	100%	Y	91%	Y
50	Liv/Din	100%	Y	100%	Y

Table 25: BR209 Methodology Results (Block D1 Fourth Floor)

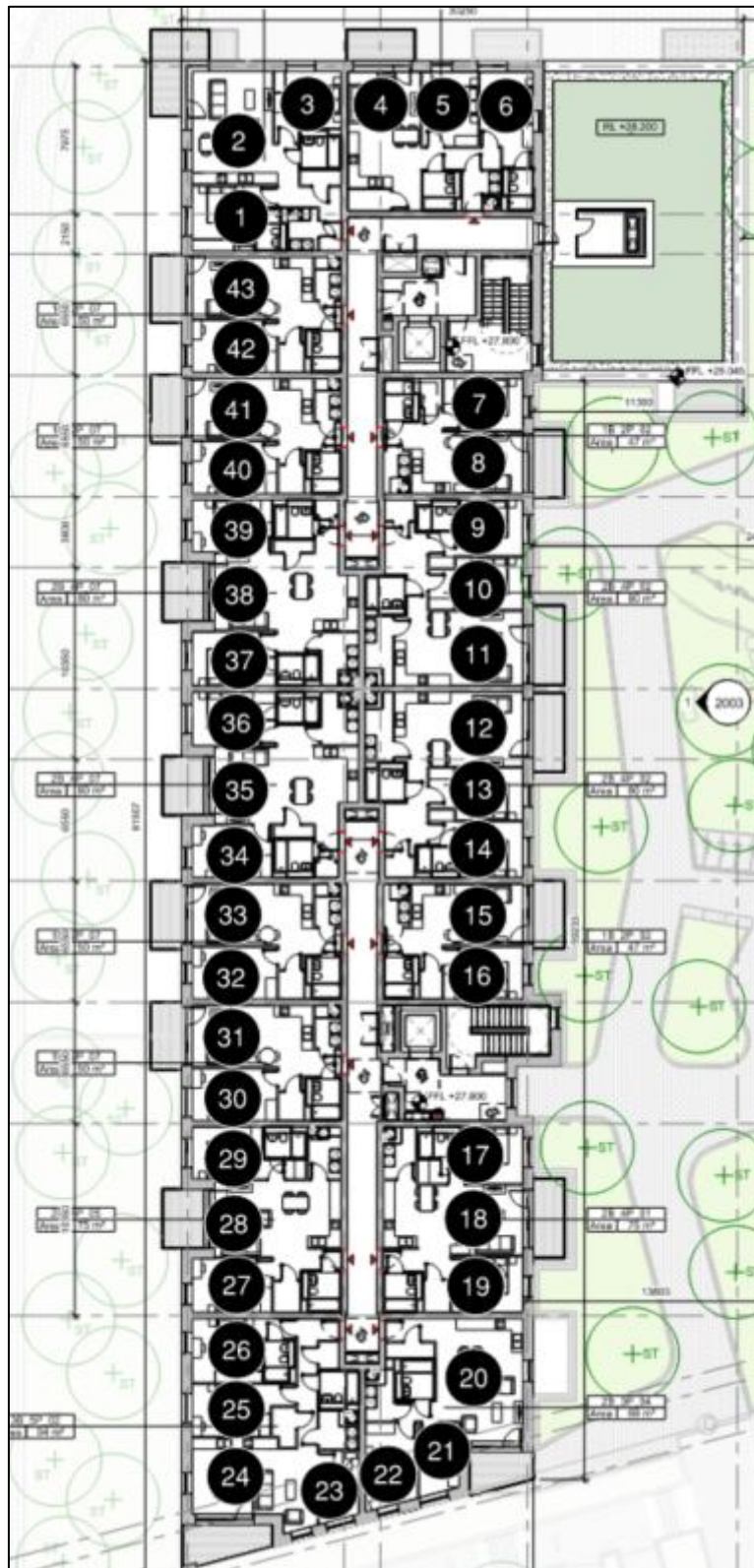
Legends*Figure 29: Block D1 Fifth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	98%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	98%	Y
4	Liv/Din	100%	Y	94%	Y
5	Bedroom	100%	Y	100%	Y
6	Liv/Din	100%	Y	100%	Y
7	Bedroom	100%	Y	98%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Bedroom	100%	Y	100%	Y
11	Liv/Din	100%	Y	100%	Y
12	Bedroom	100%	Y	100%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	93%	Y
15	Liv/Din	100%	Y	83%	Y
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	81%	Y
18	Liv/Din	100%	Y	75%	Y
19	Liv/Din	100%	Y	77%	Y
20	Bedroom	100%	Y	98%	Y
21	Bedroom	100%	Y	100%	Y
22	Liv/Din	100%	Y	82%	Y
23	Bedroom	100%	Y	69%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	70%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	100%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	100%	Y
33	Bedroom	100%	Y	100%	Y
34	Bedroom	100%	Y	100%	Y
35	Liv/Din	100%	Y	100%	Y
36	Bedroom	100%	Y	100%	Y
37	Bedroom	100%	Y	100%	Y
38	Liv/Din	100%	Y	100%	Y
39	Bedroom	100%	Y	97%	Y
40	Liv/Din	100%	Y	87%	Y
41	Bedroom	100%	Y	79%	Y
42	Liv/Din	100%	Y	64%	Y
43	Bedroom	100%	Y	98%	Y
44	Bedroom	100%	Y	97%	Y
45	Liv/Din	100%	Y	73%	Y
46	Bedroom	100%	Y	96%	Y
47	Bedroom	100%	Y	81%	Y
48	Liv/Din	100%	Y	87%	Y
49	Bedroom	100%	Y	91%	Y
50	Liv/Din	100%	Y	100%	Y

Table 26: BR209 Methodology Results (Block D1 Fifth Floor)

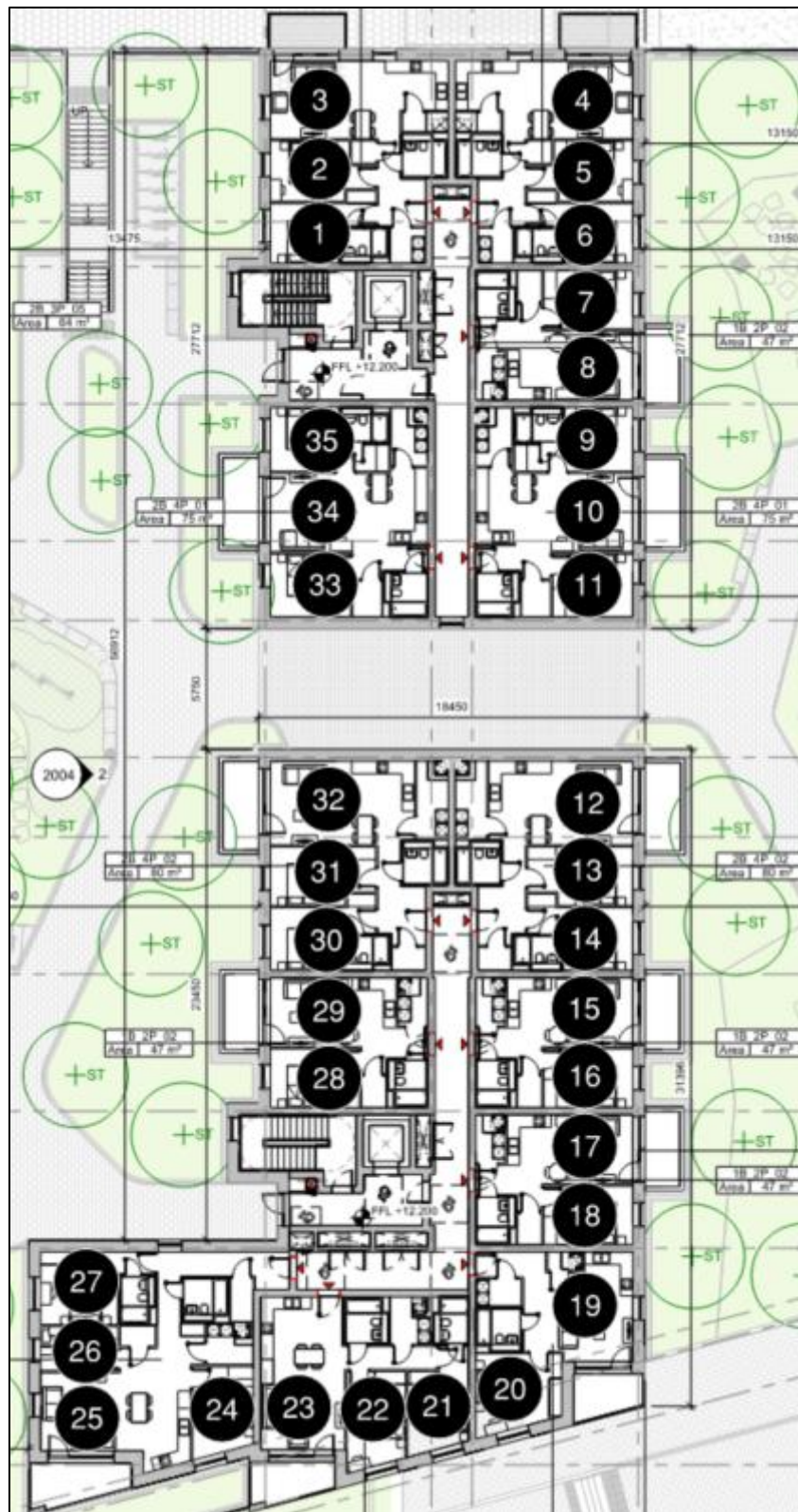
Legends*Figure 30: Block D1 Sixth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Liv/Din	100%	Y	100%	Y
3	Bedroom	100%	Y	98%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Bedroom	100%	Y	97%	Y
11	Liv/Din	100%	Y	99%	Y
12	Liv/Din	100%	Y	92%	Y
13	Bedroom	100%	Y	100%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	100%	Y
16	Bedroom	100%	Y	82%	Y
17	Liv/Din	100%	Y	100%	Y
18	Bedroom	100%	Y	82%	Y
19	Bedroom	100%	Y	100%	Y
20	Liv/Din	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
23	Bedroom	100%	Y	100%	Y
24	Liv/Din	100%	Y	100%	Y
25	Bedroom	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	96%	Y
28	Liv/Din	100%	Y	91%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	98%	Y
31	Liv/Din	100%	Y	100%	Y
32	Bedroom	100%	Y	97%	Y
33	Liv/Din	100%	Y	99%	Y
34	Bedroom	100%	Y	85%	Y
35	Liv/Din	100%	Y	75%	Y
36	Bedroom	100%	Y	100%	Y
37	Bedroom	100%	Y	99%	Y
38	Liv/Din	100%	Y	80%	Y
39	Bedroom	100%	Y	99%	Y
40	Bedroom	100%	Y	85%	Y
41	Liv/Din	100%	Y	100%	Y
42	Bedroom	100%	Y	97%	Y
43	Liv/Din	100%	Y	100%	Y

Table 27: BR209 Methodology Results (Block D1 Sixth Floor)

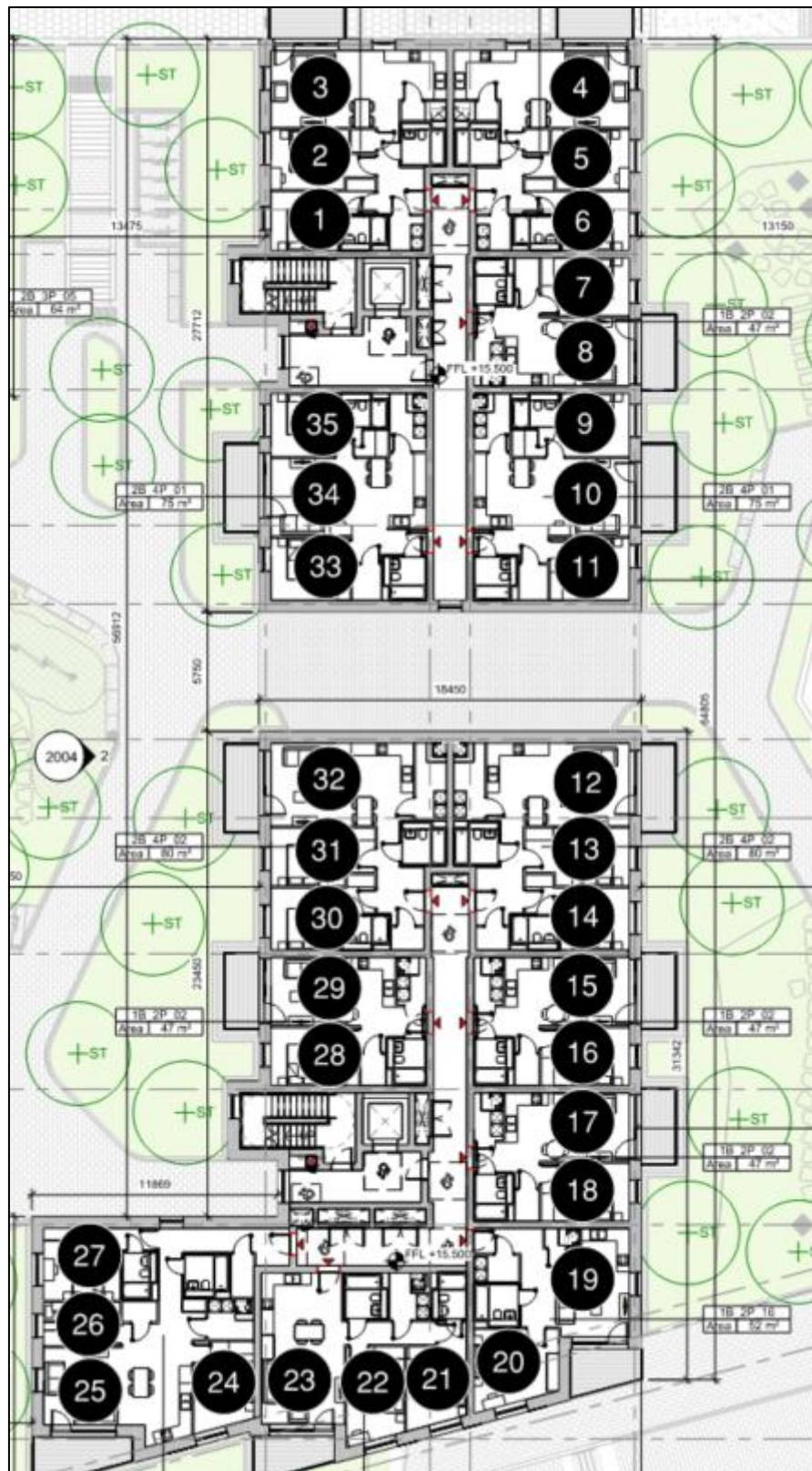
Legends*Figure 31: Block D2 First Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Bedroom	100%	Y	58%	Y
3	Liv/Din	100%	Y	88%	Y
4	Liv/Din	100%	Y	92%	Y
5	Bedroom	100%	Y	64%	Y
6	Bedroom	100%	Y	70%	Y
7	Bedroom	100%	Y	50%	Y
8	Liv/Din	100%	Y	53%	Y
9	Bedroom	100%	Y	73%	Y
10	Liv/Din	97%	Y	46%	N
11	Bedroom	100%	Y	67%	Y
12	Liv/Din	100%	Y	57%	Y
13	Bedroom	100%	Y	88%	Y
14	Bedroom	100%	Y	94%	Y
15	Liv/Din	100%	Y	95%	Y
16	Bedroom	100%	Y	80%	Y
17	Liv/Din	100%	Y	100%	Y
18	Bedroom	100%	Y	91%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Liv/Din	100%	Y	100%	Y
20	Bedroom	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Liv/Din	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	100%	Y
28	Bedroom	93%	N	34%	N
29	Liv/Din	100%	Y	36%	N
30	Bedroom	100%	Y	61%	Y
31	Bedroom	100%	Y	53%	Y
32	Liv/Din	100%	Y	40%	N
33	Bedroom	100%	Y	47%	N
34	Liv/Din	81%	N	29%	N
35	Bedroom	100%	Y	65%	Y

Table 28: BR209 Methodology Results (Block D2 First Floor)

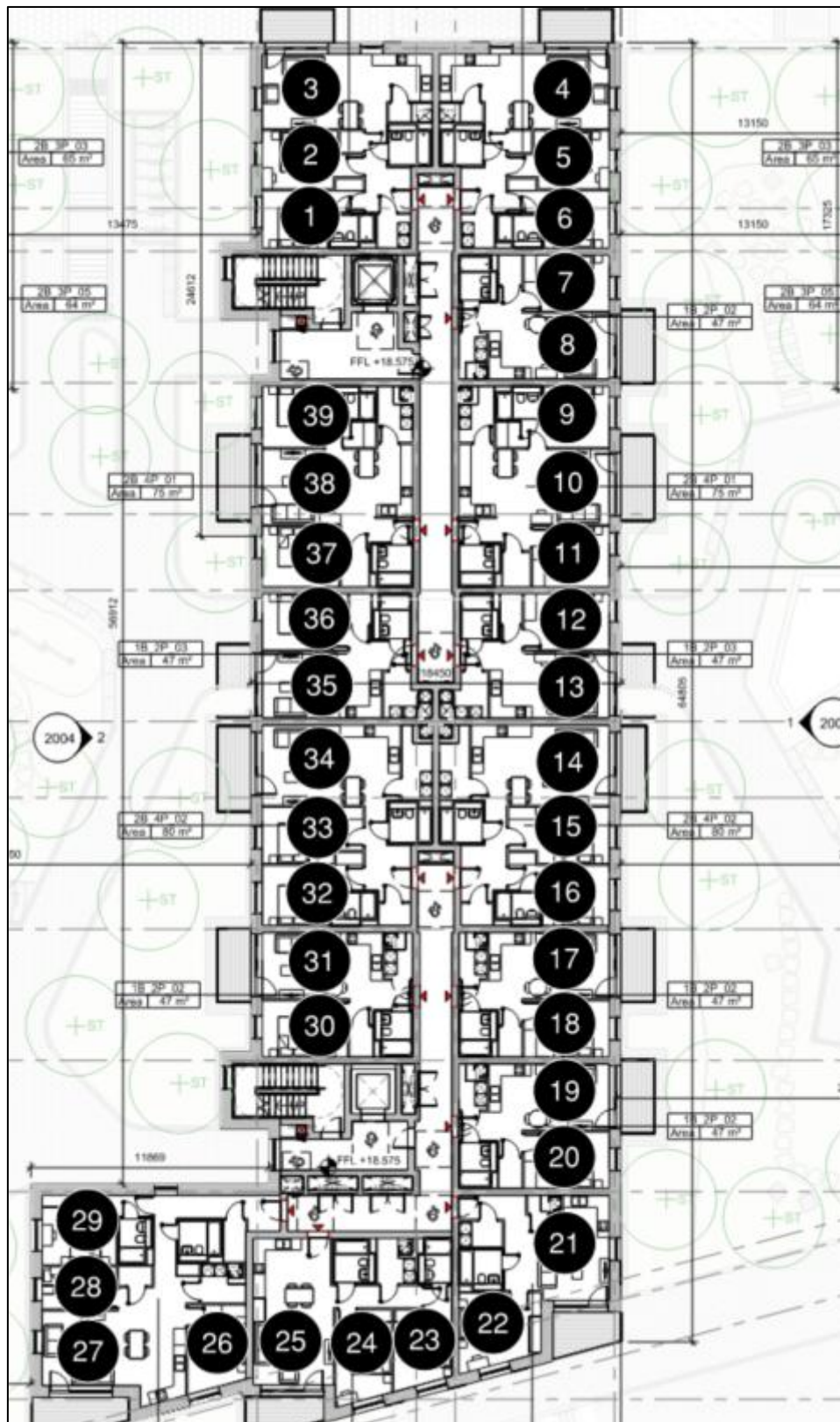
Legends*Figure 32: Block D2 Second Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	69%	Y
2	Bedroom	100%	Y	79%	Y
3	Liv/Din	100%	Y	95%	Y
4	Liv/Din	100%	Y	88%	Y
5	Bedroom	100%	Y	86%	Y
6	Bedroom	100%	Y	63%	Y
7	Bedroom	100%	Y	59%	Y
8	Liv/Din	100%	Y	51%	Y
9	Bedroom	100%	Y	95%	Y
10	Liv/Din	72%	N	38%	N
11	Bedroom	100%	Y	77%	Y
12	Liv/Din	100%	Y	58%	Y
13	Bedroom	100%	Y	97%	Y
14	Bedroom	100%	Y	100%	Y
15	Liv/Din	100%	Y	91%	Y
16	Bedroom	100%	Y	92%	Y
17	Liv/Din	100%	Y	100%	Y
18	Bedroom	100%	Y	98%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Liv/Din	100%	Y	100%	Y
20	Bedroom	100%	Y	100%	Y
21	Bedroom	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Liv/Din	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	98%	Y
28	Bedroom	96%	Y	45%	N
29	Liv/Din	91%	N	37%	N
30	Bedroom	100%	Y	89%	Y
31	Bedroom	100%	Y	61%	Y
32	Liv/Din	92%	N	43%	N
33	Bedroom	100%	Y	54%	Y
34	Liv/Din	69%	N	28%	N
35	Bedroom	100%	Y	94%	Y

Table 29: BR209 Methodology Results (Block D2 Second Floor)

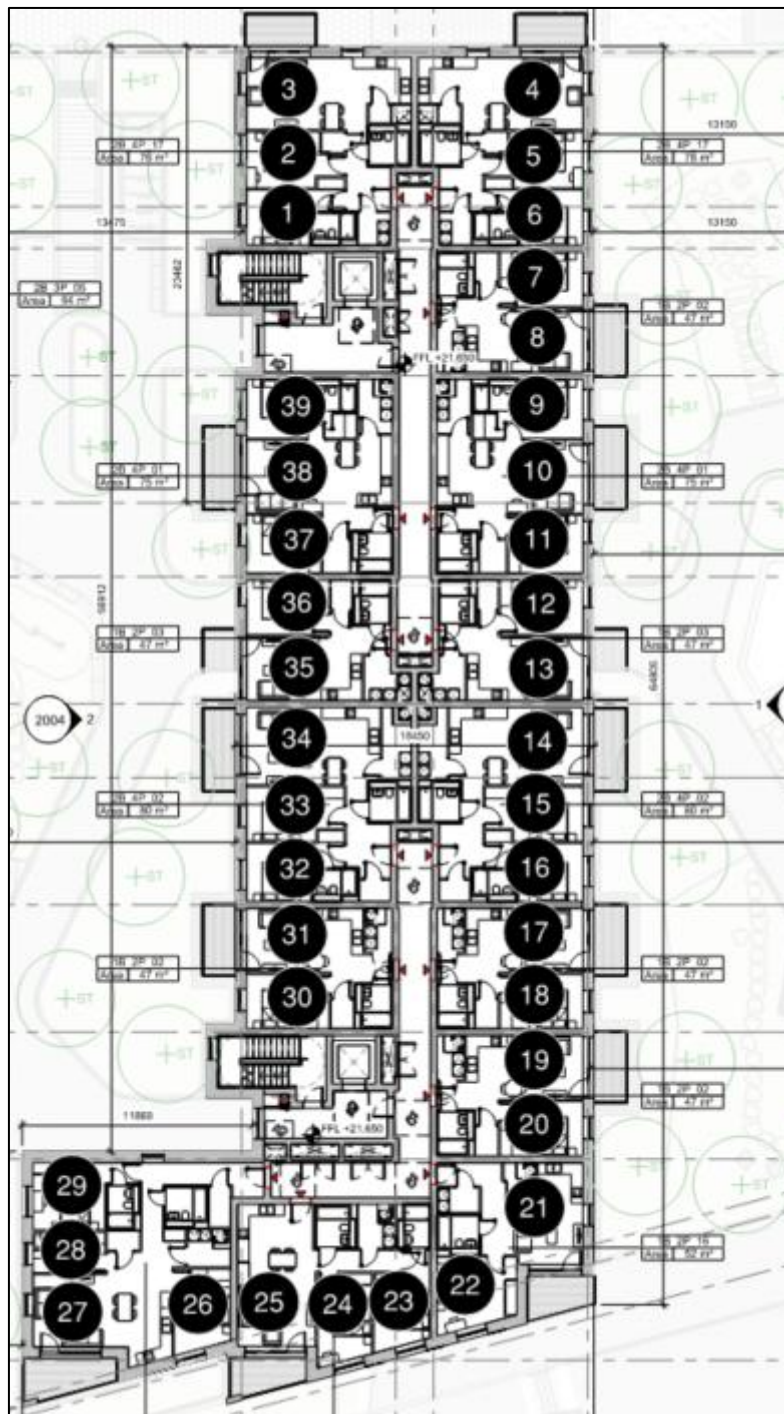
Legends*Figure 33: Block D2 Third Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Bedroom	100%	Y	94%	Y
3	Liv/Din	100%	Y	88%	Y
4	Liv/Din	100%	Y	99%	Y
5	Bedroom	100%	Y	84%	Y
6	Bedroom	100%	Y	96%	Y
7	Bedroom	100%	Y	70%	Y
8	Liv/Din	100%	Y	60%	Y
9	Bedroom	100%	Y	95%	Y
10	Liv/Din	79%	N	45%	N
11	Bedroom	100%	Y	76%	Y
12	Bedroom	100%	Y	73%	Y
13	Liv/Din	100%	Y	72%	Y
14	Liv/Din	100%	Y	56%	Y
15	Bedroom	100%	Y	99%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	83%	Y
18	Bedroom	100%	Y	97%	Y
19	Liv/Din	100%	Y	97%	Y
20	Bedroom	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
21	Liv/Din	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	61%	Y
31	Liv/Din	99%	Y	51%	Y
32	Bedroom	100%	Y	95%	Y
33	Bedroom	100%	Y	79%	Y
34	Liv/Din	99%	Y	53%	Y
35	Liv/Din	100%	Y	58%	Y
36	Bedroom	100%	Y	64%	Y
37	Bedroom	100%	Y	72%	Y
38	Liv/Din	78%	N	39%	N
39	Bedroom	100%	Y	99%	Y

Table 30: BR209 Methodology Results (Block D2 Third Floor)

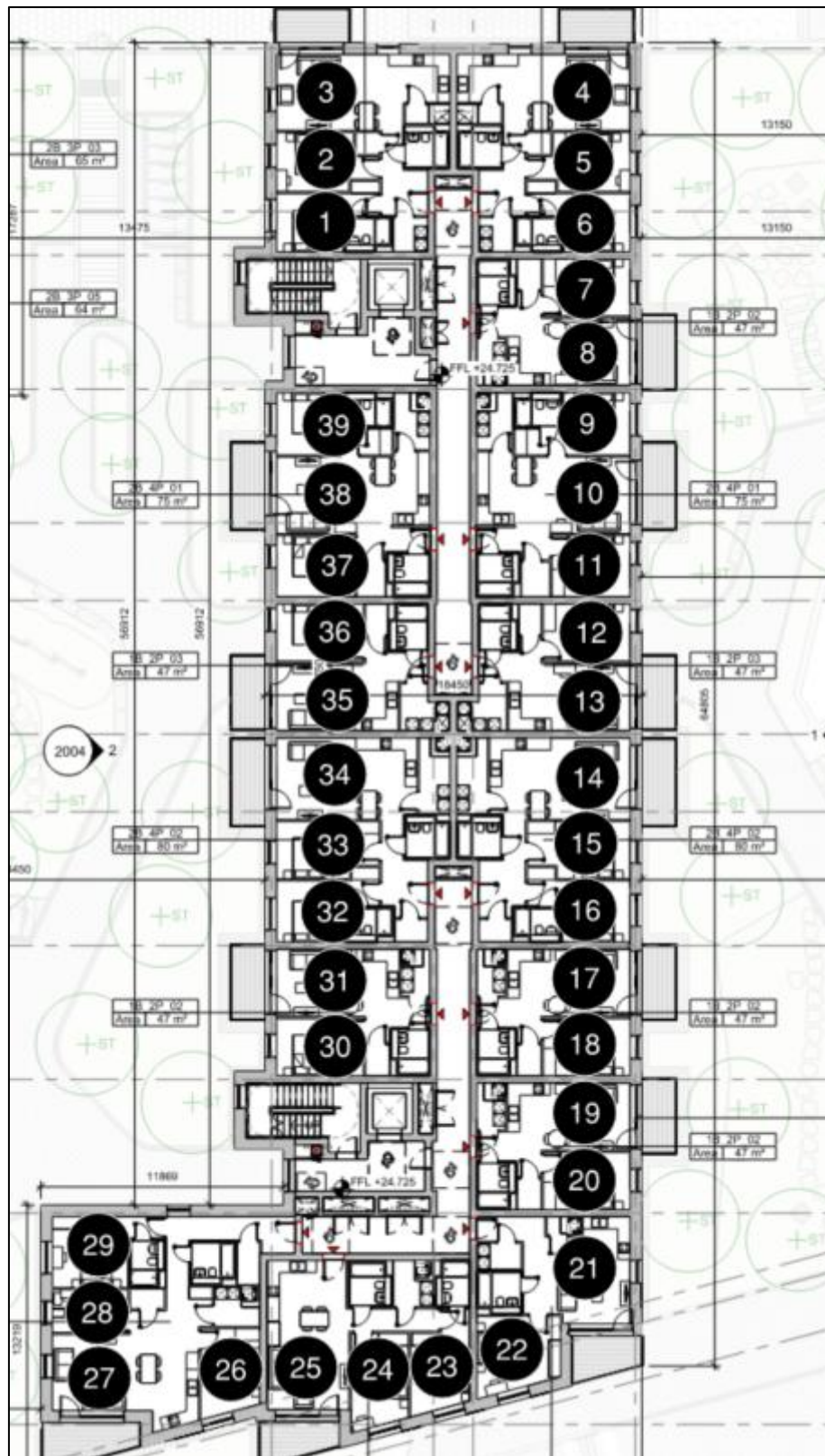
Legends*Figure 34: Block D2 Fourth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	96%	Y
2	Bedroom	100%	Y	98%	Y
3	Liv/Din	100%	Y	88%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	98%	Y
7	Bedroom	100%	Y	85%	Y
8	Liv/Din	100%	Y	82%	Y
9	Bedroom	100%	Y	96%	Y
10	Liv/Din	97%	Y	58%	Y
11	Bedroom	100%	Y	77%	Y
12	Bedroom	100%	Y	76%	Y
13	Liv/Din	100%	Y	78%	Y
14	Liv/Din	100%	Y	60%	Y
15	Bedroom	100%	Y	87%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	82%	Y
18	Bedroom	100%	Y	81%	Y
19	Liv/Din	100%	Y	100%	Y
20	Bedroom	100%	Y	87%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
21	Liv/Din	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	82%	Y
31	Liv/Din	100%	Y	62%	Y
32	Bedroom	100%	Y	96%	Y
33	Bedroom	100%	Y	91%	Y
34	Liv/Din	100%	Y	65%	Y
35	Liv/Din	100%	Y	68%	Y
36	Bedroom	100%	Y	70%	Y
37	Bedroom	100%	Y	86%	Y
38	Liv/Din	90%	N	50%	Y
39	Bedroom	100%	Y	99%	Y

Table 31: BR209 Methodology Results (Block D2 Fourth Floor)

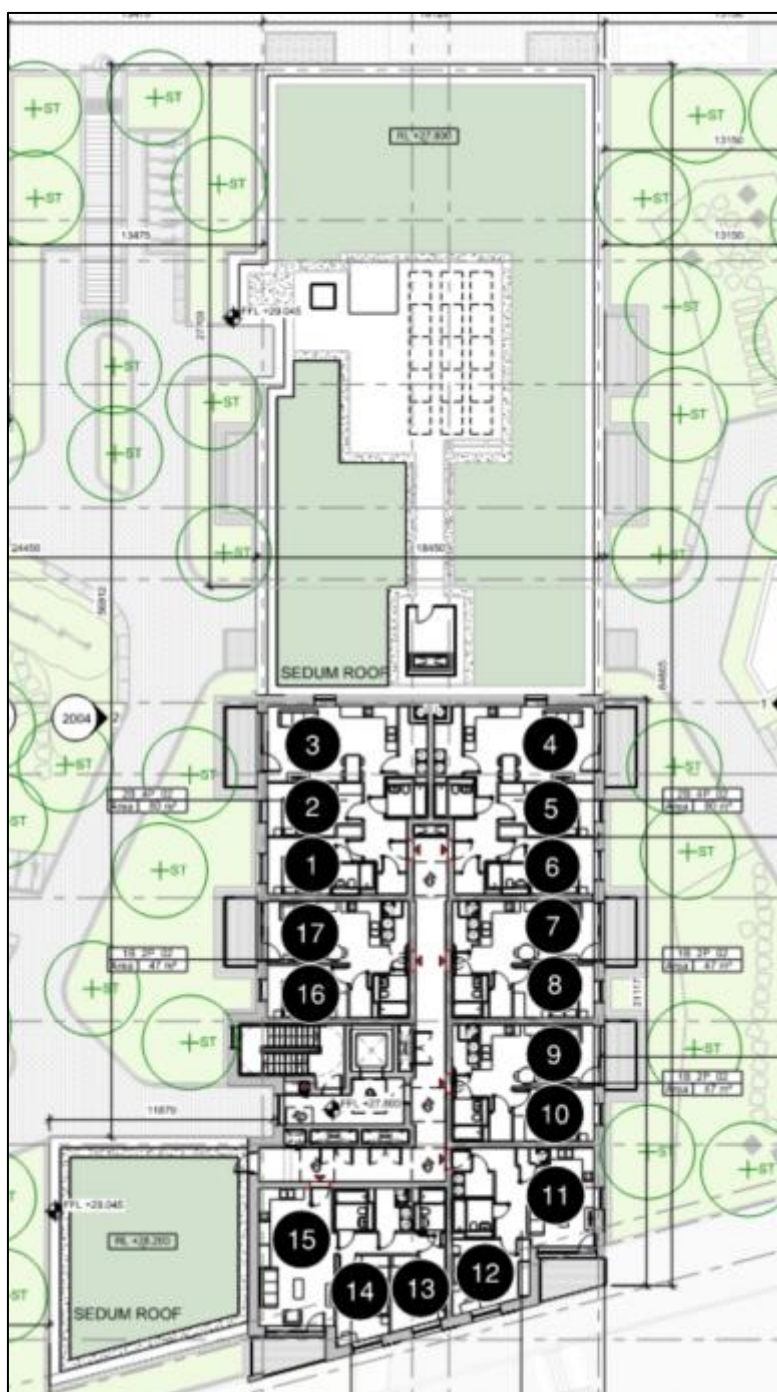
Legends*Figure 35: Block D2 Fifth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Bedroom	100%	Y	99%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	100%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	71%	Y
11	Bedroom	100%	Y	95%	Y
12	Bedroom	100%	Y	95%	Y
13	Liv/Din	100%	Y	100%	Y
14	Liv/Din	100%	Y	83%	Y
15	Bedroom	100%	Y	100%	Y
16	Bedroom	100%	Y	100%	Y
17	Liv/Din	100%	Y	80%	Y
18	Bedroom	100%	Y	88%	Y
19	Liv/Din	100%	Y	99%	Y
20	Bedroom	100%	Y	95%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
21	Liv/Din	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Liv/Din	100%	Y	100%	Y
28	Bedroom	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y
30	Bedroom	100%	Y	94%	Y
31	Liv/Din	100%	Y	74%	Y
32	Bedroom	100%	Y	96%	Y
33	Bedroom	100%	Y	92%	Y
34	Liv/Din	100%	Y	77%	Y
35	Liv/Din	100%	Y	99%	Y
36	Bedroom	100%	Y	91%	Y
37	Bedroom	100%	Y	94%	Y
38	Liv/Din	100%	Y	67%	Y
39	Bedroom	100%	Y	100%	Y

Table 32: BR209 Methodology Results (Block D2 Fifth Floor)

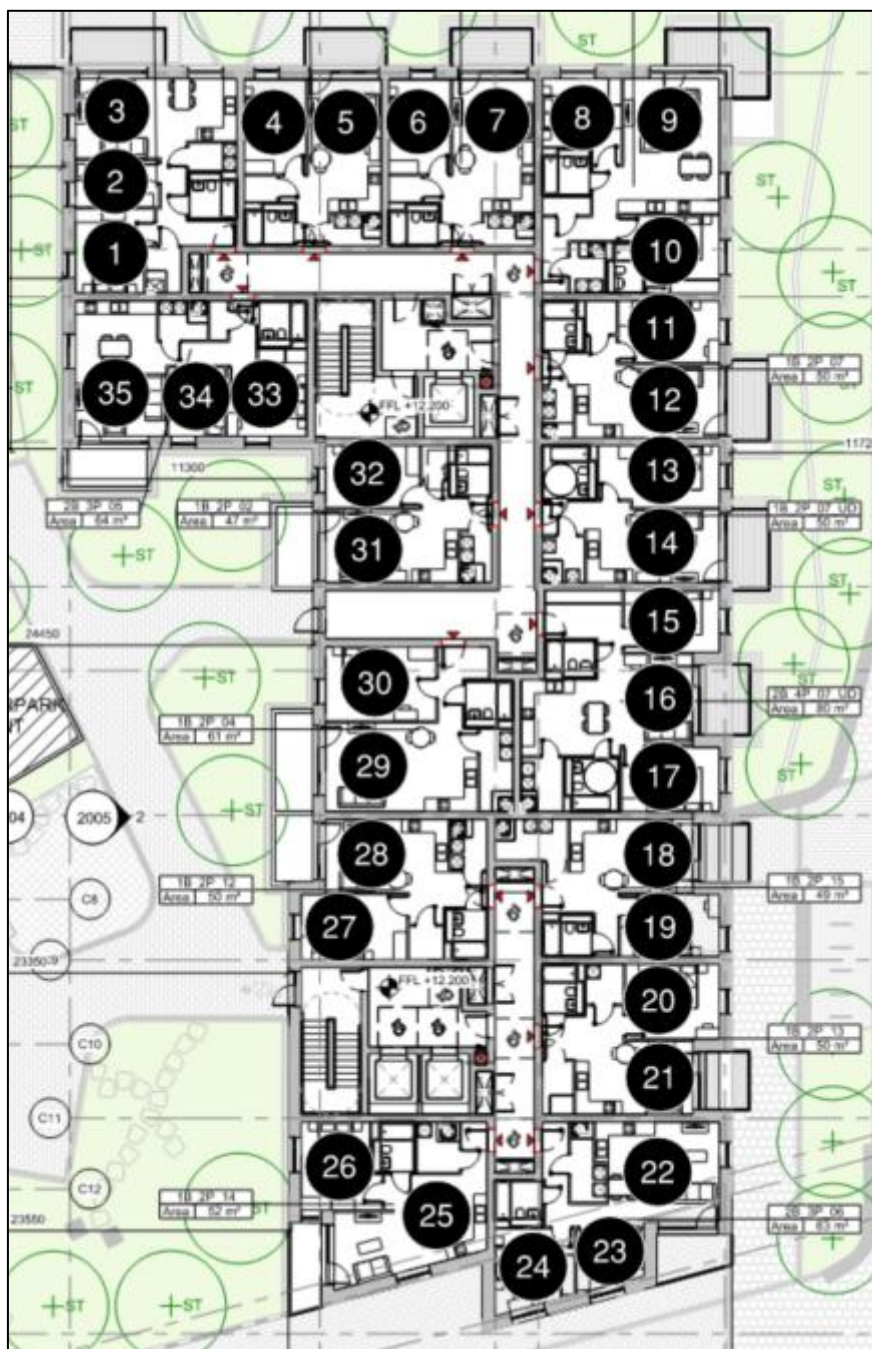
Legends*Figure 36: Block D2 Sixth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Liv/Din	100%	Y	98%	Y
5	Bedroom	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	96%	Y
8	Bedroom	100%	Y	96%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
9	Liv/Din	100%	Y	97%	Y
10	Bedroom	100%	Y	90%	Y
11	Liv/Din	98%	Y	67%	Y
12	Bedroom	100%	Y	56%	Y
13	Bedroom	100%	Y	49%	N
14	Bedroom	100%	Y	57%	Y
15	Liv/Din	100%	Y	62%	Y

Table 33: BR209 Methodology Results (Block D2 Sixth Floor)

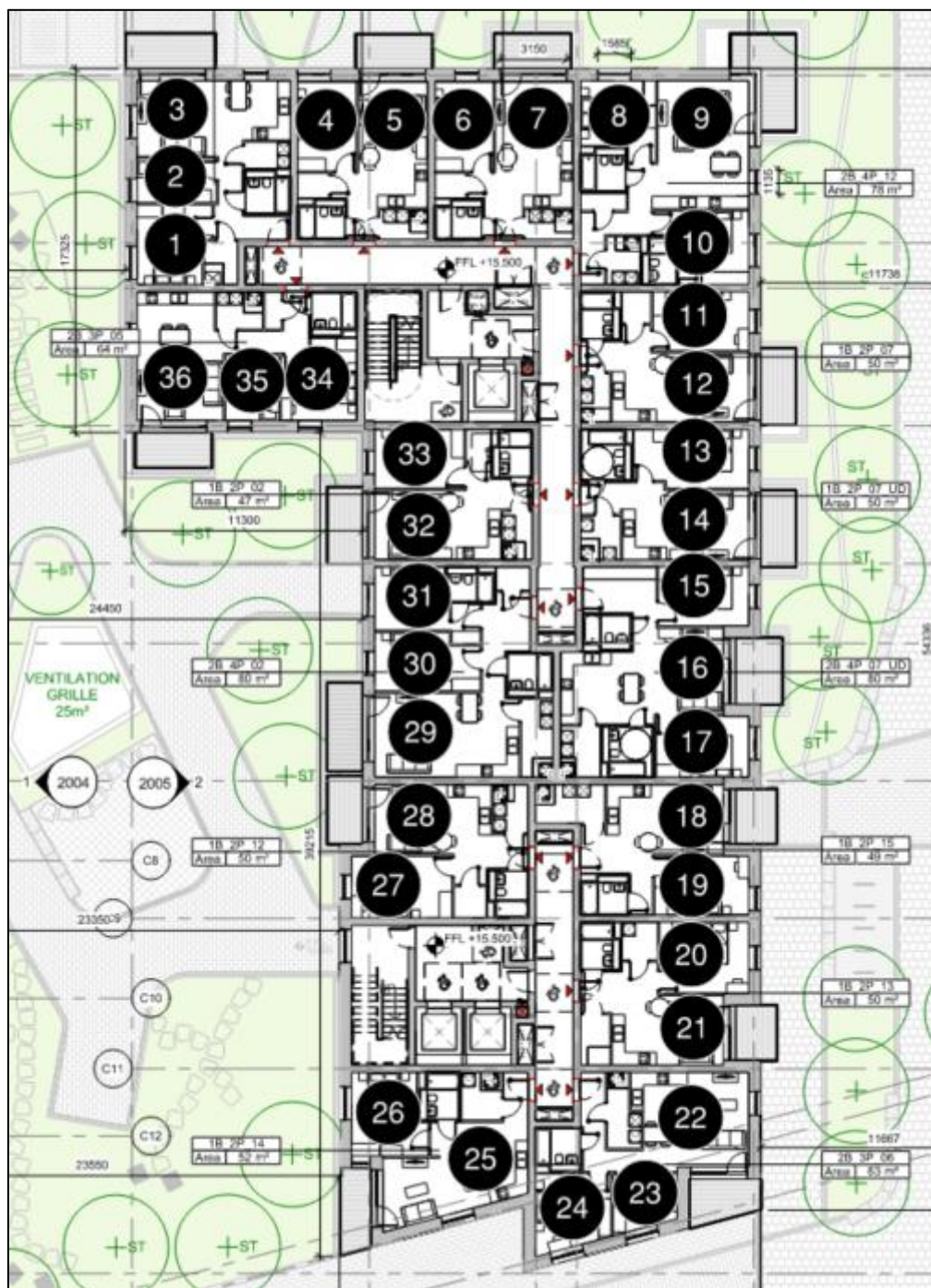
Legends*Figure 37: Block D3 First Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	39%	N
2	Bedroom	100%	Y	80%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	64%	Y
5	Liv/Din	100%	Y	77%	Y
6	Bedroom	100%	Y	79%	Y
7	Liv/Din	100%	Y	99%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	100%	Y
11	Bedroom	100%	Y	97%	Y
12	Liv/Din	100%	Y	89%	Y
13	Bedroom	100%	Y	91%	Y
14	Liv/Din	100%	Y	86%	Y
15	Bedroom	100%	Y	89%	Y
16	Liv/Din	99%	Y	58%	Y
17	Bedroom	100%	Y	94%	Y
18	Liv/Din	100%	Y	91%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	92%	Y
20	Bedroom	100%	Y	86%	Y
21	Liv/Din	100%	Y	99%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	54%	Y
28	Liv/Din	100%	Y	67%	Y
29	Liv/Din	100%	Y	51%	Y
30	Bedroom	96%	Y	34%	N
31	Liv/Din	92%	N	37%	N
32	Bedroom	93%	N	25%	N
33	Bedroom	100%	Y	95%	Y
34	Bedroom	100%	Y	100%	Y
35	Liv/Din	100%	Y	100%	Y

Table 34: BR209 Methodology Results (Block D3 First Floor)

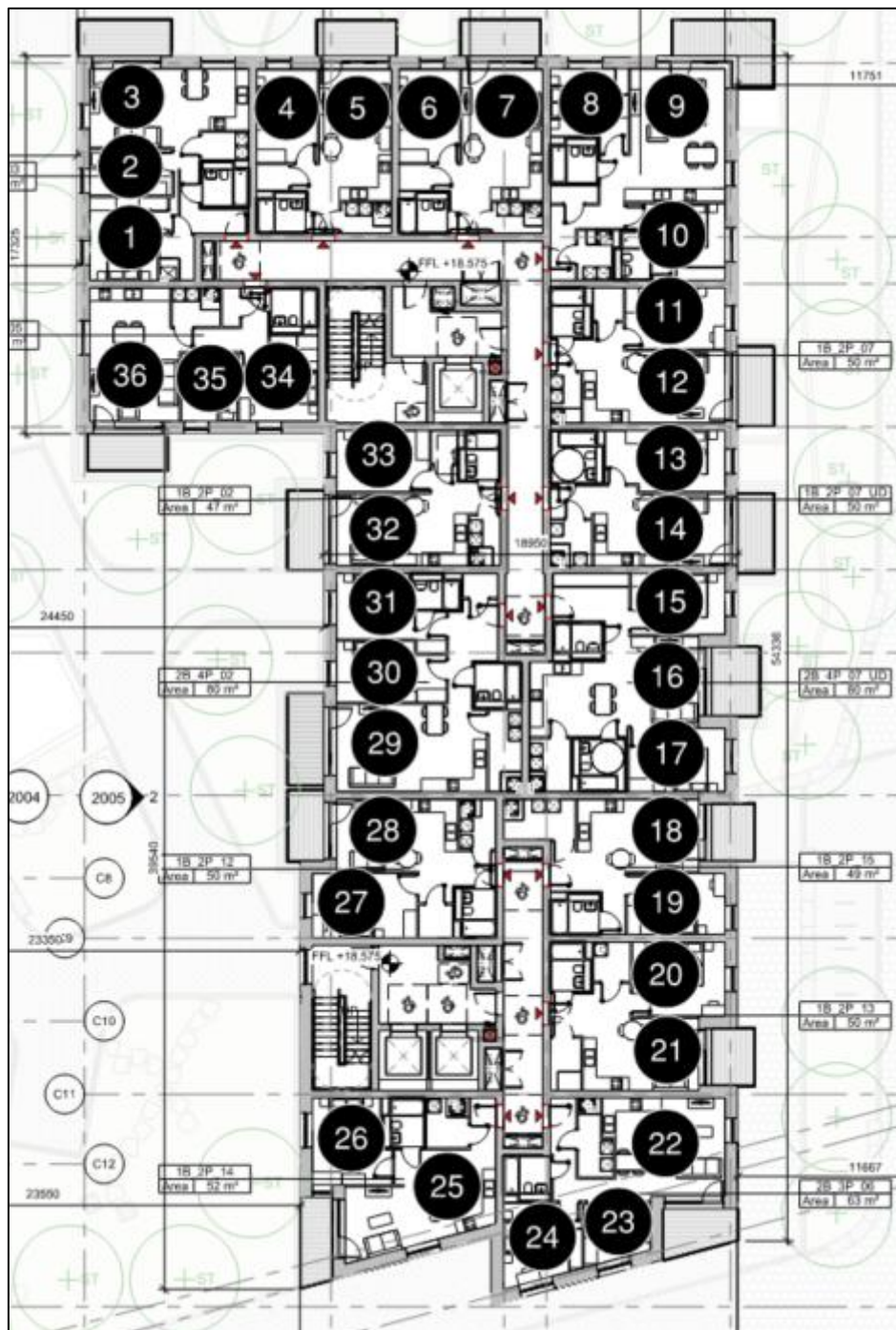
Legends*Figure 38: Block D3 Second Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	70%	Y
2	Bedroom	100%	Y	93%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	93%	Y
5	Liv/Din	100%	Y	75%	Y
6	Bedroom	100%	Y	95%	Y
7	Liv/Din	100%	Y	92%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	88%	Y
13	Bedroom	100%	Y	93%	Y
14	Liv/Din	100%	Y	89%	Y
15	Bedroom	100%	Y	90%	Y
16	Liv/Din	100%	Y	59%	Y
17	Bedroom	100%	Y	97%	Y
18	Liv/Din	100%	Y	90%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	95%	Y
20	Bedroom	100%	Y	94%	Y
21	Liv/Din	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	64%	Y
28	Liv/Din	100%	Y	57%	Y
29	Liv/Din	100%	Y	56%	Y
30	Bedroom	100%	Y	58%	Y
31	Bedroom	100%	Y	76%	Y
32	Liv/Din	100%	Y	51%	Y
33	Bedroom	100%	Y	46%	N
34	Bedroom	100%	Y	97%	Y
35	Bedroom	100%	Y	100%	Y
36	Liv/Din	100%	Y	100%	Y

Table 35: BR209 Methodology Results (Block D3 Second Floor)

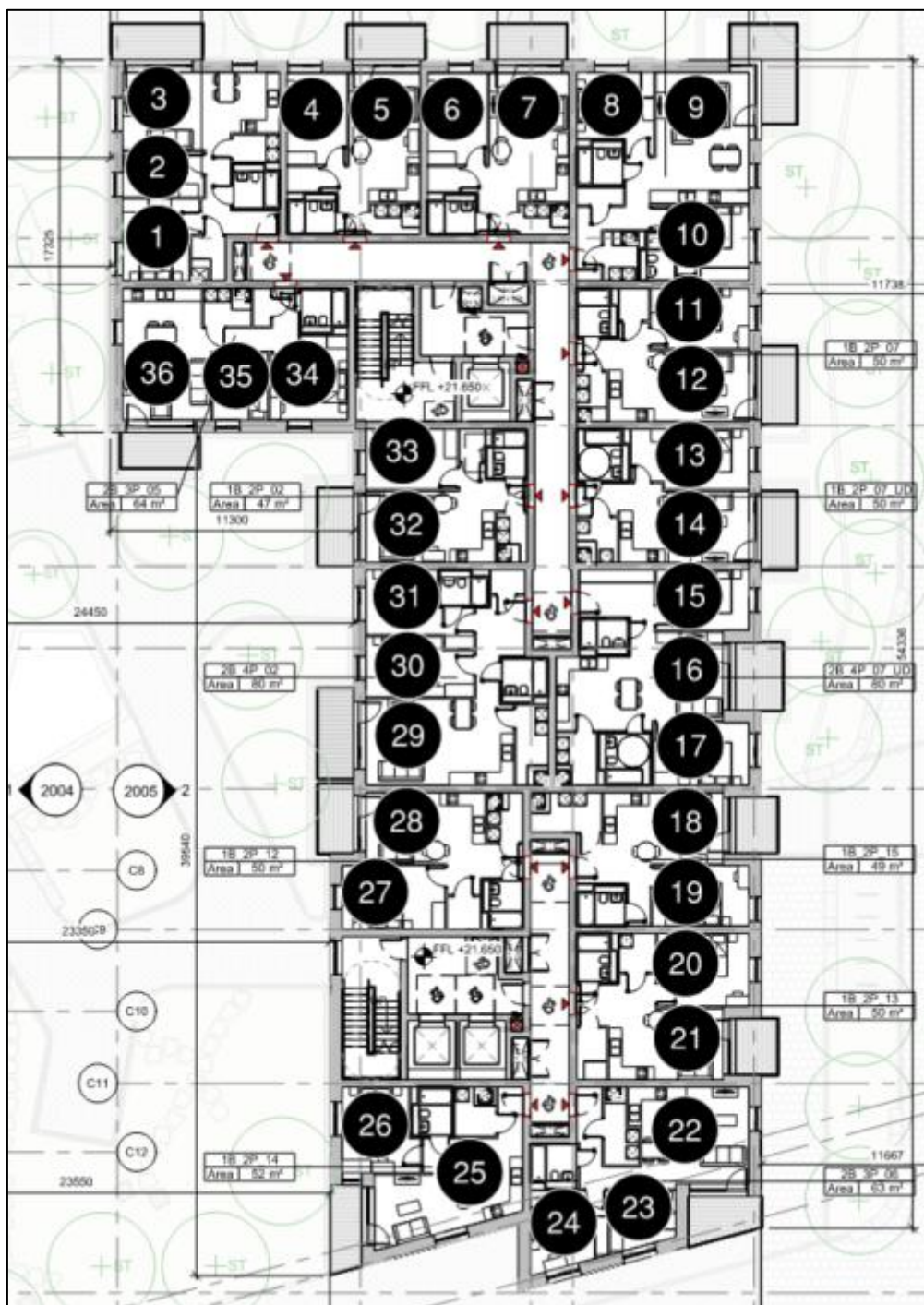
Legends*Figure 39: Block D3 Third Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	58%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	82%	Y
5	Liv/Din	100%	Y	82%	Y
6	Bedroom	100%	Y	91%	Y
7	Liv/Din	100%	Y	99%	Y
8	Bedroom	100%	Y	97%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	89%	Y
13	Bedroom	100%	Y	97%	Y
14	Liv/Din	100%	Y	92%	Y
15	Bedroom	100%	Y	96%	Y
16	Liv/Din	100%	Y	71%	Y
17	Bedroom	100%	Y	99%	Y
18	Liv/Din	100%	Y	95%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	98%	Y
20	Bedroom	100%	Y	97%	Y
21	Liv/Din	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	64%	Y
28	Liv/Din	100%	Y	65%	Y
29	Liv/Din	100%	Y	56%	Y
30	Bedroom	100%	Y	67%	Y
31	Bedroom	100%	Y	89%	Y
32	Liv/Din	100%	Y	60%	Y
33	Bedroom	100%	Y	60%	Y
34	Bedroom	100%	Y	100%	Y
35	Bedroom	100%	Y	100%	Y
36	Liv/Din	100%	Y	100%	Y

Table 36: BR209 Methodology Results (Block D3 Third Floor)

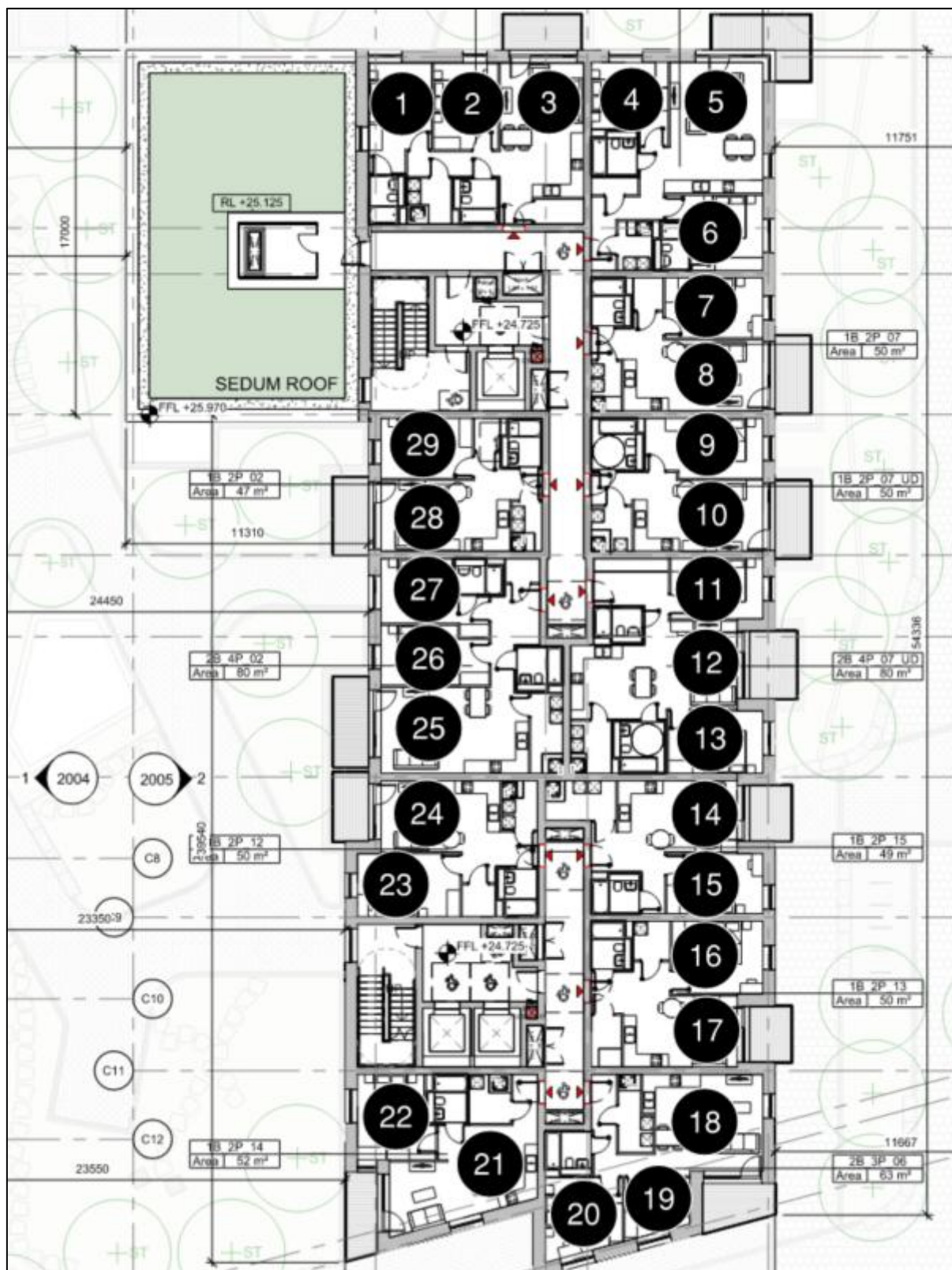
Legends*Figure 40: Block D3 Fourth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	97%	Y
2	Bedroom	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	98%	Y
5	Liv/Din	100%	Y	99%	Y
6	Bedroom	100%	Y	100%	Y
7	Liv/Din	100%	Y	97%	Y
8	Bedroom	100%	Y	100%	Y
9	Liv/Din	100%	Y	100%	Y
10	Bedroom	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	96%	Y
13	Bedroom	100%	Y	100%	Y
14	Liv/Din	100%	Y	100%	Y
15	Bedroom	100%	Y	91%	Y
16	Liv/Din	100%	Y	68%	Y
17	Bedroom	100%	Y	100%	Y
18	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
19	Bedroom	100%	Y	94%	Y
20	Bedroom	100%	Y	100%	Y
21	Liv/Din	100%	Y	100%	Y
22	Liv/Din	100%	Y	100%	Y
23	Bedroom	100%	Y	100%	Y
24	Bedroom	100%	Y	100%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	100%	Y
27	Bedroom	100%	Y	67%	Y
28	Liv/Din	100%	Y	78%	Y
29	Liv/Din	100%	Y	64%	Y
30	Bedroom	100%	Y	74%	Y
31	Bedroom	100%	Y	96%	Y
32	Liv/Din	100%	Y	75%	Y
33	Bedroom	100%	Y	75%	Y
34	Bedroom	100%	Y	100%	Y
35	Bedroom	100%	Y	100%	Y
36	Liv/Din	100%	Y	100%	Y

Table 37: BR209 Methodology Results (Block D3 Fourth Floor)

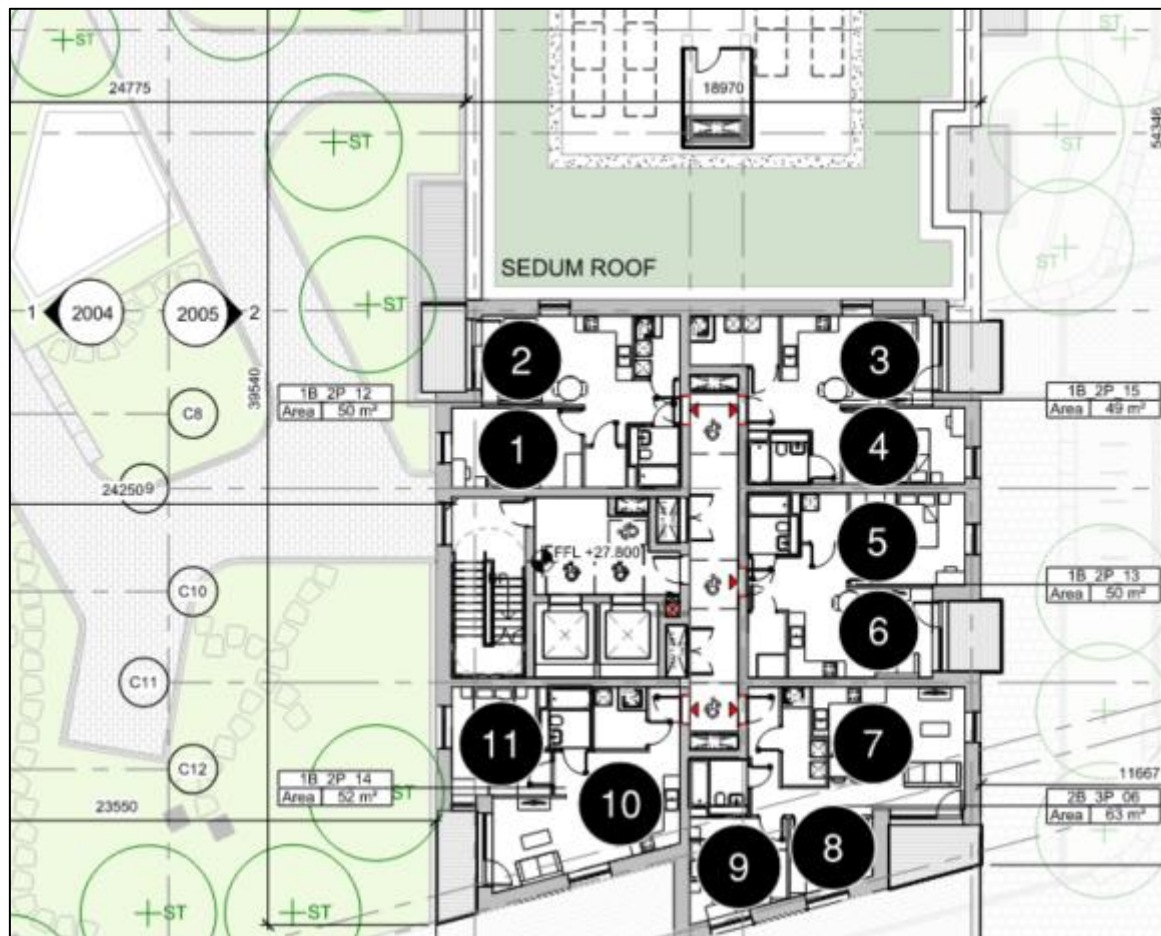
Legends*Figure 41: Block D3 Fifth Floor Legend*

Results

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Bedroom	100%	Y	97%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	100%	Y
5	Liv/Din	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y
8	Liv/Din	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y
12	Liv/Din	100%	Y	100%	Y
13	Bedroom	100%	Y	100%	Y
14	Liv/Din	100%	Y	100%	Y
15	Bedroom	100%	Y	98%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
16	Bedroom	100%	Y	100%	Y
17	Bedroom	100%	Y	100%	Y
18	Liv/Din	100%	Y	100%	Y
19	Bedroom	100%	Y	100%	Y
20	Bedroom	100%	Y	100%	Y
21	Liv/Din	100%	Y	100%	Y
22	Bedroom	100%	Y	100%	Y
23	Bedroom	100%	Y	69%	Y
24	Liv/Din	100%	Y	87%	Y
25	Liv/Din	100%	Y	100%	Y
26	Bedroom	100%	Y	98%	Y
27	Bedroom	100%	Y	97%	Y
28	Liv/Din	100%	Y	100%	Y
29	Bedroom	100%	Y	100%	Y

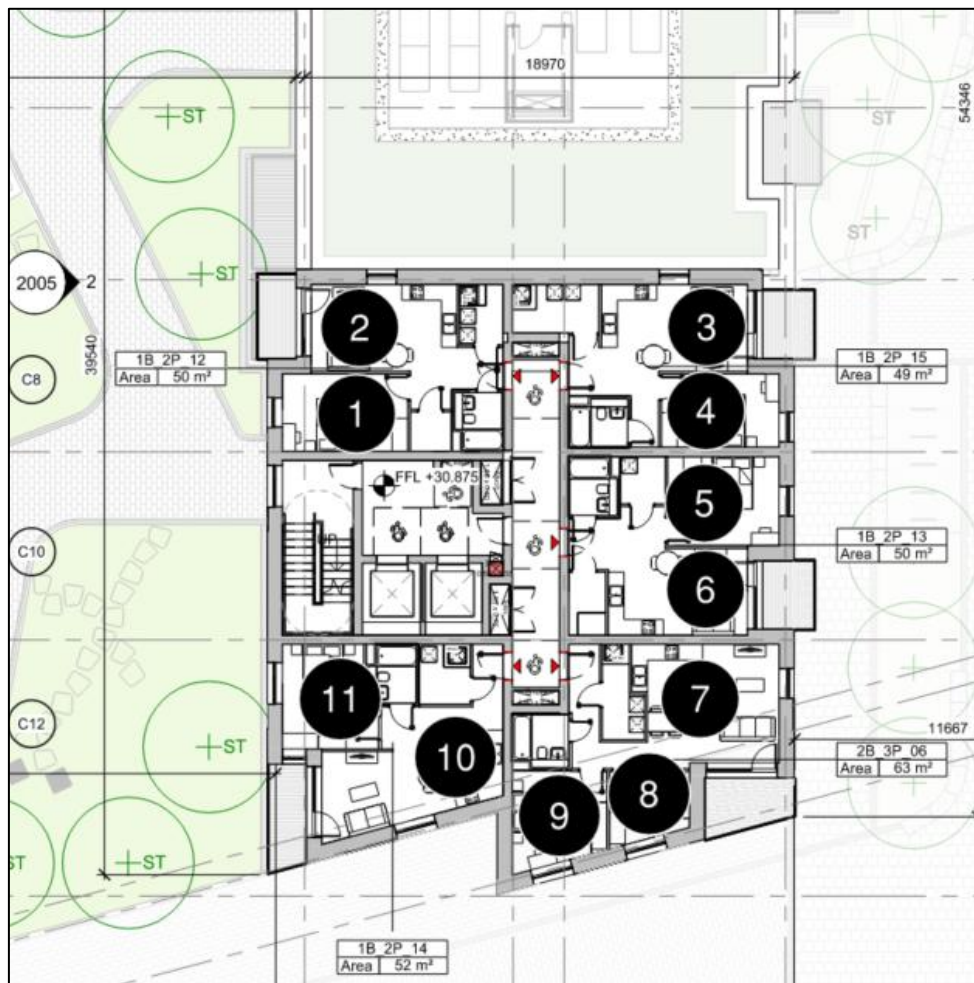
Table 38: BR209 Methodology Results (Block D3 Fifth Floor)

Legends*Figure 42: Block D3 Sixth Floor Legend***Results**

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	83%	Y
2	Liv/Din	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	100%	Y
5	Bedroom	100%	Y	97%	Y
6	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
7	Liv/Din	100%	Y	100%	Y
8	Bedroom	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y

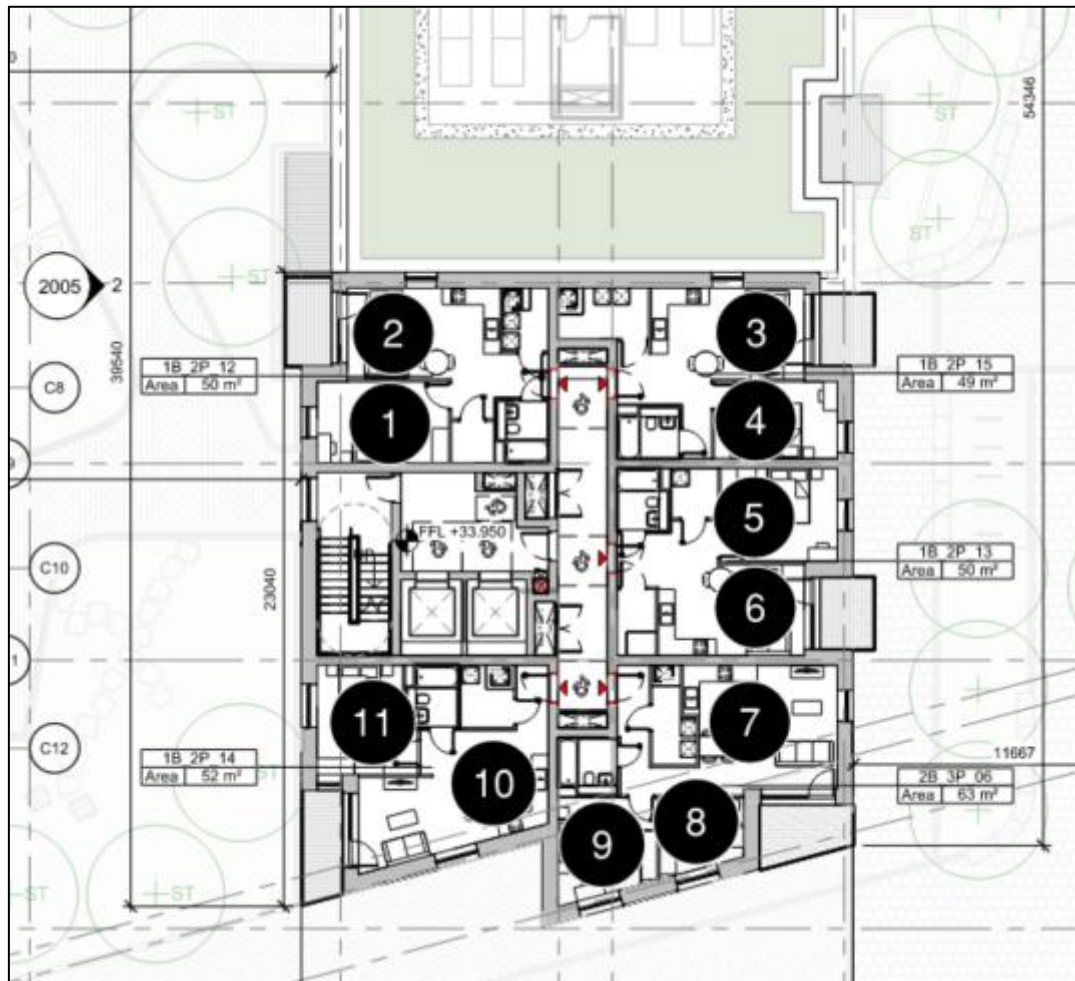
Table 39: BR209 Methodology Results (Block D3 Sixth Floor)

Legends*Figure 43: Block D3 Seventh Floor Legend***Results**

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	94%	Y
5	Bedroom	100%	Y	99%	Y
6	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
7	Liv/Din	100%	Y	100%	Y
8	Bedroom	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y

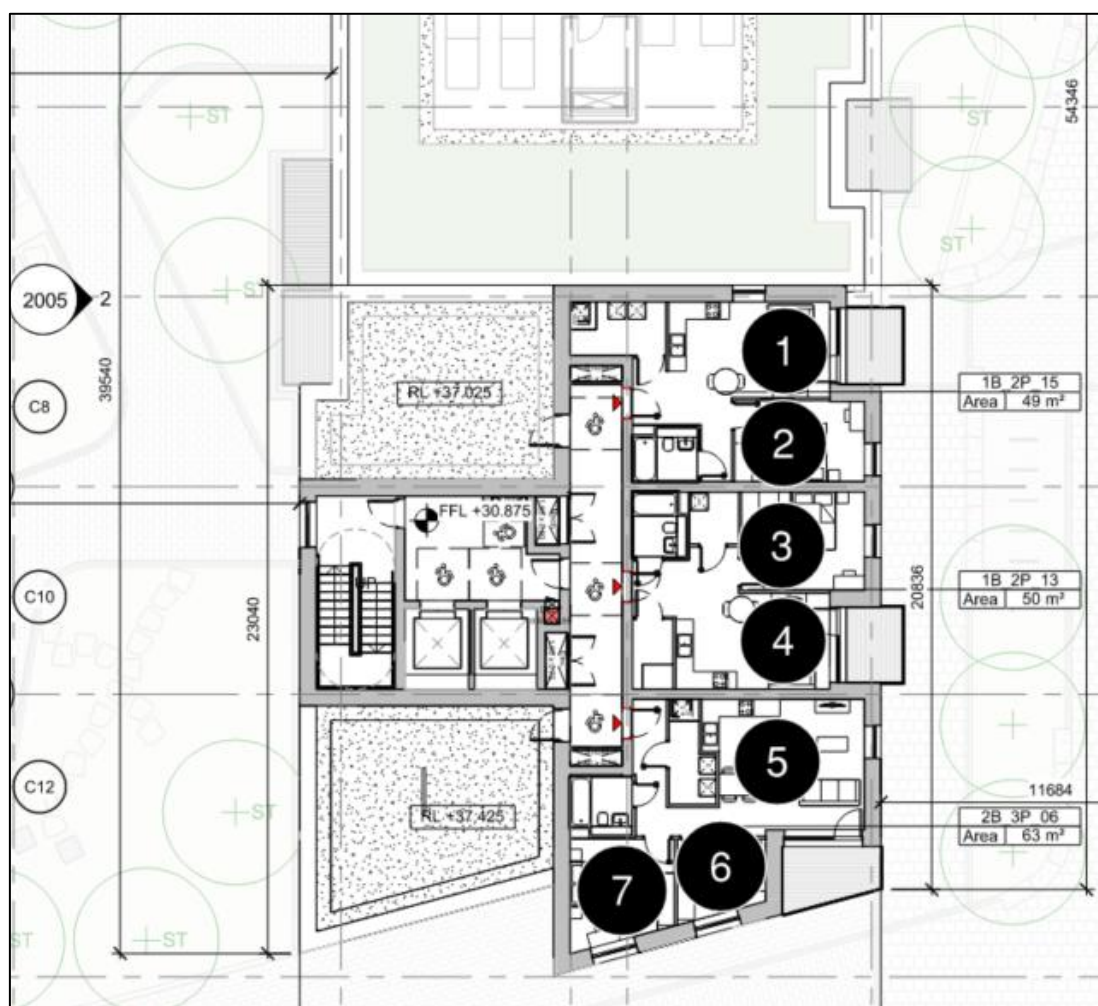
Table 40: BR209 Methodology Results (Block D3 Seventh Floor)

Legends*Figure 44: Block D3 Eighth Floor Legend***Results**

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
1	Bedroom	100%	Y	100%	Y
2	Liv/Din	100%	Y	100%	Y
3	Liv/Din	100%	Y	100%	Y
4	Bedroom	100%	Y	98%	Y
5	Bedroom	100%	Y	100%	Y
6	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at ≥ 95% @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at ≥ 50% @300lux)	2022 Methodology Criterion 2 Compliance
7	Liv/Din	100%	Y	100%	Y
8	Bedroom	100%	Y	100%	Y
9	Bedroom	100%	Y	100%	Y
10	Liv/Din	100%	Y	100%	Y
11	Bedroom	100%	Y	100%	Y

Table 41: BR209 Methodology Results (Block D3 Eighth Floor)

Legends*Figure 45: Block D3 Ninth Floor Legend***Results**

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at $\geq 95\%$ @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at $\geq 50\%$ @300lux)	2022 Methodology Criterion 2 Compliance
1	Liv/Din	100%	Y	100%	Y
2	Bedroom	100%	Y	100%	Y
3	Bedroom	100%	Y	96%	Y
4	Liv/Din	100%	Y	100%	Y

Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at $\geq 95\%$ @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at $\geq 50\%$ @300lux)	2022 Methodology Criterion 2 Compliance
5	Liv/Din	100%	Y	100%	Y
6	Bedroom	100%	Y	100%	Y
7	Bedroom	100%	Y	100%	Y

Table 42: BR209 Methodology Results (Block D3 Ninth Floor)

6 SUNLIGHT & OVERSHADOWING ASSESSMENT TO AMENITY SPACES WITHIN THE DEVELOPMENT

BRE Guide recommends that for external amenity spaces to appear adequately sunlit throughout the year, at least half of the garden or amenity space should receive at least two hours of sunlight on March 21st.

In order to show the sunlight levels within the proposed amended development, a sunlight study has been carried out for the amenity space surrounding the development.

SUNLIGHT COMMUNAL AMENITY SPACES

The BRE Guide section 3.3.16 outlines the following for gardens and open spaces:

"It is recommended that for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March."

In order to show that sunlight levels within the proposed amended development achieve compliance with current BRE Guide recommendations a sunlight study has been carried out for the proposed amended development.

The red squares in Figure 46 below illustrates the areas that receive a minimum of 2 hours of sunlight on the 21st of March for the proposed amended development. It is clear that the majority of the amenity space receives 2 hours or more of sunlight on March 21st.



Figure 46: Amenity Spaces - Hours of Sunlight on March 21st

Unit Ref.	Amenity Type	Area (m ²)	Area receiving over 2 hours of sunlight (m ²)	Portion of Amenity Space receiving ≥ 2 hours Sunlight on 21 st March (%)
1	Private	1566.57	1291.57	82.45%
2	Private	1357.82	1312.82	96.69%
3	Private	1750.42	1460.42	83.43%
4	Private	1707.91	1547.91	90.63%
5	Public	4932.89	4152.89	84.19%
Total		11315.61	9765.61	86.30%

Table 43: Amenity Space Sunlight Results

As seen in the table above, the overall amenity space areas comply with the BRE Guide, regarding sunlight recommendations, as they receive at least 2 hours of sunlight on March 21st.

7 SUNLIGHT ASSESSMENT WITHIN THE PROPOSED DEVELOPMENT (APSH)

In order to assess the amount of sunlight that is received by windows within the proposed amended development, the Annual Probable Sunlight Hours (APSH) calculation methods as outlined in BRE have been used.

BRE guidelines outline that in housing, the main requirement for sunlight is in living rooms, where it is valued at any time of the day but especially in the afternoon. BRE Guidelines also state that sunlight is less important in bedrooms and kitchens, however, all windows to occupied rooms within the development have been included within the analysis.

The sunlight values experienced across the development have been assessed against the BRE Guide. The BRE Guide methodology states that windows shall receive a minimum of 1.5 hours of direct sunlight on the test day, March 21st. The BRE methodology also sets out a standard for medium (3 hours), and high (4 hours) levels of direct sunlight.

It must be noted that the results within this report should be treated with a certain degree of flexibility, based on the following statement in the BRE Guide:

“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 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”.

In addition, BRE Guidelines states that “the degree of satisfaction is related to the expectation of sunlight. If a room is necessarily north facing or if the building is in a densely-built urban area, the absence of sunlight is more acceptable than when its exclusion seems arbitrary”.

SUNLIGHT ASSESSMENT

The sunlight values expected across the development are illustrated in the following images. Windows coloured red achieves the high, medium, or minimum standard as outlined in BRE Guide on March 21st.

The sunlight values experienced across the development as measured against the BRE Guide are illustrated in the following images. Windows coloured red in Figure 47 to Figure 50 achieve the minimum standard for sunlight on the test day of March 21st.

Element	Sunlight Assessment (BRE 3 rd Edition) Minimum Level
	Block A and D
Total Windows Passing	1388
Total No. of Windows Analysed	1741
Percentage of Compliance	79.72%

Table 44: Sunlight Analysis 3rd Edition Results (Window Specific Summary)

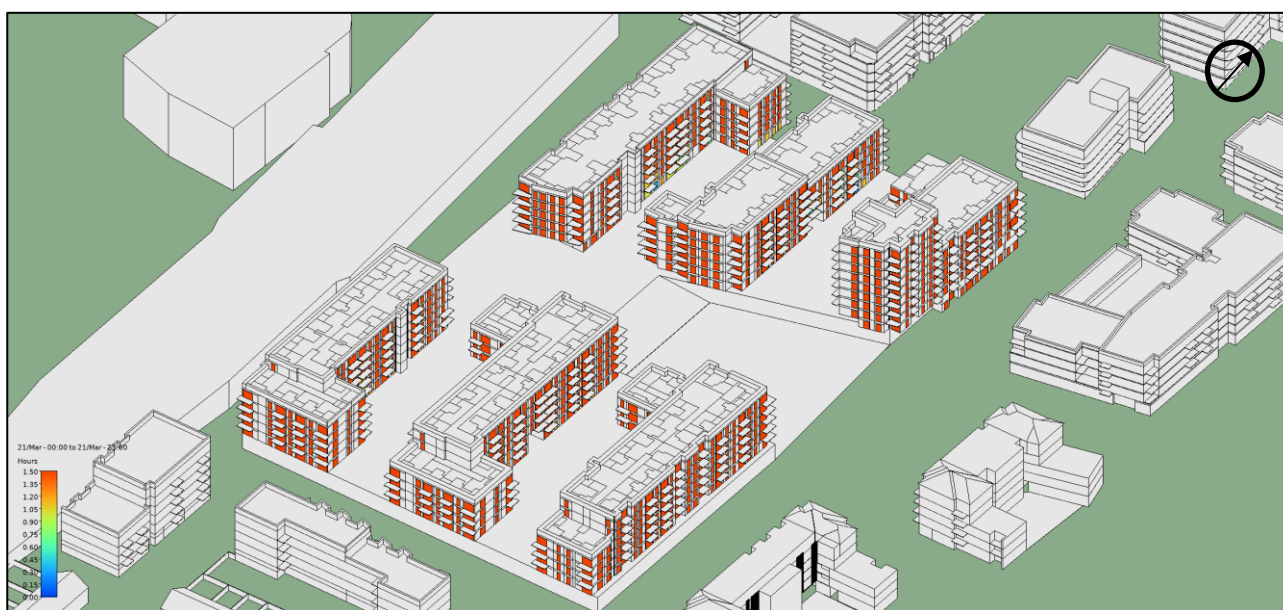


Figure 47: Sunlight Exposure March 21st (2022 Methodology Min Level) – SE Elevation

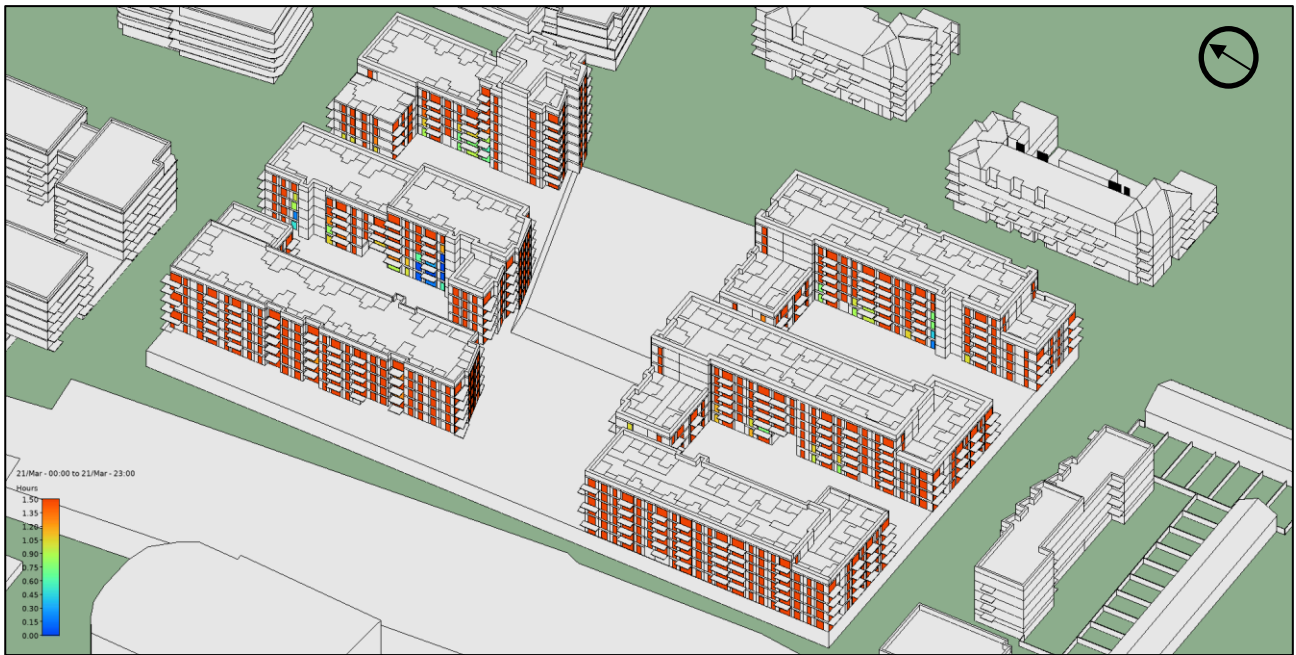


Figure 48: Sunlight Exposure March 21st (2022 Methodology Min Level) – SW Elevation



Figure 49: Sunlight Exposure March 21st (2022 Methodology Min Level) – NW Elevation

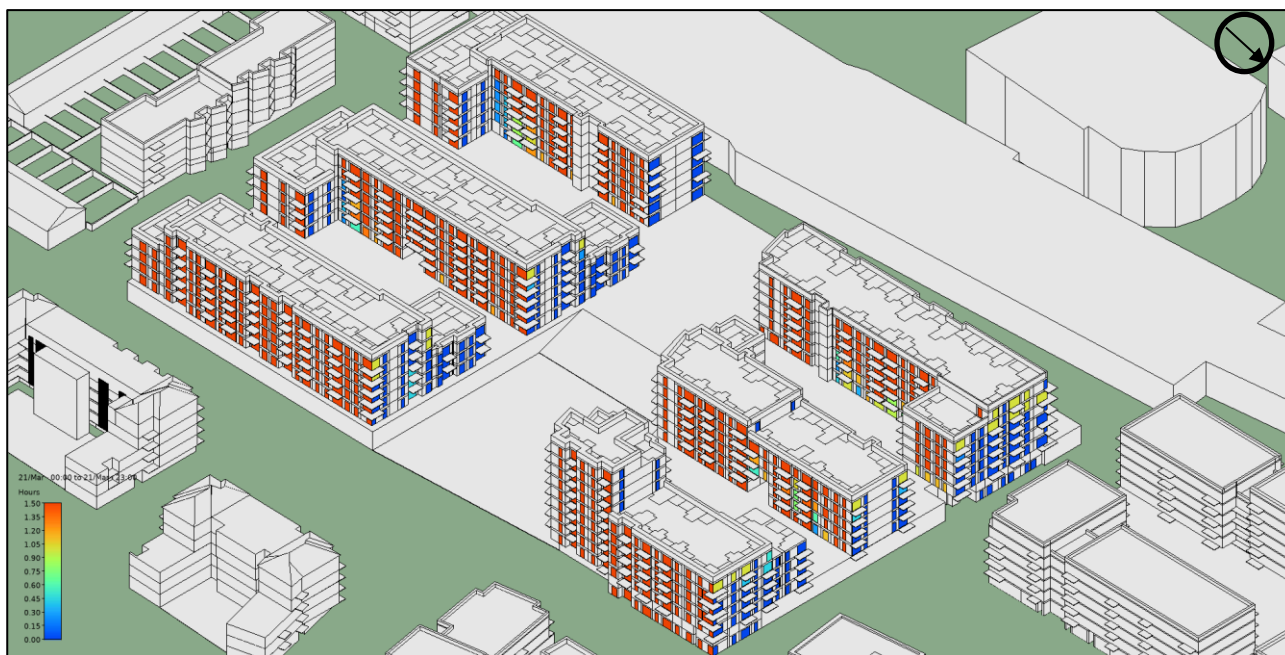


Figure 50: Sunlight Exposure March 21st (2022 Methodology Min Level) – NE Elevation



Figure 51: Sunlight Exposure March 21st (2022 Methodology Medium Level) – SE Elevation

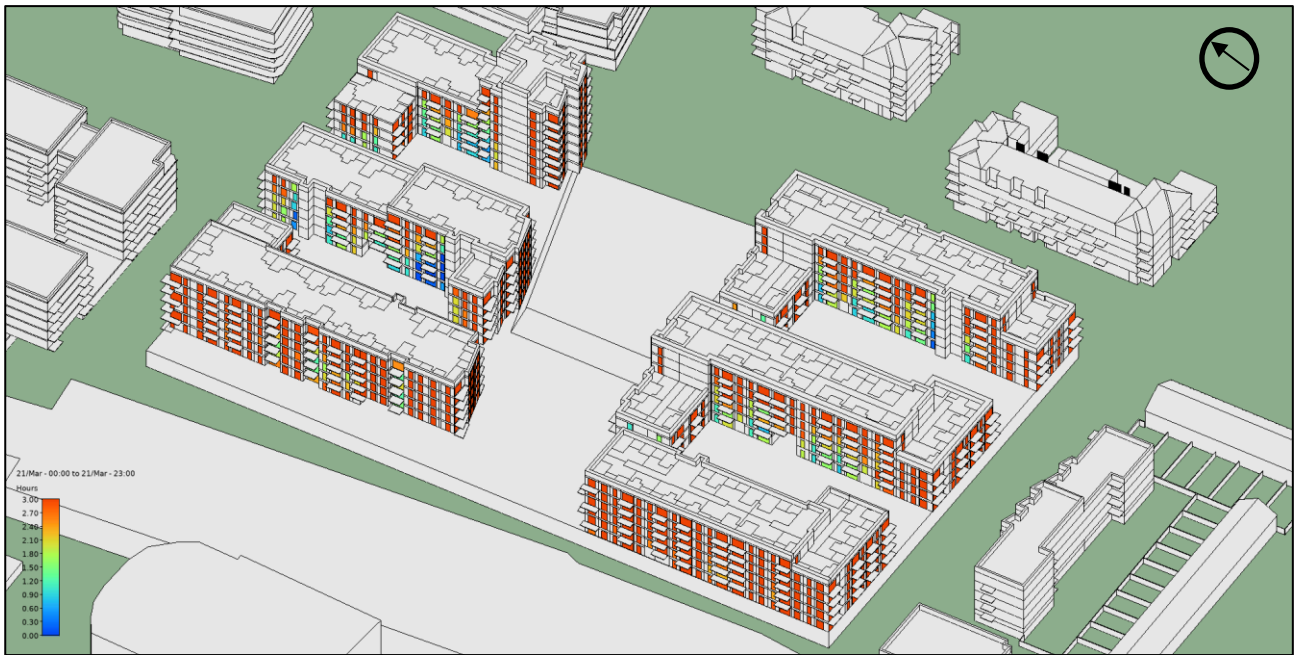


Figure 52: Sunlight Exposure March 21st (2022 Methodology Medium Level) – SW Elevation



Figure 53: Sunlight Exposure March 21st (2022 Methodology Medium Level) –NW Elevation

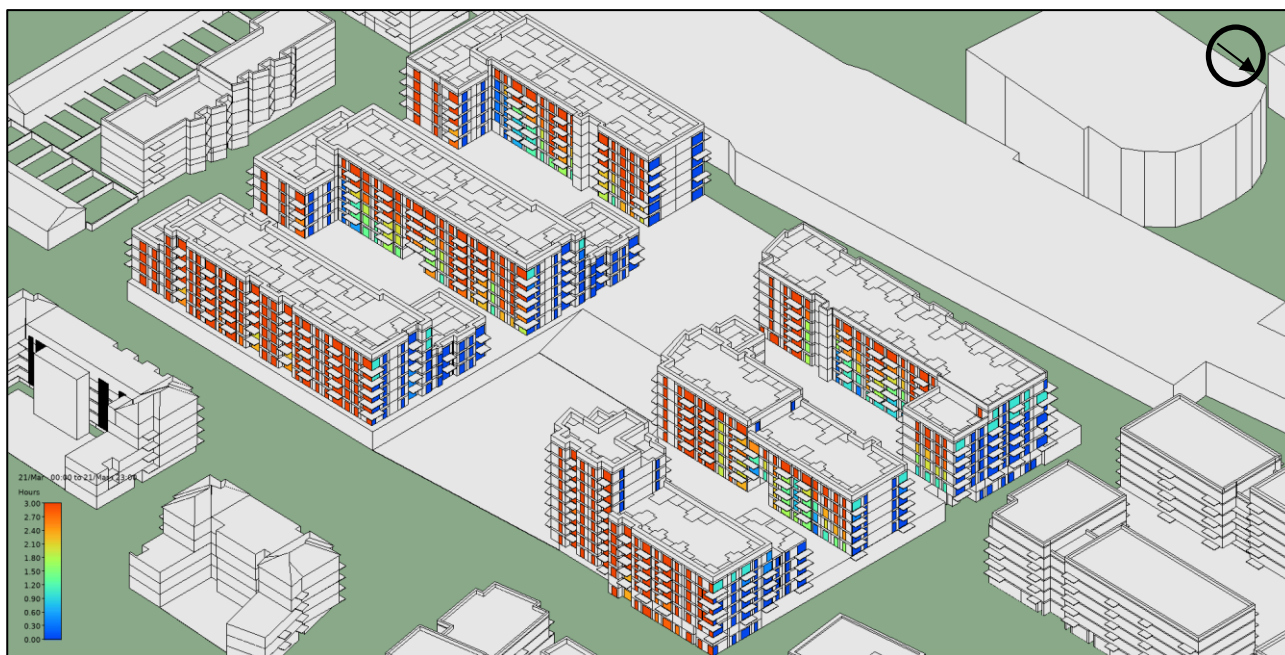


Figure 54: Sunlight Exposure March 21st (2022 Methodology Medium Level) – NE Elevation

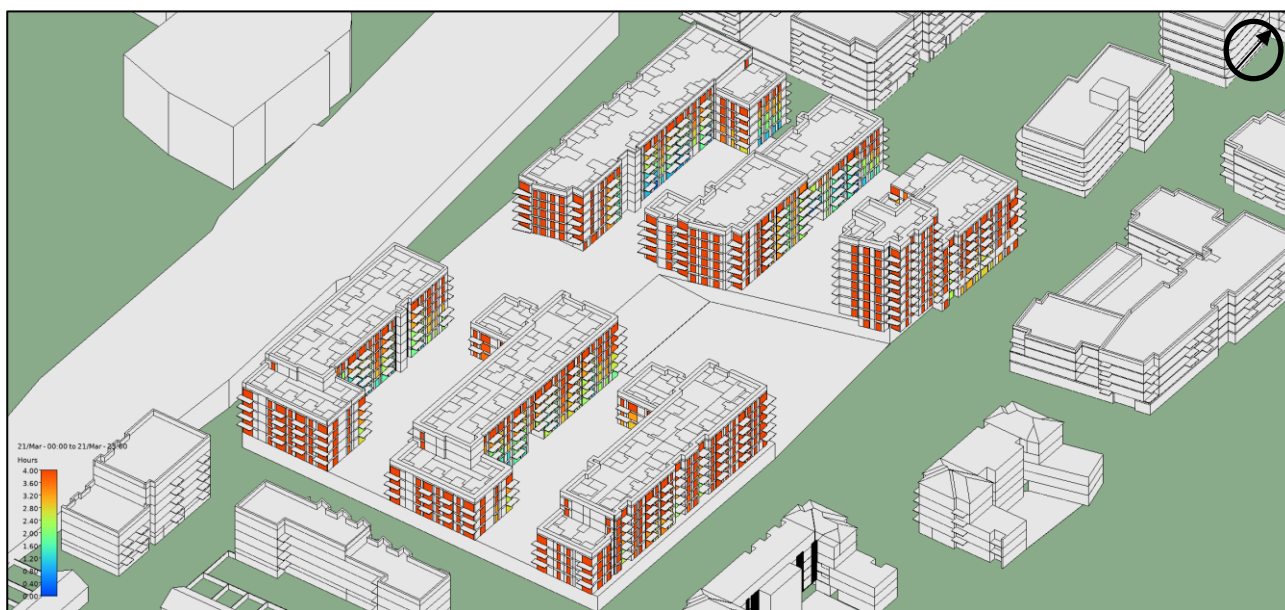


Figure 55: Sunlight Exposure March 21st (2022 Methodology High Level) – SE Elevation

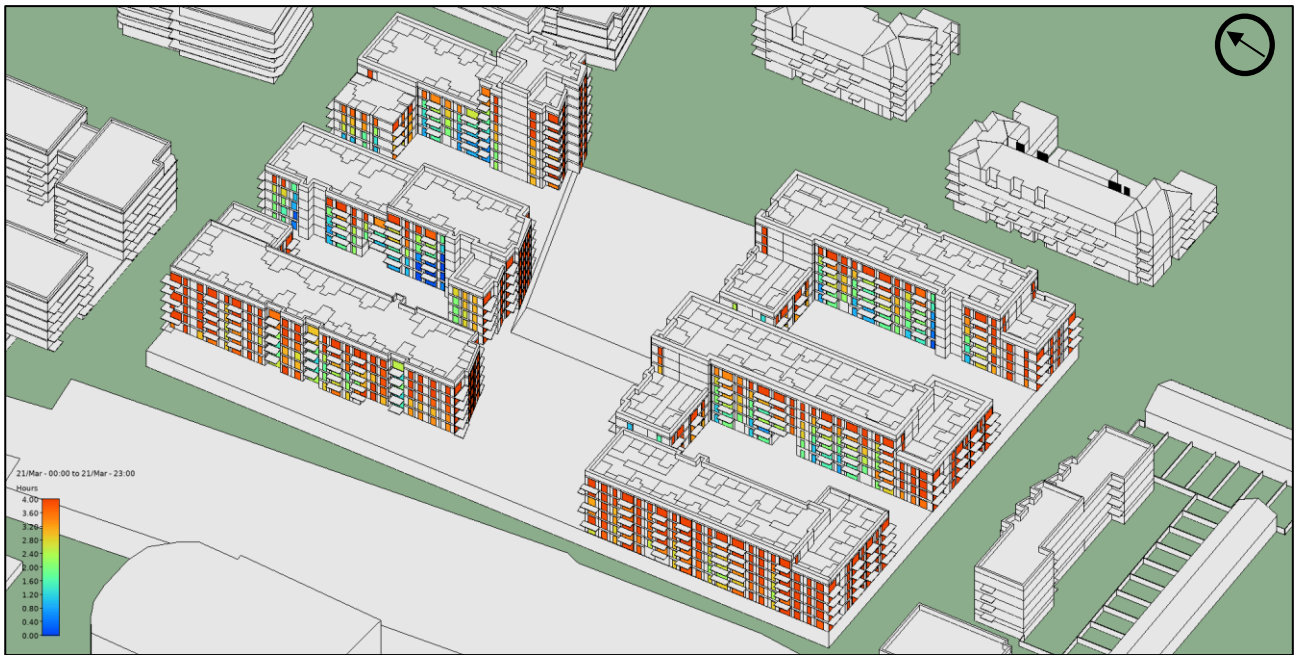


Figure 56: Sunlight Exposure March 21st (2022 Methodology High Level) – SW Elevation



Figure 57: Sunlight Exposure March 21st (2022 Methodology High Level) – NW Elevation

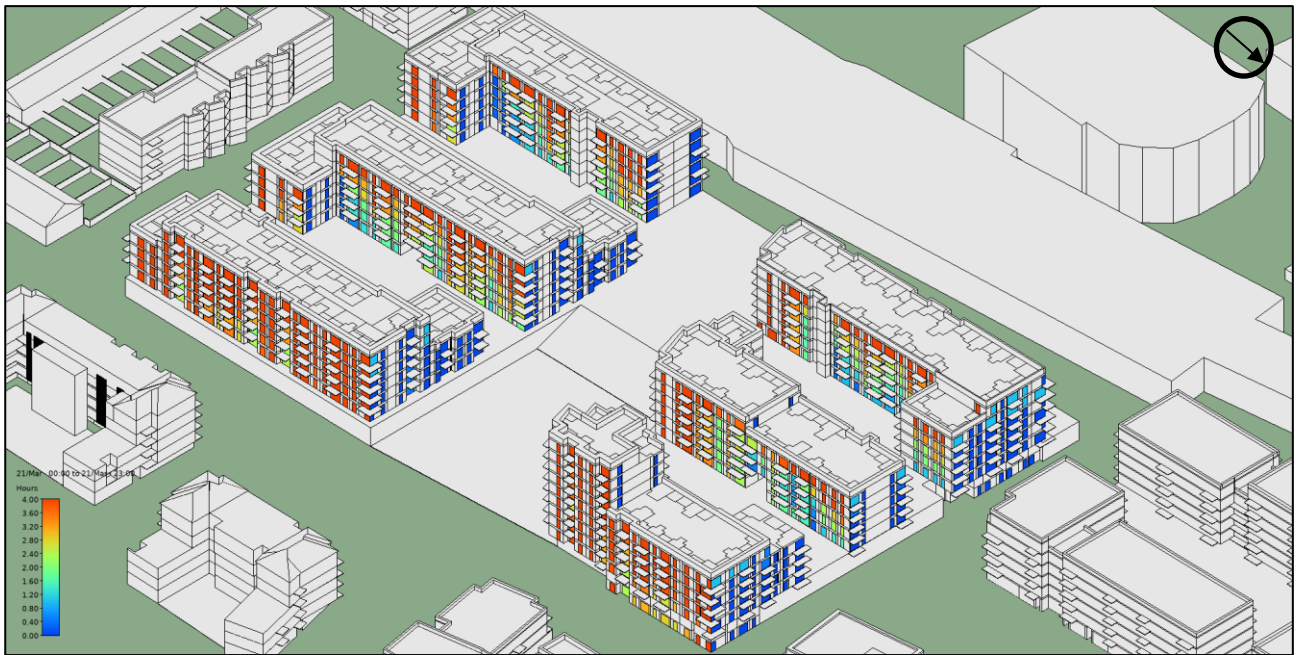


Figure 58: Sunlight Exposure March 21st (2022 Methodology High Level) – NE Elevation

It can be seen in the figures above that majority of the windows exceed the minimum values outlined in the BRE Guide. Of windows falling short of the BRE guidance is mainly due to the north facing orientation which naturally results in less sunlight exposure due to the path of the sun so exposing the remaining orientations to sunlight.

8 ASSESSING THE IMPACT ON SURROUNDING PROPERTIES

DAYLIGHT & SUNLIGHT IMPACT METHODOLOGY

As per the BRE guidelines it is important to safeguard the daylight to nearby buildings, from a proposed amended development, where a reasonable expectation of daylight is required. The flow matrix below outlines the criteria to be assessed, as per the BRE guidelines, in order to ascertain any potential impact to adjacent buildings from the proposed amended development.

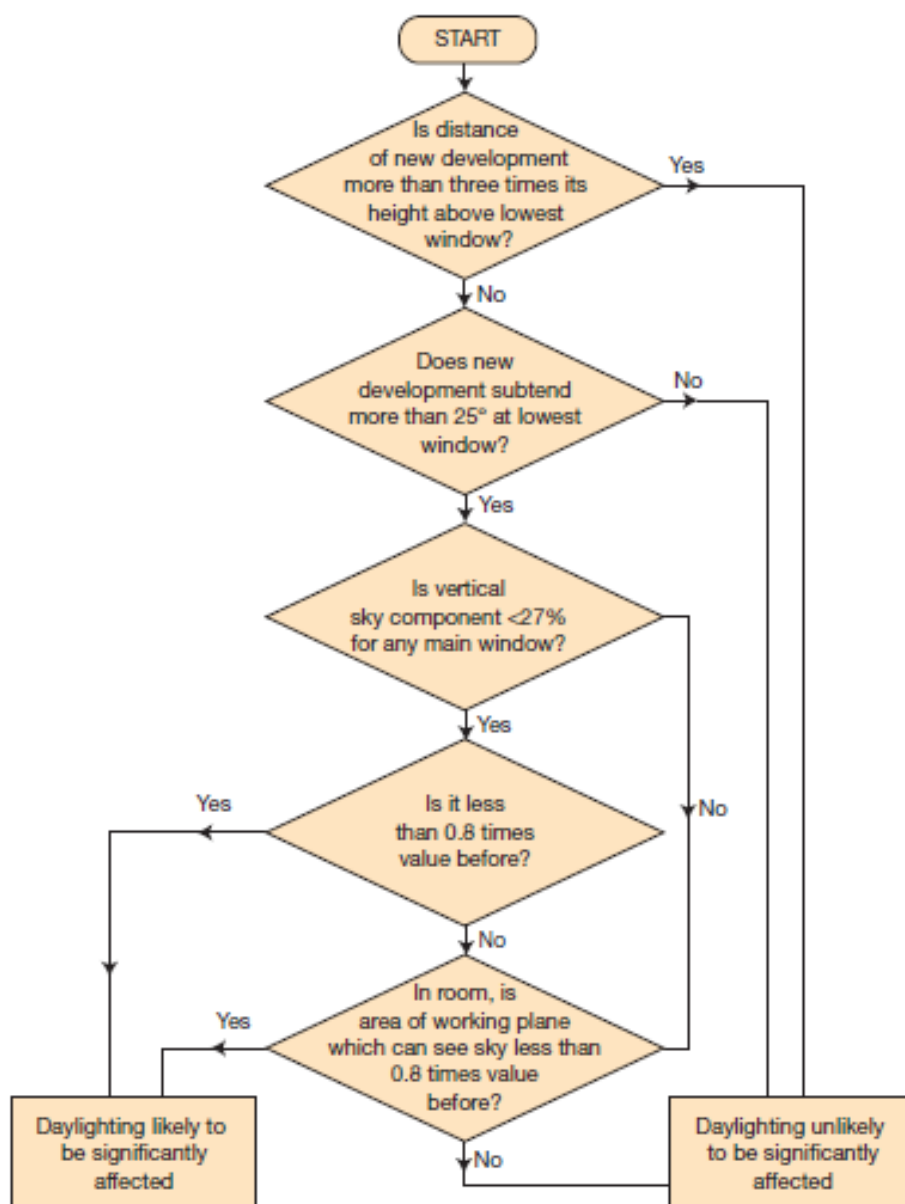


Figure 59: Daylight Assessment Methodology for Adjacent Properties

DISTANCE FROM THE PROPOSED DEVELOPMENT – STEP 1

As per the flow matrix, the loss of light to existing windows is not required to be analysed if the distance of each part of the new development from the existing window is three or more times its height above the centre of the existing windows. Otherwise, BRE guidelines provide the following methods for assessing daylight availability.

25° LINE CRITERIA – STEP 2

In the first instance, if a proposed development falls beneath a 25° angle taken from a point 1.6 metres above ground level from any adjacent properties, then the BRE Guide says that no further analysis is required in relation to impact on surrounding properties as adequate skylight will still be available. If the proposed development extends beyond the 25° line then further analysis is required (Step 3).

VERTICAL SKY COMPONENT – STEP 3

The following method is known as the Vertical Sky Component (VSC). The VSC calculation is the ratio of the direct sky illuminance falling on the outside of a window, to the simultaneous horizontal illuminance under an unobstructed sky. The BRE Guide sets out two guidelines for the VSC:

- If the VSC at the centre of the existing window exceeds 27% with the new development in place, then enough sky light should still be reaching the existing window;
- If the VSC with the new development in place is both less than 27% and less than 80% its former value, then the reduction in light to the window is likely to be noticeable;
- This means that even if the VSC is less than 27%, as long as the VSC value is still greater than 80% of its former value, this would be acceptable and thus the impact would be considered negligible.

It is important to note that the VSC is a simple geometrical calculation which provides an early indication of the potential for daylight entering the space. However, it does not assess or quantify the actual daylight levels inside the rooms. If the VSC standard is not met on any window, Step 4 is then followed.

NO SKY LINE – STEP 4

This method is the No Sky Line or Daylight Distribution Method. This method assesses the change in position of the No Sky Line between the existing and proposed situations. It does take into account the number and size of windows to a room, but still does not give any qualitative or quantitative assessment of the light in the room, only where sky can or cannot be seen. Thus, as this method is limited, Step 3 is considered more appropriate.

The next two sections on the following pages outline the details of the analysis undertaken in relation to adjacent properties.

IDENTIFYING SENSITIVE RECEPTORS

Prior to following the flow matrix, first the key sensitive receptors around the site need to be identified. According to the BRE Guide, sensitive receptors are described as:

- Habitable rooms in residential buildings, where the occupants have a reasonable expectation of daylight;
- Other sensitive receptors are gardens and open spaces on adjacent properties to the new scheme, excluding public footpaths, front gardens and car parks. In accordance with the BRE Guide, windows are selected as sensitive receptors on the basis of being a habitable room facing the proposed development.

The primary purpose of a daylight, sunlight and overshadowing assessment is to determine the likely loss of light to adjacent buildings resulting from the construction of the proposed development.

Therefore, in this case, the proposed amended development is identified as the potential source of impact. The sensitive receptors identified for this study are windows of habitable rooms facing the site where the occupants have a reasonable expectation of daylight. Table 45 identifies all sensitive receptors analysed, whilst Figure 60 identifies their location.

It should be noted that there are no existing buildings in the vicinity of the proposed amended development where daylight or sunlight levels are expected to be adversely affected by the proposed amended development.

Development Ref.	Development name	Status
Ref. 1	Block E1, Apartments	Permitted
Ref. 2	Block E2, Apartments	Permitted
Ref. 3	Block E4, Apartments	Permitted
Ref. 4	Block F1, Apartments	Permitted
Ref. 5	Block B2, Apartments	Permitted
Ref. 6	Block B1, Apartments	Permitted
Ref. 7	Block C2A, Apartments	Permitted
Ref. 8	Block C1A, Apartments	Permitted

Table 45: Sensitive Receptors Surrounding the Proposed Development

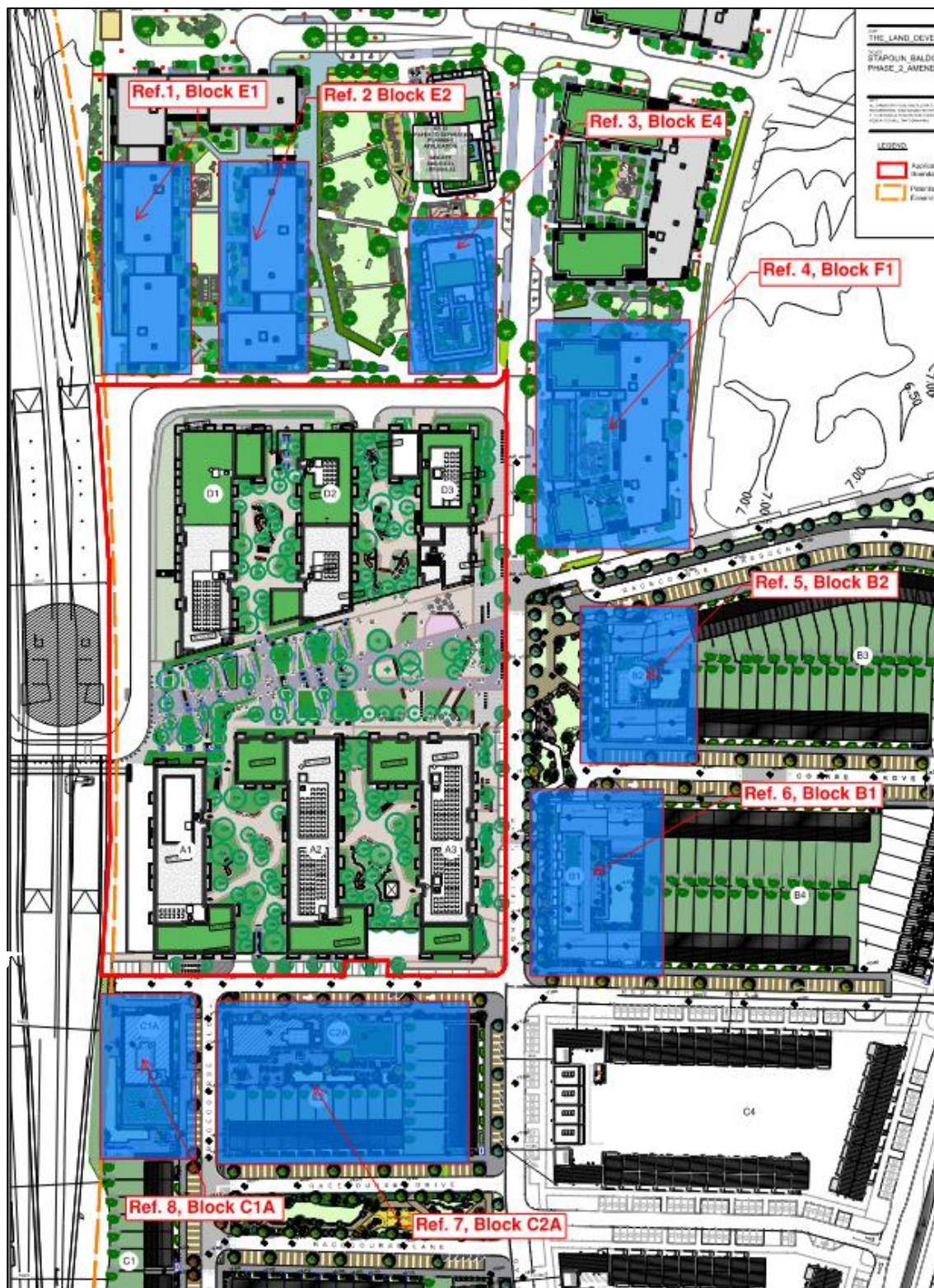


Figure 60: Location of Sensitive Receptors

DAYLIGHT IMPACT ON SURROUNDING PROPERTIES

25° line criteria

BRE guidelines state that if a proposed development falls beneath a 25° line taken from a point 1.6 metres above ground level from any adjacent properties, then no impact is perceived, and further analysis is not required. This methodology was followed for this analysis (to assess the impact of the reduction in block heights), as it was followed for the initial assessment for the permitted development.

As the sensitivity receptors fall above the 25° line (Step 2), a VSC assessment was then carried out (Step 3).

VSC > 27%

As previously outlined, sensitive receptor ref. 1 to 8 have been selected for VSC analysis. All the windows of adjacent properties were modelled to provide a comprehensive assessment of any perceived impact to the daylight levels of sensitive receptor ref. 1 to 8.

Since the VSC levels associated with the proposed amended development fall below 27% for certain spaces, a comparative assessment has been undertaken against the previously permitted scheme. This assessment seeks to determine whether the resulting VSC impacts accord with BRE guidelines and whether the amended proposals demonstrate equivalent or improved VSC performance relative to the permitted scheme.

Ref. 1

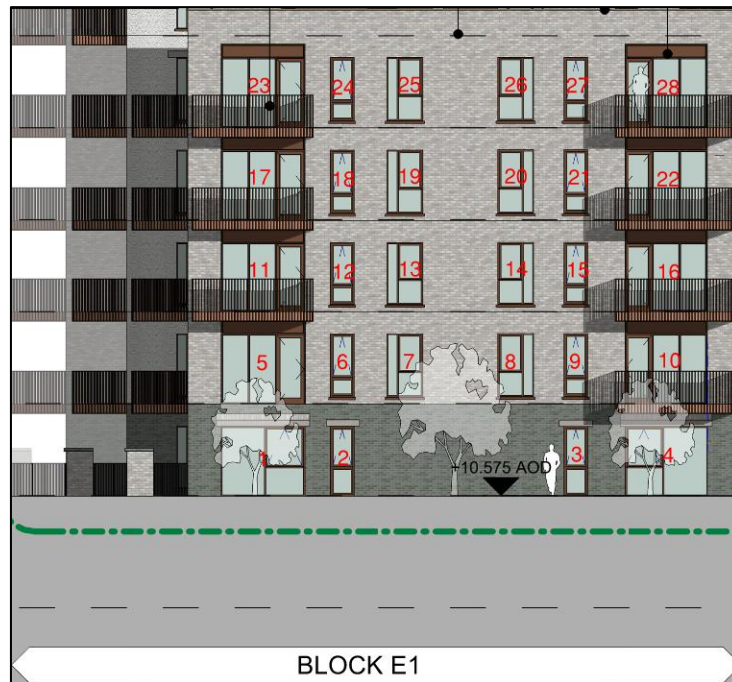


Figure 61: Location of sensitive receptors – Ref. 1

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	18.62%	≥27%	N	17.24%	108.00%
2	27.67%	≥27%	Y	NA	NA
3	26.52%	≥27%	N	25.30%	104.82%
4	16.62%	≥27%	N	15.01%	110.73%
5	20.62%	≥27%	N	NA	NA
6	29.83%	≥27%	Y	NA	NA
7	32.39%	≥27%	Y	NA	NA
8	31.77%	≥27%	Y	NA	NA
9	28.14%	≥27%	Y	NA	NA
10	18.72%	≥27%	N	16.18%	115.70%
11	21.92%	≥27%	N	20.55%	106.67%
12	31.57%	≥27%	Y	NA	NA
13	33.41%	≥27%	Y	NA	NA
14	33.12%	≥27%	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
15	30.06%	≥27%	Y	NA	NA
16	20.20%	≥27%	N	18.25%	110.68%
17	23.37%	≥27%	N	22.11%	105.70%
18	33.55%	≥27%	Y	NA	NA
19	35.42%	≥27%	Y	NA	NA
20	35.19%	≥27%	Y	NA	NA
21	32.43%	≥27%	Y	NA	NA
22	22.20%	≥27%	N	19.94%	111.33%
23	37.22%	≥27%	Y	NA	NA
24	37.34%	≥27%	Y	NA	NA
25	37.20%	≥27%	Y	NA	NA
26	36.76%	≥27%	Y	NA	NA
27	36.48%	≥27%	Y	NA	NA
28	35.94%	≥27%	Y	NA	NA

Table 46: VSC Results (Ref. 1)

Ref. 2



Figure 62: Location of sensitive receptors – Ref. 2

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	22.45%	≥27%	N	18.26%	122.95%
2	13.22%	≥27%	N	9.72%	136.01%
3	23.06%	≥27%	N	19.92%	115.76%
4	25.70%	≥27%	N	21.87%	117.51%
5	25.49%	≥27%	N	22.06%	115.55%
6	14.82%	≥27%	N	11.36%	130.46%
7	23.37%	≥27%	N	19.99%	116.91%
8	25.16%	≥27%	N	21.09%	119.30%
9	15.72%	≥27%	N	12.64%	124.37%
10	25.88%	≥27%	N	22.11%	117.05%
11	28.03%	≥27%	Y	NA	NA
12	27.97%	≥27%	Y	NA	NA
13	17.63%	≥27%	N	13.63%	129.35%
14	26.91%	≥27%	N	22.67%	118.70%
15	27.69%	≥27%	Y	NA	NA
16	19.29%	≥27%	N	15.37%	125.50%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
17	28.47%	≥27%	Y	NA	NA
18	30.51%	≥27%	Y	NA	NA
19	30.77%	≥27%	Y	NA	NA
20	20.41%	≥27%	N	17.14%	119.08%
21	30.90%	≥27%	Y	NA	NA
22	31.41%	≥27%	Y	NA	NA
23	21.37%	≥27%	N	18.02%	118.59%
24	31.99%	≥27%	Y	NA	NA
25	33.41%	≥27%	Y	NA	NA
26	33.69%	≥27%	Y	NA	NA
27	34.53%	≥27%	Y	NA	NA
28	34.87%	≥27%	Y	NA	NA
29	35.13%	≥27%	Y	NA	NA
30	35.10%	≥27%	Y	NA	NA
31	35.74%	≥27%	Y	NA	NA

Table 47: VSC Results (Ref. 2)

Ref. 3

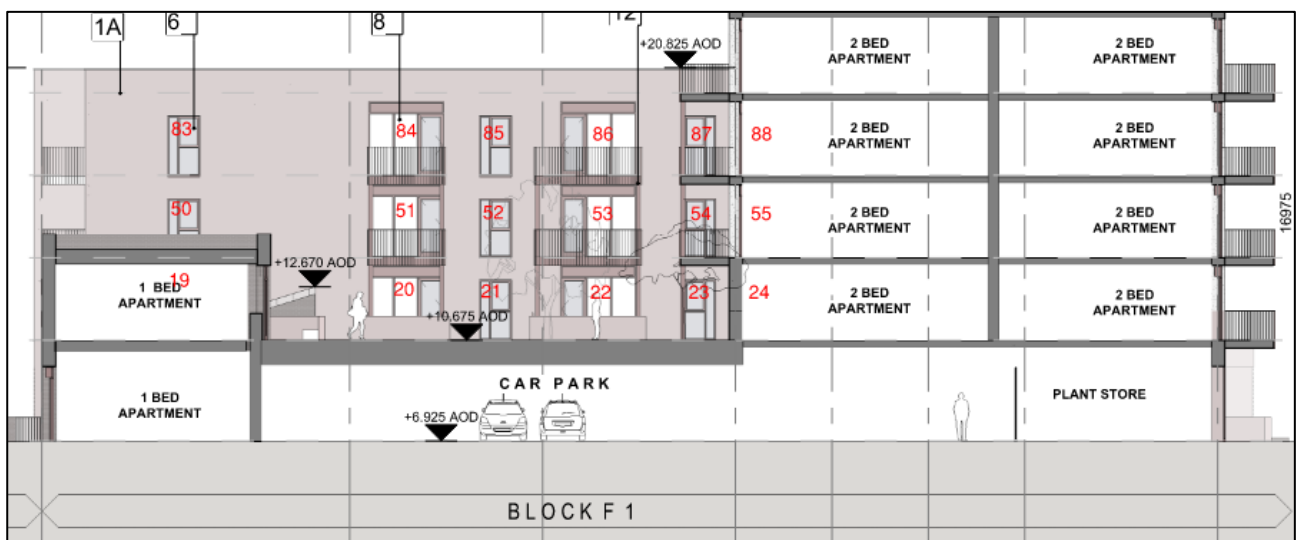
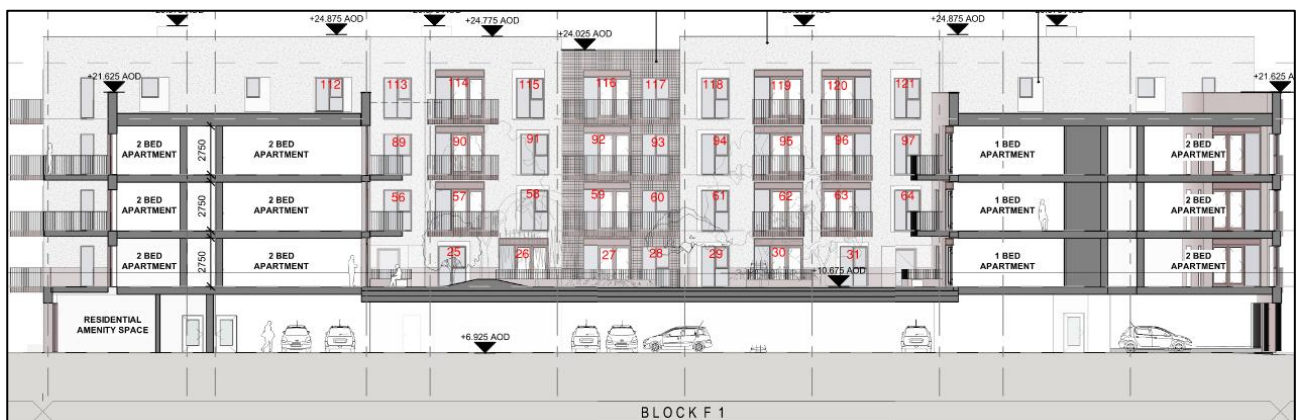
Figure 63: Location of sensitive receptors – Ref. 3

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	14.98%	≥27%	N	14.61%	102.53%
2	14.25%	≥27%	N	13.72%	103.86%
3	14.48%	≥27%	N	14.22%	101.83%
4	14.05%	≥27%	N	13.64%	103.01%
5	14.06%	≥27%	N	13.36%	105.24%
6	14.24%	≥27%	N	13.44%	105.95%
7	14.43%	≥27%	N	13.12%	109.98%
8	10.48%	≥27%	N	7.25%	144.55%
9	10.30%	≥27%	N	7.45%	138.26%
10	12.49%	≥27%	N	10.35%	120.68%
11	13.57%	≥27%	N	11.33%	119.80%
12	16.68%	≥27%	N	15.86%	105.17%
13	16.40%	≥27%	N	15.71%	104.39%
14	16.26%	≥27%	N	15.84%	102.65%
15	15.92%	≥27%	N	15.46%	102.98%
16	15.93%	≥27%	N	15.10%	105.50%
17	15.71%	≥27%	N	15.01%	104.66%
18	16.36%	≥27%	N	14.69%	111.37%
19	13.49%	≥27%	N	9.79%	137.79%
20	13.70%	≥27%	N	10.40%	131.73%
21	14.56%	≥27%	N	12.29%	118.47%
22	15.85%	≥27%	N	13.80%	114.86%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
23	19.04%	≥27%	N	18.60%	102.37%
24	18.45%	≥27%	N	17.40%	106.03%
25	17.80%	≥27%	N	17.39%	102.36%
26	18.10%	≥27%	N	16.90%	107.10%
27	17.50%	≥27%	N	16.97%	103.12%
28	17.51%	≥27%	N	16.82%	104.10%
29	17.58%	≥27%	N	16.85%	104.33%
30	15.81%	≥27%	N	12.02%	131.53%
31	15.83%	≥27%	N	12.44%	127.25%
32	16.83%	≥27%	N	14.48%	116.23%
33	17.75%	≥27%	N	15.85%	111.99%
34	36.42%	≥27%	Y	NA	NA
35	36.34%	≥27%	Y	NA	NA
36	36.28%	≥27%	Y	NA	NA
37	36.34%	≥27%	Y	NA	NA
38	36.44%	≥27%	Y	NA	NA
39	36.28%	≥27%	Y	NA	NA
40	36.50%	≥27%	Y	NA	NA
41	34.80%	≥27%	Y	NA	NA
42	34.95%	≥27%	Y	NA	NA
43	35.60%	≥27%	Y	NA	NA
44	35.88%	≥27%	Y	NA	NA

Table 48: VSC Results (Ref. 3)

Ref. 4



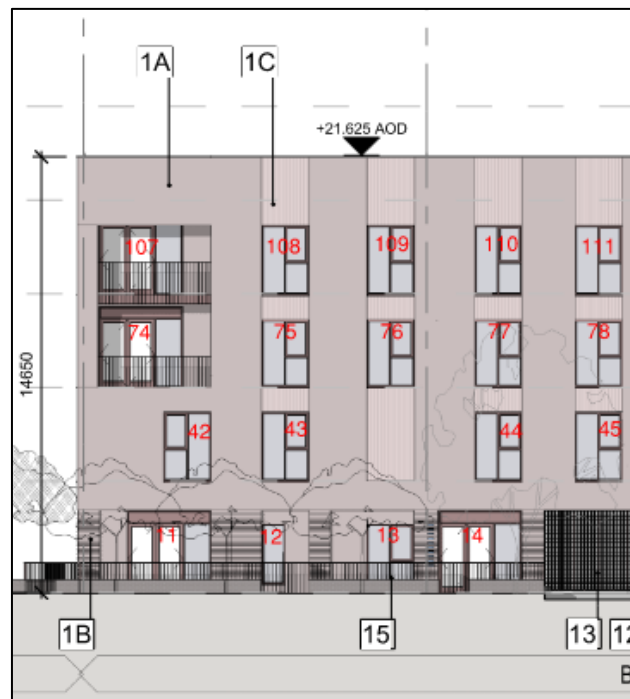


Figure 64: Location of sensitive receptors – Ref. 4

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	26.82%	≥27%	N	25.13%	106.73%
2	26.96%	≥27%	N	24.89%	108.32%
3	26.41%	≥27%	N	24.06%	109.77%
4	24.30%	≥27%	N	22.06%	110.15%
5	22.16%	≥27%	N	20.09%	110.30%
6	21.11%	≥27%	N	18.34%	115.10%
7	21.02%	≥27%	N	18.19%	115.56%
8	20.88%	≥27%	N	18.88%	110.59%
9	22.57%	≥27%	N	20.24%	111.51%
10	23.44%	≥27%	N	21.19%	110.62%
11	32.90%	≥27%	Y	NA	NA
12	32.63%	≥27%	Y	NA	NA
13	32.56%	≥27%	Y	NA	NA
14	32.05%	≥27%	Y	NA	NA
15	29.18%	≥27%	Y	NA	NA
16	29.81%	≥27%	Y	NA	NA
17	29.21%	≥27%	Y	NA	NA
18	15.46%	≥27%	N	13.52%	114.35%
19	16.49%	≥27%	N	16.39%	100.61%
20	15.33%	≥27%	N	14.36%	106.75%
21	22.16%	≥27%	N	21.57%	102.74%
22	11.08%	≥27%	N	10.13%	109.38%
23	13.51%	≥27%	N	12.53%	107.82%
24	6.80%	≥27%	N	5.62%	121.00%
25	12.35%	≥27%	N	10.36%	119.21%
26	24.93%	≥27%	N	23.50%	106.09%
27	15.29%	≥27%	N	14.49%	105.52%
28	14.63%	≥27%	N	12.98%	112.71%
29	27.21%	≥27%	Y	NA	NA
30	16.14%	≥27%	N	14.08%	114.63%
31	13.25%	≥27%	N	12.04%	110.05%
32	17.20%	≥27%	N	16.56%	103.86%
33	14.72%	≥27%	N	14.64%	100.55%
34	25.28%	≥27%	N	24.89%	101.57%
35	16.38%	≥27%	N	16.35%	100.18%
36	15.63%	≥27%	N	14.99%	104.27%
37	23.06%	≥27%	N	20.13%	114.56%
38	23.52%	≥27%	N	20.44%	115.07%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
39	23.80%	≥27%	N	20.79%	114.48%
40	24.81%	≥27%	N	21.65%	114.60%
41	25.18%	≥27%	N	22.62%	111.32%
42	34.66%	≥27%	Y	NA	NA
43	34.49%	≥27%	Y	NA	NA
44	34.09%	≥27%	Y	NA	NA
45	34.27%	≥27%	Y	NA	NA
46	31.46%	≥27%	Y	NA	NA
47	31.84%	≥27%	Y	NA	NA
48	31.72%	≥27%	Y	NA	NA
49	17.55%	≥27%	N	15.86%	110.66%
50	31.48%	≥27%	Y	NA	NA
51	19.25%	≥27%	N	17.59%	109.44%
52	26.14%	≥27%	N	24.88%	105.06%
53	13.43%	≥27%	N	12.26%	109.54%
54	16.44%	≥27%	N	15.07%	109.09%
55	8.20%	≥27%	N	7.45%	110.07%
56	13.58%	≥27%	N	12.66%	107.27%
57	14.31%	≥27%	N	13.50%	106.00%
58	29.20%	≥27%	Y	NA	NA
59	18.58%	≥27%	N	16.51%	112.54%
60	16.10%	≥27%	N	14.98%	107.48%
61	29.47%	≥27%	Y	NA	NA
62	19.43%	≥27%	N	16.66%	116.63%
63	16.49%	≥27%	N	14.46%	114.04%
64	21.07%	≥27%	N	20.04%	105.14%
65	19.88%	≥27%	N	19.85%	100.15%
66	17.07%	≥27%	N	16.78%	101.73%
67	29.29%	≥27%	Y	NA	NA
68	20.82%	≥27%	N	20.70%	100.58%
69	32.99%	≥27%	Y	NA	NA
70	9.40%	≥27%	N	7.77%	120.98%
71	25.31%	≥27%	N	22.45%	112.74%
72	25.83%	≥27%	N	23.00%	112.30%
73	26.44%	≥27%	N	23.15%	114.21%
74	18.55%	≥27%	N	18.08%	102.60%
75	35.91%	≥27%	Y	NA	NA
76	35.95%	≥27%	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
77	35.64%	≥27%	Y	NA	NA
78	35.76%	≥27%	Y	NA	NA
79	34.05%	≥27%	Y	NA	NA
80	34.20%	≥27%	Y	NA	NA
81	34.00%	≥27%	Y	NA	NA
82	29.18%	≥27%	Y	NA	NA
83	33.81%	≥27%	Y	NA	NA
84	33.11%	≥27%	Y	NA	NA
85	31.64%	≥27%	Y	NA	NA
86	28.74%	≥27%	Y	NA	NA
87	22.75%	≥27%	N	21.63%	105.18%
88	10.50%	≥27%	N	9.65%	108.81%
89	17.23%	≥27%	N	16.75%	102.87%
90	20.10%	≥27%	N	18.53%	108.47%
91	32.91%	≥27%	Y	NA	NA
92	20.22%	≥27%	N	18.83%	107.38%
93	18.07%	≥27%	N	16.78%	107.69%
94	33.15%	≥27%	Y	NA	NA
95	21.92%	≥27%	N	20.44%	107.24%
96	20.80%	≥27%	N	18.47%	112.62%
97	25.85%	≥27%	N	24.38%	106.03%
98	25.11%	≥27%	N	24.99%	100.48%
99	32.30%	≥27%	Y	NA	NA
100	33.58%	≥27%	Y	NA	NA
101	34.71%	≥27%	Y	NA	NA
102	35.32%	≥27%	Y	NA	NA
103	23.34%	≥27%	N	19.77%	118.06%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines (%)	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
104	27.90%	≥27%	Y	NA	NA
105	27.80%	≥27%	Y	NA	NA
106	28.16%	≥27%	Y	NA	NA
107	33.02%	≥27%	Y	NA	NA
108	37.04%	≥27%	Y	NA	NA
109	37.08%	≥27%	Y	NA	NA
110	37.10%	≥27%	Y	NA	NA
111	37.14%	≥27%	Y	NA	NA
112	36.60%	≥27%	Y	NA	NA
113	24.86%	≥27%	N	24.24%	102.56%
114	36.61%	≥27%	Y	NA	NA
115	36.57%	≥27%	Y	NA	NA
116	33.10%	≥27%	Y	NA	NA
117	29.23%	≥27%	Y	NA	NA
118	35.97%	≥27%	Y	NA	NA
119	35.72%	≥27%	Y	NA	NA
120	35.80%	≥27%	Y	NA	NA
121	35.60%	≥27%	Y	NA	NA
122	28.90%	≥27%	Y	NA	NA
123	28.61%	≥27%	Y	NA	NA
124	27.86%	≥27%	Y	NA	NA
125	26.84%	≥27%	N	23.99%	111.88%
126	25.58%	≥27%	N	22.68%	112.79%
127	25.20%	≥27%	N	22.20%	113.51%
128	24.18%	≥27%	N	21.22%	113.95%
129	23.37%	≥27%	N	20.35%	114.84%

Table 49: VSC Results (Ref. 4)

Ref. 5

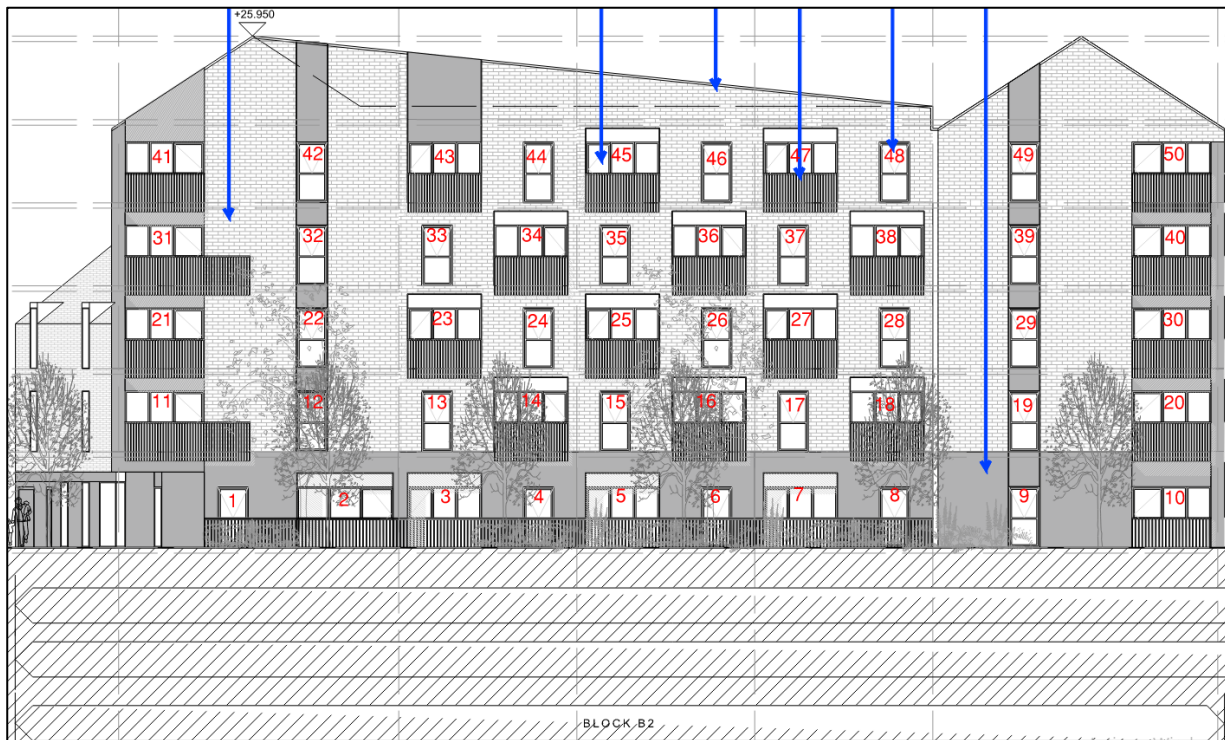


Figure 65: Location of sensitive receptors – Ref. 5

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines ($\geq 27\%$)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	30.20%	$\geq 27\%$	Y	NA	NA
2	20.11%	$\geq 27\%$	N	17.38%	115.71%
3	16.98%	$\geq 27\%$	N	15.44%	109.97%
4	24.13%	$\geq 27\%$	N	21.36%	112.97%
5	27.88%	$\geq 27\%$	Y	NA	NA
6	22.95%	$\geq 27\%$	N	21.55%	106.50%
7	26.91%	$\geq 27\%$	N	25.26%	106.53%
8	23.66%	$\geq 27\%$	N	21.33%	110.92%
9	30.11%	$\geq 27\%$	Y	NA	NA
10	18.30%	$\geq 27\%$	N	16.71%	109.52%
11	15.58%	$\geq 27\%$	N	12.73%	122.39%
12	31.86%	$\geq 27\%$	Y	NA	NA
13	20.95%	$\geq 27\%$	N	19.04%	110.03%
14	28.42%	$\geq 27\%$	Y	NA	NA
15	20.92%	$\geq 27\%$	N	18.83%	111.10%
16	28.70%	$\geq 27\%$	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines ($\geq 27\%$)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
17	20.81%	$\geq 27\%$	N	18.38%	113.22%
18	29.42%	$\geq 27\%$	Y	NA	NA
19	31.54%	$\geq 27\%$	Y	NA	NA
20	15.36%	$\geq 27\%$	N	14.34%	107.11%
21	17.07%	$\geq 27\%$	N	14.20%	120.21%
22	33.63%	$\geq 27\%$	Y	NA	NA
23	32.22%	$\geq 27\%$	Y	NA	NA
24	22.77%	$\geq 27\%$	N	20.56%	110.75%
25	30.23%	$\geq 27\%$	Y	NA	NA
26	23.05%	$\geq 27\%$	N	20.77%	110.98%
27	29.56%	$\geq 27\%$	Y	NA	NA
28	23.17%	$\geq 27\%$	N	20.71%	111.88%
29	32.57%	$\geq 27\%$	Y	NA	NA
30	17.87%	$\geq 27\%$	N	15.67%	114.04%
31	17.79%	$\geq 27\%$	N	15.50%	114.77%
32	34.94%	$\geq 27\%$	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
33	34.09%	≥27%	Y	NA	NA
34	33.65%	≥27%	Y	NA	NA
35	23.63%	≥27%	N	21.89%	107.95%
36	31.60%	≥27%	Y	NA	NA
37	23.75%	≥27%	N	17.01%	109.17%
38	32.96%	≥27%	Y	NA	NA
39	34.90%	≥27%	Y	NA	NA
40	18.57%	≥27%	N	17.01%	109.17%
41	31.18%	≥27%	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
42	35.85%	≥27%	Y	NA	NA
43	25.09%	≥27%	N	23.07%	108.76%
44	36.10%	≥27%	Y	NA	NA
45	35.71%	≥27%	Y	NA	NA
46	36.02%	≥27%	Y	NA	NA
47	35.75%	≥27%	Y	NA	NA
48	36.14%	≥27%	Y	NA	NA
49	36.06%	≥27%	Y	NA	NA
50	31.47%	≥27%	Y	NA	NA

Table 50: VSC Results (Ref. 5)

Ref. 6

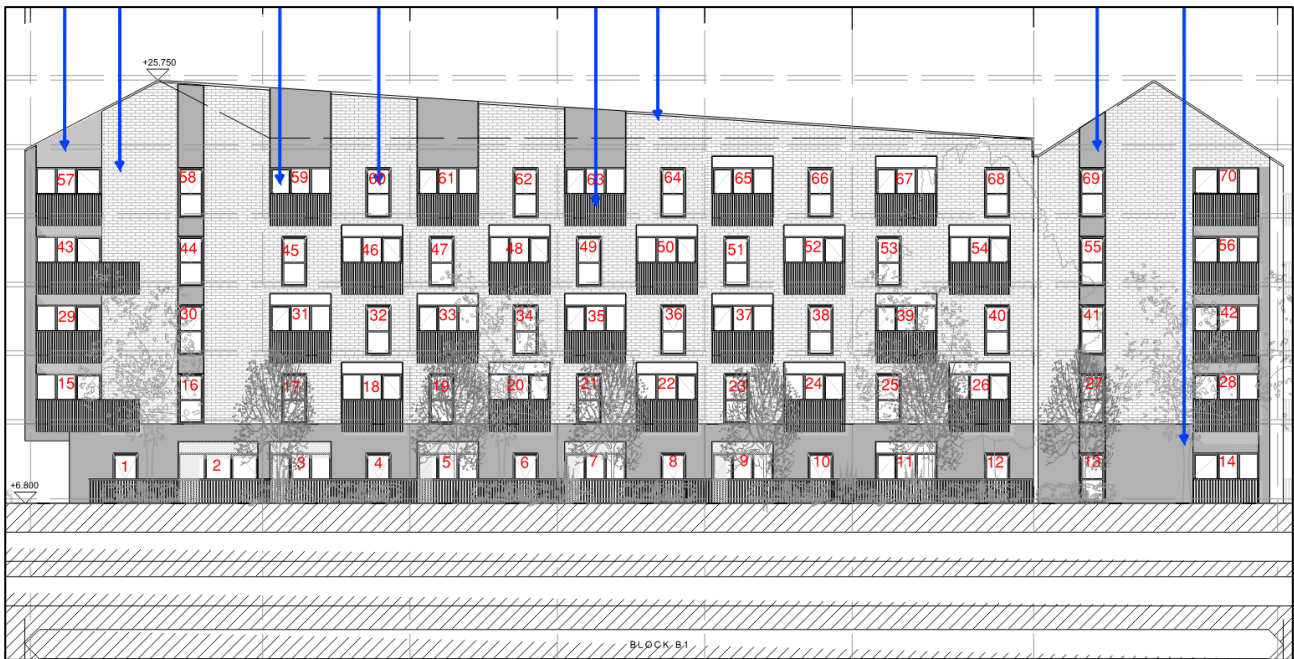


Figure 66: Location of sensitive receptors – Ref. 6

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	21.97%	≥27%	N	18.26%	120.32%
2	12.02%	≥27%	N	9.73%	123.54%
3	8.78%	≥27%	N	7.60%	115.53%
4	14.67%	≥27%	N	11.97%	122.56%
5	8.49%	≥27%	N	7.27%	116.78%
6	15.19%	≥27%	N	12.83%	118.39%
7	8.39%	≥27%	N	7.50%	111.87%
8	15.69%	≥27%	N	13.01%	120.60%
9	19.30%	≥27%	N	17.56%	109.91%
10	16.80%	≥27%	N	14.79%	113.59%
11	22.56%	≥27%	N	20.57%	109.67%
12	18.62%	≥27%	N	16.56%	112.44%
13	27.43%	≥27%	Y	NA	NA
14	17.25%	≥27%	N	16.79%	102.74%
15	8.50%	≥27%	N	5.54%	153.43%
16	23.82%	≥27%	N	22.50%	105.87%
17	12.85%	≥27%	N	10.70%	120.09%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
18	20.21%	≥27%	N	17.97%	112.47%
19	13.84%	≥27%	N	10.65%	129.95%
20	21.29%	≥27%	N	18.64%	114.22%
21	14.00%	≥27%	N	11.32%	123.67%
22	21.05%	≥27%	N	18.21%	115.60%
23	14.06%	≥27%	N	12.56%	111.94%
24	22.64%	≥27%	N	20.23%	111.91%
25	17.11%	≥27%	N	14.32%	119.48%
26	25.34%	≥27%	N	23.00%	110.17%
27	29.97%	≥27%	Y	NA	NA
28	15.07%	≥27%	N	14.54%	103.65%
29	10.63%	≥27%	N	8.33%	127.61%
30	27.22%	≥27%	Y	NA	NA
31	25.34%	≥27%	N	23.19%	109.27%
32	15.95%	≥27%	N	13.70%	116.42%
33	24.31%	≥27%	N	22.08%	110.10%
34	16.39%	≥27%	N	13.95%	117.49%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
35	24.57%	≥27%	N	22.37%	109.83%
36	16.63%	≥27%	N	14.27%	116.54%
37	23.95%	≥27%	N	21.84%	109.66%
38	17.66%	≥27%	N	14.92%	118.36%
39	26.51%	≥27%	N	24.25%	109.32%
40	20.91%	≥27%	N	18.98%	110.17%
41	31.91%	≥27%	Y	NA	NA
42	16.84%	≥27%	N	16.12%	104.47%
43	12.46%	≥27%	N	10.74%	116.01%
44	29.82%	≥27%	Y	NA	NA
45	29.27%	≥27%	Y	NA	NA
46	29.62%	≥27%	Y	NA	NA
47	28.84%	≥27%	Y	NA	NA
48	30.03%	≥27%	Y	NA	NA
49	29.70%	≥27%	Y	NA	NA
50	29.08%	≥27%	Y	NA	NA
51	19.57%	≥27%	N	17.40%	112.47%
52	29.36%	≥27%	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
53	21.85%	≥27%	N	19.65%	111.20%
54	31.39%	≥27%	Y	NA	NA
55	33.90%	≥27%	Y	NA	NA
56	18.18%	≥27%	N	17.30%	105.09%
57	27.59%	≥27%	Y	NA	NA
58	32.34%	≥27%	Y	NA	NA
59	21.50%	≥27%	N	19.94%	107.82%
60	32.28%	≥27%	Y	NA	NA
61	22.06%	≥27%	N	19.99%	110.36%
62	32.66%	≥27%	Y	NA	NA
63	21.97%	≥27%	N	20.33%	108.07%
64	33.13%	≥27%	Y	NA	NA
65	33.14%	≥27%	Y	NA	NA
66	33.96%	≥27%	Y	NA	NA
67	34.26%	≥27%	Y	NA	NA
68	35.17%	≥27%	Y	NA	NA
69	35.87%	≥27%	Y	NA	NA
70	32.16%	≥27%	Y	NA	NA

Table 51: VSC Results (Ref. 6)

Ref. 7

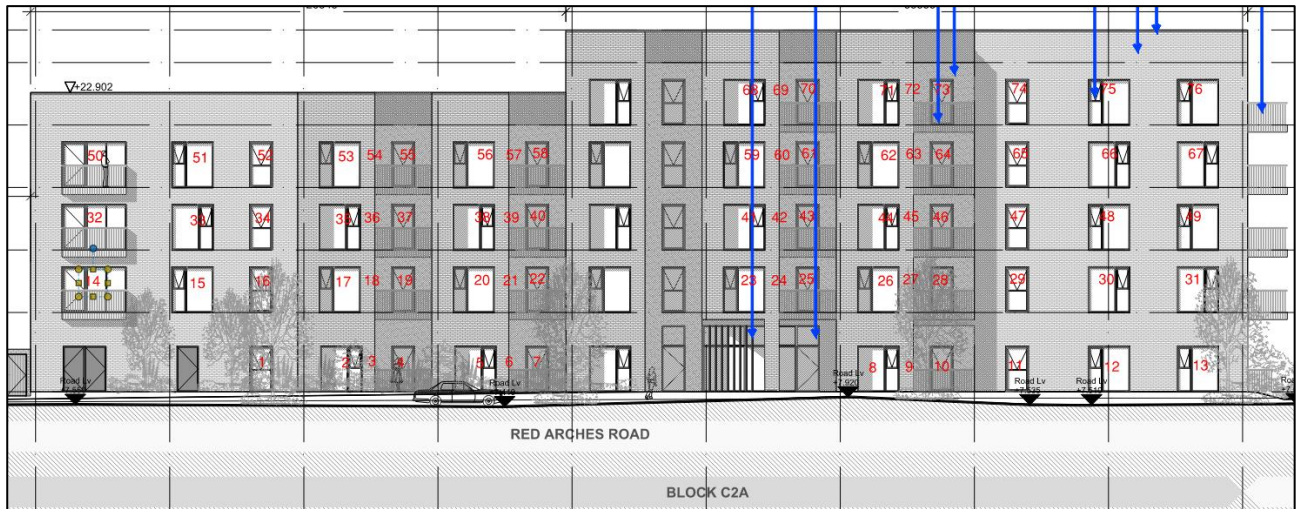


Figure 67: Location of sensitive receptors – Ref. 7

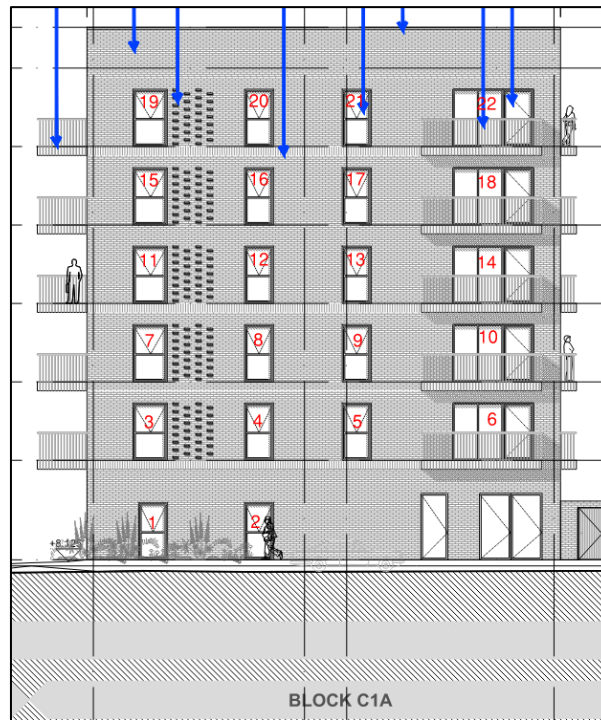
Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines ($\geq 27\%$)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	23.02%	$\geq 27\%$	N	20.70%	111.21%
2	24.43%	$\geq 27\%$	N	21.93%	111.40%
3	9.07%	$\geq 27\%$	N	8.61%	105.34%
4	10.03%	$\geq 27\%$	N	8.57%	117.04%
5	22.00%	$\geq 27\%$	N	19.82%	111.00%
6	9.48%	$\geq 27\%$	N	8.32%	113.94%
7	9.80%	$\geq 27\%$	N	8.65%	113.29%
8	24.04%	$\geq 27\%$	N	22.23%	108.14%
9	15.36%	$\geq 27\%$	N	14.60%	105.21%
10	19.81%	$\geq 27\%$	N	17.76%	111.54%
11	24.29%	$\geq 27\%$	N	22.25%	109.17%
12	25.68%	$\geq 27\%$	N	23.21%	110.64%
13	25.24%	$\geq 27\%$	N	22.67%	111.34%
14	17.03%	$\geq 27\%$	N	14.94%	113.99%
15	27.73%	$\geq 27\%$	Y	25.86%	107.23%
16	25.69%	$\geq 27\%$	N	23.61%	108.81%
17	28.02%	$\geq 27\%$	Y	NA	NA
18	7.86%	$\geq 27\%$	N	6.97%	112.77%
19	8.77%	$\geq 27\%$	N	6.58%	133.28%
20	25.37%	$\geq 27\%$	N	23.09%	109.87%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines ($\geq 27\%$)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
21	8.50%	$\geq 27\%$	N	7.49%	113.48%
22	8.93%	$\geq 27\%$	N	6.72%	132.89%
23	26.21%	$\geq 27\%$	N	24.31%	107.82%
24	8.95%	$\geq 27\%$	N	8.36%	107.06%
25	10.36%	$\geq 27\%$	N	8.26%	125.42%
26	27.29%	$\geq 27\%$	Y	NA	NA
27	10.02%	$\geq 27\%$	N	9.35%	107.17%
28	10.22%	$\geq 27\%$	N	8.34%	122.54%
29	27.03%	$\geq 27\%$	Y	NA	NA
30	28.64%	$\geq 27\%$	Y	NA	NA
31	28.13%	$\geq 27\%$	Y	NA	NA
32	18.88%	$\geq 27\%$	N	16.68%	113.19%
33	30.10%	$\geq 27\%$	Y	NA	NA
34	28.05%	$\geq 27\%$	Y	NA	NA
35	30.03%	$\geq 27\%$	Y	NA	NA
36	9.00%	$\geq 27\%$	N	7.92%	113.64%
37	10.40%	$\geq 27\%$	N	8.45%	123.08%
38	28.12%	$\geq 27\%$	Y	NA	NA
39	9.08%	$\geq 27\%$	N	8.48%	107.08%
40	10.30%	$\geq 27\%$	N	8.65%	119.08%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
41	28.54%	≥27%	Y	NA	NA
42	9.69%	≥27%	N	8.85%	109.49%
43	11.90%	≥27%	N	10.03%	118.64%
44	29.05%	≥27%	Y	NA	NA
45	11.06%	≥27%	N	10.13%	109.18%
46	11.45%	≥27%	N	9.62%	119.02%
47	29.53%	≥27%	Y	NA	NA
48	30.39%	≥27%	Y	NA	NA
49	30.39%	≥27%	Y	NA	NA
50	21.02%	≥27%	N	18.48%	113.74%
51	32.49%	≥27%	Y	NA	NA
52	30.62%	≥27%	Y	NA	NA
53	32.60%	≥27%	Y	NA	NA
54	9.76%	≥27%	N	8.68%	112.44%
55	11.72%	≥27%	N	10.42%	112.48%
56	31.33%	≥27%	Y	NA	NA
57	9.87%	≥27%	N	8.86%	111.40%
58	12.81%	≥27%	N	10.30%	124.37%

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (≥27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
59	31.85%	≥27%	Y	NA	NA
60	10.45%	≥27%	N	9.69%	107.84%
61	13.22%	≥27%	N	11.65%	113.48%
62	31.62%	≥27%	Y	NA	NA
63	11.77%	≥27%	N	10.74%	109.59%
64	13.32%	≥27%	N	11.10%	120.00%
65	31.67%	≥27%	Y	NA	NA
66	33.07%	≥27%	Y	NA	NA
67	32.83%	≥27%	Y	NA	NA
68	33.82%	≥27%	Y	NA	NA
69	18.16%	≥27%	N	16.69%	108.81%
70	23.10%	≥27%	N	21.29%	108.50%
71	34.29%	≥27%	Y	NA	NA
72	19.30%	≥27%	N	18.50%	104.32%
73	22.82%	≥27%	N	20.92%	109.08%
74	33.65%	≥27%	Y	NA	NA
75	35.11%	≥27%	Y	NA	NA
76	34.76%	≥27%	Y	NA	NA

Table 52: VSC Results (Ref. 7)

Ref. 8**Figure 68: Location of sensitive receptors – Ref. 8**

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
1	23.91%	≥27%	N	22.08%	108.29%
2	24.83%	≥27%	N	23.35%	106.34%
3	27.52%	≥27%	Y	NA	NA
4	29.01%	≥27%	Y	NA	NA
5	28.39%	≥27%	Y	NA	NA
6	15.12%	≥27%	N	14.31%	105.66%
7	30.81%	≥27%	Y	NA	NA
8	32.01%	≥27%	Y	NA	NA
9	31.82%	≥27%	Y	NA	NA
10	21.94%	≥27%	N	20.75%	105.73%
11	33.04%	≥27%	Y	NA	NA

Window Legend	VSC Received with Proposed Amended Scheme in Place (%)	VSC Required as per BRE Guidelines	Meets BRE Guidelines (>27%)	VSC Received with Previously Permitted Scheme in Place (%)	% of its Previously Permitted Value
12	33.91%	≥27%	Y	NA	NA
13	33.47%	≥27%	Y	NA	NA
14	23.49%	≥27%	N	21.74%	108.05%
15	35.20%	≥27%	Y	NA	NA
16	35.86%	≥27%	Y	NA	NA
17	35.80%	≥27%	Y	NA	NA
18	25.01%	≥27%	N	22.54%	110.96%
19	37.00%	≥27%	Y	NA	NA
20	37.41%	≥27%	Y	NA	NA
21	37.33%	≥27%	Y	NA	NA
22	37.47%	≥27%	Y	NA	NA

Table 53: VSC Results (Ref. 8)

As demonstrated by the VSC analysis above, the VSC values for the proposed amended scheme have been assessed against the previously permitted scheme. Where windows within adjacent permitted properties record VSC values below the 27% target, the values achieved under the amended scheme are equal to or greater than those associated with the previously permitted development. This confirms that, in terms of Vertical Sky Component, the proposed amendments would not give rise to any adverse impact when compared to the approved scheme.

Furthermore, a detailed internal illuminance (lux level) assessment has been undertaken for identified worst-case rooms, as set out in the following section. This assessment has been carried out to verify that the amended proposals would not result in any significant adverse daylight effects, in accordance with BRE guidance.

Lux Level

In order to demonstrate that the surrounding permitted properties classified as impacted by the proposed development will continue to receive good levels of daylight, a more detailed assessment on internal daylight levels (beyond the VSC analysis outlined in the previous section) has been carried out. This method not only considers the amount of sky visible from the vertical face of the window, but also the window size, room size and room use. It gives guidance as to the qualitative and quantitative change in daylight. Parameters used for the calculations are outlined in Table 1.

To provide an indication of the expected daylight levels within the surrounding permitted properties, a sample of rooms/houses that fail to meet the Vertical Sky Component (VSC) criteria has been selected for analysis. The 'worst-case' spaces are those located in close proximity to the proposed development achieving lowest VSC and situated at lower levels. In this case, Ref. 4 and 6 have been selected for analysis, as it is getting lowest VSC for the windows facing the proposed development that do not meet the VSC requirements, as shown below.

The selected worst-case apartments assessed under the BRE 3rd edition, lux level method have shown that the units in questions will achieve sufficient levels of daylight once the Stapolin residential development is in place.



Figure 69: Location of sensitive receptors – Ref. 4 (Rooms Selected for Lux Level Analysis)

Floor	Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at $\geq 95\%$ @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at $\geq 50\%$ @300lux)	2022 Methodology Criterion 2 Compliance
Ref. 4 (Block F1)	1	Liv/Din	100%	Y	91%	Y
	2	Bedroom	100%	Y	72%	Y
	3	Bedroom	100%	Y	100%	Y
	4	Liv/Din	100%	Y	66%	Y
	5	Bedroom	100%	Y	82%	Y
	6	Bedroom	100%	Y	80%	Y
	7	Liv/Din	100%	Y	75%	Y
	8	Bedroom	100%	Y	83%	Y
	9	Bedroom	100%	Y	76%	Y
	10	Liv/Din	100%	Y	72%	Y
	11	Bedroom	100%	Y	95%	Y
	12	Bedroom	100%	Y	88%	Y

Table 54: Lux Level Results (Ref. 4)*Figure 70: Location of sensitive receptors – Ref. 6 (Rooms Selected for Lux Level Analysis)*

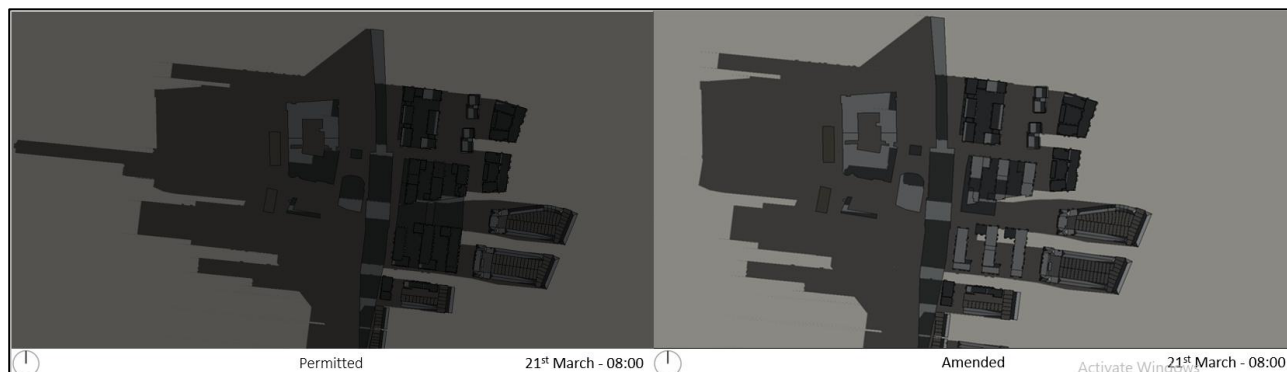
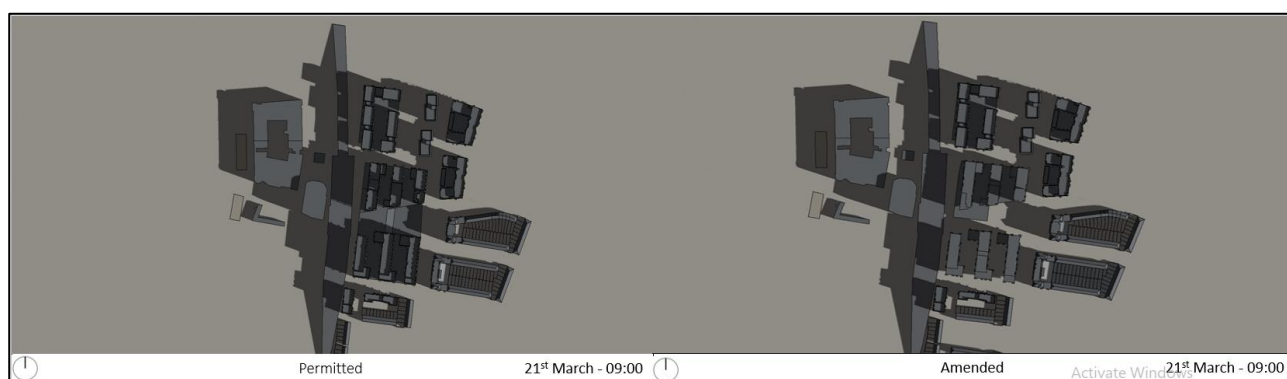
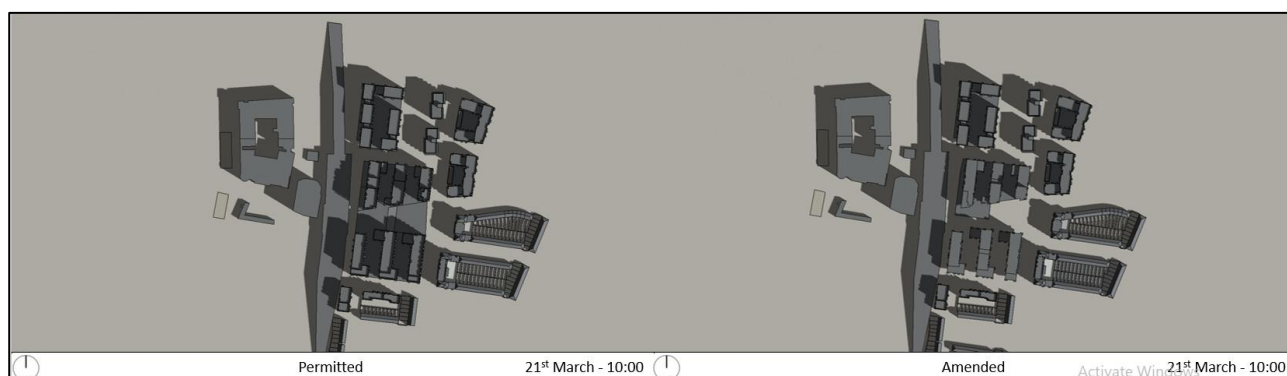
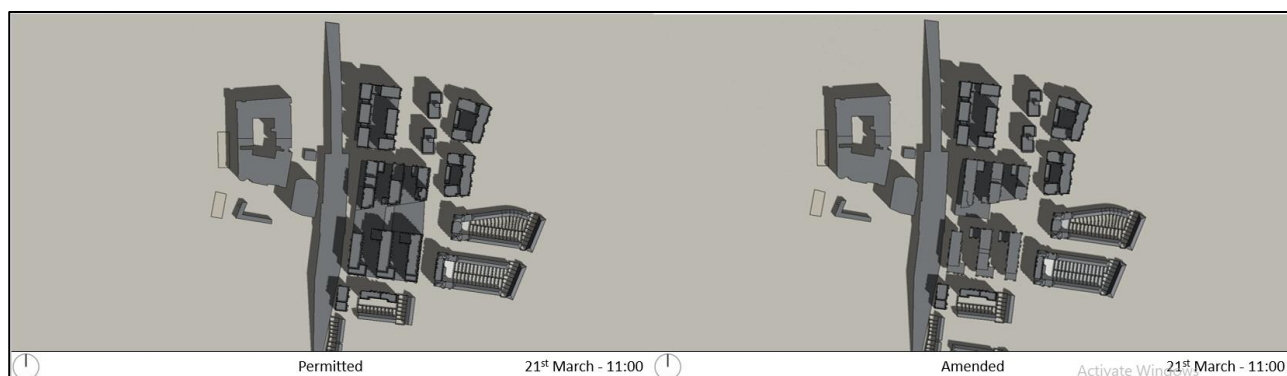
Floor	Legend	Space	2022 Methodology Criterion 1 (%) (Compliance at $\geq 95\%$ @100lux)	2022 Methodology Criterion 1 Compliance	2022 Methodology Criterion 2 (%) (Compliance at $\geq 50\%$ @300lux)	2022 Methodology Criterion 2 Compliance
Ref. 6 (Block B1)	1	Liv/Din	100%	Y	100%	Y
	2	Liv/Din	100%	Y	100%	Y
	3	Bedroom	100%	Y	100%	Y
	4	Liv/Din	100%	Y	100%	Y
	5	Liv/Din	100%	Y	100%	Y

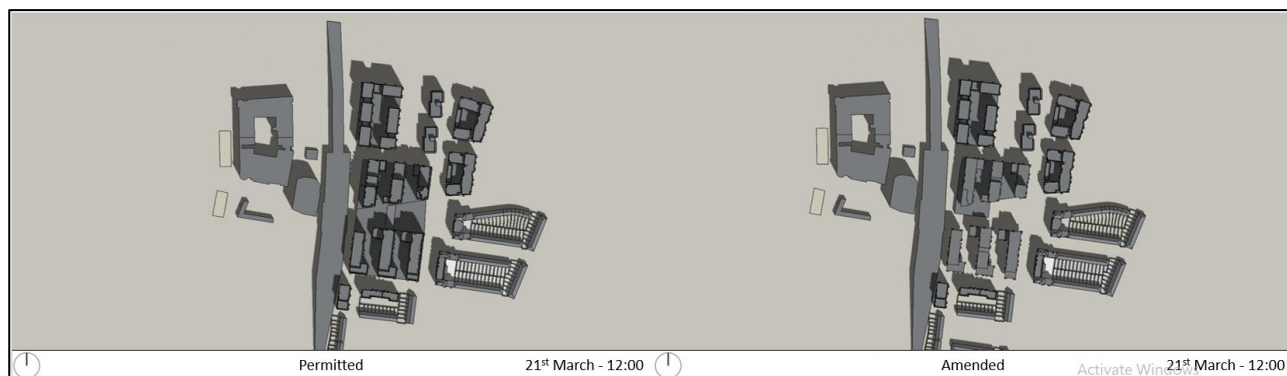
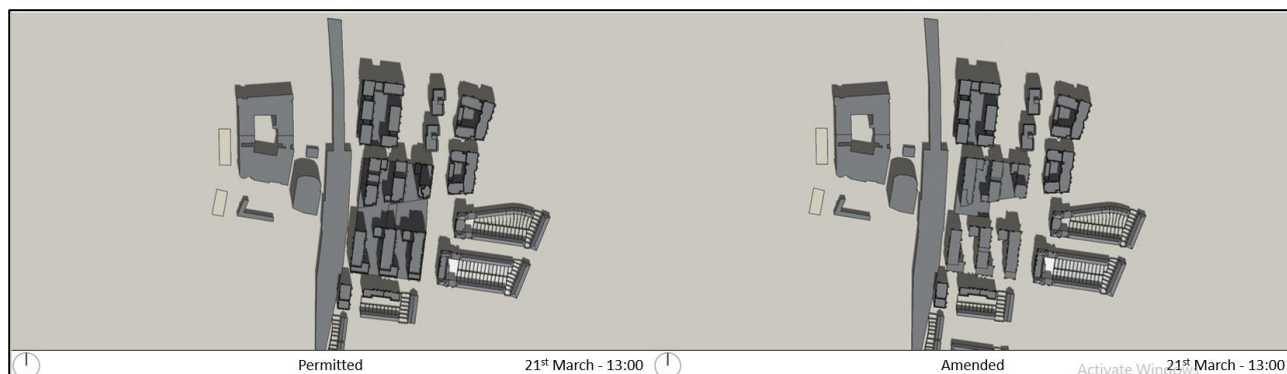
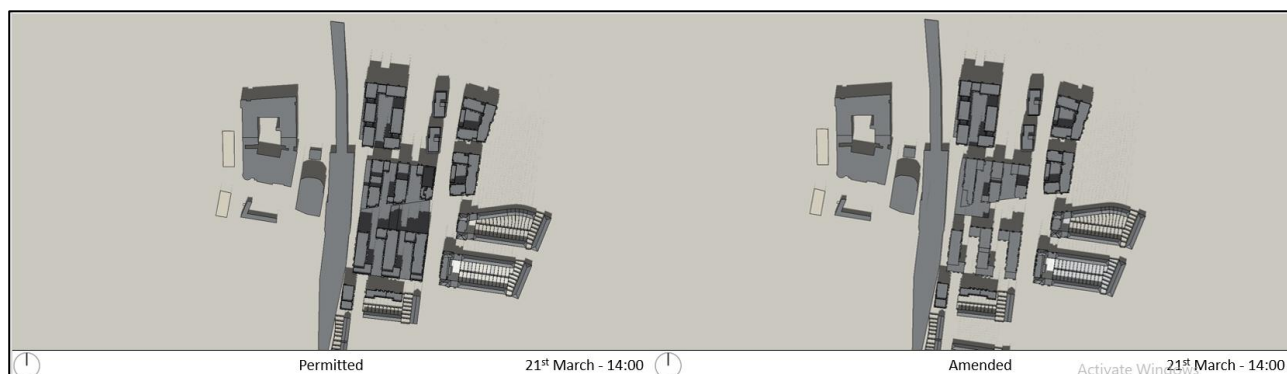
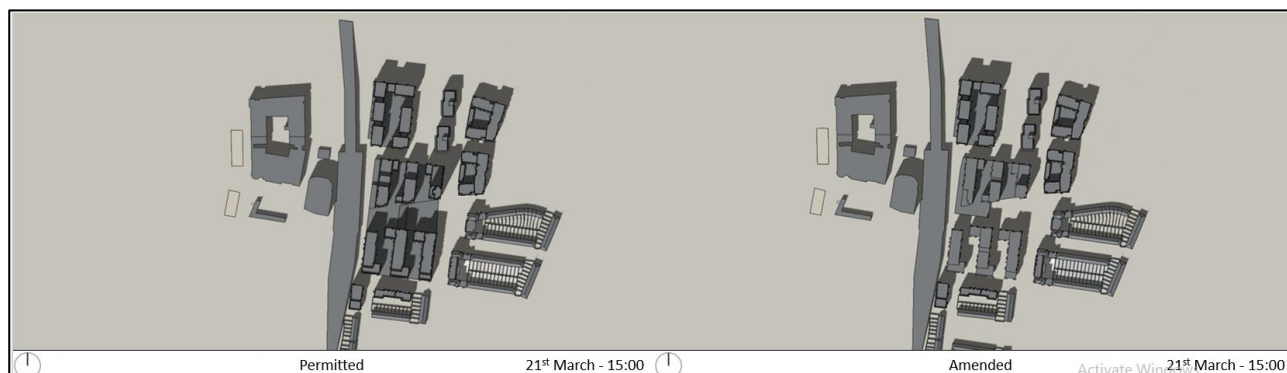
Table 55: Lux Level Results (Ref. 6)

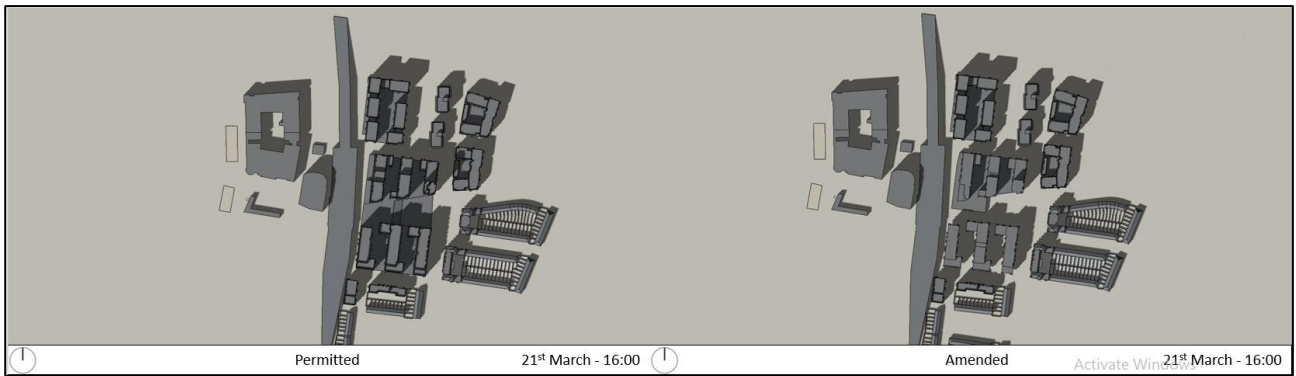
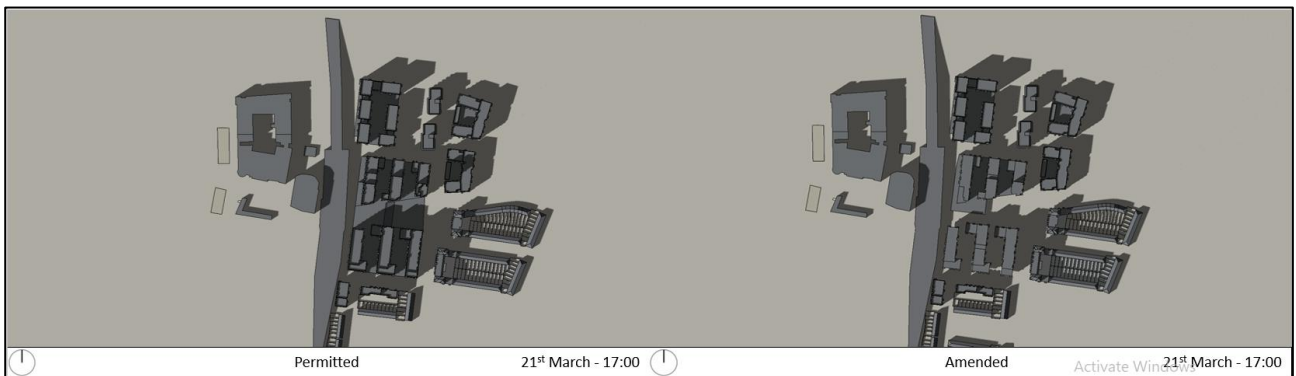
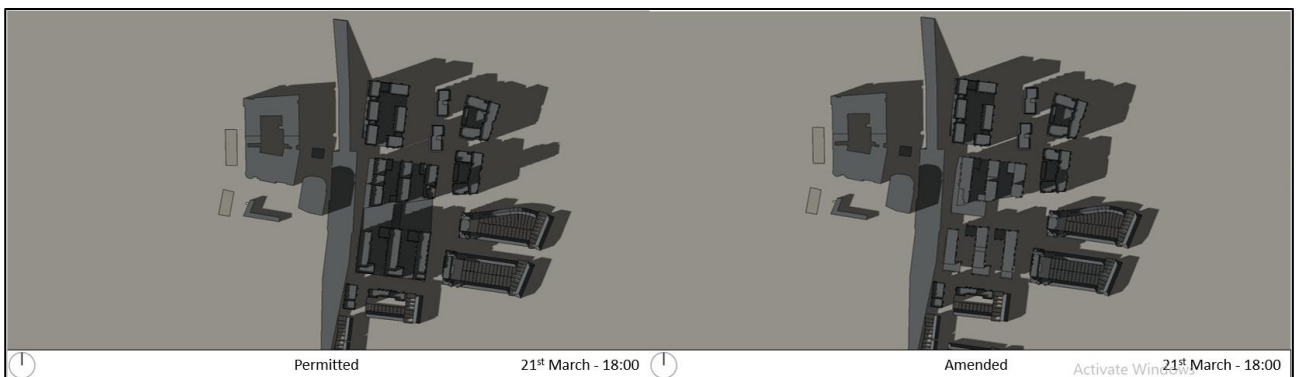
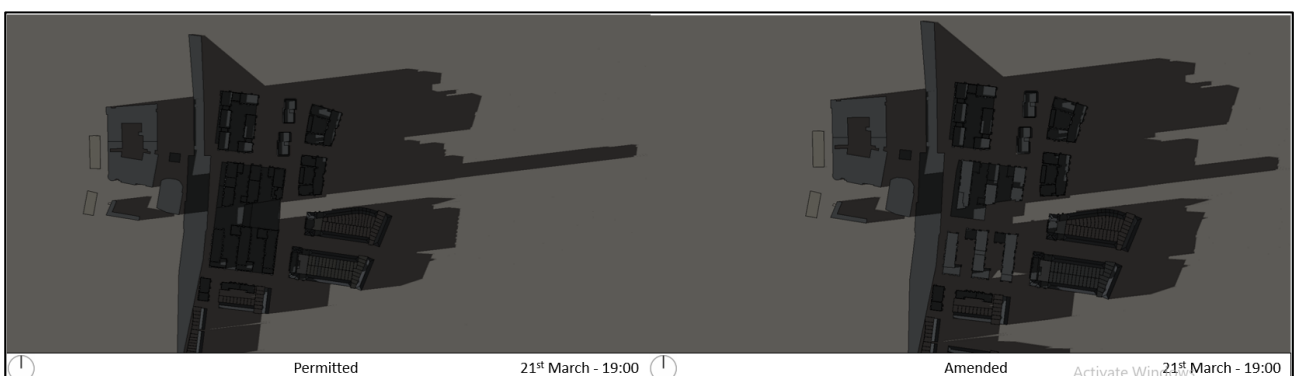
All selected worst-case spaces for the analysis have achieved the minimum lux level target set out as per the BRE Guide. Therefore, it can be shown that sufficient levels of daylight will still be achieved in the adjacent permitted properties once the proposed amended development is constructed.

9 OVERSHADOWING IMPACT TO PROPERTIES

The overshadowing impact on the adjacent properties has been analysed, as illustrated in the images below and compared with the previously permitted scheme.







10 CONCLUSION

The Stapolin residential amended development has been analysed in order to determine the following:

- The daylight levels within the living and bedroom areas throughout the proposed units within the development;
- The quality of amenity space being provided as part of the development, in relation to sunlight;
- The impact of the amended scheme to the adjacent properties surrounding the proposed development.

Calculations and methodology used are in accordance with the BRE Guide for daylight and sunlight and based on the Building Research Establishments "Site Layout Planning for Daylight and Sunlight: A Good Practice Guide" by PJ Littlefair, 2022 Third Edition. However, the following text from BS 8206 should be reiterated as previously outlined:

"The advice given here is not mandatory and this document should not be seen as an instrument of planning policy. Its aim is to help rather than constrain the designer. Although it gives numeral guidelines these should be interpreted flexibly because natural lighting is only one of the many factors in site layout design"

Internal Daylight

The analysis confirms that the majority of spaces not only meet but greatly exceed the recommendations outlined within the BRE methodology, 97.52% for Criterion 1 and 95.05% for Criterion 2 of all the spaces assessed of the proposed amended development has been achieved.

Throughout the development, comfortable and desirable spaces have been designed to enhance the opportunity for improved daylight levels and extensive glazing to every room enabling deep daylight penetration and providing enhanced views to landscaped open spaces.

Sunlight to amenity spaces

In relation to amenity space sunlight, the overall amenity space in the proposed amended development show compliance with BRE Guide recommendations, with more than 50% of the total amenity space receiving more than 2 hours of sunlight on March 21st test day.

Overshadowing

The proposed amended development demonstrates that there is a negligible impact on the surrounding properties when assessed on the 21st March test day.

Impact to neighbouring properties

The Vertical Sky Component (VSC) assessment has been carried out for all windows within the surrounding permitted properties. The results show that the majority of neighbouring windows achieve VSC values above

the 27% BRE target; however, due to the positioning of the proposed amended development, some windows experience a reduction and fall below this threshold.

In accordance with the BRE guide, a comparison with the previously permitted scheme demonstrates that the amended proposal represents an improvement, with VSC values remaining equal to or exceeding those previously approved. Accordingly, the amended development would not result in any worsening of daylight conditions and confirms that no significant adverse impacts are anticipated.

Furthermore, a detailed internal daylight assessment has been carried out for selected worst-case rooms within the adjacent permitted properties. This analysis confirms that adequate daylight levels would continue to be achieved with the proposed amended development in place, and no significant adverse impact on internal daylight conditions is anticipated.

11 VERIFICATION

This report was compiled and verified by:

*Ashish Nautiyal [B. Tech. Mechanical Engineering]
Senior Sustainability Engineer
O'Connor Sutton Cronin & Associates*





O'CONNOR • SUTTON • CRONIN
MULTIDISCIPLINARY CONSULTING ENGINEERS

Head Office

9 Prussia Street
Dublin 7
Ireland
D07KT57

T: +353 (0)1 8682000

E: ocsc@ocsc.ie | W: www.ocsc.ie

Civil | Structural | Mechanical | Electrical | Sustainability | Environmental