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Internal Daylight Report 6-8 Market Place, Reading

30th July 2021

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Daylight Report

Daylight Levels in Proposed Development

Client: TENE LIVING UK (READING) LTD

Project: 6-8 Market Place, Reading, RG1 2EG

Date: 30th July 2021

Authors: Chris Jones, BEng (Hons) MSc.

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About MES Building Solutions

MES Building Solutions is an established consultancy practice specialising in providing building solutions throughout the UK.

We offer a full range of services for both residential and commercial buildings from small individual properties through to highly complex mixed use developments.

We are an industry leader in delivering a professional, accredited and certified service to a wide range of clients including architects, developers, builders, housing associations, the public sector and private householders.

Employing highly qualified staff, our team comes from a variety of backgrounds within the construction industry with combined knowledge of building design, engineering, assessment, construction, development, research and surveying.

MES Building Solutions maintains its position at the forefront of changes in building regulations as well as technological advances. Our clients, large or small are therefore assured of a cost effective, cohesive and fully integrated professional service.

About the Authors

Chris Jones is the Technical Director at MES Building Solutions. Chris has a Masters Degree in Energy Efficient & Sustainable Building, as well as an Honours degree in Mechanical Engineering. Chris has over 15 years' experience in providing sustainable building solutions and assists the Neighbourly Matters team at MES. He undertakes daylighting, sunlight and shadow cast analysis for planning applications. Chris is also a qualified BREEAM and Code for Sustainable Homes assessor and has worked with some of the UK's top developers, as well as housing associations and local authorities.

Andrew Pickersgill is an Associate member of the Royal Institution of Chartered Surveyors and leads our neighbourly matters team. He has a BSc (Hons) degree in Building Surveying. Andrew undertakes daylighting, sunlight and shadow analysis for planning applications. He is also involved in party wall issues and carries out other building surveying services for our clients.



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Section 1: Executive Summary

We have assessed the expected amount of natural daylight in one hundred and forty five habitable rooms within the proposed residential conversion of the upper floors of 6-8 Market Place, Reading, RG1 2EG and compared the results to the recognised BRE guidance figures.

All one hundred and forty five rooms have been assessed and all comfortably fulfil the planning guidance. Indeed, many of the spaces assessed would be regarded as benefiting from very high levels of natural daylight.

Therefore, in our opinion, the development achieves an effective and balanced level of daylight provision in line with the BRE planning guidance provided in Site Layout Planning for Daylight & Sunlight (*Littlefair 211*).



Section 2: Introduction

The purpose of this report is to assess the natural daylight levels in 145 habitable rooms within the proposed residential conversion of the upper floors of 6-8 Market Place, Reading, RG1 2EG.

This report considers the daylight issues against the criteria set out for national guidance in the following publications:

- Site Layout Planning for Daylight & Sunlight (SLPDS), PJ Littlefair 2011 published by the BRE (Building Research Establishment).

The SLPDS is the culmination of research undertaken by the BRE to determine whether or not a new development will achieve acceptable levels of internal daylight. The BRE tests are approved by the Department of the Environment and are widely used by local authorities when deciding on development applications.

- BS 8206-2- Code of practice for skylighting.

There are no minimum mandatory requirements for daylighting in Building Regulations for England & Wales but the guidance set out in SLPDS is widely accepted as the approved methodology when calculating light levels in habitable rooms.

It is worthy of note that SLPDS was first published in 1991 and BS 8206-2 in 1992. However SLPDS was updated in Oct 2011. We have undertaken this study on the basis of this guidance document.



Section 3: Assessment Process

The guidance states that rooms to be assessed should be living rooms, kitchens and bedrooms in residential properties. In non-domestic buildings rooms where occupants 'have a reasonable expectation of daylight' should be assessed. Although these spaces are not defined, examples are given of the type of non-domestic buildings that would normally fall into this category. These include schools, hospitals, hotels and hostels, small workshops and some offices.

It is important to note that the numerical values in the guidance are purely advisory and different criteria may be used based on the requirements for daylighting in an area viewed against other site layout constraints.

The parameter we have assessed is Average Daylight Factor (ADF).

A room reference plan identifying the assessed spaces can be found in Appendix 1.



Section 4: The amount of daylight in the proposed development:

Average Daylight Factors

The BRE guidance states daylight provision may be checked by using the Average Daylight Factor (ADF). The ADF is a measure of the overall amount of daylight in a space.

BS 8206-2 Code of Practice for Daylighting recommends the following values for residential buildings:

Kitchens	2%
Living Rooms	1.5%
Bedrooms	1%

Other non-habitable rooms need not be assessed.

The calculation of the Average Daylight Factor takes into account the following variables:

- The diffuse visible transmittance of the glazing (we have assumed a figure of 0.68 for double glazing).
- A maintenance factor, allowing for the effects of dirt.
- The net glazed area of the window.
- The total area of the room surfaces.
- The average reflectance of the rooms (we have assumed a light coloured room with a value of 0.65).
- The angle of the visible sky (taking into account external obstructions).

Results

Calculations were undertaken in accordance with the procedures shown in SLPDS. Our results show that all one hundred and forty five rooms assessed achieve ADF values that comfortably meet the BRE guidelines. Indeed; many of these rooms would be regarded as being very well-lit.

Spreadsheets containing the full results can be found in Appendix 2.



Section 6: Notes

This report has been prepared for the sole use of the Client. No representation or warranty (expressed or implied) is given to any other parties. Therefore, this report should not be relied upon by any third party and we accept no liability from the use of this report by any other party.

Our calculations have been carried out by using drawing numbers on the drawing register over leaf, and these drawings were produced and supplied by Head Office 3.

We are not aware of any conflicts of interest between ourselves and any other party concerning this project.

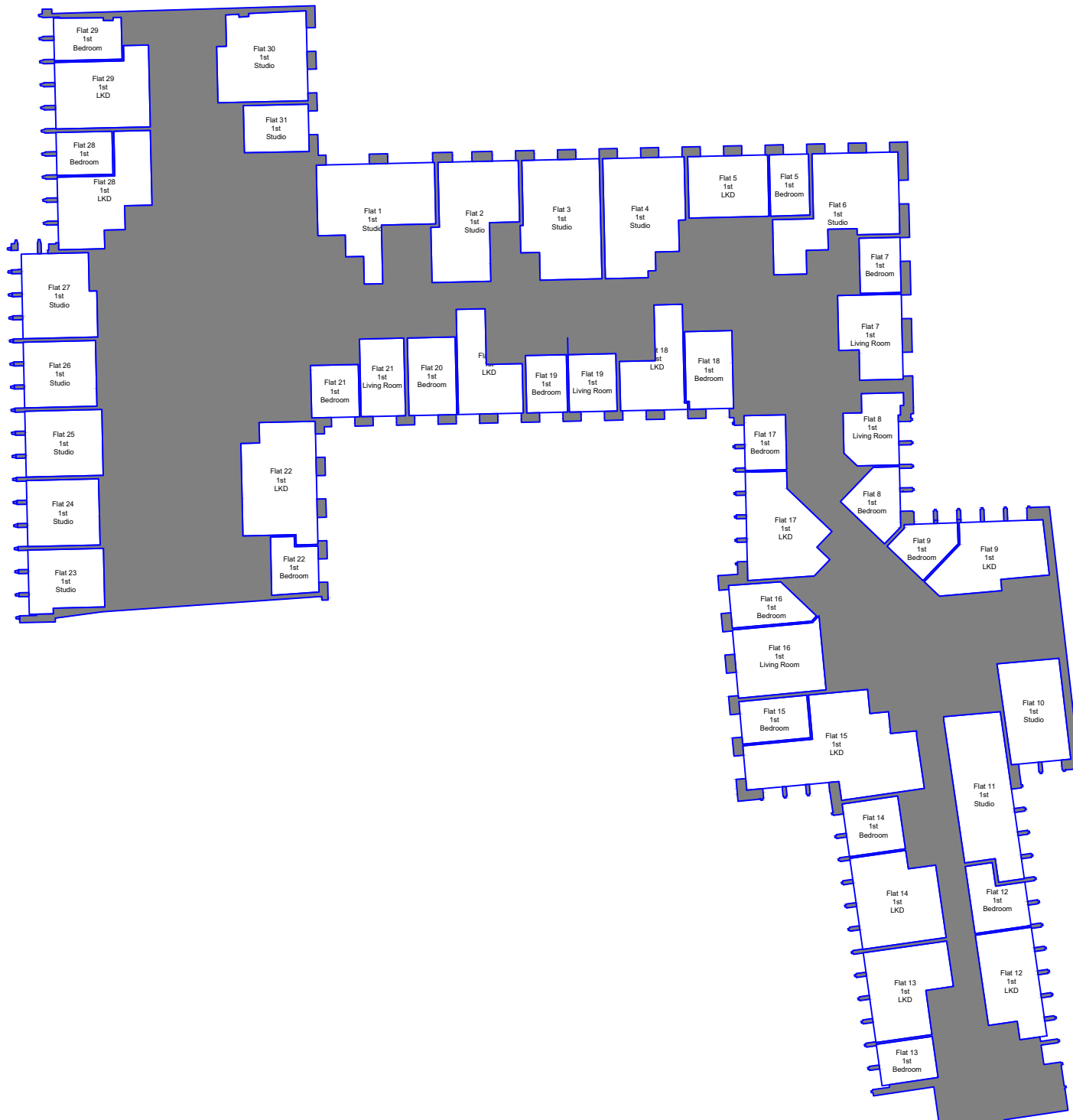


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Drawing Series			(All) Series - (All) Drawings							P00004									
				Date of Issue	Day	30													
Drawing No.	Scale	Size	Title	Month	07														
				Year	21														
(01) Existing																			
A(01)B1-101			1:200	A1	Existing Lower Ground Floor Plan		P1												
A(01)00-102			1:200	A1	Existing Ground Floor Plan		P1												
A(01)01-103			1:200	A1	Existing First Floor Plan		P1												
A(01)02-104			1:200	A1	Existing Second Floor Plan		P1												
A(01)03-105			1:200	A1	Existing Third Floor Plan		P1												
A(01)04-106			1:200	A1	Existing Fourth Floor Plan		P1												
(02) Location Plans																			
A(02)00-101			1:1250	A3	Location Plan		P1												
(03) GA Plans																			
A(03)B1-101			1:200	A1	Proposed Lower Ground Floor Plan		P2												
A(03)00-102			1:200	A1	Proposed Ground Floor Plan		P1												
A(03)01-203			1:200	A1	Proposed First Floor Plan		P1												
A(03)02-204			1:200	A1	Proposed Second Floor Plan		P1												
A(03)03-205			1:200	A1	Proposed Third Floor Plan		P1												
A(03)04-206			1:200	A1	Proposed Fourth Floor Plan		P1												
(04) GA Plans																			
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A(04)XX-102			1:200	A1	Existing Elevations Sheet 02		P1												
A(04)XX-103			1:200	A1	Existing Elevations Sheet 03		P1												
(90) Site																			
A(90)00-101			1:500	A3	Site Plan		P1												

Appendix 1: Room Reference Plans



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NOTES

NO.	REVISION	DATE
A	-	-
B	-	-
C	-	-
D	-	-



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CLIENT
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PROJECT
3-10 Market Place
Reading
RG1 2EG

DRAWING TITLE
ADF Plans
First Floor

DRAWN BY JB	CHECKED BY AP
DATE 30/07/2021	DRAWING NO. -
SCALE NTS	



NOTES

NO.	REVISION	DATE
A	-	-
B	-	-
C	-	-
D	-	-



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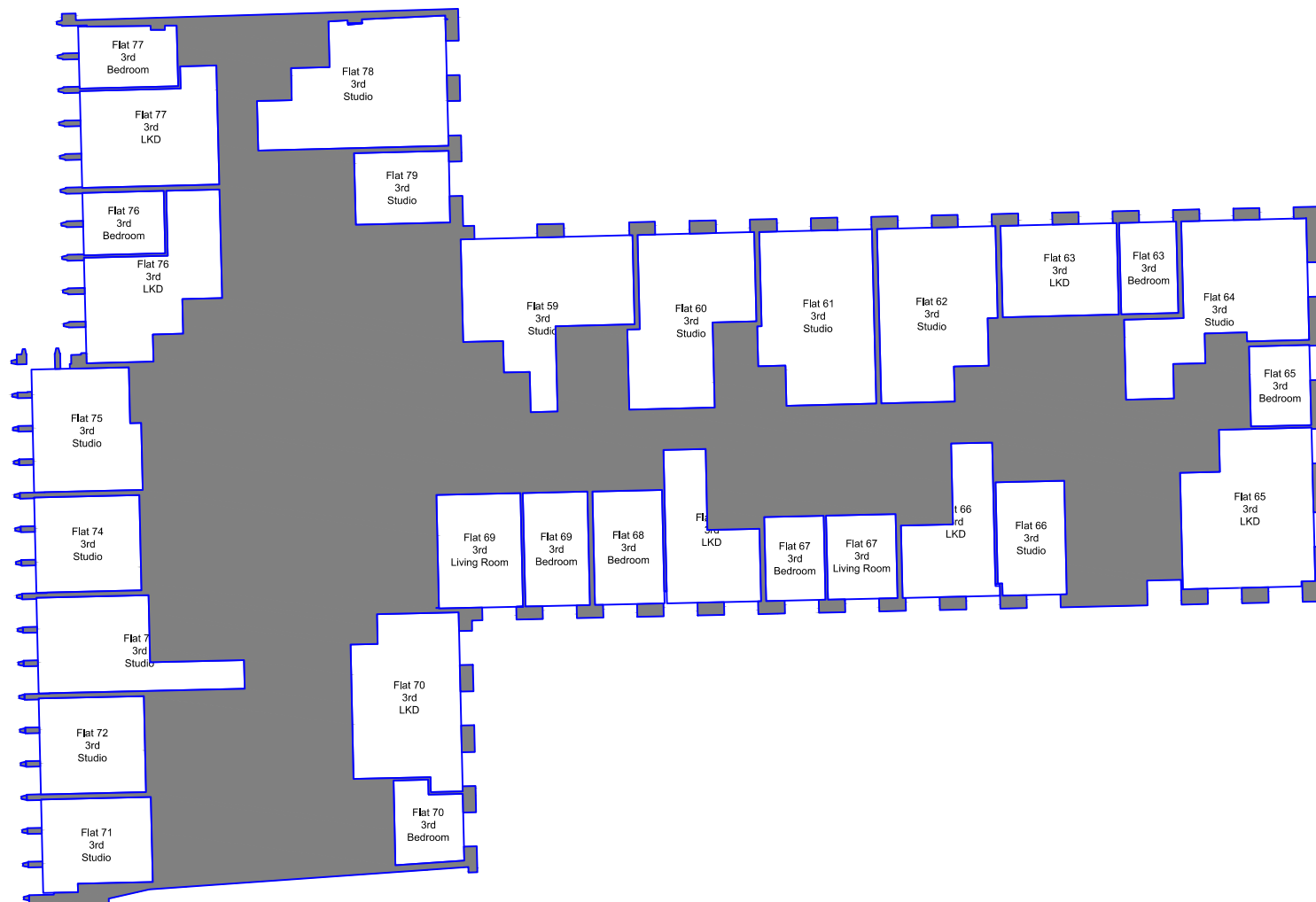
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ADF Plans
Second Floor

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SCALE NTS	



NOTES

NO.	REVISION	DATE
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B	-	-
C	-	-
D	-	-



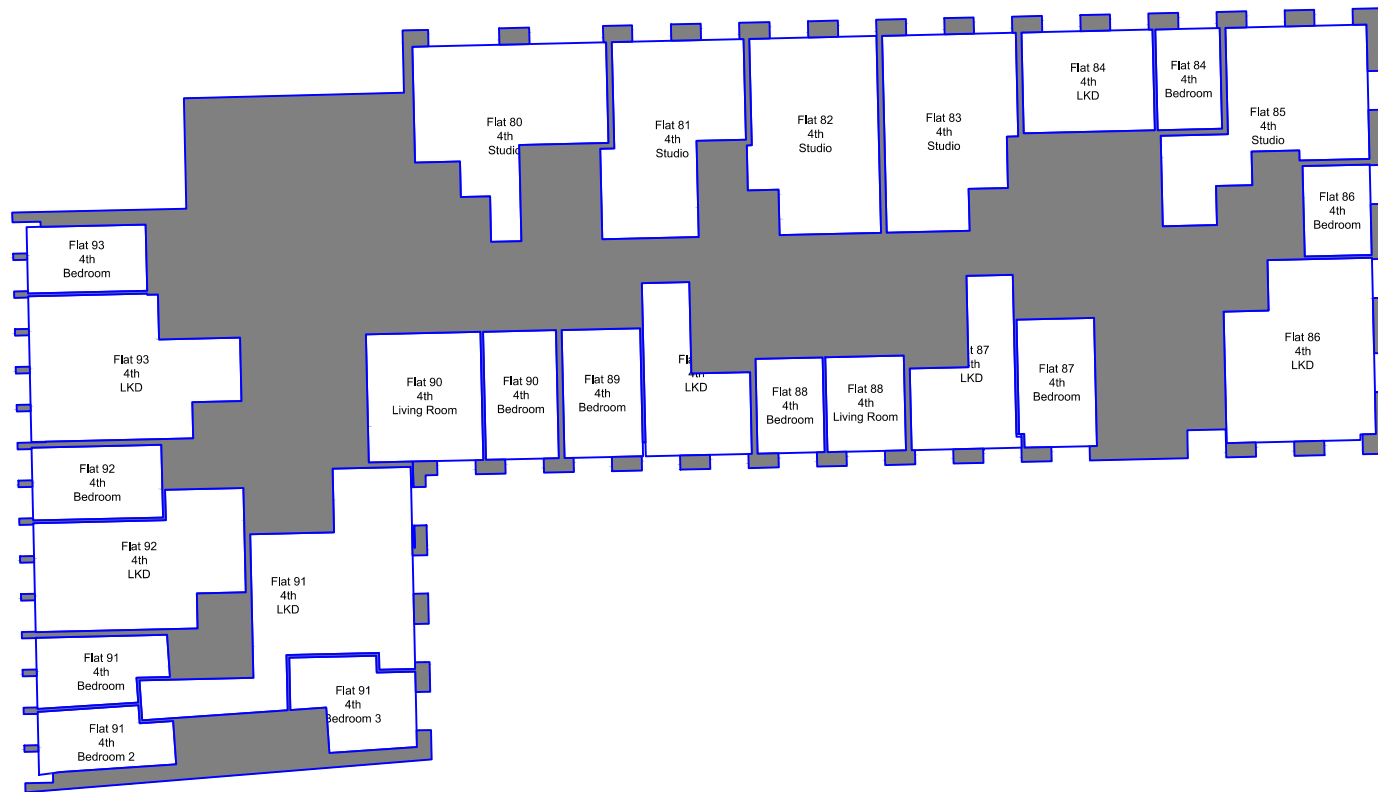
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ADF Plans
Third Floor

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DATE 30/07/2021	DRAWING NO. -
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NOTES

NO.	REVISION	DATE
A.	-	-
B.	-	-
C.	-	-
D.	-	-



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DRAWING TITLE
ADF Plans
Fourth Floor

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Appendix 2: Results Spreadsheets



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MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 1													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.15	42.29	134.05	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	3.58	44.00	134.05	0.60	1.00	1.25		
			W2-L	0.68	1.00	0.14	35.03	134.05	0.60	0.15	0.01		
			W2-U	0.68	1.00	3.44	36.41	134.05	0.60	1.00	0.99		
											2.26		
Flat 2													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	52.11	119.85	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.86	54.07	119.85	0.60	1.00	0.89		
			W2-L	0.68	1.00	0.06	46.94	119.85	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.55	48.85	119.85	0.60	1.00	0.67		
											1.57		
Flat 3													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	58.85	121.46	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.86	60.68	121.46	0.60	1.00	0.99		
			W2-L	0.68	1.00	0.08	56.15	121.46	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	58.06	121.46	0.60	1.00	0.95		
											1.95		
Flat 4													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	62.40	120.19	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.86	64.03	120.19	0.60	1.00	1.05		
			W2-L	0.68	1.00	0.08	60.97	120.19	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	62.72	120.19	0.60	1.00	1.03		
											2.10		
Flat 5													
1st	Bedroom	Bedsit	W1-L	0.68	1.00	0.08	62.93	46.64	0.60	0.15	0.02	1.50	YES
			W1-U	0.68	1.00	1.86	64.12	46.64	0.60	1.00	2.72		
											2.74		
1st	LKD	LKD	W2-L	0.68	1.00	0.08	63.36	75.99	0.60	0.15	0.01	2.00	YES
			W2-U	0.68	1.00	1.86	64.69	75.99	0.60	1.00	1.69		
			W3-L	0.68	1.00	0.08	63.19	75.99	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	64.67	75.99	0.60	1.00	1.68		
											3.39		
Flat 6													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	32.28	138.44	0.60	0.15	0.00	1.50	YES
			W1-U	0.68	1.00	1.89	32.57	138.44	0.60	1.00	0.47		
			W2-L	0.68	1.00	0.08	60.86	138.44	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	61.55	138.44	0.60	1.00	0.88		
			W3-L	0.68	1.00	0.08	61.98	138.44	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	63.04	138.44	0.60	1.00	0.90		
Flat 7													
1st	Bedroom	Bedroom	W3-L	0.68	1.00	0.08	32.51	44.28	0.60	0.15	0.01	1.00	YES
			W3-U	0.68	1.00	1.89	32.88	44.28	0.60	1.00	1.49		
											1.50		
1st	Living Room	Living Room	W1-L	0.68	1.00	0.08	32.89	77.53	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.89	33.71	77.53	0.60	1.00	0.87		
			W2-L	0.68	1.00	0.08	32.84	77.53	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.89	33.38	77.53	0.60	1.00	0.86		
											1.75		
Flat 8													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	22.68	53.07	0.60	0.15	0.00	1.00	YES
			W1-U	0.68	1.00	1.55	23.47	53.07	0.60	1.00	0.73		
			W2-L	0.68	1.00	0.06	26.51	53.07	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	27.79	53.07	0.60	1.00	0.86		
											1.60		
1st	Living Room	Living Room	W3-L	0.68	1.00	0.06	28.91	63.59	0.60	0.15	0.00	1.50	YES
			W3-U	0.68	1.00	1.55	30.31	63.59	0.60	1.00	0.79		
			W4-L	0.68	1.00	0.06	30.20	63.59	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.55	31.57	63.59	0.60	1.00	0.82		
											1.61		

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 9													
1st	Bedroom	Bedroom	W4-L	0.68	1.00	0.06	35.80	47.93	0.60	0.15	0.01	1.00	YES
			W4-U	0.68	1.00	1.55	36.69	47.93	0.60	1.00	1.26		
			W5-L	0.68	1.00	0.06	32.34	47.93	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	32.90	47.93	0.60	1.00	1.13		
			2.41										
1st	LKD	LKD	W1-L	0.68	1.00	0.06	40.69	98.21	0.60	0.15	0.00	2.00	YES
			W1-U	0.68	1.00	1.55	41.48	98.21	0.60	1.00	0.70		
			W2-L	0.68	1.00	0.06	39.74	98.21	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.55	40.64	98.21	0.60	1.00	0.68		
			W3-L	0.68	1.00	0.06	38.23	98.21	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.55	39.21	98.21	0.60	1.00	0.66		
			2.05										
Flat 10													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	52.99	91.27	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.55	56.70	91.27	0.60	1.00	1.02		
			W2-L	0.68	1.00	0.06	64.39	91.27	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	69.67	91.27	0.60	1.00	1.26		
			2.30										
Flat 11													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	62.17	129.33	0.60	0.15	0.00	1.50	YES
			W1-U	0.68	1.00	1.55	62.62	129.33	0.60	1.00	0.80		
			W2-L	0.68	1.00	0.06	60.91	129.33	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.55	61.43	129.33	0.60	1.00	0.78		
			W3-L	0.68	1.00	0.06	59.18	129.33	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.55	59.70	129.33	0.60	1.00	0.76		
			W4-L	0.68	1.00	0.06	55.91	129.33	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.55	56.40	129.33	0.60	1.00	0.72		
			3.08										
Flat 12													
1st	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	63.95	58.81	0.60	0.15	0.01	1.00	YES
			W6-U	0.68	1.00	1.55	64.37	58.81	0.60	1.00	1.80		
			W7-L	0.68	1.00	0.06	63.14	58.81	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.55	63.55	58.81	0.60	1.00	1.78		
3.60													
1st	LKD	LKD	W1-L	0.68	1.00	0.06	66.79	88.49	0.60	0.15	0.01	2.00	YES
			W1-U	0.68	1.00	1.55	67.34	88.49	0.60	1.00	1.25		
			W2-L	0.68	1.00	0.06	66.43	88.49	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	66.95	88.49	0.60	1.00	1.25		
			W3-L	0.68	1.00	0.06	65.91	88.49	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.55	66.40	88.49	0.60	1.00	1.24		
			W4-L	0.68	1.00	0.06	65.31	88.49	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	65.77	88.49	0.60	1.00	1.22		
			W5-L	0.68	1.00	0.06	64.70	88.49	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	65.14	88.49	0.60	1.00	1.21		
6.21													
Flat 13													
1st	Bedroom	Bedroom	W5-L	0.68	1.00	0.06	67.25	45.62	0.60	0.15	0.02	1.00	YES
			W5-U	0.68	1.00	1.55	68.27	45.62	0.60	1.00	2.47		
			W6-L	0.68	1.00	0.06	67.05	45.62	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.55	68.08	45.62	0.60	1.00	2.46		
4.95													
1st	LKD	LKD	W1-L	0.68	1.00	0.06	67.41	96.40	0.60	0.15	0.01	2.00	YES
			W1-U	0.68	1.00	1.55	68.47	96.40	0.60	1.00	1.17		
			W2-L	0.68	1.00	0.06	67.55	96.40	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	68.57	96.40	0.60	1.00	1.17		
			W3-L	0.68	1.00	0.06	67.56	96.40	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.55	68.56	96.40	0.60	1.00	1.17		
			W4-L	0.68	1.00	0.06	67.58	96.40	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	68.58	96.40	0.60	1.00	1.17		
4.71													

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Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 14													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	55.75	53.47	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.55	57.19	53.47	0.60	1.00	1.76		
			W2-L	0.68	1.00	0.06	60.27	53.47	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	61.99	53.47	0.60	1.00	1.91		
											3.69		
1st	LKD	LKD	W3-L	0.68	1.00	0.06	63.38	102.20	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.55	64.99	102.20	0.60	1.00	1.05		
			W4-L	0.68	1.00	0.06	65.23	102.20	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	66.64	102.20	0.60	1.00	1.07		
			W5-L	0.68	1.00	0.06	66.44	102.20	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	67.71	102.20	0.60	1.00	1.09		
			W6-L	0.68	1.00	0.06	67.04	102.20	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.55	68.19	102.20	0.60	1.00	1.10		
											4.34		
Flat 15													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	56.87	53.15	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.86	59.20	53.15	0.60	1.00	2.21		
											2.22		
1st	LKD	LKD	W2-L	0.68	1.00	0.08	59.89	167.79	0.60	0.15	0.00	2.00	YES
			W2-U	0.68	1.00	1.86	61.86	167.79	0.60	1.00	0.73		
			W3-L	0.68	1.00	0.06	67.87	167.79	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.55	71.51	167.79	0.60	1.00	0.70		
			W4-L	0.68	1.00	0.06	63.26	167.79	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.55	68.19	167.79	0.60	1.00	0.67		
			W5-L	0.68	1.00	0.06	53.04	167.79	0.60	0.15	0.00		
			W5-U	0.68	1.00	1.55	56.99	167.79	0.60	1.00	0.56		
											2.68		
Flat 16													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	52.21	55.04	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.86	54.37	55.04	0.60	1.00	1.96		
											1.97		
1st	Living Room	Living Room	W2-L	0.68	1.00	0.08	53.14	89.40	0.60	0.15	0.01	1.50	YES
			W2-U	0.68	1.00	1.86	55.52	89.40	0.60	1.00	1.23		
			W3-L	0.68	1.00	0.08	54.51	89.40	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	56.97	89.40	0.60	1.00	1.26		
											2.51		
Flat 17													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	40.59	44.42	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.53	41.72	44.42	0.60	1.00	1.53		
			W2-L	0.68	1.00	0.06	43.09	44.42	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.53	44.42	44.42	0.60	1.00	1.63		
											3.18		
1st	LKD	LKD	W3-L	0.68	1.00	0.06	45.25	101.36	0.60	0.15	0.00	2.00	YES
			W3-U	0.68	1.00	1.53	46.76	101.36	0.60	1.00	0.75		
			W4-L	0.68	1.00	0.06	47.05	101.36	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.53	48.75	101.36	0.60	1.00	0.78		
			W5-L	0.68	1.00	0.06	47.94	101.36	0.60	0.15	0.00		
			W5-U	0.68	1.00	1.53	49.81	101.36	0.60	1.00	0.80		
			W6-L	0.68	1.00	0.06	44.85	101.36	0.60	0.15	0.00		
			W6-U	0.68	1.00	1.53	46.65	101.36	0.60	1.00	0.75		
											3.11		
Flat 18													
1st	Bedroom	Bedroom	W3-L	0.68	1.00	0.08	46.49	62.42	0.60	0.15	0.01	1.00	YES
			W3-U	0.68	1.00	1.86	48.10	62.42	0.60	1.00	1.53		
											1.53		
1st	LKD	LKD	W1-L	0.68	1.00	0.08	58.77	84.22	0.60	0.15	0.01	2.00	YES
			W1-U	0.68	1.00	1.86	61.40	84.22	0.60	1.00	1.44		
			W2-L	0.68	1.00	0.08	55.08	84.22	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	57.62	84.22	0.60	1.00	1.35		
											2.81		
Flat 19													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	57.87	45.56	0.60	0.15	0.02	1.00	YES
			W1-U	0.68	1.00	1.86	60.24	45.56	0.60	1.00	2.62		
											2.63		
1st	Living Room	Living Room	W2-L	0.68	1.00	0.08	59.41	50.35	0.60	0.15	0.01	1.50	YES
			W2-U	0.68	1.00	1.86	61.86	50.35	0.60	1.00	2.43		
											2.45		

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 20													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	48.13	63.08	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	50.54	63.08	0.60	1.00	1.59		
											1.60	1.00	YES
1st	LKD	LKD	W2-L	0.68	1.00	0.08	51.32	83.87	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	53.84	83.87	0.60	1.00	1.27		
			W3-L	0.68	1.00	0.08	54.75	83.87	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	57.27	83.87	0.60	1.00	1.35		
											2.64		
Flat 21													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	39.67	47.19	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	41.46	47.19	0.60	1.00	1.74		
											1.75	1.00	YES
1st	Living Room	Living Room	W2-L	0.68	1.00	0.08	44.43	60.16	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	46.64	60.16	0.60	1.00	1.53		
											1.54	1.50	YES
Flat 22													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	39.31	48.30	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	40.76	48.30	0.60	1.00	1.67		
											1.68	1.00	YES
1st	LKD	LKD	W2-L	0.68	1.00	0.08	43.11	116.15	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.86	44.73	116.15	0.60	1.00	0.76		
			W3-L	0.68	1.00	0.08	43.61	116.15	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.86	45.00	116.15	0.60	1.00	0.77		
			W4-L	0.68	1.00	0.08	41.64	116.15	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.86	42.65	116.15	0.60	1.00	0.73		
											2.27		
Flat 23													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	54.05	73.18	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	55.02	73.18	0.60	1.00	1.22		
			W2-L	0.68	1.00	0.06	53.06	73.18	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	54.03	73.18	0.60	1.00	1.19		
			W3-L	0.68	1.00	0.06	51.81	73.18	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	52.76	73.18	0.60	1.00	1.17		
											3.60		
Flat 24													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	56.52	74.20	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	57.47	74.20	0.60	1.00	1.25		
			W2-L	0.68	1.00	0.06	55.79	74.20	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	56.74	74.20	0.60	1.00	1.24		
			W3-L	0.68	1.00	0.06	55.01	74.20	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	55.98	74.20	0.60	1.00	1.22		
											3.73		
Flat 25													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	57.90	77.58	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	58.81	77.58	0.60	1.00	1.23		
			W2-L	0.68	1.00	0.06	57.56	77.58	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	58.49	77.58	0.60	1.00	1.22		
			W3-L	0.68	1.00	0.06	57.08	77.58	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	58.02	77.58	0.60	1.00	1.21		
											3.68		
Flat 26													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.06	58.56	73.89	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	59.45	73.89	0.60	1.00	1.30		
			W2-L	0.68	1.00	0.06	58.34	73.89	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	59.23	73.89	0.60	1.00	1.30		
			W3-L	0.68	1.00	0.06	58.23	73.89	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	59.13	73.89	0.60	1.00	1.30		
											3.92		

MES Building Solutions Average Daylight Factor Calculations													
Project Name: 6 - 8 Market Place													
Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 27													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.02	35.27	89.08	0.60	0.15	0.00		
			W1-U	0.68	1.00	0.51	35.35	89.08	0.60	1.00	0.22		
			W2-L	0.68	1.00	0.06	46.17	89.08	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	46.70	89.08	0.60	1.00	0.86		
			W3-L	0.68	1.00	0.06	58.42	89.08	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	59.31	89.08	0.60	1.00	1.08		
			W4-L	0.68	1.00	0.06	58.60	89.08	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	59.48	89.08	0.60	1.00	1.08		
			W5-L	0.68	1.00	0.06	58.58	89.08	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.52	59.46	89.08	0.60	1.00	1.08		
			W6-L	0.68	1.00	0.06	58.49	89.08	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.52	59.38	89.08	0.60	1.00	1.08		
											5.43	1.50	YES
Flat 28													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	59.12	46.19	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	60.00	46.19	0.60	1.00	2.08		
			W2-L	0.68	1.00	0.06	59.27	46.19	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	60.14	46.19	0.60	1.00	2.09		
											4.19	1.00	YES
1st	LKD	LKD	W3-L	0.68	1.00	0.06	58.17	110.92	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	59.01	110.92	0.60	1.00	0.85		
			W4-L	0.68	1.00	0.06	54.13	110.92	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.51	54.80	110.92	0.60	1.00	0.79		
			W5-L	0.68	1.00	0.06	41.42	110.92	0.60	0.15	0.00		
			W5-U	0.68	1.00	1.42	42.04	110.92	0.60	1.00	0.57		
											2.23	2.00	YES
Flat 29													
1st	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	58.32	53.21	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	59.25	53.21	0.60	1.00	1.78		
			W2-L	0.68	1.00	0.06	58.46	53.21	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	59.37	53.21	0.60	1.00	1.79		
											3.59	1.00	YES
1st	LKD	LKD	W3-L	0.68	1.00	0.06	58.47	98.48	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	59.38	98.48	0.60	1.00	0.97		
			W4-L	0.68	1.00	0.06	58.70	98.48	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.51	59.60	98.48	0.60	1.00	0.97		
			W5-L	0.68	1.00	0.06	58.95	98.48	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.51	59.84	98.48	0.60	1.00	0.97		
											2.93	2.00	YES
Flat 30													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	41.27	107.05	0.60	0.15	0.00		
			W1-U	0.68	1.00	1.89	42.38	107.05	0.60	1.00	0.80		
			W2-L	0.68	1.00	0.08	38.94	107.05	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.89	40.03	107.05	0.60	1.00	0.75		
											1.56	1.50	YES
Flat 31													
1st	Studio	Bedsit	W1-L	0.68	1.00	0.08	40.47	54.62	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	41.35	54.62	0.60	1.00	1.52		
											1.53	1.50	YES
Flat 32													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.15	52.55	133.52	0.60	0.15	0.01		
			W1-U	0.68	1.00	3.58	55.37	133.52	0.60	1.00	1.58		
			W2-L	0.68	1.00	0.14	43.36	133.52	0.60	0.15	0.01		
			W2-U	0.68	1.00	3.44	45.84	133.52	0.60	1.00	1.26		
											2.85	1.50	YES
Flat 33													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	61.03	119.49	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	63.11	119.49	0.60	1.00	1.05		
			W2-L	0.68	1.00	0.06	56.37	119.49	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.55	58.96	119.49	0.60	1.00	0.81		
											1.87	1.50	YES

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 34													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	66.54	121.46	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	67.94	121.46	0.60	1.00	1.11		
			W2-L	0.68	1.00	0.08	64.35	121.46	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	66.02	121.46	0.60	1.00	1.08		
											2.20	1.50	YES
Flat 35													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	69.07	120.49	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	70.01	120.49	0.60	1.00	1.15		
			W2-L	0.68	1.00	0.08	68.15	120.49	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	69.30	120.49	0.60	1.00	1.14		
											2.30	1.50	YES
Flat 36													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	68.37	46.56	0.60	0.15	0.02		
			W1-U	0.68	1.00	1.86	68.93	46.56	0.60	1.00	2.93		
											2.95	1.00	YES
2nd	LKD	LKD	W2-L	0.68	1.00	0.08	69.15	75.00	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	69.81	75.00	0.60	1.00	1.84		
			W3-L	0.68	1.00	0.08	69.40	75.00	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	70.24	75.00	0.60	1.00	1.85		
											3.72	2.00	YES
Flat 37													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	36.49	137.40	0.60	0.15	0.00		
			W1-U	0.68	1.00	1.89	37.09	137.40	0.60	1.00	0.54		
			W2-L	0.68	1.00	0.08	65.21	137.40	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	65.73	137.40	0.60	1.00	0.95		
			W3-L	0.68	1.00	0.08	67.08	137.40	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	67.60	137.40	0.60	1.00	0.97		
											2.48	1.50	YES
Flat 38													
2nd	Bedroom	Bedroom	W3-L	0.68	1.00	0.08	36.93	44.30	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.89	37.59	44.30	0.60	1.00	1.70		
											1.71	1.00	YES
2nd	Living Room	Living Room	W1-L	0.68	1.00	0.08	38.88	77.51	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	39.97	77.51	0.60	1.00	1.04		
			W2-L	0.68	1.00	0.08	37.82	77.51	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.89	38.62	77.51	0.60	1.00	1.00		
											2.05	1.50	YES
Flat 39													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	28.81	53.67	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.55	32.19	53.67	0.60	1.00	0.99		
			W2-L	0.68	1.00	0.06	34.96	53.67	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	38.65	53.67	0.60	1.00	1.19		
											2.19	1.00	YES
2nd	Living Room	Living Room	W3-L	0.68	1.00	0.06	37.18	71.13	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.55	39.91	71.13	0.60	1.00	0.92		
			W4-L	0.68	1.00	0.06	37.65	71.13	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	39.68	71.13	0.60	1.00	0.92		
											1.85	1.50	YES
Flat 40													
2nd	Bedroom	Bedroom	W4-L	0.68	1.00	0.06	41.94	46.66	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	43.91	46.66	0.60	1.00	1.55		
			W5-L	0.68	1.00	0.06	36.74	46.66	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	39.17	46.66	0.60	1.00	1.38		
											2.95	1.00	YES
2nd	Living Room	Living Room	W1-L	0.68	1.00	0.06	45.44	117.41	0.60	0.15	0.00		
			W1-U	0.68	1.00	1.55	46.60	117.41	0.60	1.00	0.65		
			W2-L	0.68	1.00	0.06	44.88	117.41	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.55	46.14	117.41	0.60	1.00	0.65		
			W3-L	0.68	1.00	0.06	43.90	117.41	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.55	45.26	117.41	0.60	1.00	0.64		
											1.95	1.50	YES

MES Building Solutions Average Daylight Factor Calculations													
Project Name: 6 - 8 Market Place													
Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 41													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	79.50	43.35	0.60	0.15	0.02	1.00	YES
			W1-U	0.68	1.00	1.55	79.70	43.35	0.60	1.00	3.03		
			W2-L	0.68	1.00	0.06	79.61	43.35	0.60	0.15	0.02		
			W2-U	0.68	1.00	1.55	79.79	43.35	0.60	1.00	3.03		
											6.10		
2nd	Living Room	Living Room	W3-L	0.68	1.00	0.06	79.71	102.65	0.60	0.15	0.01	1.50	YES
			W3-U	0.68	1.00	1.55	79.88	102.65	0.60	1.00	1.28		
			W4-L	0.68	1.00	0.06	79.68	102.65	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	79.83	102.65	0.60	1.00	1.28		
			W5-L	0.68	1.00	0.06	79.88	102.65	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	80.02	102.65	0.60	1.00	1.28		
											3.87		
Flat 42													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	67.97	53.15	0.60	0.15	0.02	1.00	YES
			W1-U	0.68	1.00	1.86	70.45	53.15	0.60	1.00	2.62		
											2.64		
2nd	LKD	LKD	W2-L	0.68	1.00	0.08	69.70	152.32	0.60	0.15	0.01	2.00	YES
			W2-U	0.68	1.00	1.86	71.77	152.32	0.60	1.00	0.93		
			W3-L	0.68	1.00	0.06	78.37	152.32	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.55	78.77	152.32	0.60	1.00	0.85		
			W4-L	0.68	1.00	0.06	78.63	152.32	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.55	78.99	152.32	0.60	1.00	0.85		
			W5-L	0.68	1.00	0.06	78.69	152.32	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.55	79.03	152.32	0.60	1.00	0.86		
			W6-L	0.68	1.00	0.06	78.75	152.32	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.55	79.04	152.32	0.60	1.00	0.86		
			W7-L	0.68	1.00	0.06	78.98	152.32	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.55	79.25	152.32	0.60	1.00	0.86		
			W8-L	0.68	1.00	0.06	79.03	152.32	0.60	0.15	0.01		
			W8-U	0.68	1.00	1.55	79.26	152.32	0.60	1.00	0.86		
			W9-L	0.68	1.00	0.06	79.25	152.32	0.60	0.15	0.01		
			W9-U	0.68	1.00	1.55	79.46	152.32	0.60	1.00	0.86		
											6.97		
Flat 43													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	62.63	55.64	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.86	65.21	55.64	0.60	1.00	2.32		
											2.33		
2nd	Living Room	Living Room	W2-L	0.68	1.00	0.08	64.26	89.40	0.60	0.15	0.01	1.50	YES
			W2-U	0.68	1.00	1.86	66.96	89.40	0.60	1.00	1.48		
			W3-L	0.68	1.00	0.08	65.95	89.40	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	68.64	89.40	0.60	1.00	1.52		
											3.02		
Flat 44													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	45.53	44.42	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.53	46.76	44.42	0.60	1.00	1.72		
			W2-L	0.68	1.00	0.06	49.27	44.42	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.53	50.84	44.42	0.60	1.00	1.87		
											3.60		
2nd	LKD	LKD	W3-L	0.68	1.00	0.06	52.29	101.36	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.53	54.19	101.36	0.60	1.00	0.87		
			W4-L	0.68	1.00	0.06	54.87	101.36	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.53	56.99	101.36	0.60	1.00	0.92		
			W5-L	0.68	1.00	0.06	56.49	101.36	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.53	58.92	101.36	0.60	1.00	0.95		
			W6-L	0.68	1.00	0.06	53.48	101.36	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.53	56.84	101.36	0.60	1.00	0.91		
											3.67		
Flat 45													
2nd	Bedroom	Bedroom	W3-L	0.68	1.00	0.08	56.30	62.66	0.60	0.15	0.01	1.00	YES
			W3-U	0.68	1.00	1.86	61.93	62.66	0.60	1.00	1.96		
											1.97		
2nd	LKD	KD	W1-L	0.68	1.00	0.08	70.91	84.54	0.60	0.15	0.01	2.00	YES
			W1-U	0.68	1.00	1.86	73.85	84.54	0.60	1.00	1.73		
			W2-L	0.68	1.00	0.08	68.61	84.54	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	72.85	84.54	0.60	1.00	1.71		
											3.46		

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 46													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	68.92	45.79	0.60	0.15	0.02	1.00	YES
			W1-U	0.68	1.00	1.86	71.61	45.79	0.60	1.00	3.10		
2nd	Living Room	Living Room	W2-L	0.68	1.00	0.08	70.49	50.60	0.60	0.15	0.02	1.50	YES
			W2-U	0.68	1.00	1.86	73.14	50.60	0.60	1.00	2.86		
Flat 47													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	59.43	63.33	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.86	62.45	63.33	0.60	1.00	1.95		
2nd	LKD	LKD	W2-L	0.68	1.00	0.08	63.06	84.17	0.60	0.15	0.01	2.00	YES
			W2-U	0.68	1.00	1.86	66.14	84.17	0.60	1.00	1.56		
			W3-L	0.68	1.00	0.08	66.30	84.17	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	69.18	84.17	0.60	1.00	1.63		
Flat 48													
2nd	Bedroom	Bedroom	W2-L	0.68	1.00	0.08	54.55	60.23	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.86	57.26	60.23	0.60	1.00	1.88		
2nd	Living Room	Living Room	W1-L	0.68	1.00	0.08	47.48	62.61	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.86	49.47	62.61	0.60	1.00	1.56		
Flat 49													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	48.90	48.30	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.86	52.68	48.30	0.60	1.00	2.16		
2nd	LKD	LKD	W2-L	0.68	1.00	0.08	52.44	116.16	0.60	0.15	0.01	2.00	YES
			W2-U	0.68	1.00	1.86	55.06	116.16	0.60	1.00	0.94		
			W3-L	0.68	1.00	0.08	51.26	116.16	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	53.19	116.16	0.60	1.00	0.91		
			W4-L	0.68	1.00	0.08	47.02	116.16	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.86	48.22	116.16	0.60	1.00	0.82		
Flat 50													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.06	58.57	73.24	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.52	59.69	73.24	0.60	1.00	1.32		
			W2-L	0.68	1.00	0.06	57.60	73.24	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	58.75	73.24	0.60	1.00	1.30		
			W3-L	0.68	1.00	0.06	56.41	73.24	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	57.58	73.24	0.60	1.00	1.27		
Flat 51													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.06	60.87	74.20	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.52	61.89	74.20	0.60	1.00	1.35		
			W2-L	0.68	1.00	0.06	60.22	74.20	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	61.27	74.20	0.60	1.00	1.34		
			W3-L	0.68	1.00	0.06	59.46	74.20	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	60.55	74.20	0.60	1.00	1.32		
Flat 52													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.06	62.07	77.58	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.52	63.03	77.58	0.60	1.00	1.31		
			W2-L	0.68	1.00	0.06	61.85	77.58	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	62.82	77.58	0.60	1.00	1.31		
			W3-L	0.68	1.00	0.06	61.36	77.58	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	62.36	77.58	0.60	1.00	1.30		

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 53													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.06	62.64	73.81	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	63.56	73.81	0.60	1.00	1.39		
			W2-L	0.68	1.00	0.06	62.53	73.81	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	63.47	73.81	0.60	1.00	1.39		
			W3-L	0.68	1.00	0.06	62.36	73.81	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	63.30	73.81	0.60	1.00	1.39		
											4.20	1.50	YES
Flat 54													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.02	35.64	89.07	0.60	0.15	0.00		
			W1-U	0.68	1.00	0.51	35.72	89.07	0.60	1.00	0.22		
			W2-L	0.68	1.00	0.06	49.30	89.07	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	50.37	89.07	0.60	1.00	0.93		
			W3-L	0.68	1.00	0.06	62.57	89.07	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	63.49	89.07	0.60	1.00	1.15		
			W4-L	0.68	1.00	0.06	62.70	89.07	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	63.61	89.07	0.60	1.00	1.16		
			W5-L	0.68	1.00	0.06	62.62	89.07	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.52	63.52	89.07	0.60	1.00	1.15		
			W6-L	0.68	1.00	0.06	62.59	89.07	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.52	63.49	89.07	0.60	1.00	1.15		
											5.80	1.50	YES
Flat 55													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	63.23	46.19	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	64.15	46.19	0.60	1.00	2.22		
			W2-L	0.68	1.00	0.06	63.34	46.19	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	64.24	46.19	0.60	1.00	2.23		
											4.48	1.00	YES
2nd	LKD	LKD	W3-L	0.68	1.00	0.06	62.21	110.92	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	63.17	110.92	0.60	1.00	0.91		
			W4-L	0.68	1.00	0.06	57.91	110.92	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.51	58.65	110.92	0.60	1.00	0.85		
			W5-L	0.68	1.00	0.06	44.19	110.92	0.60	0.15	0.00		
			W5-U	0.68	1.00	1.42	44.89	110.92	0.60	1.00	0.61		
											2.38	2.00	YES
Flat 56													
2nd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	62.60	53.21	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	63.58	53.21	0.60	1.00	1.91		
			W2-L	0.68	1.00	0.06	62.71	53.21	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	63.68	53.21	0.60	1.00	1.92		
											3.85	1.00	YES
2nd	LKD	LKD	W3-L	0.68	1.00	0.06	62.76	98.48	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	63.71	98.48	0.60	1.00	1.04		
			W4-L	0.68	1.00	0.06	62.88	98.48	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.51	63.83	98.48	0.60	1.00	1.04		
			W5-L	0.68	1.00	0.06	63.17	98.48	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.51	64.10	98.48	0.60	1.00	1.04		
											3.14	2.00	YES
Flat 57													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	47.95	118.57	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	49.81	118.57	0.60	1.00	0.84		
			W2-L	0.68	1.00	0.08	45.23	118.57	0.60	0.15	0.00		
			W2-U	0.68	1.00	1.89	47.00	118.57	0.60	1.00	0.80		
											1.65	1.50	YES
Flat 58													
2nd	Studio	Bedsit	W1-L	0.68	1.00	0.08	45.75	53.96	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	47.12	53.96	0.60	1.00	1.75		
											1.76	1.50	YES
Flat 59													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.15	66.85	134.05	0.60	0.15	0.01		
			W1-U	0.68	1.00	3.58	70.37	134.05	0.60	1.00	2.00		
			W2-L	0.68	1.00	0.14	57.53	134.05	0.60	0.15	0.01		
			W2-U	0.68	1.00	3.44	63.36	134.05	0.60	1.00	1.73		
											3.75	1.50	YES

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Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 60													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	71.40	119.85	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	73.72	119.85	0.60	1.00	1.22		
			W2-L	0.68	1.00	0.08	68.96	119.85	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.89	72.00	119.85	0.60	1.00	1.21		
											2.44	1.50	YES
Flat 61													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	74.28	121.46	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	75.63	121.46	0.60	1.00	1.23		
			W2-L	0.68	1.00	0.08	73.19	121.46	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	74.94	121.46	0.60	1.00	1.22		
											2.47	1.50	YES
Flat 62													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	75.09	120.78	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	75.89	120.78	0.60	1.00	1.24		
			W2-L	0.68	1.00	0.08	74.93	120.78	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	75.95	120.78	0.60	1.00	1.24		
											2.50	1.50	YES
Flat 63													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	73.18	47.57	0.60	0.15	0.02		
			W1-U	0.68	1.00	1.86	73.72	47.57	0.60	1.00	3.07		
											3.09	1.00	YES
3rd	LKD	LKD	W2-L	0.68	1.00	0.08	74.20	77.27	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	74.79	77.27	0.60	1.00	1.92		
			W3-L	0.68	1.00	0.08	74.85	77.27	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	75.50	77.27	0.60	1.00	1.93		
											3.87	2.00	YES
Flat 64													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	41.53	139.97	0.60	0.15	0.00		
			W1-U	0.68	1.00	1.89	42.41	139.97	0.60	1.00	0.61		
			W2-L	0.68	1.00	0.08	69.79	139.97	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	70.35	139.97	0.60	1.00	1.00		
			W3-L	0.68	1.00	0.08	71.74	139.97	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	72.27	139.97	0.60	1.00	1.02		
											2.64	1.50	YES
Flat 65													
3rd	Bedroom	Bedroom	W5-L	0.68	1.00	0.08	42.06	44.70	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.89	42.95	44.70	0.60	1.00	1.93		
											1.94	1.00	YES
3rd	LKD	LKD	W1-L	0.68	1.00	0.08	81.00	122.47	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	80.89	122.47	0.60	1.00	1.31		
			W2-L	0.68	1.00	0.08	79.73	122.47	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	79.63	122.47	0.60	1.00	1.29		
			W3-L	0.68	1.00	0.08	44.92	122.47	0.60	0.15	0.00		
			W3-U	0.68	1.00	1.89	45.82	122.47	0.60	1.00	0.75		
			W4-L	0.68	1.00	0.08	43.22	122.47	0.60	0.15	0.00		
			W4-U	0.68	1.00	1.89	44.12	122.47	0.60	1.00	0.72		
											4.09	2.00	YES
Flat 66													
3rd	Studio	Bedroom	W3-L	0.68	1.00	0.08	82.26	62.66	0.60	0.15	0.02		
			W3-U	0.68	1.00	1.86	82.39	62.66	0.60	1.00	2.60		
											2.62	1.00	YES
3rd	LKD	LKD	W1-L	0.68	1.00	0.08	81.40	84.54	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	82.01	84.54	0.60	1.00	1.92		
			W2-L	0.68	1.00	0.08	81.98	84.54	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	82.31	84.54	0.60	1.00	1.93		
											3.87	2.00	YES
Flat 67													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	79.09	45.79	0.60	0.15	0.02		
			W1-U	0.68	1.00	1.86	80.50	45.79	0.60	1.00	3.48		
											3.50	1.00	YES
3rd	Living Room	Living Room	W2-L	0.68	1.00	0.08	80.44	50.60	0.60	0.15	0.02		
			W2-U	0.68	1.00	1.86	81.42	50.60	0.60	1.00	3.19		
											3.20	1.50	YES

MES Building Solutions Average Daylight Factor Calculations Project Name: 6 - 8 Market Place Date: 30/07/2021													
Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 68													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	71.33	63.33	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	73.88	63.33	0.60	1.00	2.31		
											2.32	1.00	YES
3rd	LKD	LKD	W2-L	0.68	1.00	0.08	75.06	84.17	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	77.33	84.17	0.60	1.00	1.82		
			W3-L	0.68	1.00	0.08	77.53	84.17	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	79.27	84.17	0.60	1.00	1.86		
Flat 69													
3rd	Bedroom	Bedroom	W2-L	0.68	1.00	0.08	65.06	60.48	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	67.51	60.48	0.60	1.00	2.21		
											2.22	1.00	YES
3rd	Living Room	Living Room	W1-L	0.68	1.00	0.08	54.81	71.72	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	56.35	71.72	0.60	1.00	1.56		
											1.56	1.50	YES
Flat 70													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	64.79	48.30	0.60	0.15	0.02		
			W1-U	0.68	1.00	1.86	68.94	48.30	0.60	1.00	2.83		
											2.84	1.00	YES
3rd	LKD	LKD	W2-L	0.68	1.00	0.08	64.72	116.16	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.86	67.85	116.16	0.60	1.00	1.16		
			W3-L	0.68	1.00	0.08	60.89	116.16	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	63.32	116.16	0.60	1.00	1.08		
			W4-L	0.68	1.00	0.08	52.86	116.16	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.86	54.10	116.16	0.60	1.00	0.92		
Flat 71													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.06	63.67	73.14	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	65.00	73.14	0.60	1.00	1.44		
			W2-L	0.68	1.00	0.06	62.86	73.14	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	64.26	73.14	0.60	1.00	1.42		
			W3-L	0.68	1.00	0.06	61.73	73.14	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	63.21	73.14	0.60	1.00	1.40		
Flat 72													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.06	65.63	74.20	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	66.77	74.20	0.60	1.00	1.46		
			W2-L	0.68	1.00	0.06	65.05	74.20	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	66.24	74.20	0.60	1.00	1.44		
			W3-L	0.68	1.00	0.06	64.48	74.20	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	65.74	74.20	0.60	1.00	1.43		
Flat 73													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.06	66.52	105.71	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	67.56	105.71	0.60	1.00	1.03		
			W2-L	0.68	1.00	0.06	66.34	105.71	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	67.40	105.71	0.60	1.00	1.03		
			W3-L	0.68	1.00	0.06	66.00	105.71	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	67.10	105.71	0.60	1.00	1.03		
Flat 74													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.06	66.97	73.81	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.52	67.96	73.81	0.60	1.00	1.49		
			W2-L	0.68	1.00	0.06	66.77	73.81	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	67.78	73.81	0.60	1.00	1.49		
			W3-L	0.68	1.00	0.06	66.77	73.81	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	67.79	73.81	0.60	1.00	1.49		

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Flat 75													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.02	36.93	89.04	0.60	0.15	0.00		
			W1-U	0.68	1.00	0.51	38.49	89.04	0.60	1.00	0.24		
			W2-L	0.68	1.00	0.06	56.88	89.04	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.55	61.90	89.04	0.60	1.00	1.15		
			W3-L	0.68	1.00	0.06	66.73	89.04	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.52	67.73	89.04	0.60	1.00	1.23		
			W4-L	0.68	1.00	0.06	66.92	89.04	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	67.90	89.04	0.60	1.00	1.23		
			W5-L	0.68	1.00	0.06	66.91	89.04	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.52	67.88	89.04	0.60	1.00	1.23		
			W6-L	0.68	1.00	0.06	66.82	89.04	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.52	67.81	89.04	0.60	1.00	1.23		
											6.35	1.50	YES
Flat 76													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	67.49	46.19	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	68.47	46.19	0.60	1.00	2.37		
			W2-L	0.68	1.00	0.06	67.55	46.19	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	68.52	46.19	0.60	1.00	2.38		
											4.78	1.00	YES
3rd	LKD	LKD	W3-L	0.68	1.00	0.06	66.91	110.92	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	68.22	110.92	0.60	1.00	0.98		
			W4-L	0.68	1.00	0.06	63.41	110.92	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.51	65.77	110.92	0.60	1.00	0.95		
			W5-L	0.68	1.00	0.06	48.30	110.92	0.60	0.15	0.00		
			W5-U	0.68	1.00	1.42	51.21	110.92	0.60	1.00	0.70		
											2.65	2.00	YES
Flat 77													
3rd	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	67.12	53.19	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.51	68.18	53.19	0.60	1.00	2.05		
			W2-L	0.68	1.00	0.06	67.18	53.19	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.51	68.22	53.19	0.60	1.00	2.05		
											4.13	1.00	YES
3rd	LKD	LKD	W3-L	0.68	1.00	0.06	67.09	98.48	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.51	68.13	98.48	0.60	1.00	1.11		
			W4-L	0.68	1.00	0.06	67.25	98.48	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.51	68.26	98.48	0.60	1.00	1.11		
			W5-L	0.68	1.00	0.06	67.42	98.48	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.51	68.42	98.48	0.60	1.00	1.11		
											3.35	2.00	YES
Flat 78													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	57.65	131.25	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	60.08	131.25	0.60	1.00	0.92		
			W2-L	0.68	1.00	0.08	54.62	131.25	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.89	57.08	131.25	0.60	1.00	0.87		
											1.80	1.50	YES
Flat 79													
3rd	Studio	Bedsit	W1-L	0.68	1.00	0.08	52.77	56.16	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.89	54.46	56.16	0.60	1.00	1.95		
											1.96	1.50	YES
Flat 80													
4th	Studio	Bedsit	W1-L	0.68	1.00	0.15	80.00	134.05	0.60	0.15	0.01		
			W1-U	0.68	1.00	3.58	81.38	134.05	0.60	1.00	2.31		
			W2-L	0.68	1.00	0.14	78.31	134.05	0.60	0.15	0.01		
			W2-U	0.68	1.00	3.44	80.56	134.05	0.60	1.00	2.20		
											4.54	1.50	YES
Flat 81													
4th	Studio	Bedsit	W1-L	0.68	1.00	0.08	80.40	119.85	0.60	0.15	0.01		
			W1-U	0.68	1.00	1.86	81.10	119.85	0.60	1.00	1.34		
			W2-L	0.68	1.00	0.08	79.88	119.85	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.89	80.94	119.85	0.60	1.00	1.36		
											2.71	1.50	YES

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Flat 82														
4th	Studio	Bedsit	W1-L	0.68	1.00	0.08	80.68	121.46	0.60	0.15	0.01		1.50	YES
			W1-U	0.68	1.00	1.86	80.92	121.46	0.60	1.00	1.32			
			W2-L	0.68	1.00	0.08	80.66	121.46	0.60	0.15	0.01			
			W2-U	0.68	1.00	1.86	81.09	121.46	0.60	1.00	1.32			
											2.66			
Flat 83														
4th	Studio	Bedsit	W1-L	0.68	1.00	0.08	80.04	120.55	0.60	0.15	0.01		1.50	YES
			W1-U	0.68	1.00	1.86	80.13	120.55	0.60	1.00	1.32			
			W2-L	0.68	1.00	0.08	80.47	120.55	0.60	0.15	0.01			
			W2-U	0.68	1.00	1.86	80.61	120.55	0.60	1.00	1.32			
											2.66			
Flat 84														
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	77.51	46.71	0.60	0.15	0.02		1.00	YES
			W1-U	0.68	1.00	1.86	77.66	46.71	0.60	1.00	3.29			
											3.31			
4th	LKD	LKD	W2-L	0.68	1.00	0.08	78.60	75.99	0.60	0.15	0.01		2.00	YES
			W2-U	0.68	1.00	1.86	78.70	75.99	0.60	1.00	2.05			
			W3-L	0.68	1.00	0.08	79.44	75.99	0.60	0.15	0.01			
			W3-U	0.68	1.00	1.86	79.51	75.99	0.60	1.00	2.07			
											4.15			
Flat 85														
4th	Studio	Bedsit	W1-L	0.68	1.00	0.08	47.59	138.44	0.60	0.15	0.00		1.50	YES
			W1-U	0.68	1.00	1.89	48.93	138.44	0.60	1.00	0.71			
			W2-L	0.68	1.00	0.08	74.19	138.44	0.60	0.15	0.01			
			W2-U	0.68	1.00	1.86	74.52	138.44	0.60	1.00	1.07			
			W3-L	0.68	1.00	0.08	76.07	138.44	0.60	0.15	0.01			
			W3-U	0.68	1.00	1.86	76.30	138.44	0.60	1.00	1.09			
											2.88			
Flat 86														
4th	Bedroom	Bedroom	W5-L	0.68	1.00	0.08	48.08	44.28	0.60	0.15	0.01		1.00	YES
			W5-U	0.68	1.00	1.89	49.41	44.28	0.60	1.00	2.24			
											2.26			
4th	LKD	LKD	W1-L	0.68	1.00	0.08	83.24	123.81	0.60	0.15	0.01		2.00	YES
			W1-U	0.68	1.00	1.86	82.69	123.81	0.60	1.00	1.32			
			W2-L	0.68	1.00	0.08	82.03	123.81	0.60	0.15	0.01			
			W2-U	0.68	1.00	1.86	81.57	123.81	0.60	1.00	1.30			
			W3-L	0.68	1.00	0.08	50.95	123.81	0.60	0.15	0.01			
			W3-U	0.68	1.00	1.89	52.30	123.81	0.60	1.00	0.85			
			W4-L	0.68	1.00	0.08	49.25	123.81	0.60	0.15	0.00			
			W4-U	0.68	1.00	1.89	50.58	123.81	0.60	1.00	0.82			
											4.32			
Flat 87														
4th	Bedroom	Bedroom	W3-L	0.68	1.00	0.08	85.00	62.66	0.60	0.15	0.02		1.00	YES
			W3-U	0.68	1.00	1.86	84.33	62.66	0.60	1.00	2.66			
											2.68			
4th	LKD	LKD	W1-L	0.68	1.00	0.08	85.32	84.54	0.60	0.15	0.01		2.00	YES
			W1-U	0.68	1.00	1.86	84.72	84.54	0.60	1.00	1.98			
			W2-L	0.68	1.00	0.08	85.21	84.54	0.60	0.15	0.01			
			W2-U	0.68	1.00	1.86	84.57	84.54	0.60	1.00	1.98			
											3.99			
Flat 88														
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	85.12	45.79	0.60	0.15	0.02		1.00	YES
			W1-U	0.68	1.00	1.86	84.74	45.79	0.60	1.00	3.66			
											3.69			
4th	Living Room	Living Room	W2-L	0.68	1.00	0.08	85.31	50.60	0.60	0.15	0.02		1.50	YES
			W2-U	0.68	1.00	1.86	84.79	50.60	0.60	1.00	3.32			
											3.34			

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Floor Ref.	Room Ref.	Room Use.	Window Ref.	Glass Transmittance	Maintenance Factor	Glazed Area	Clear Sky Angle Proposed	Room Surface Area	Average Surface Reflectance	Below Working Plane Factor	ADF Proposed	Target Value	Meets BRE Guidance
Flat 89													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.08	81.52	63.33	0.60	0.15	0.02	1.00	YES
			W1-U	0.68	1.00	1.86	82.71	63.33	0.60	1.00	2.59		
4th	LKD	LKD	W2-L	0.68	1.00	0.08	83.72	84.17	0.60	0.15	0.01	2.00	YES
			W2-U	0.68	1.00	1.86	84.03	84.17	0.60	1.00	1.98		
			W3-L	0.68	1.00	0.08	84.66	84.17	0.60	0.15	0.01		
			W3-U	0.68	1.00	1.86	84.53	84.17	0.60	1.00	1.99		
											3.99		
Flat 90													
4th	Bedroom	Bedroom	W2-L	0.68	1.00	0.08	76.36	60.48	0.60	0.15	0.02	1.00	YES
			W2-U	0.68	1.00	1.86	79.30	60.48	0.60	1.00	2.60		
4th	Living Room	Living Room	W1-L	0.68	1.00	0.08	62.81	81.71	0.60	0.15	0.01	1.50	YES
			W1-U	0.68	1.00	1.86	66.83	81.71	0.60	1.00	1.62		
Flat 91													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	77.18	57.97	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	78.16	57.97	0.60	1.00	2.18		
			W2-L	0.68	1.00	0.06	76.82	57.97	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	77.87	57.97	0.60	1.00	2.17		
											4.38		
4th	Bedroom 2	Bedroom	W3-L	0.68	1.00	0.06	76.40	56.04	0.60	0.15	0.01	1.00	YES
			W3-U	0.68	1.00	1.52	77.55	56.04	0.60	1.00	2.24		
			W4-L	0.68	1.00	0.06	75.92	56.04	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	77.16	56.04	0.60	1.00	2.23		
											4.50		
4th	Bedroom 3	Bedroom	W5-L	0.68	1.00	0.08	78.45	64.61	0.60	0.15	0.01	1.00	YES
			W5-U	0.68	1.00	1.86	79.14	64.61	0.60	1.00	2.42		
4th	LKD	LKD	W6-L	0.68	1.00	0.08	76.68	177.73	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.86	78.01	177.73	0.60	1.00	0.87		
			W7-L	0.68	1.00	0.08	72.62	177.73	0.60	0.15	0.00		
			W7-U	0.68	1.00	1.86	75.30	177.73	0.60	1.00	0.84		
			W8-L	0.68	1.00	0.08	60.57	177.73	0.60	0.15	0.00		
			W8-U	0.68	1.00	1.86	64.47	177.73	0.60	1.00	0.72		
											2.44		
Flat 92													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.39	61.03	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.12	61.03	0.60	1.00	2.10		
			W2-L	0.68	1.00	0.06	78.23	61.03	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	78.99	61.03	0.60	1.00	2.09		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.02	124.20	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	78.83	124.20	0.60	1.00	1.03		
			W4-L	0.68	1.00	0.06	77.77	124.20	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	78.63	124.20	0.60	1.00	1.02		
			W5-L	0.68	1.00	0.06	77.49	124.20	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.52	78.40	124.20	0.60	1.00	1.02		
											3.09		
Flat 93													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
			W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01		
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W5-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01		
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
Flat 94													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
4th	Living Room	Living Room	W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
4th	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
			W7-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W8-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01		
Flat 95													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
4th	Living Room	Living Room	W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
4th	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
			W7-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W8-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01		
Flat 96													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
4th	Living Room	Living Room	W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
4th	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
			W7-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W8-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01		
Flat 97													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
4th	Living Room	Living Room	W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
4th	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
			W7-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W8-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01		
Flat 98													
4th	Bedroom	Bedroom	W1-L	0.68	1.00	0.06	78.94	54.00	0.60	0.15	0.01	1.00	YES
			W1-U	0.68	1.00	1.52	79.57	54.00	0.60	1.00	2.38		
4th	Living Room	Living Room	W2-L	0.68	1.00	0.06	78.89	54.00	0.60	0.15	0.01	1.00	YES
			W2-U	0.68	1.00	1.52	79.52	54.00	0.60	1.00	2.38		
4th	LKD	LKD	W3-L	0.68	1.00	0.06	78.81	129.39	0.60	0.15	0.01	2.00	YES
			W3-U	0.68	1.00	1.52	79.46	129.39	0.60	1.00	0.99		
			W4-L	0.68	1.00	0.06	78.75	129.39	0.60	0.15	0.01		
			W4-U	0.68	1.00	1.52	79.41	129.39	0.60	1.00	0.99		
			W5-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
4th	Bedroom	Bedroom	W6-L	0.68	1.00	0.06	78.53	129.39	0.60	0.15	0.01	2.00	YES
			W6-U	0.68	1.00	1.52	79.23	129.39	0.60	1.00	0.99		
			W7-L	0.68	1.00	0.06	78.66	129.39	0.60	0.15	0.01		
			W7-U	0.68	1.00	1.52	79.33	129.39	0.60	1.00	0.99		
			W8-L	0.68	1.00	0.06	78.53	129.39					