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## Daylight, Sunlight and Overshadowing Report

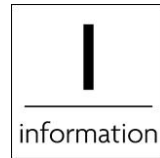
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**PROJECT:**

White Bear Yard  
Clerkenwell Road  
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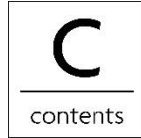
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## 1. Executive Summary

Hilson Moran has been commissioned by The Senator Group to undertake a daylight, sunlight and overshadowing assessment to support the planning application of the proposed re-development of the existing building associated with White Bear Yard, located on Back Hill in the London Borough of Camden

The re-development involves the removal of the existing roof-top extension and construction of a new two-storey extension to the top of the building across the extent of the site and incorporating new terrace areas.

This report describes the effect of the proposed development on the daylight, sunlight and overshadowing to habitable rooms and open spaces in adjacent existing and cumulative developments to the application site.

The Building Research Establishment's (BRE) *'Site Layout Planning for Daylight and Sunlight, A Guide to Good Practice'* (Littlefair, 2011) was used to establish the extent to which the proposed development meets current best practice guidelines. In cases where the proposed development is likely to cause a reduction of daylight and sunlight to key receptors in the surrounding area, the results were compared against the criteria.

While the BRE benchmarks are widely used, these criteria should not be seen as an instrument of planning policy. As stated 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 than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design.'*

The results have shown that the extension of White Bear Yard development can induce noticeable reduction on the daylight and the sunlight receptors of 1-10 Summers Street. Some of these windows will not receive any sunlight at all after the construction of the new roof top extension

The remainder of the tested buildings are not anticipated to experience significant reduction on the daylight and sunlight level. The proposed extension, therefore, has a localised 'minor adverse' effect on the remainder of these buildings.

This detailed report highlights which receptors (windows) of the neighbouring buildings do not meet the BRE criteria. At this point no mitigation measures have been proposed as this would affect the massing of the proposed extension.



## 2. Daylight, Sunlight and Overshadowing Assessment Process

### 2.1. Background

Hilson Moran has been commissioned by The Senator Group to undertake a daylight, sunlight and overshadowing assessment to support the planning application of the proposed re-development of the existing building associated with White Bear Yard, located on Back Hill in the London Borough of Camden.

The re-development involves the removal of the existing roof-top extension and construction of a new two-storey extension to the top of the building across the extent of the site and incorporating new terrace areas.

This report describes the effect of the proposed development on the level of daylight and sunlight availability to habitable spaces in these adjacent developments.

### 2.2. Guidance

*Building Research Establishment (BRE), Site Layout Planning for Daylight and Sunlight, A Guide to Good Practice (Littlefair, 2011)*

The BRE Guide provides criteria and methods that are detailed below for calculating the effect of the proposed development on the daylight and sunlight availability to surrounding properties. These guidelines were first published in 1991, and superseded the document 'Sunlight and Daylight Planning Criteria and Design of Buildings' (Department of the Environment, 1971). The second and latest edition of the BRE Guide was released in 2011.

The BRE Guide includes advice on how to achieve good daylighting and sunlighting both within buildings and open spaces in new developments. It also covers guidance to safeguard daylight and sunlight of existing buildings nearby and the protection of daylighting of adjoining land for future development.

Whilst the BRE Guide provides numerical guidelines for daylight, sunlight and overshadowing, these criteria should not be seen as absolute targets since, as the document states, the intention of the Guide is to help rather than constrain the designer. The Guide is not an instrument of planning policy, therefore, whilst the methods given are technically robust, some level of flexibility should be applied given the context and constraints of the site.

#### 2.2.1. Receptors for Daylight

The scoping of impacts has considered the guidance contained in the BRE Guide<sup>1</sup>.

Paragraph 2.2.2 of the BRE Guide states that the guidelines for daylight impacts are primarily for residential properties, where daylight is deemed to be required, including:

- Living rooms;
- Kitchens; and
- Bedrooms.

Paragraph 2.2.2 of the BRE Guide goes on to say that the guidelines can also be applied to non-domestic buildings which have a reasonable expectation of daylight such as:

- Schools;
- Hospitals;
- Hotels/Hostels;
- Small workshops and some offices

#### 2.2.2. Receptors for Sunlight

Paragraph 3.1.2 of the BRE Guide states that the main requirement for sunlight is on housing, particularly living rooms and conservatories whereas it is viewed as less important in bedrooms and kitchens.

In the absence of detailed internal layout information for the surrounding developments, all windows of residential properties facing within 90° of due south will be included within the assessment of effects.

Paragraph 3.1.3 of the BRE Guide further states that sunlight is also valued in non-domestic buildings. However, this requirement will vary according to the type of non-domestic building, the aims of the occupants and the extent to which the occupants can control their environment.

#### 2.2.3. Receptors for Overshadowing

Paragraph 3.3.3 of the BRE Guide states that the guidance is also concerned with the availability of sunlight in open space such as:

- Gardens (usually the back garden);
- Parks/playing fields;
- Children playgrounds;
- Outdoor swimming pools;
- Sitting out areas such as public squares; and
- Focal points for views.

### 2.3. Assessment Methodology and Significance Criteria

The methodology adopted for the study follows that set out in BRE Guide which gives criteria and methods for calculating daylight and sunlight.

The BRE Guide uses a set of parameters to quantify the potential effect on light levels: the Vertical Sky Component (VSC), the Probable Sunlight Hours (PSH) for windows. The Guide uses the hours of sunlight availability to quantify the sunlight levels in open spaces.

#### 2.3.1. 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 standard CIE (Commission Internationale d'Éclairage) Overcast Sky is used and the ratio is expressed as a percentage. The maximum VSC value is close to 40% for a completely unobstructed vertical wall.

<sup>1</sup> Site layout planning for daylight and sunlight: a guide to good practice' (BR209)



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; and
- If the VSC with the new development in place is both less than 27% and less than 0.8 times its former value, then the reduction in light to the window is likely to be noticeable. This means that a reduction in the VSC value of up to 20% its former value would be acceptable and thus, the effect would be considered negligible.

### 2.3.2. Probable Sunlight Hours (PSH)

Access to sunlight is measured on the windows to habitable rooms facing within 90° of due south. The PSH calculation method measures the proportion of the window assessed that is sunlit for a period of time. In new developments, each dwelling should have at least one main living room within 90° of due south to receive a reasonable amount of sunlight. The BRE Guide recommends that the PSH is calculated for the whole year, and for the winter months (21 September to 21 March).

If the window reference point can receive more than 25% of APSH, including at least 5% of winter probable sunlight hours (WPSH) during the winter months between 21 September and 21 March, then the room should still receive enough sunlight and the effect will therefore, be negligible.

However, if the available sunlight hours are both less than the amount given above and less than 0.8 times their former value, either over the whole year or during the winter months (21 September to 21 March), then the occupants of the existing building will notice the loss of sunlight.

### 2.3.3. Significance Criteria

The primary purpose of the daylight and sunlight assessment is to determine the likely loss of light to adjacent buildings resulting from the construction of the proposed development. Therefore, in these cases, the proposed development is identified as the potential source of impact.

The study quantifies the likely daylight and sunlight availability to the receptors identified and derives the resulting ratio of impact. The potential effects are:

- Noticeable reductions in daylight that are likely to make the rooms identified to appear gloomier, and electric lighting will be needed more often. This may result in a minor to major negative effect depending on the sensitivity of the receptor;
- Noticeable reductions in sunlight to the windows identified that will make the room appear colder and less pleasant. This may result in a minor to major negative effect depending on the sensitivity of the receptor;
- Noticeable increase in daylight thus improving the visual comfort qualities of rooms identified. This would result in a moderate to major beneficial effect depending on the sensitivity of the receptor; and
- Noticeable increase in sunlight to the windows identified that will make the rooms benefit from direct solar gains for longer, thus making the rooms appear warmer and more pleasant. This would result in a moderate to major beneficial effect depending on the sensitivity of the receptor.

### 2.3.4. Impact Magnitude

The BRE Guide provides DSO criteria using absolute values, but it does not provide criteria for determining the impact magnitude. The compliance criteria for the effects on the surrounding developments are detailed in the section below, alongside how the impact magnitude has been determined using professional judgement.

The BRE criteria have been used to assess the likely levels of daylight and sunlight to habitable rooms in the surrounding properties. Compliance with the BRE Guide is achieved if the levels of daylight/sunlight within the identified receptors of the surrounding properties are equal to or greater than the absolute values established by the Guide.

Compliance with the BRE Guide is also achieved for the identified receptors of the surrounding properties if the ratio of impact between the baseline and proposed scenarios is 0.80 or higher, i.e. the reduction in daylight or sunlight hours is 20% or less. An additional criterion of overall annual loss for APSH values also needs to be satisfied to comply with the recommended BRE guidelines.

A negligible magnitude of change is established if compliance with the BRE criteria is met.

For the affected receptors that lie below the recommended BRE guidelines, the impact magnitude has been classified using professional judgement depending on the ratio of impact between the baseline (existing) and proposed scenarios. The criteria used for determining the impact magnitude for the VSC, APSH and WPSH results has been detailed below in Tables 2, 3 and 4.

VSC Values	Ratio of change	Magnitude of impact
VSC ≥ 27%	≥ 0.8	Negligible
VSC ≥ 27%	< 0.8	Negligible
VSC < 27%	> 0.8	Negligible
VSC < 27%	0.7 – 0.8	Minor
VSC < 27%	0.6 – 0.7	Moderate
VSC < 27%	< 0.6	Major

**Table 1 Impact Magnitude for Vertical Sky Component Results**

APSH Values	Ratio of change	Magnitude of impact
APSH ≥ 25%	≥0.8	Negligible
APSH ≥ 25%	<0.8	Negligible
APSH < 25%	>0.8	Negligible
APSH < 25%	>0.7	Minor
APSH < 25%	0.6 – 0.7	Moderate
APSH < 25%	< 0.6	Major

**Table 2 Impact Magnitude for Annual Probable Sunlight Hours Results**



WPSH Values	Ratio of change	Magnitude of impact
WPSH ≥ 5%	≥0.8	Negligible
WPSH ≥ 5%	<0.8	Negligible
WPSH < 5%	>0.8	Negligible
WPSH < 5%	0.7 – 0.8	Minor
WPSH < 5%	0.6 – 0.7	Moderate
WPSH < 5%	< 0.6	Major

**Table 3 Impact Magnitude for Winter Probable Sunlight Hours Results**

### 2.3.5. Receptor Sensitivity/Value

A sensitivity rating has been developed using professional judgement based on the BRE Guide, which is described below in Table 4 and categorised into high, medium and low based on the function or use of the space being assessed. This rating is indicative and there will be occasions where the sensitivity may be interpreted differently on a site by site basis.

Receptor Sensitivity/ Value	Description
<b>High</b>	Habitable rooms such as living rooms, kitchens and bedrooms within residential developments generally require good levels of daylight to render them more enjoyable and adequate to their function. Windows to such spaces are classified as having high sensitivity to daylight.
<b>High</b>	Windows of residential dwellings have been classified as having high sensitivity to sunlight, particularly for living rooms and conservatories. In the absence of internal layout information of the surrounding residential developments, all windows facing within 90° of due south have been classified as having a high sensitivity to sunlight as a 'worst case' scenario.
<b>High</b>	Residential back garden spaces have been assigned a high sensitivity to sunlight.
<b>Moderate</b>	Non- domestic buildings where the occupants have a reasonable expectation of daylight have been classified as having a medium sensitivity to daylight.
<b>Low</b>	The windows of the surrounding non-domestic buildings have been classified as having a low sensitivity to sunlight.

**Table 4 Sensitivity/Value of Daylight, Sunlight & Overshadowing Receptors**

### 2.3.6. Significance of Effects on Daylight, Sunlight & Overshadowing

In the absence of published guidance, a matrix for determining the significance of effects has been developed (Table 5) taking into account the sensitivity of the receptor and the impact magnitude; only those effects that are Major are considered to be 'significant'.

Magnitude	Sensitivity		
	High	Moderate	Low
Major	<b>Major Adverse/Beneficial</b>	Major - Moderate Adverse/Beneficial	Moderate – Minor Adverse/Beneficial
Moderate	Major - Moderate Adverse/Beneficial	Moderate – Minor Adverse/Beneficial	Minor Adverse/Beneficial
Minor	Moderate – Minor Adverse/Beneficial	Minor Adverse/Beneficial	Minor - Negligible
Negligible	Negligible	Negligible	Negligible

**Table 5 Significance Matrix for Daylight, Sunlight and Overshadowing (Significant Effects in Bold)**

### 2.4. Limitations and Assumptions

All calculations have been based on a z map model provided by the Architect as well as the 3D model prepared by MBS following their site survey and scanning of the surrounding existing receptors.

The accuracy of the model, and hence the validity of any findings, are governed by the assumptions made, and the resolution of the model's geometry.

In the absence of information regarding the internal layouts of the surrounding buildings, it was assumed that all the windows on the assessed buildings are located in habitable rooms (i.e. bedrooms, living rooms etc., for residential developments or office spaces, hotel rooms etc., for commercial buildings).

The effect of existing trees and hedges has not been included in the modelling of effects.

### 3. Assessment Modelling

#### 3.1. Scope of the Assessment

The purpose of the study is to determine the effect of the proposed Development on the daylight and sunlight availability to windows of the surrounding developments.

#### 3.2. Extent of the Study Area

The study area modelled for this analysis includes the site and the surrounding properties likely to be affected by the proposed development – these are illustrated in Figure 1 and listed in Table 6.

In the absence of information detailing the use of surrounding buildings, all identified buildings are assumed to be of residential use.

Note that there are no amenity areas/public spaces identified to be assessed against the overshadowing criteria in the proximity of the application site.

No.	Building Reference	Assumed use	Sensitivity
1	Existing/Proposed development	N/A	N/A
2	1-10 Summers Street	Residential building	High
3	2 Eyre St Hill	Residential building	High
4	150-152 Clerkenwell Road	Residential building	High
4	Jameson House	Residential building	High
5	3 Back Hill	Residential building	High
5	5 Back Hill	Residential building	High
7	4 Back Hill	Residential building	High
7	6-10 Back Hill	Residential building	High

Table 6 Buildings and uses identified for the assessment

#### 3.2.1. Method of Data Collection

The baseline and proposed conditions at the site and the surrounding areas were established from the following:

- 3D model of the existing buildings provided by MBS Survey Software Ltd on 11<sup>th</sup> December, 2017; and
- Floor plan and elevations drawings of the Proposed Development provided by Cassidy & Ashton Architects on 28<sup>th</sup> November, 2017.

The baseline and proposed scenarios assessed for the purposes of this study are illustrated below.

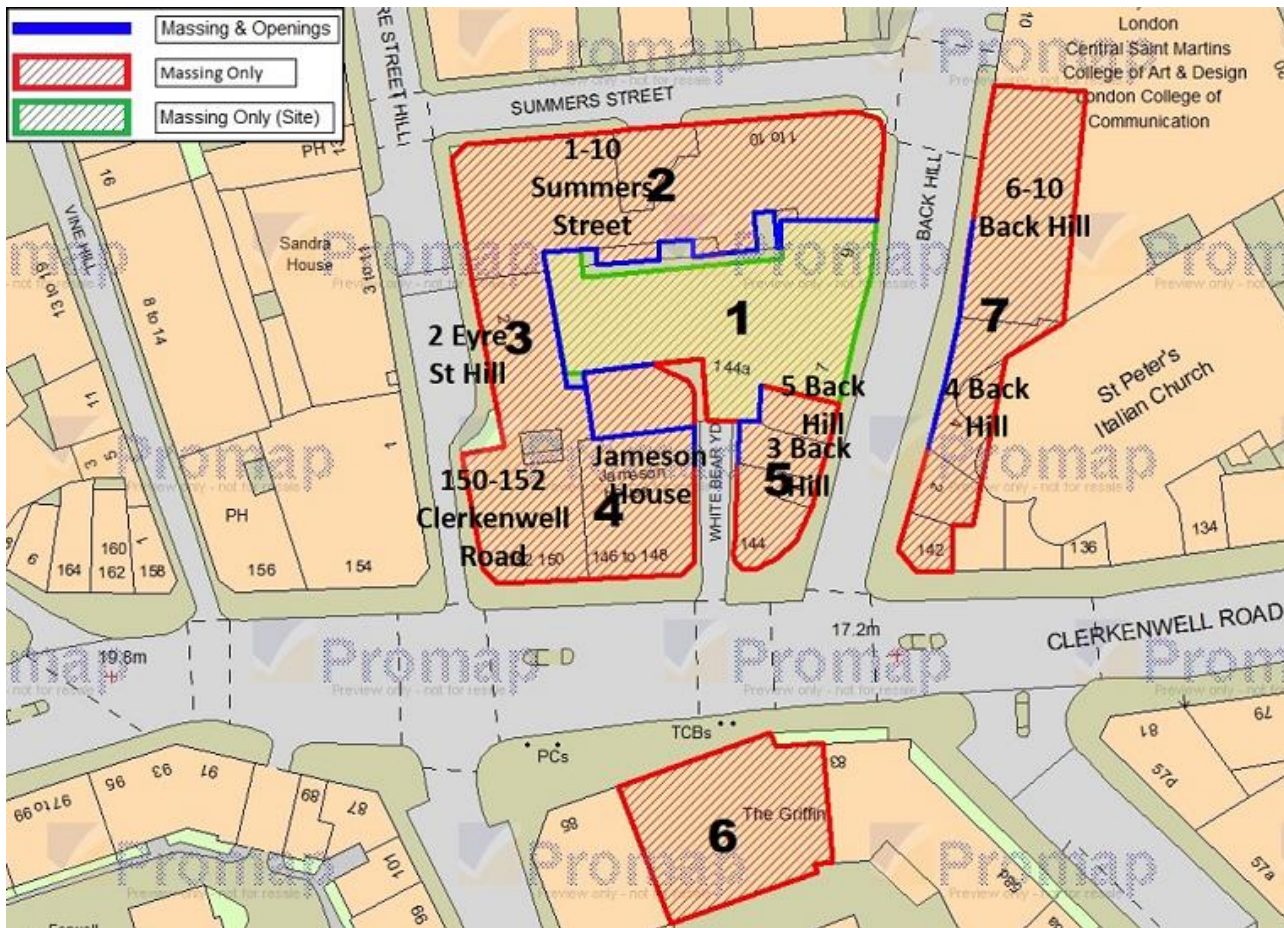


Figure 1 Buildings identified for the assessment



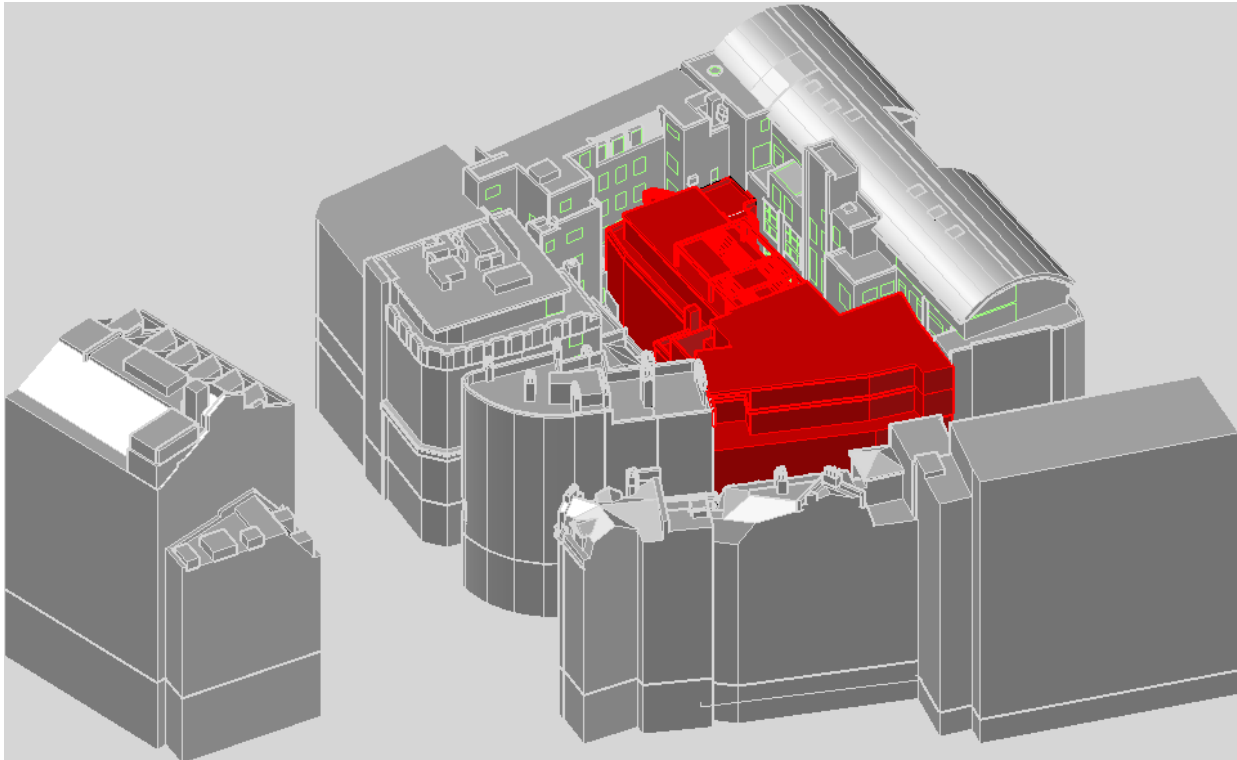
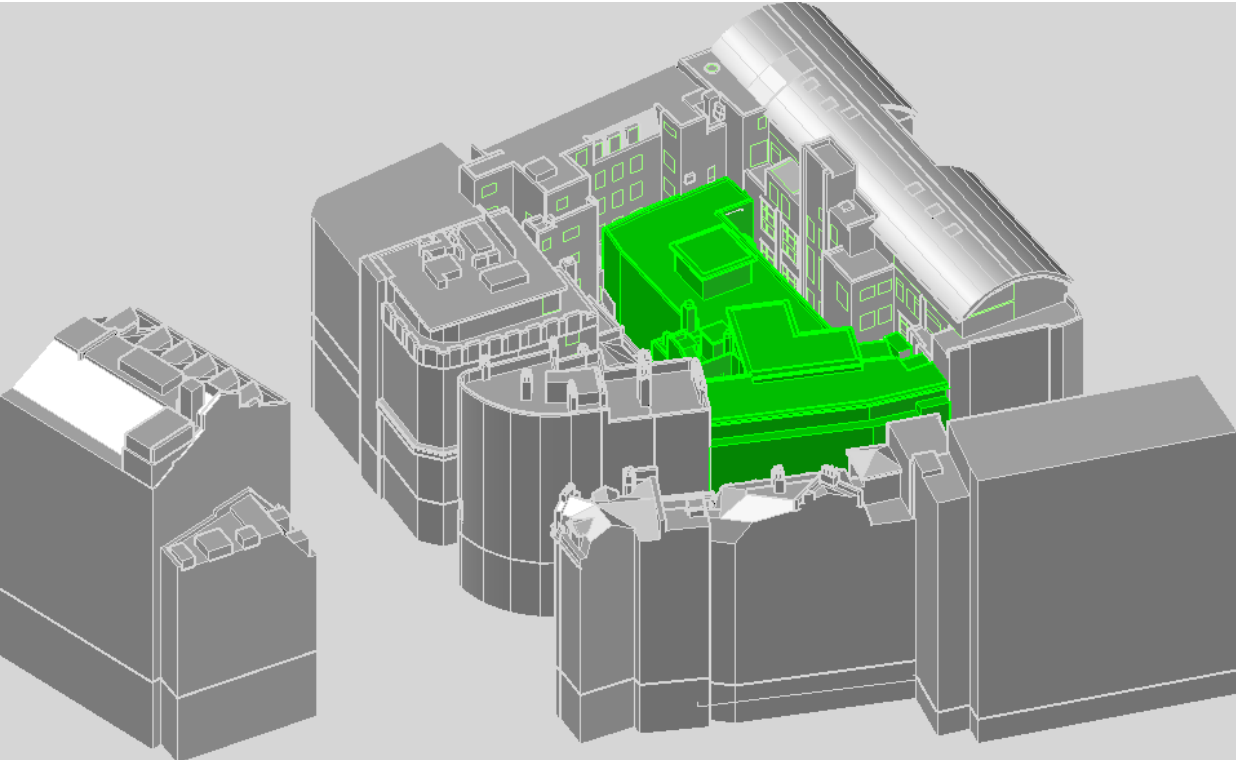
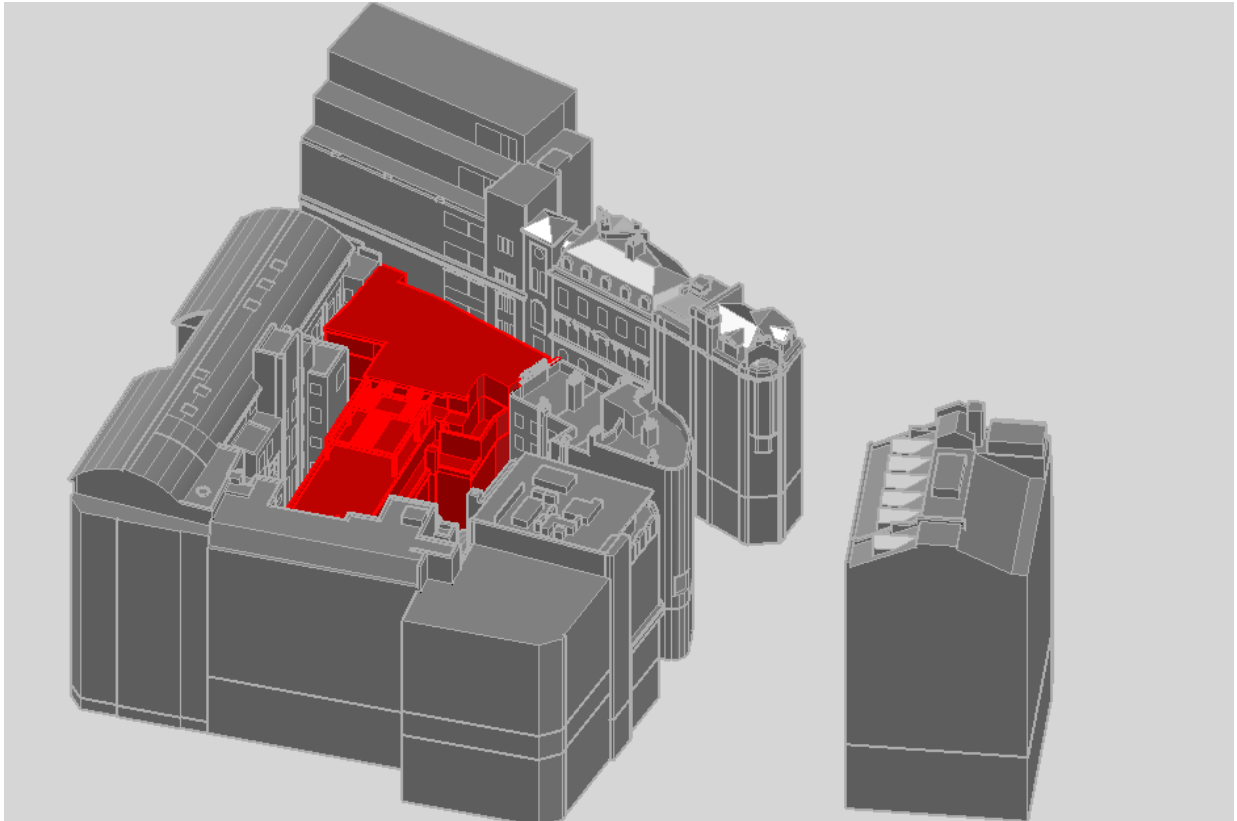
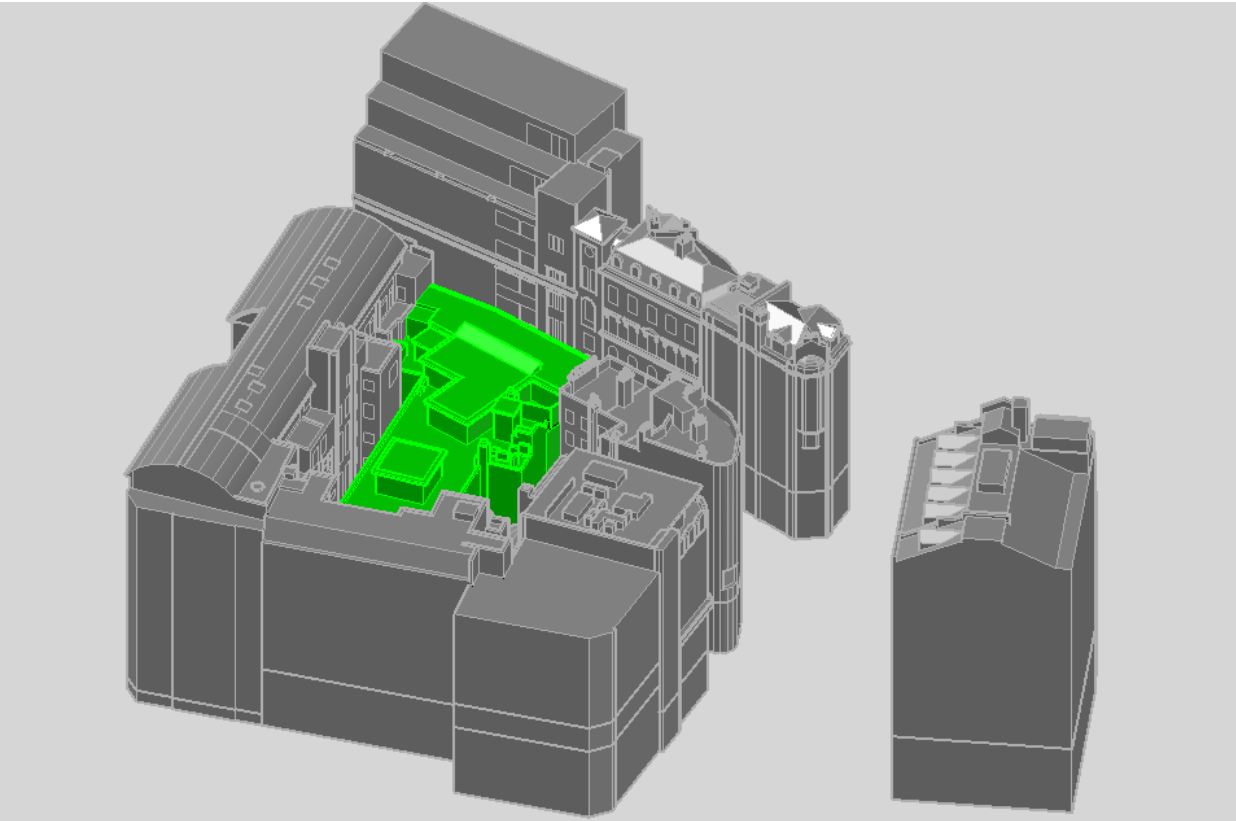


Figure 2 Baseline scenario, South-West & South-East views (existing building on site in green)

Figure 3 Proposed scenario, South-West & South-East views (proposed building on site in red)



## 4. Assessment of Impact

### 4.1. Impact on Daylight Levels in the Surrounding Area

A summary of the Vertical Sky Component results is provided in Table 7 and the corresponding magnitude of impact in Table 8. A complete set of results are reported in Appendix 1 of this report.

Location	Total Assessed	No. of Receptors	BRE Compliance Criteria
1-10 Summers Street	145	87	Above
		58	Below
2 Eyre St Hill	39	36	Above
		3	Below
150-152 Clerkenwell Road	6	6	Above
		0	Below
Jameson House	35	35	Above
		0	Below
3 Back Hill	22	22	Above
		0	Below
4 Back Hill	31	30	Above
		1	Below
5 Back Hill	9	9	Above
		0	Below
6-10 Back Hill	29	29	Above
		0	Below

Table 7 Vertical Sky Component results

Location	Total Receptors faced by the development	No. of receptors	Magnitude of change
1-10 Summers Street	145	87	Negligible
		19	Minor
		7	Moderate
		32	Major
2 Eyre St Hill	39	39	Negligible
		3	Minor
		0	Moderate
		0	Major
150-152 Clerkenwell Road	6	6	Negligible
		0	Minor
		0	Moderate
		0	Major
Jameson House	35	35	Negligible
		0	Minor

Location	Total Receptors faced by the development	No. of receptors	Magnitude of change
3 Back Hill	22	0	Moderate
		0	Major
		22	Negligible
		0	Minor
		0	Moderate
4 Back Hill	31	0	Major
		30	Negligible
		1	Minor
		0	Moderate
		0	Major
5 Back Hill	9	9	Negligible
		0	Minor
		0	Moderate
		0	Major
6-10 Back Hill	29	29	Negligible
		0	Minor
		0	Moderate
		0	Major

Table 8 Vertical Sky Component Impact Magnitude

The assessment has indicated that the Proposed Development has a **negligible effect** on the daylight receptors of the following developments:

- 150-152 Clerkenwell Road;
- Jameson House;
- 3 Back Hill;
- 5 Back Hill; and
- 6-10 Back Hill.

Localised effects have been identified on the remaining surrounding developments and the significance of these effects has been discussed in detail below:

- The assessment has indicated that of the 145 receptors tested for 1-10 Summers Street, there is a major magnitude of change for 32 receptors, a moderate magnitude of change for 7 receptors and a minor magnitude of change for 19 receptors. Consequently, it is believed that there is likely to be a major adverse effect for the 32 receptors having the greatest reduction in daylight and that can lead the occupants to observe a significant loss of light and rooms to appear darker.
- The assessment has indicated that of the 39 receptors tested for 2 Eyre St Hill, there is a minor magnitude of change for 3 receptors located on the 2<sup>nd</sup> floor, where a maximum VSC reduction of 27% is calculated. Overall, there is likely to be a localised moderate to minor adverse effect on the daylight receptors of 2 Eyre St Hill.

- The assessment has indicated that of the 31 receptors tested for 4 Back Hill, there is a minor magnitude of change for 1 receptor, where a VSC reduction from 0.02 to 0.00 is calculated. It should be noted that this reduction is calculated for W4 of the ground floor, which is assumed to be an upper glazed part of an entrance door, hence sensitivity of the daylight receptor has been considered to be minor.

#### 4.2. Impact on Sunlight Levels in the Surrounding Area

The sunlight assessment has been conducted for receptors of residential developments facing within 90° of due south. A summary of the APSH results is provided in Table 9 and the corresponding magnitude of impact in Table 10. A further summary of the WPSH results has been provided in Table 11 and their corresponding magnitude of impact in Table 12. A complete set of results are reported in Appendix 1 of this report.

Location	Total Assessed	No. of Receptors	BRE Compliance Criteria
1-10 Summers Street	129	104	Above
		25	Below
2 Eyre St Hill	10	9	Above
		1	Below
150-152 Clerkenwell Road	0	N/A	N/A
Jameson House	0	N/A	N/A
3 Back Hill	0	N/A	N/A
4 Back Hill	0	N/A	N/A
5 Back Hill	0	N/A	N/A
6-10 Back Hill	0	N/A	N/A

Table 9 Annual Probable Sunlight Hours Results

Location	Total Receptors faced by the development	No. of receptors	Magnitude of change
1-10 Summers Street	129	104	Negligible
		1	Minor
		8	Moderate
		16	Major
2 Eyre St Hillr	10	9	Negligible
		0	Minor
		1	Moderate
		0	Major
150-152 Clerkenwell Road	0	N/A	N/A
Jameson House	0	N/A	N/A
3 Back Hill	0	N/A	N/A
4 Back Hill	0	N/A	N/A
5 Back Hill	0	N/A	N/A
6-10 Back Hill	0	N/A	N/A

Table 10 Annual Probable Sunlight Hours Impact Magnitude

Location	Total Assessed	No. of Receptors	BRE Compliance Criteria
1-10 Summers Street	129	106	Above
		23	Below
2 Eyre St Hill	10	9	Above
		1	Below
150-152 Clerkenwell Road	0	N/A	N/A
Jameson House	0	N/A	N/A
3 Back Hill	0	N/A	N/A
4 Back Hill	0	N/A	N/A
5 Back Hill	0	N/A	N/A
6-10 Back Hill	0	N/A	N/A

Table 11 Winter Probable Sunlight Hours Results

Location	Total Receptors faced by the development	No. of receptors	Magnitude of change
1-10 Summers Street	129	106	Negligible
		0	Minor
		3	Moderate
		20	Major
Eyre St Hill	10	9	Negligible
		0	Minor
		0	Moderate
		1	Major
150-152 Clerkenwell Road	0	N/A	N/A
Jameson House	0	N/A	N/A
3 Back Hill	0	N/A	N/A
4 Back Hill	0	N/A	N/A
5 Back Hill	0	N/A	N/A
6-10 Back Hill	0	N/A	N/A

Table 12 Winter Probable Sunlight Hours Impact Magnitude

The following surrounding buildings don't comprise of any receptors facing within 90° of due south, therefore no PSH results are generated for them:

- 150 – 152 Cherkenwell Road
- Jameson House
- 3 Back Hill
- 4 Back Hill
- 5 Back Hill
- 6 – 10 Back Hill



Localised effects have been identified on the remaining surrounding developments and the significance of these effects has been discussed in detail below:

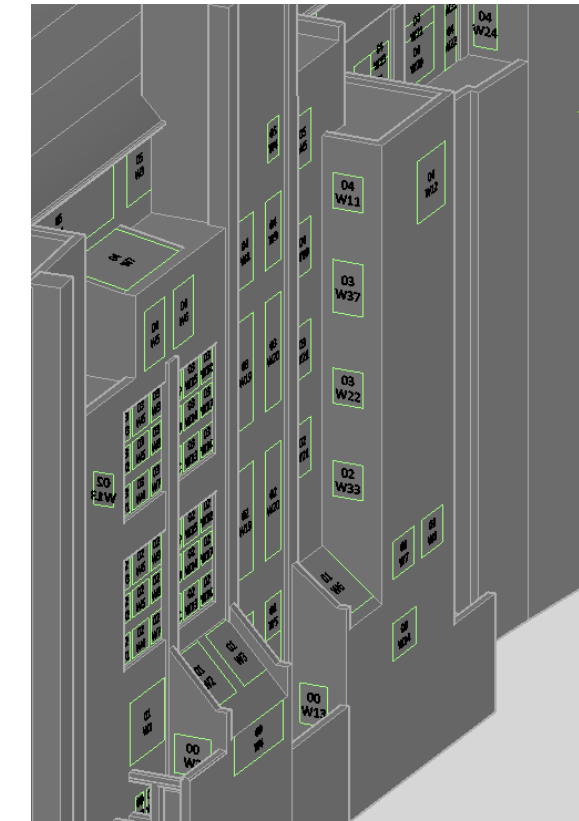
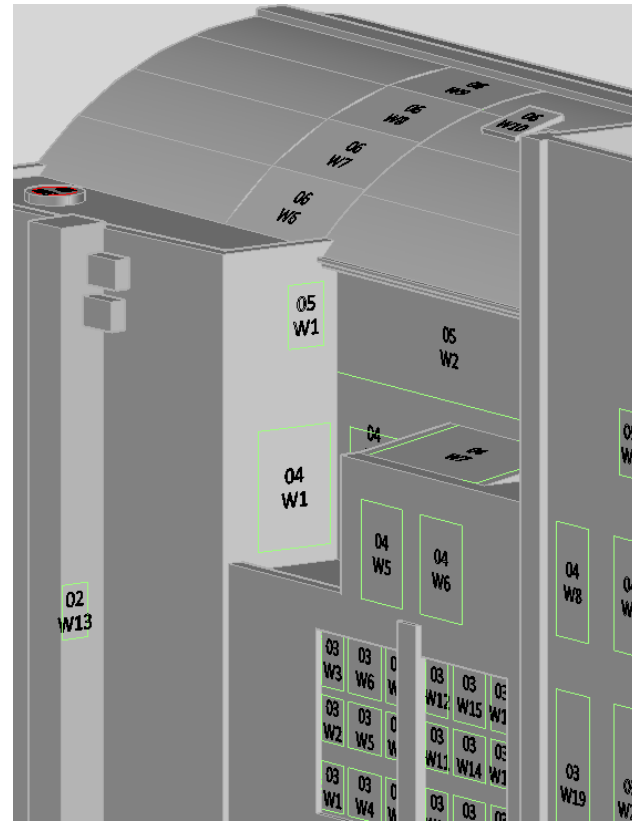
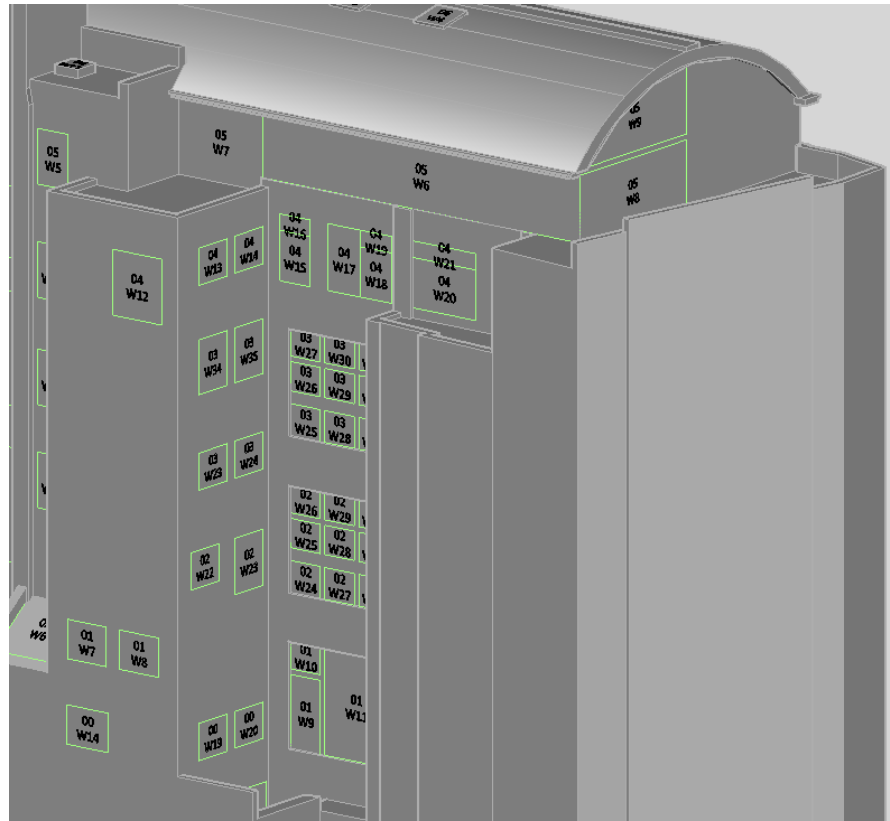
- The assessment has indicated that of the 129 receptors tested for 1-10 Summers Street, there is a major magnitude of change for 16 receptors in an annual basis and a major magnitude of change for 20 receptors in a winter basis. Furthermore, there is a moderate magnitude of change for 8 receptors annually and a moderate magnitude of change for 3 receptors during winter. Finally, there is a minor magnitude of change for 1 receptor in an annual basis. Overall, there is likely to be a major adverse effect on a significant amount of sunlight receptors of 1-10 Summers Street, the majority of which are located on the third floor. Additionally, results showed that a few of them can experience a reduction greater than 90% which can make the loss of sunlight highly noticeable by the occupants.
- The assessment has indicated that of the 10 receptors tested for 2 Eyre Street Hill, there is a moderate magnitude of change for 1 receptor in an annual basis and a major magnitude of change for 1 receptor on a winter basis. Therefore, there is likely to be a localised major to moderate adverse effect throughout the year which can become major during wintertime. Nonetheless, given the fact that there is only one receptor failing the criteria and considering there are solely 2 hours during winter that it might experience the major adverse effect, it can be argued that the overall effect is insignificant.



Appendix 1 – Results

1-10 Summers Street





Ground floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	0.86	0.97	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.84				0			0		
<u>W2</u>	Existing	0.79	0.92	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.73				0			0		
<u>W3</u>	Existing	0.78	0.79	NO	265°	0	0.00	YES	0	0.00	YES
	Proposed	0.62				0			0		
<u>W4</u>	Existing	0.32	1.06	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.34				0			0		
<u>W6</u>	Existing	0.80	1.02	YES	85°N			*North*			*North*
	Proposed	0.82									
<u>W7</u>	Existing	1.42	0.95	YES	85°N			*North*			*North*
	Proposed	1.35									
<u>W8</u>	Existing	0.64	1.03	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.66				0			0		
<u>W9</u>	Existing	0.66	1.01	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.67				0			0		
<u>W10</u>	Existing	1.18	1.01	YES	265°	0	0.00	YES	0	0.00	YES
	Proposed	1.20				0			0		



Ground floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W11	Existing	1.48	1.01	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	1.50				0			0		
W12	Existing	1.59	1.01	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	1.62				0			0		
W13	Existing	2.01	1.01	YES	265°	0	0.00	YES	0	0.00	YES
	Proposed	2.04				0			0		
W14	Existing	0.33	1.00	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.33				0			0		
W15	Existing	0.27	0.62	NO	85°N		*North*			*North*	
	Proposed	0.17									
W16	Existing	0.46	0.78	NO	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.36				0			0		
W17	Existing	0.46	0.82	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.38				0			0		
W18	Existing	0.09	1.00	YES	263°	0	0.00	YES	0	0.00	YES
	Proposed	0.09				0			0		
W19	Existing	0.47	0.48	NO	85°N		*North*			*North*	
	Proposed	0.23									
W20	Existing	0.53	0.54	NO	85°N		*North*			*North*	
	Proposed	0.29									

First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	2.00	0.93	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	1.87				0			0		
W2	Existing	11.36	0.99	YES	175° Inc	0	0.00	YES	0	0.00	YES
	Proposed	11.28				0			0		
W3	Existing	11.41	1.00	YES	175° Inc	0	0.00	YES	0	0.00	YES
	Proposed	11.43				0			0		
W4	Existing	2.65	0.98	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	2.62				0			0		
W5	Existing	2.44	0.99	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	2.43				0			0		
W6	Existing	8.77	1.01	YES	175° Inc	1	1.00	YES	0	0.00	YES
	Proposed	8.88				1			0		
W7	Existing	0.64	0.98	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.63				0			0		
W8	Existing	0.58	0.98	YES	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.57				0			0		
W9	Existing	0.94	0.64	NO	175°	0	0.00	YES	0	0.00	YES
	Proposed										



First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	Proposed	0.61				0			0		
W10	Existing	1.13	0.56	NO	175°	2	0.00	YES	0	0.00	YES
	Proposed	1.50				0			0		
W11	Existing	0.65	0.75	NO	175°	1	0.00	YES	0	0.00	YES
	Proposed	0.49				0			0		

Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	4.00	0.78	NO	175°	4	1.00	YES	0	0.00	YES
	Proposed	3.12				4			0		
W2	Existing	6.11	0.72	NO	175°	14	0.64	NO	0	0.00	YES
	Proposed	4.46				9			0		
W3	Existing	8.41	0.65	NO	175°	23	0.60	NO	0	0.00	YES
	Proposed	5.49				14			0		
W4	Existing	4.58	0.86	YES	175°	4	0.50	YES	0	0.00	YES
	Proposed	3.98				2			0		
W5	Existing	6.90	0.86	YES	175°	14	0.85	YES	0	0.00	YES
	Proposed	6.00				12			0		
W6	Existing	9.40	0.80	YES	175°	26	0.69	NO	0	0.00	YES
	Proposed	7.55				18			0		
W7	Existing	3.84	0.92	YES	175°	1	1.00	YES	0	0.00	YES
	Proposed	3.56				1			0		
W8	Existing	5.95	0.93	YES	175°	9	0.88	YES	0	0.00	YES
	Proposed	5.54				8			0		
W9	Existing	8.50	0.83	YES	175°	19	0.84	YES	0	0.00	YES
	Proposed	7.11				16			0		
W10	Existing	4.75	0.92	YES	175°	4	0.50	YES	0	0.00	YES
	Proposed	4.37				2			0		
W11	Existing	7.08	0.90	YES	175°	16	0.75	YES	0	0.00	YES
	Proposed	6.40				12			0		
W12	Existing	9.79	0.81	YES	175°	26	0.69	NO	0	0.00	YES
	Proposed	7.93				18			0		
W13	Existing	5.24	0.92	YES	175°	4	0.75	YES	0	0.00	YES
	Proposed	4.83				3			0		
W14	Existing	7.69	0.90	YES	175°	16	0.81	YES	0	0.00	YES
	Proposed	6.96				13			0		
W15	Existing	10.28	0.80	YES	175°	27	0.70	NO	0	0.00	YES
	Proposed	8.32				19			0		
W16	Existing	5.04	0.91	YES	175°	3	0.66	YES	0	0.00	YES
	Proposed	4.63				2			0		





Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W17	Existing	7.47	0.89	YES	175°	15	0.66	NO	0	0.00	YES
	Proposed	6.69				10			0		
W18	Existing	10.16	0.79	NO	175°	26	0.65	NO	0	0.00	YES
	Proposed	8.11				17			0		
W19	Existing	7.37	0.86	YES	175°	16	0.56	NO	0	0.00	YES
	Proposed	6.40				9			0		
W20	Existing	6.91	0.85	YES	175°	12	0.91	YES	0	0.00	YES
	Proposed	5.91				11			0		
W21	Existing	7.32	0.79	NO	175°	16	0.68	NO	0	0.00	YES
	Proposed	5.82				11			0		
W22	Existing	2.11	0.30	NO	85°N		*North*			*North*	
	Proposed	0.65									
W23	Existing	2.02	0.39	NO	85°N		*North*			*North*	
	Proposed	0.80									
W24	Existing	2.73	0.50	NO	175°	5	0.40	YES	0	0.00	YES
	Proposed	1.37				2			0		
W25	Existing	4.00	0.45	NO	175°	7	0.28	NO	0	0.00	YES
	Proposed	1.81				2			0		
W26	Existing	4.93	0.38	NO	175°	9	0.33	NO	0	0.00	YES
	Proposed	1.91				3			0		
W27	Existing	2.47	0.57	NO	175°	7	0.28	NO	0	0.00	YES
	Proposed	1.42				2			0		
W28	Existing	3.54	0.52	NO	175°	7	0.42	YES	0	0.00	YES
	Proposed	1.85				3			0		
W29	Existing	4.19	0.46	NO	175°	9	0.55	YES	0	0.00	YES
	Proposed	1.96				5			0		
W30	Existing	0.35	0.71	NO	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.25				0			0		
W31	Existing	0.55	0.61	NO	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.34				0			0		
W32	Existing	0.36	0.55	NO	175°	0	0.00	YES	0	0.00	YES
	Proposed	0.20				0			0		
W33	Existing	5.70	0.97	YES	265°	3	1.00	YES	0	0.00	YES
	Proposed	5.56				3			0		

Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	19.66	0.74	NO	175°	48	0.75	YES	6	0.00	NO
	Proposed	14.56				36			0		
W2	Existing	23.69	0.82	YES	175°	55	0.89	YES	12	0.66	YES



Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	Proposed	19.66				49			8		
<a href="#">W3</a>	Existing	25.84	0.91	YES	175°	63	0.90	YES	19	0.68	YES
	Proposed	23.59				57			13		
<a href="#">W4</a>	Existing	20.09	0.75	NO	175°	49	0.75	YES	5	0.00	NO
	Proposed	15.26				37			0		
<a href="#">W5</a>	Existing	24.29	0.82	YES	175°	58	0.87	YES	12	0.66	YES
	Proposed	20.16				51			8		
<a href="#">W6</a>	Existing	26.64	0.90	YES	175°	66	0.90	YES	19	0.68	YES
	Proposed	24.12				60			13		
<a href="#">W7</a>	Existing	18.09	0.76	NO	175°	41	0.75	YES	6	0.00	NO
	Proposed	13.86				31			0		
<a href="#">W8</a>	Existing	22.25	0.83	YES	175°	47	0.89	YES	10	0.60	YES
	Proposed	18.50				42			6		
<a href="#">W9</a>	Existing	25.03	0.90	YES	175°	56	0.94	YES	17	0.82	YES
	Proposed	22.56				53			14		
<a href="#">W10</a>	Existing	19.53	0.75	NO	175°	49	0.75	YES	5	0.00	NO
	Proposed	14.70				37			0		
<a href="#">W11</a>	Existing	23.83	0.80	YES	175°	56	0.87	YES	11	0.63	YES
	Proposed	19.29				49			7		
<a href="#">W12</a>	Existing	26.81	0.87	YES	175°	65	0.89	YES	20	0.70	YES
	Proposed	23.34				58			14		
<a href="#">W13</a>	Existing	20.49	0.75	NO	175°	50	0.82	YES	3	0.00	NO
	Proposed	15.56				41			0		
<a href="#">W14</a>	Existing	25.13	0.80	YES	175°	64	0.82	YES	14	0.50	YES
	Proposed	20.24				53			7		
<a href="#">W15</a>	Existing	28.23	0.85	YES	175°	70	0.90	YES	18	0.66	YES
	Proposed	24.24				63			12		
<a href="#">W16</a>	Existing	20.23	0.74	NO	175°	50	0.78	YES	4	0.00	NO
	Proposed	15.01				39			0		
<a href="#">W17</a>	Existing	25.02	0.77	NO	175°	61	0.80	YES	14	0.42	YES
	Proposed	19.45				49			6		
<a href="#">W18</a>	Existing	28.27	0.82	YES	175°	66	0.87	YES	19	0.63	YES
	Proposed	23.46				58			12		
<a href="#">W19</a>	Existing	26.79	0.69	NO	175°	63	0.73	YES	16	0.37	YES
	Proposed	18.57				46			6		
<a href="#">W20</a>	Existing	26.64	0.64	NO	175°	61	0.77	YES	16	0.43	YES
	Proposed	17.17				47			7		
<a href="#">W21</a>	Existing	19.97	0.57	NO	175°	43	0.55	NO	12	0.00	NO
	Proposed	11.58				24			0		
<a href="#">W22</a>	Existing	10.45	0.88	YES	265°	20	0.65	NO	0	0.00	YES
	Proposed	9.26				13			0		



Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W23</u>	Existing	6.74	0.21	NO	85°N		*North*			*North*	
	Proposed	1.45									
<u>W24</u>	Existing	6.27	0.30	NO	85°N		*North*			*North*	
	Proposed	1.91									
<u>W25</u>	Existing	11.41	0.37	NO	175°	22	0.31	NO	4	0.00	NO
	Proposed	4.29				7			0		
<u>W26</u>	Existing	16.52	0.37	NO	175°	36	0.27	NO	8	0.00	NO
	Proposed	6.18				10			0		
<u>W27</u>	Existing	19.34	0.37	NO	175°	44	0.36	NO	13	0.23	NO
	Proposed	7.34				16			3		
<u>W28</u>	Existing	10.06	0.41	NO	175°	18	0.38	NO	3	0.00	NO
	Proposed	4.22				7			0		
<u>W29</u>	Existing	16.96	0.35	NO	175°	31	0.25	NO	7	0.00	NO
	Proposed	6.03				8			0		
<u>W30</u>	Existing	22.10	0.31	NO	175°	44	0.22	NO	15	0.13	NO
	Proposed	7.02				10			2		
<u>W31</u>	Existing	4.26	0.30	NO	175°	5	0.00	NO	0	0.00	YES
	Proposed	1.30				0			0		
<u>W32</u>	Existing	12.91	0.17	NO	175°	24	0.08	NO	4	0.00	NO
	Proposed	2.22				2			0		
<u>W33</u>	Existing	19.90	0.12	NO	175°	38	0.10	NO	13	0.00	NO
	Proposed	2.44				4			0		
<u>W34</u>	Existing	17.45	0.26	NO	85°N		*North*			*North*	
	Proposed	4.61									
<u>W35</u>	Existing	15.01	0.34	NO	85°N		*North*			*North*	
	Proposed	5.12									
<u>W36</u>	Existing	9.56	0.21	NO	265°	24	0.00	NO	7	0.00	NO
	Proposed	2.10				0			0		
<u>W37</u>	Existing	16.43	0.85	YES	265°	39	0.74	YES	11	0.45	YES
	Proposed	14.08				29			5		

Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	16.95	0.98	YES	85°N		*North*			*North*	
	Proposed	16.67									
<u>W2</u>	Existing	22.41	0.99	YES	175°	45	1.00	YES	17	1.00	YES
	Proposed	22.25				45			17		
<u>W3</u>	Existing	24.75	0.99	YES	175°	48	1.00	YES	18	1.00	YES
	Proposed	24.74				48			18		
<u>W4</u>	Existing	16.34	1.00	YES	175°	33	1.00	YES	13	1.00	YES



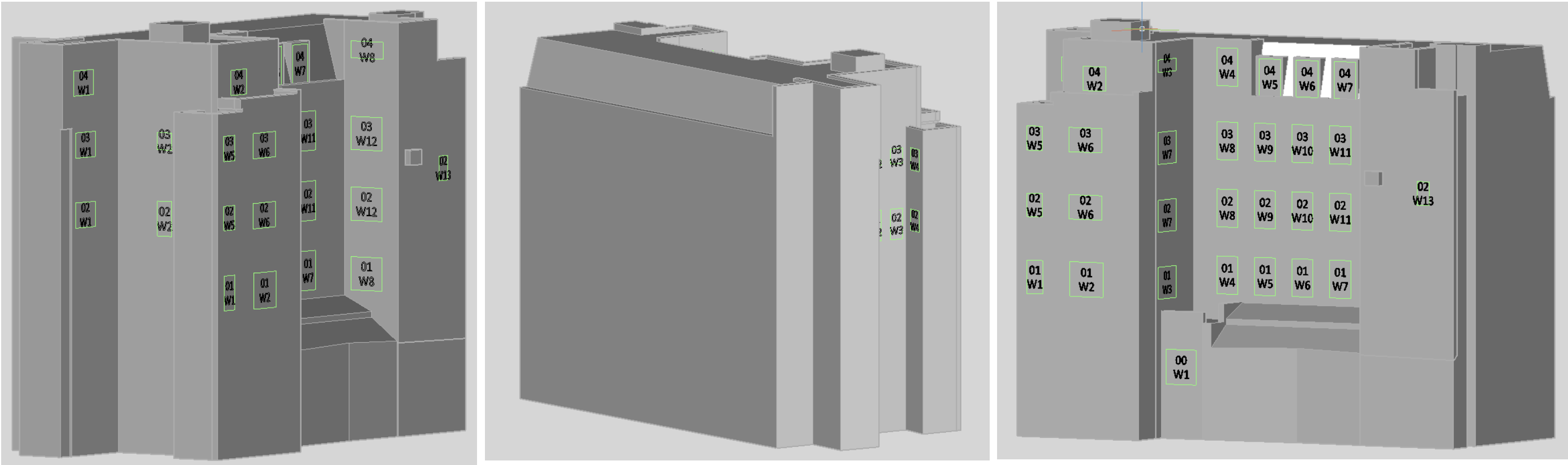
Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	Proposed	16.34				33			13		
<a href="#">W5</a>	Existing	33.03	0.96	YES	175°	79	0.97	YES	26	0.92	YES
	Proposed	31.90				77			24		
<a href="#">W6</a>	Existing	33.79	0.95	YES	175°	82	0.95	YES	26	0.84	YES
	Proposed	32.18				78			22		
<a href="#">W7</a>	Existing	59.48	1.00	YES	175° Inc	76	1.00	YES	27	1.00	YES
	Proposed	59.48				76			27		
<a href="#">W8</a>	Existing	34.63	0.93	YES	175°	81	0.97	YES	26	0.92	YES
	Proposed	32.46				79			24		
<a href="#">W9</a>	Existing	34.20	0.92	YES	175°	75	0.97	YES	24	0.91	YES
	Proposed	31.78				73			22		
<a href="#">W10</a>	Existing	26.61	0.81	YES	175°	53	0.86	YES	21	0.66	YES
	Proposed	21.63				46			14		
<a href="#">W11</a>	Existing	19.31	0.97	YES	265°	42	0.97	YES	14	0.92	YES
	Proposed	18.78				41			13		
<a href="#">W12</a>	Existing	34.84	0.65	NO	175°	84	0.73	YES	27	0.29	YES
	Proposed	22.73				62			8		
<a href="#">W13</a>	Existing	24.32	0.77	NO	85°N		*North*			*North*	
	Proposed	18.94									
<a href="#">W14</a>	Existing	18.79	0.79	NO	85°N		*North*			*North*	
	Proposed	14.89									
<a href="#">W15</a>	Existing	24.79	0.75	NO	175°	53	0.84	YES	16	0.68	YES
	Proposed	18.77				45			11		
<a href="#">W16</a>	Existing	29.32	0.94	YES	175°	65	1.00	YES	19	1.00	YES
	Proposed	27.60				65			19		
<a href="#">W17</a>	Existing	32.13	0.59	NO	175°	72	0.70	YES	21	0.38	YES
	Proposed	19.18				51			8		
<a href="#">W18</a>	Existing	32.94	0.38	NO	175°	74	0.50	YES	23	0.04	NO
	Proposed	12.59				37			1		
<a href="#">W19</a>	Existing	34.63	0.75	NO	175°	77	0.84	YES	25	0.52	YES
	Proposed	25.98				65			13		
<a href="#">W20</a>	Existing	33.52	0.45	NO	175°	73	0.57	YES	24	0.00	NO
	Proposed	15.25				42			0		
<a href="#">W21</a>	Existing	35.09	0.82	YES	175°	78	0.92	YES	25	0.76	YES
	Proposed	28.83				72			19		
<a href="#">W22</a>	Existing	26.96	0.44	NO	175°	55	0.54	YES	21	0.00	NO
	Proposed	12.02				30			0		
<a href="#">W23</a>	Existing	30.00	0.84	YES	175°	63	0.90	YES	23	0.73	YES
	Proposed	25.41				57			17		
<a href="#">W24</a>	Existing	16.91	0.56	NO	266°	42	0.45	NO	15	0.00	NO
	Proposed	9.63				19			0		



Fifth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	21.16	1.00	YES	85°N		*North*			*North*	
	Proposed	21.16									
W2	Existing	32.23	1.00	YES	175°	71	1.00	YES	27	1.00	YES
	Proposed	32.23				71			27		
W3	Existing	21.26	1.00	YES	175°	47	1.00	YES	20	1.00	YES
	Proposed	21.26				47			20		
W4	Existing	37.68	1.00	YES	175°	84	1.00	YES	30	1.00	YES
	Proposed	37.68				84			30		
W5	Existing	36.90	1.00	YES	175°	83	1.00	YES	30	1.00	YES
	Proposed	36.90				83			30		
W6	Existing	33.01	1.00	YES	175°	78	1.00	YES	29	1.00	YES
	Proposed	33.01				78			29		
W7	Existing	28.48	1.00	YES	175°	62	1.00	YES	23	1.00	YES
	Proposed	28.48				62			23		
W8	Existing	33.93	1.00	YES	85°N		*North*			*North*	
	Proposed	33.93									
W9	Existing	35.19	1.00	YES	85°N		*North*			*North*	
	Proposed	35.19									

Sixth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	98.76	1.00	YES	175° Inc	98	1.00	YES	28	1.00	YES
	Proposed	98.76				98			28		
W2	Existing	97.84	1.00	YES	175° Inc	98	1.00	YES	28	1.00	YES
	Proposed	97.84				98			28		
W3	Existing	98.20	1.00	YES	175° Inc	99	1.00	YES	29	1.00	YES
	Proposed	98.20				99			29		
W4	Existing	98.29	1.00	YES	175° Inc	99	1.00	YES	29	1.00	YES
	Proposed	98.29				99			29		
W5	Existing	97.46	1.00	YES	90° Hz	99	1.00	YES	30	1.00	YES
	Proposed	97.46				99			30		
W6	Existing	81.06	1.00	YES	175° Inc	97	1.00	YES	30	1.00	YES
	Proposed	81.06				97			30		
W7	Existing	89.32	1.00	YES	175° Inc	98	1.00	YES	30	1.00	YES
	Proposed	89.32				98			30		
W8	Existing	95.53	1.00	YES	175° Inc	98	1.00	YES	30	1.00	YES
	Proposed	95.53				98			30		
W9	Existing	98.59	1.00	YES	175° Inc	98	1.00	YES	30	1.00	YES
	Proposed	98.59				98			30		

2 Eyre St Hill



Ground floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	5.53	0.96	YES	80°N		*North*		*North*	
	Proposed	5.36								

First floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	16.39	0.89	YES	80°N		*North*		*North*	
	Proposed	14.63								
<u>W2</u>	Existing	19.70	0.87	YES	80°N		*North*		*North*	
	Proposed	17.33								
<u>W3</u>	Existing	6.25	0.91	YES	350°N		*North*		*North*	
	Proposed	5.73								
<u>W4</u>	Existing	11.23	0.87	YES	80°N		*North*		*North*	
	Proposed	9.87								
<u>W5</u>	Existing	9.71	0.84	YES	80°N		*North*		*North*	



First floor											
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
	Proposed	8.23									
<u>W6</u>	Existing	9.08	0.83	YES	80°N		*North*		*North*		
	Proposed	7.55									
<u>W7</u>	Existing	8.56	0.83	YES	80°N		*North*		*North*		
	Proposed	7.18									
<u>W8</u>	Existing	5.05	0.94	YES	171°	6	0.83	YES	0	0.00	YES
	Proposed	4.79				5			0		

Second floor											
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
<u>W1</u>	Existing	7.64	0.99	YES	83°N		*North*		*North*		
	Proposed	7.63									
<u>W2</u>	Existing	4.76	1.00	YES	170°	7	1.00	YES	0	0.00	YES
	Proposed	4.76				7			0		
<u>W3</u>	Existing	4.02	1.00	YES	170°	6	1.00	YES	0	0.00	YES
	Proposed	4.02				6			0		
<u>W4</u>	Existing	3.01	1.00	YES	266°	4	1.00	YES	0	0.00	YES
	Proposed	3.01				4			0		
<u>W5</u>	Existing	21.12	0.96	YES	80°N		*North*		*North*		
	Proposed	20.38									
<u>W6</u>	Existing	26.11	0.95	YES	80°N		*North*		*North*		
	Proposed	24.85									
<u>W7</u>	Existing	15.66	0.86	YES	350°N		*North*		*North*		
	Proposed	13.58									
<u>W8</u>	Existing	19.81	0.87	YES	80°N		*North*		*North*		
	Proposed	17.32									
<u>W9</u>	Existing	23.80	0.81	YES	80°N		*North*		*North*		
	Proposed	19.48									
<u>W10</u>	Existing	24.96	0.74	NO	80°N		*North*		*North*		
	Proposed	18.62									
<u>W11</u>	Existing	23.64	0.72	NO	80°N		*North*		*North*		
	Proposed	17.11									
<u>W12</u>	Existing	15.23	0.73	NO	171°	38	0.60	NO	5	0.40	NO
	Proposed	11.24				23			2		
<u>W13</u>	Existing	21.43	0.91	YES	81°N		*North*		*North*		
	Proposed	19.69									



Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	17.36	1.00	YES	83°N		*North*			*North*	
	Proposed	17.36									
W2	Existing	18.08	1.00	YES	170°	32	1.00	YES	8	1.00	YES
	Proposed	18.08				32			8		
W3	Existing	14.92	1.00	YES	170°	29	1.00	YES	9	1.00	YES
	Proposed	14.92				29			9		
W4	Existing	9.34	1.00	YES	266°	20	1.00	YES	4	1.00	YES
	Proposed	9.34				20			4		
W5	Existing	28.02	0.99	YES	80°N		*North*			*North*	
	Proposed	27.97									
W6	Existing	31.65	0.99	YES	80°N		*North*			*North*	
	Proposed	31.57									
W7	Existing	21.49	0.99	YES	350°N		*North*			*North*	
	Proposed	21.45									
W8	Existing	23.56	0.99	YES	80°N		*North*			*North*	
	Proposed	23.54									
W9	Existing	28.44	0.99	YES	80°N		*North*			*North*	
	Proposed	28.40									
W10	Existing	29.66	0.99	YES	80°N		*North*			*North*	
	Proposed	29.56									
W11	Existing	27.97	0.99	YES	80°N		*North*			*North*	
	Proposed	27.79									
W12	Existing	21.15	0.99	YES	171°	48	1.00	YES	10	1.00	YES
	Proposed	21.00				48			10		

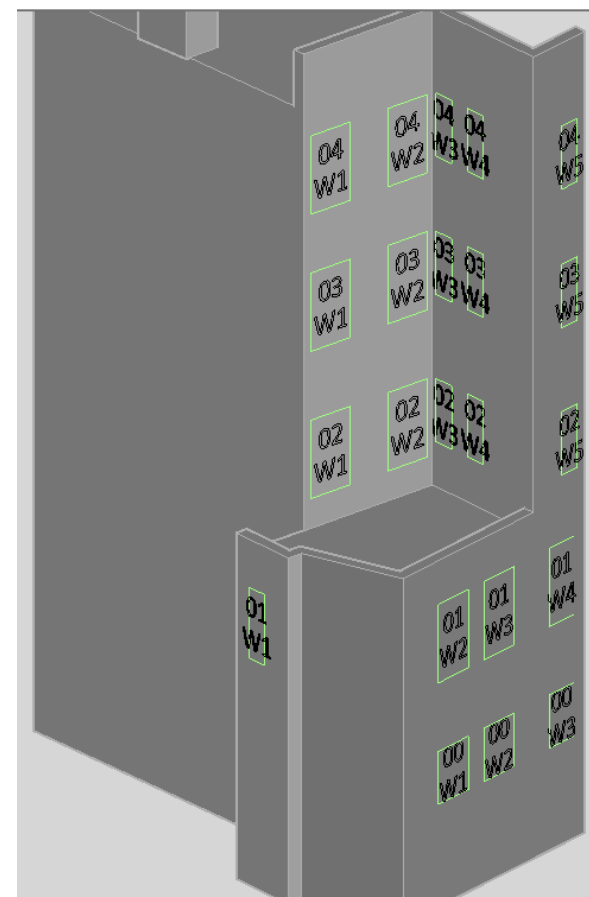
Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	30.40	1.00	YES	83°N		*North*			*North*	
	Proposed	30.40									
W2	Existing	35.90	1.00	YES	80°N		*North*			*North*	
	Proposed	35.90									
W3	Existing	32.89	1.00	YES	350°N		*North*			*North*	
	Proposed	32.89									
W4	Existing	32.18	1.00	YES	80°N		*North*			*North*	
	Proposed	32.18									
W5	Existing	32.60	1.00	YES	80°N		*North*			*North*	
	Proposed	32.60									
W6	Existing	34.66	1.00	YES	80°N		*North*			*North*	
	Proposed	34.66									
W7	Existing	33.35	1.00	YES	80°N		*North*			*North*	
	Proposed										





Fourth floor											
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
	Proposed	33.35									
<a href="#">W8</a>	Existing	34.33	1.00	YES	171°	81	1.00	YES	24	1.00	YES
	Proposed	34.33				81			24		

### 3 Back Hill



Ground floor											
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
<a href="#">W1</a>	Existing	5.95	0.99	YES	273°N		*North*			*North*	
	Proposed	5.93									
<a href="#">W2</a>	Existing	5.84	0.95	YES	273°N		*North*			*North*	
	Proposed	5.57									
<a href="#">W3</a>	Existing	4.31	0.93	YES	273°N		*North*			*North*	
	Proposed	4.04									



First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	1.41	0.80	YES	17°N		*North*			*North*	
	Proposed	1.14									
<u>W2</u>	Existing	10.33	0.95	YES	273°N		*North*			*North*	
	Proposed	9.89									
<u>W3</u>	Existing	8.94	0.95	YES	273°N		*North*			*North*	
	Proposed	8.52									
<u>W4</u>	Existing	4.77	0.93	YES	273°N		*North*			*North*	
	Proposed	4.46									

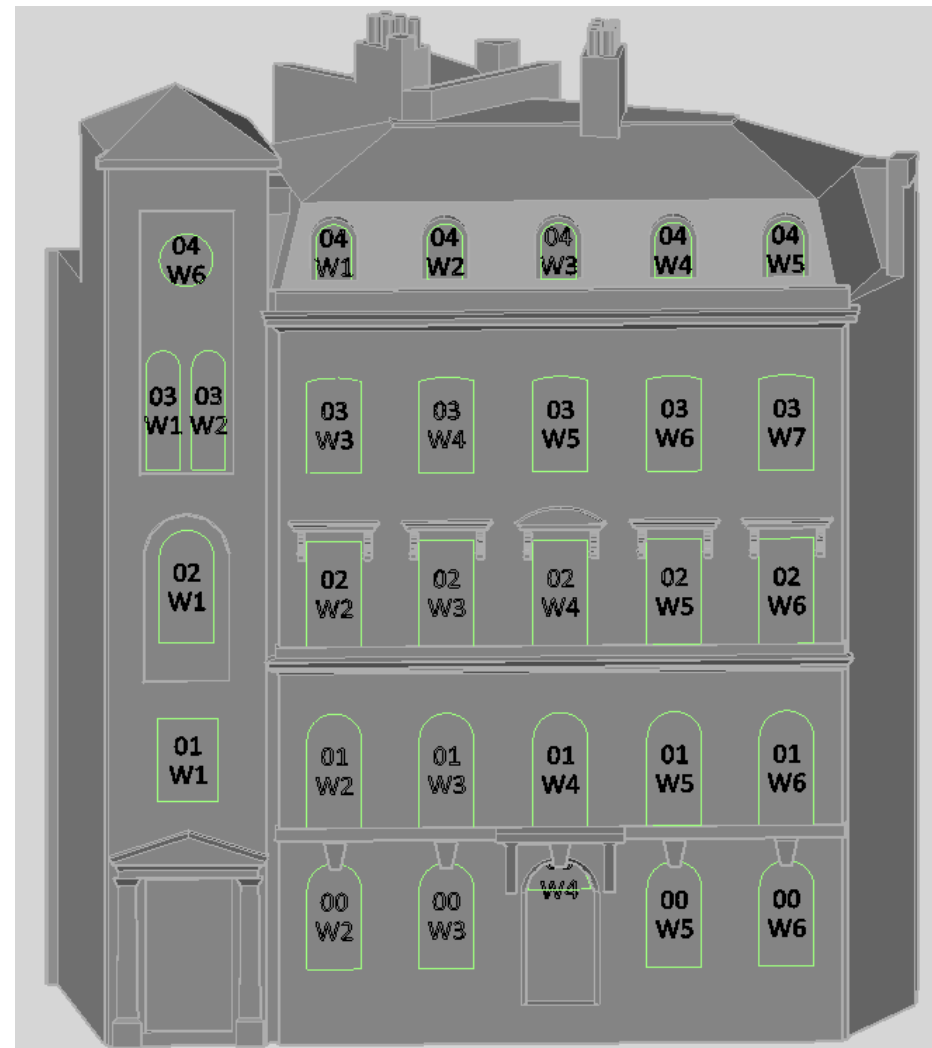
Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	13.32	0.99	YES	283°N		*North*			*North*	
	Proposed	13.22									
<u>W2</u>	Existing	11.87	0.97	YES	283°N		*North*			*North*	
	Proposed	11.54									
<u>W3</u>	Existing	9.30	0.90	YES	17°N		*North*			*North*	
	Proposed	8.46									
<u>W4</u>	Existing	11.17	0.90	YES	17°N		*North*			*North*	
	Proposed	10.16									
<u>W5</u>	Existing	8.68	0.97	YES	273°N		*North*			*North*	
	Proposed	8.42									

Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	18.43	0.99	YES	283°N		*North*			*North*	
	Proposed	18.30									
<u>W2</u>	Existing	15.21	0.97	YES	283°N		*North*			*North*	
	Proposed	14.84									
<u>W3</u>	Existing	12.57	0.92	YES	17°N		*North*			*North*	
	Proposed	11.58									
<u>W4</u>	Existing	15.93	0.90	YES	17°N		*North*			*North*	
	Proposed	14.47									
<u>W5</u>	Existing	12.05	0.99	YES	273°N		*North*			*North*	
	Proposed	11.95									



Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	24.37	1.00	YES	283°N		*North*			*North*	
	Proposed	24.37									
<u>W2</u>	Existing	18.89	0.99	YES	283°N		*North*			*North*	
	Proposed	18.84									
<u>W3</u>	Existing	15.35	0.98	YES	17°N		*North*			*North*	
	Proposed	15.18									
<u>W4</u>	Existing	21.00	0.98	YES	17°N		*North*			*North*	
	Proposed	20.59									
<u>W5</u>	Existing	17.85	1.00	YES	273°N		*North*			*North*	
	Proposed	17.85									

#### 4 Back Hill





Ground floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	0.00	0.00	YES	283°N		*North*			*North*	
	Proposed	0.00									
<u>W2</u>	Existing	12.92	0.94	YES	283°N		*North*			*North*	
	Proposed	12.25									
<u>W3</u>	Existing	12.55	0.95	YES	283°N		*North*			*North*	
	Proposed	11.93									
<u>W4</u>	Existing	0.02	0.00	NO	283°N		*North*			*North*	
	Proposed	0.00									
<u>W5</u>	Existing	12.54	0.96	YES	283°N		*North*			*North*	
	Proposed	12.05									
<u>W6</u>	Existing	12.90	0.96	YES	283°N		*North*			*North*	
	Proposed	12.49									

First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	17.79	0.91	YES	283°N		*North*			*North*	
	Proposed	16.36									
<u>W2</u>	Existing	16.90	0.92	YES	283°N		*North*			*North*	
	Proposed	15.59									
<u>W3</u>	Existing	16.73	0.92	YES	283°N		*North*			*North*	
	Proposed	15.52									
<u>W4</u>	Existing	16.63	0.93	YES	283°N		*North*			*North*	
	Proposed	15.53									
<u>W5</u>	Existing	16.55	0.94	YES	283°N		*North*			*North*	
	Proposed	15.58									
<u>W6</u>	Existing	16.54	0.95	YES	283°N		*North*			*North*	
	Proposed	15.74									

Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	24.50	0.90	YES	283°N		*North*			*North*	
	Proposed	22.13									
<u>W2</u>	Existing	23.65	0.90	YES	283°N		*North*			*North*	
	Proposed	21.33									
<u>W3</u>	Existing	23.50	0.90	YES	283°N		*North*			*North*	
	Proposed	21.28									
<u>W4</u>	Existing	23.31	0.91	YES	283°N		*North*			*North*	
	Proposed	21.29									



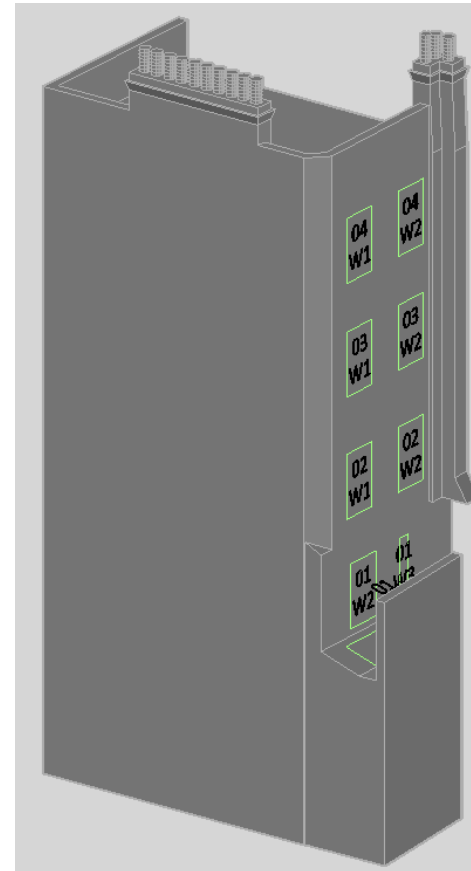
Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W5</u>	Existing	23.09	0.92	YES	283°N		*North*			*North*	
	Proposed	21.35									
<u>W6</u>	Existing	22.85	0.93	YES	283°N		*North*			*North*	
	Proposed	21.46									

Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	31.29	0.93	YES	283°N		*North*			*North*	
	Proposed	29.41									
<u>W2</u>	Existing	31.38	0.94	YES	283°N		*North*			*North*	
	Proposed	29.50									
<u>W3</u>	Existing	30.90	0.93	YES	283°N		*North*			*North*	
	Proposed	28.85									
<u>W4</u>	Existing	30.79	0.93	YES	283°N		*North*			*North*	
	Proposed	28.87									
<u>W5</u>	Existing	30.64	0.94	YES	283°N		*North*			*North*	
	Proposed	28.95									
<u>W6</u>	Existing	30.42	0.95	YES	283°N		*North*			*North*	
	Proposed	29.02									
<u>W7</u>	Existing	30.12	0.96	YES	283°N		*North*			*North*	
	Proposed	29.11									

Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	34.58	1.00	YES	283°N		*North*			*North*	
	Proposed	34.58									
<u>W2</u>	Existing	35.64	1.00	YES	283°N		*North*			*North*	
	Proposed	35.64									
<u>W3</u>	Existing	35.79	1.00	YES	283°N		*North*			*North*	
	Proposed	35.79									
<u>W4</u>	Existing	35.80	1.00	YES	283°N		*North*			*North*	
	Proposed	35.80									
<u>W5</u>	Existing	35.77	1.00	YES	283°N		*North*			*North*	
	Proposed	35.77									
<u>W6</u>	Existing	34.64	1.00	YES	283°N		*North*			*North*	
	Proposed	34.64									



### 5 Back Hill



First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	0.00	0.00	YES	283°N		*North*			*North*	
	Proposed	0.00									
W2	Existing	7.62	0.97	YES	283°N		*North*			*North*	
	Proposed	7.42									
W3	Existing	4.75	0.95	YES	283°N		*North*			*North*	
	Proposed	4.53									

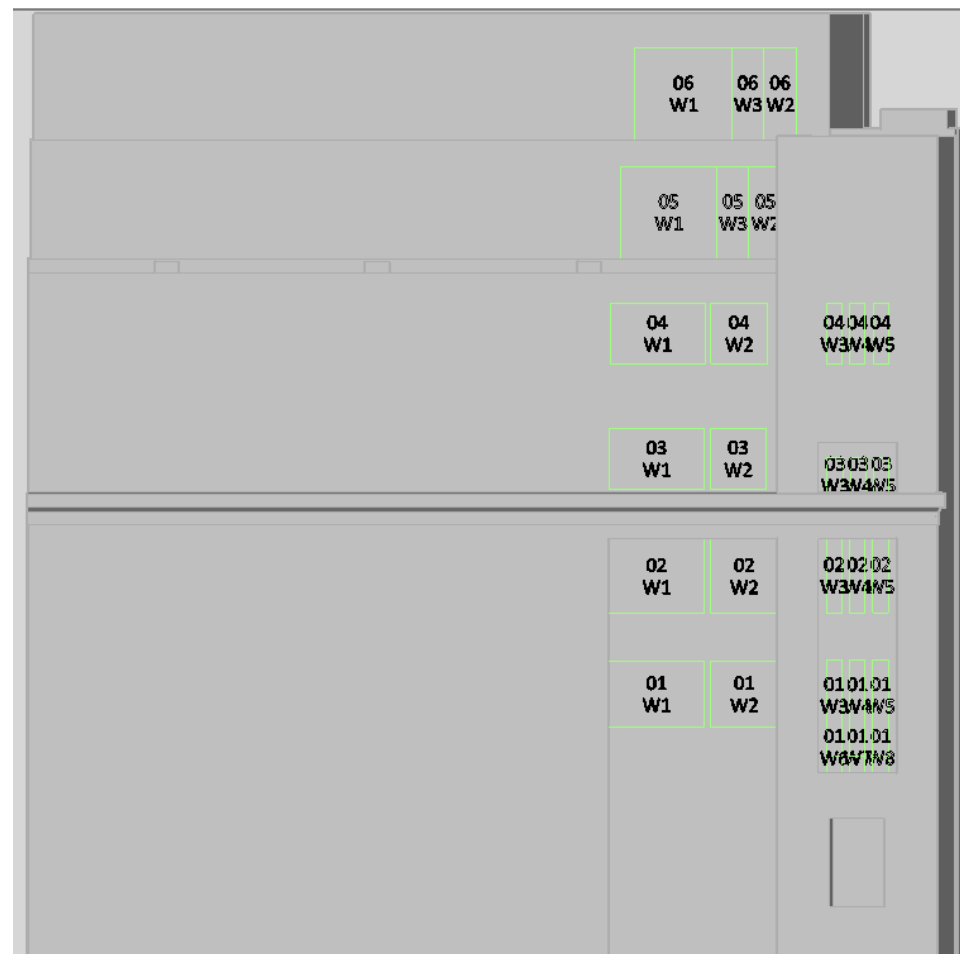
Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	10.75	0.95	YES	283°N		*North*			*North*	
	Proposed	10.25									
W2	Existing	13.63	0.96	YES	283°N		*North*			*North*	
	Proposed	13.17									



Third floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	18.37	0.87	YES	283°N		*North*		*North*	
	Proposed	16.16								
<u>W2</u>	Existing	20.98	0.95	YES	283°N		*North*		*North*	
	Proposed	20.14								

Fourth floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	29.74	0.93	YES	283°N		*North*		*North*	
	Proposed	27.89								
<u>W2</u>	Existing	28.47	0.97	YES	283°N		*North*		*North*	
	Proposed	27.67								

### 6-10 Back Hill





First floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	17.50	0.93	YES	279°N		*North*			*North*	
	Proposed	16.32									
W2	Existing	17.34	0.92	YES	279°N		*North*			*North*	
	Proposed	16.03									
W3	Existing	16.15	0.92	YES	279°N		*North*			*North*	
	Proposed	14.86									
W4	Existing	16.72	0.92	YES	279°N		*North*			*North*	
	Proposed	15.41									
W5	Existing	16.52	0.92	YES	279°N		*North*			*North*	
	Proposed	15.22									
W6	Existing	14.05	0.93	YES	279°N		*North*			*North*	
	Proposed	13.10									
W7	Existing	14.61	0.93	YES	279°N		*North*			*North*	
	Proposed	13.65									
W8	Existing	14.41	0.93	YES	279°N		*North*			*North*	
	Proposed	13.44									

Second floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	21.95	0.91	YES	279°N		*North*			*North*	
	Proposed	20.05									
W2	Existing	22.18	0.90	YES	279°N		*North*			*North*	
	Proposed	20.06									
W3	Existing	21.91	0.89	YES	279°N		*North*			*North*	
	Proposed	19.70									
W4	Existing	22.41	0.90	YES	279°N		*North*			*North*	
	Proposed	20.19									
W5	Existing	22.31	0.89	YES	279°N		*North*			*North*	
	Proposed	20.07									

Third floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
W1	Existing	28.87	0.92	YES	279°N		*North*			*North*	
	Proposed	26.82									
W2	Existing	29.27	0.92	YES	279°N		*North*			*North*	
	Proposed	27.09									
W3	Existing	27.72	0.91	YES	279°N		*North*			*North*	





Third floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	Proposed	25.38								
<u>W4</u>	Existing	28.24	0.91	YES	279°N		*North*		*North*	
	Proposed	25.90								
<u>W5</u>	Existing	28.05	0.91	YES	279°N		*North*		*North*	
	Proposed	25.71								

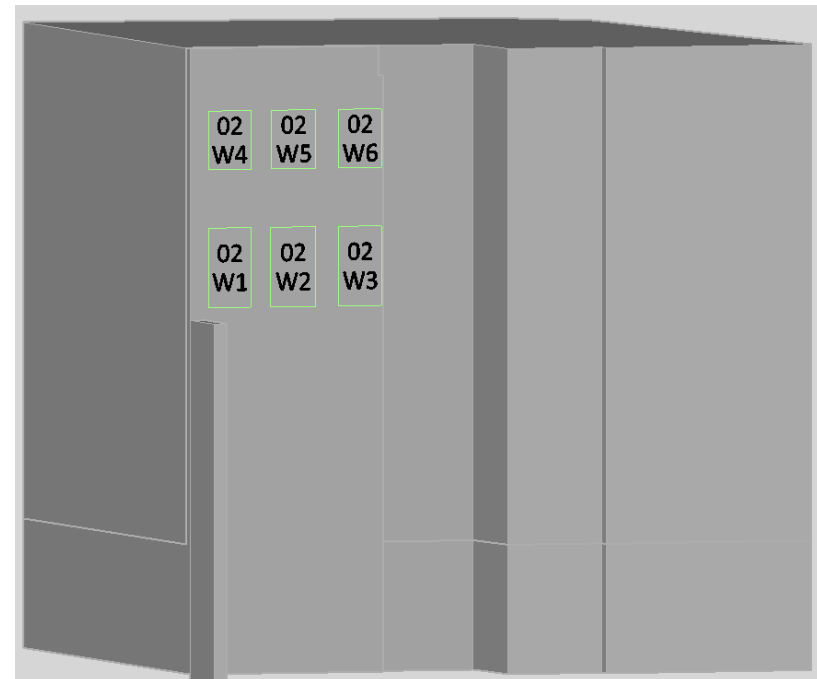
Fourth floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	33.72	0.99	YES	279°N		*North*		*North*	
	Proposed	33.40								
<u>W2</u>	Existing	33.94	0.98	YES	279°N		*North*		*North*	
	Proposed	33.60								
<u>W3</u>	Existing	34.25	0.98	YES	279°N		*North*		*North*	
	Proposed	33.89								
<u>W4</u>	Existing	34.30	0.98	YES	279°N		*North*		*North*	
	Proposed	33.95								
<u>W5</u>	Existing	34.34	0.98	YES	279°N		*North*		*North*	
	Proposed	33.98								

Fifth floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	36.15	1.00	YES	279°N		*North*		*North*	
	Proposed	36.15								
<u>W2</u>	Existing	25.83	1.00	YES	279°N		*North*		*North*	
	Proposed	25.83								
<u>W3</u>	Existing	31.69	1.00	YES	279°N		*North*		*North*	
	Proposed	31.69								

Sixth floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	39.36	1.00	YES	279°N		*North*		*North*	
	Proposed	39.36								
<u>W2</u>	Existing	39.33	1.00	YES	279°N		*North*		*North*	
	Proposed	39.33								
<u>W3</u>	Existing	39.34	1.00	YES	279°N		*North*		*North*	
	Proposed	39.34								



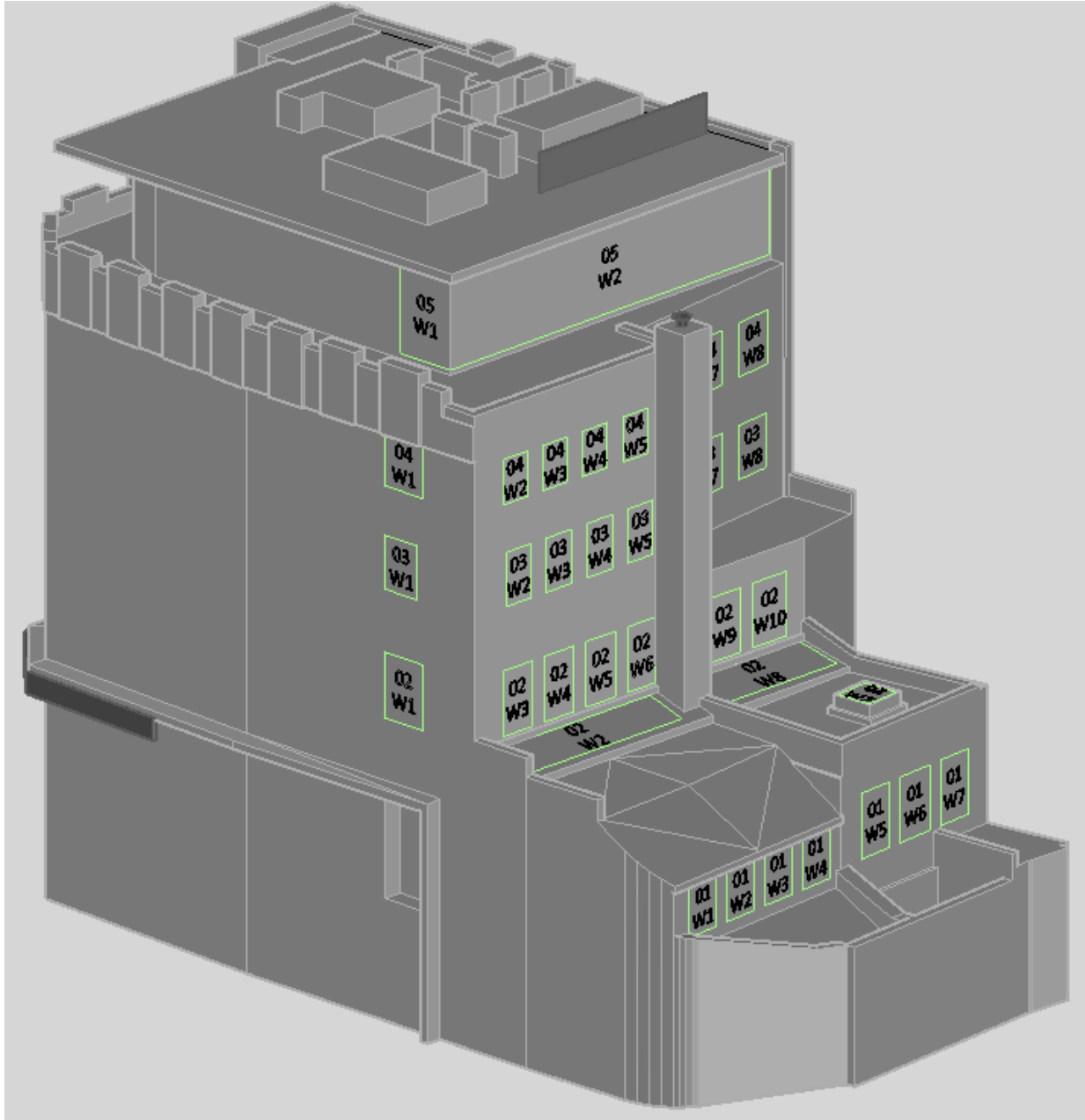
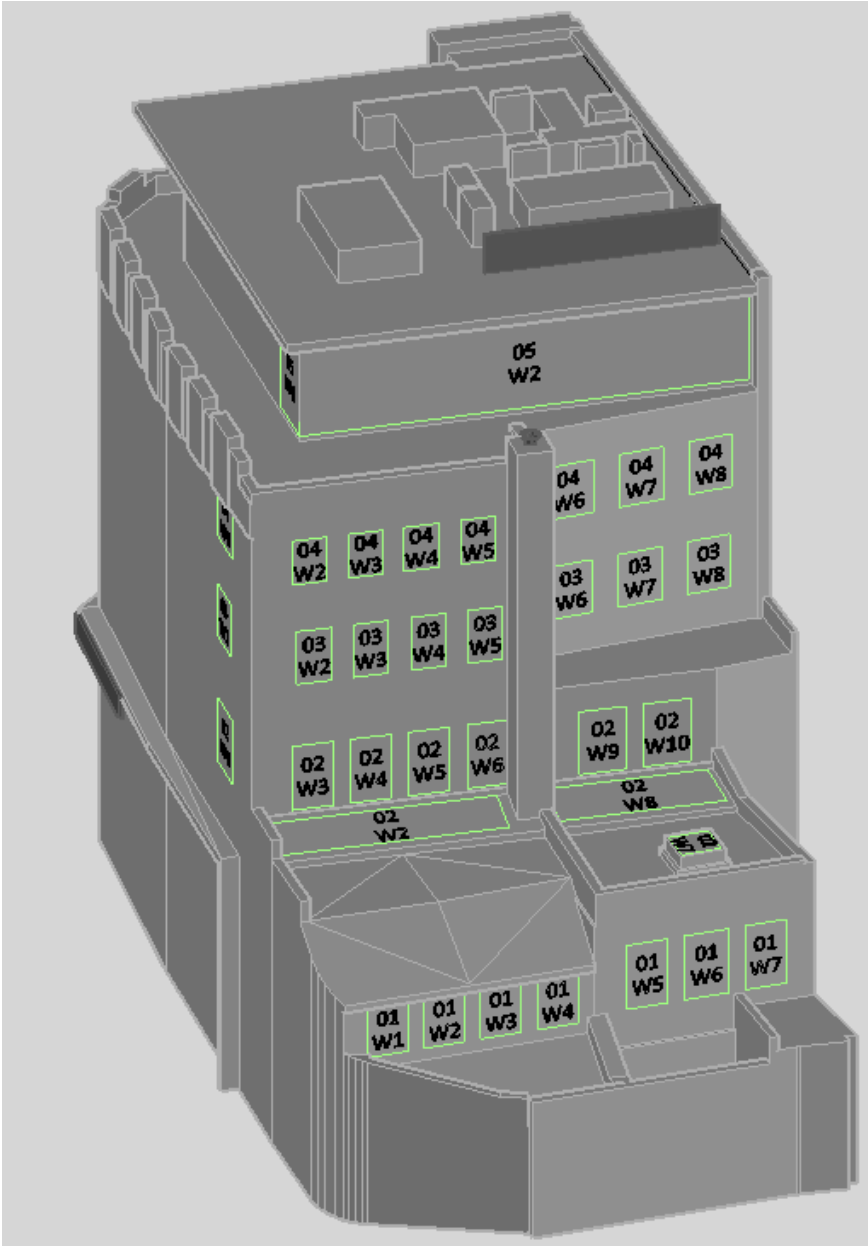
150-152 Cleckernwell Rd



Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	5.14	0.97	YES	352°N		*North*			*North*	
	Proposed	5.03									
<u>W2</u>	Existing	3.81	0.99	YES	352°N		*North*			*North*	
	Proposed	3.80									
<u>W3</u>	Existing	2.94	1.00	YES	352°N		*North*			*North*	
	Proposed	2.94									
<u>W4</u>	Existing	10.74	0.99	YES	352°N		*North*			*North*	
	Proposed	10.72									
<u>W5</u>	Existing	8.52	1.00	YES	352°N		*North*			*North*	
	Proposed	8.52									
<u>W6</u>	Existing	6.28	1.00	YES	352°N		*North*			*North*	
	Proposed	6.28									



Jameson house



First floor											
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria	
<u>W1</u>	Existing	1.66	0.90	YES	355°N		*North*		*North*		
<u>W2</u>	Proposed	1.50									
<u>W2</u>	Existing	1.87	0.90	YES	355°N		*North*		*North*		



First floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
	Proposed	1.69								
<u>W3</u>	Existing	2.01	0.90	YES	355°N		*North*		*North*	
	Proposed	1.82								
<u>W4</u>	Existing	2.09	0.90	YES	355°N		*North*		*North*	
	Proposed	1.89								
<u>W5</u>	Existing	2.58	0.90	YES	355°N		*North*		*North*	
	Proposed	2.33								
<u>W6</u>	Existing	2.53	0.90	YES	355°N		*North*		*North*	
	Proposed	2.30								
<u>W7</u>	Existing	2.31	0.91	YES	355°N		*North*		*North*	
	Proposed	2.11								

Second floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	10.23	0.94	YES	89°N		*North*		*North*	
	Proposed	9.64								
<u>W2</u>	Existing	41.97	0.93	YES	359°N		*North*		*North*	
	Proposed	39.33								
<u>W3</u>	Existing	19.64	0.89	YES	359°N		*North*		*North*	
	Proposed	17.60								
<u>W4</u>	Existing	20.07	0.88	YES	359°N		*North*		*North*	
	Proposed	17.79								
<u>W5</u>	Existing	19.99	0.87	YES	359°N		*North*		*North*	
	Proposed	17.55								
<u>W6</u>	Existing	16.16	0.85	YES	359°N		*North*		*North*	
	Proposed	13.76								
<u>W7</u>	Existing	41.53	0.93	YES	86°N		*North*		*North*	
	Proposed	38.70								
<u>W8</u>	Existing	35.38	0.91	YES	359°N		*North*		*North*	
	Proposed	32.50								
<u>W9</u>	Existing	16.10	0.85	YES	359°N		*North*		*North*	
	Proposed	13.79								
<u>W10</u>	Existing	15.53	0.84	YES	359°N		*North*		*North*	
	Proposed	13.18								

Third floor										
Window Ref.	VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	17.69	0.94	YES	89°N		*North*		*North*	



	Proposed	16.74								
<u>W2</u>	Existing	26.61	0.93	YES	359°N		*North*			*North*
	Proposed	24.84								
<u>W3</u>	Existing	26.37	0.94	YES	359°N		*North*			*North*
	Proposed	24.84								
<u>W4</u>	Existing	25.64	0.94	YES	359°N		*North*			*North*
	Proposed	24.35								
<u>W5</u>	Existing	20.68	0.94	YES	359°N		*North*			*North*
	Proposed	19.60								
<u>W6</u>	Existing	15.20	0.99	YES	352°N		*North*			*North*
	Proposed	15.16								
<u>W7</u>	Existing	16.51	0.98	YES	352°N		*North*			*North*
	Proposed	16.29								
<u>W8</u>	Existing	11.78	0.97	YES	352°N		*North*			*North*
	Proposed	11.49								

Fourth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	26.58	0.99	YES	89°N		*North*			*North*	
	Proposed	26.32									
<u>W2</u>	Existing	30.70	0.98	YES	359°N		*North*			*North*	
	Proposed	30.39									
<u>W3</u>	Existing	30.41	0.99	YES	359°N		*North*			*North*	
	Proposed	30.17									
<u>W4</u>	Existing	29.62	0.99	YES	359°N		*North*			*North*	
	Proposed	29.45									
<u>W5</u>	Existing	24.90	0.99	YES	359°N		*North*			*North*	
	Proposed	24.79									
<u>W6</u>	Existing	20.72	1.00	YES	352°N		*North*			*North*	
	Proposed	20.72									
<u>W7</u>	Existing	22.75	1.00	YES	352°N		*North*			*North*	
	Proposed	22.75									
<u>W8</u>	Existing	17.00	0.99	YES	352°N		*North*			*North*	
	Proposed	16.98									
Fifth floor											
Window Ref.		VSC	Pr/Ex	Meets BRE Criteria	Window Orientation	Annual	Pr/Ex	Meets BRE Criteria	Winter	Pr/Ex	Meets BRE Criteria
<u>W1</u>	Existing	34.09	1.00	YES	89°N		*North*			*North*	
	Proposed	34.09									
<u>W2</u>	Existing	31.23	1.00	YES	359°N		*North*			*North*	
	Proposed	31.23									