

Our Ref: 21384/CH

Thavies Inn House
3-4 Holborn Circus
London EC1N 2HA
020 7936 3668

28 April 2023

Keith Mappingire
Elmsbrook
1st Floor Offices
Farley Court
Allsop Place
London, NW1 5LG

info@delvapatmanredler.co.uk
www.delvapatmanredler.co.uk

Dear Keith

35-39 FRIAR STREET, READING: Daylight, sunlight and overshadowing

Further to our recent correspondence, we have now completed the updated daylight, sunlight and overshadowing assessment based on the latest scheme massing provided by Stefan Shaw Studio on 14 April 2023.

We undertook a detailed daylight, sunlight and overshadowing assessment in June 2022, which was submitted as part of the planning application. The findings in this addendum report should be reviewed in conjunction with the June 2022 report. The June 2022 report was reviewed by the BRE, and this report also addresses the comments by the BRE.

Since the scheme was initially submitted in June 2022, the proposed massing has been stepped back a further 3m reducing the potential daylight and sunlight effects to the rear of Block F of the Station Hill development. The revised scheme massing is shown on drawing 21384-SPT-004.

Guidance and Planning Policy

BRE Report 209, 'Site Layout for Daylight and Sunlight: A guide to good practice' – (2022)

The leading publication providing national guidance on the provision of daylight and sunlight to new development, and the impacts of development on daylight and sunlight to neighbouring buildings and open spaces, is BRE Report 209, 'Site Layout Planning for Daylight and Sunlight: A guide to good practice' (second edition, 2022). It is referred to in the development plan documents or supplementary planning documents of most planning authorities.

The latest BRE guidelines only altered how daylight and sunlight to proposed dwellings are to be tested. The Average Daylight Factor (ADF) and Annual Probable Sunlight Hours (APSH) test have been replaced with the new Daylight Illuminance, Daylight Factor and Sunlight Exposure tests. How daylight and sunlight to existing neighbouring properties should be considered has not changed.

Due to the location of the site in relation to the Station Hill development and to provide a comparison between the daylight and sunlight levels within the 2 developments, we have used the ADF, NSL and APSH methods to evaluate the daylight and sunlight levels within the scheme.

National Planning Policy

National Planning Policy Framework (July 2021)

Chapter 11 of the NPPF, entitled "*Making effective use of land*", promotes the effective use of land in meeting the need for homes and other uses. It gives examples such as developing under-utilised land and buildings, especially

Also at:

Delva Patman Redler
The Quay
12 Princes Parade
Liverpool L3 1BG

Delva Patman Redler
40 Berkeley Square
Bristol
BS8 1HP

Delva Patman Redler LLP. Registered in England & Wales OC335699.
A list of members can be inspected at our Registered Office above.



Est.
1980

if this would help to meet identified needs for housing where land supply is constrained and available sites could be used more effectively, and upward extensions to create new homes, where they would be consistent with the prevailing height and form of neighbouring properties and the overall street scene. In particular, paragraph 125 of the NPPF states:

c) local planning authorities should refuse applications which they consider fail to make efficient use of land, taking into account the policies in this Framework. In this context, when considering applications for housing, authorities should take a flexible approach in applying policies or guidance relating to daylight and sunlight, where they would otherwise inhibit making efficient use of a site (as long as the resulting scheme would provide acceptable living standards).

Reading Borough Local Plan

The Local Plan adopted in November 2019 contains the following policies that are relevant to daylight and sunlight. Policy CC8 Safeguarding Amenity states:

“Development will not cause a detrimental impact on the living environment of existing residential properties or unacceptable living condition for new residential properties in terms of: Access to sunlight and daylight....”.

Results

Light within the proposed development

The lower four floors have been tested to evaluate the daylight and sunlight levels within the proposed scheme. The BRE state that as a result of this *a conclusion on the overall performance of the building has not been possible*. Although we appreciate this, the daylight and sunlight calculation have considered the potential worst performing rooms and the overall compliance rate will improve if all floors are tested as more daylight and sunlight will be available to the upper floor rooms. With regards to the truncated kitchen area, we have only truncated the small kitchen areas located to the rear of the units which have been designed to be artificially lit when in use.

The BRE also state that the ADF pass rate would be an overestimate due to the high reflectance values used. We have used the reflectance values listed in BS 8206-2:2008 based on the internal finishes suggested by the design team.

The results of the ADF test for the assessed proposed dwellings are set out in the attached table of results. The level of adherence to the BRE numerical guidelines is summarised below:

Table 1 - Number of rooms meeting ADF guidelines

Floor level	Total number of rooms tested	Number of rooms meeting ADF guidelines	Number of rooms below ADF guidelines
First	25	14	11
Second	32	24	8
Third	32	24	8
Fourth	32	26	6
Total	121	88	33

Table 1 shows that of the 121 rooms assessed at first to fourth floor level, 88 (73%) would satisfy the BRE guidelines for ADF. This is an improvement of 8% when compared to the June 2022 scheme. Of the 33 rooms that fall below the suggested BRE guidelines, 20 are bedrooms and of the remaining 13 main living areas, 7 are within 20% of the BRE recommendations.

Table 2 - Number of rooms meeting NSL guidelines

Floor level	Total number of rooms tested	Number of rooms meeting ADF guidelines	Number of rooms below ADF guidelines
First	25	8	17
Second	32	12	20
Third	32	18	14
Fourth	32	22	10

Floor level	Total number of rooms tested	Number of rooms meeting ADF guidelines	Number of rooms below ADF guidelines
Total	121	60	61

Table 2 shows that of the 121 rooms assessed, 60 (50%) would satisfy the NSL guidelines. Although, 99 (82%) would meet the alternative NSL target value of 50% coverage, which is typically considered appropriate for a town centre regeneration scheme. Of the 22 rooms that fall below the alternative target value, 16 are bedrooms which are generally considered less important in daylight terms.

Sunlight to new dwellings

The results of the sunlight analysis of the main living rooms within the proposed scheme are attached and summarised in Table 3 below.

Table 3 - Number of main living rooms meeting APSH guidelines

Location within the proposed development	Total number of rooms tested	Number of rooms meeting APSH guidelines	Number of rooms below APSH guidelines
First	8	4	4
Second	11	4	7
Third	11	4	7
Fourth	11	4	7
Total	41	16	25

Table 3 shows that of the 41 rooms assessed, 16 (39%) will satisfy the APSH guidelines. Due to the orientation of the scheme several of the rooms face almost directly east and therefore their ability to receive sunlight is hindered by the orientation of the development site. It is worth noting, that the rooms facing directly south generally receive very good levels of direct sunlight.

Effects of the proposed development on neighbouring properties

In addition to the 5 neighbouring properties considered in the June 2022 report, as part of the addendum and to address comments raised by the BRE, 32-34 Friar Street and 126 Friar Street have been included. The BRE mention that a cumulative assessment has not been undertaken. Blocks E and F are currently under construction and the massing is close to competition, therefore we believe that it is appropriate to consider Blocks E and F as built in the surrounding condition.

The location of the neighbouring properties considered for assessment in relation to the development site are shown on attached drawing 21384-LOC-DS-002.

Daylight to neighbouring properties

The results of the VSC and NSL analyses of the neighbouring properties are attached and summarised in Table 4 and 5 below.

Table 4 - Number of rooms experiencing VSC effects as a result of the proposed development

Property address	No. of windows tested	Windows inside VSC guidelines		Windows outside VSC guidelines					
				Low reduction 0.79-0.70 x FV		Medium reduction 0.69-0.60 x FV		High reduction <0.60 x FV	
		No.	%	No.	%	No.	%	No.	%
Block E	543	440	81%	40	7%	17	3%	46	8%
Block F	156	101	65%	22	14%	11	7%	22	14%
Garrard House	67	51	76%	13	19%	3	4%	-	-
Projection West	90	79	88%	7	8%	2	2%	2	2%
125 Friar St	27	20	74%	7	26%	-	-	-	-
126 Friar St	6	1	17%	5	83%	-	-	-	-
32 Friar St	2	2	100%	-	-	-	-	-	-
33 Friar St	4	4	100%	-	-	-	-	-	-

34 Friar St	4	4	100%	-	-	-	-	-	-
Totals:	899	702	78%	94	10%	33	4%	70	8%

Table 5 - Number of rooms experiencing NSL effects as a result of the proposed development

Property address	No. of rooms tested	Rooms inside NSL guidelines		Rooms outside NSL guidelines					
				Low reduction 0.79-0.70 x FV		Medium reduction 0.69-0.60 x FV		High reduction <0.60 x FV	
		No.	%	No.	%	No.	%	No.	%
Block E	453	401	89%	11	2%	11	2%	30	7%
Block F	144	116	81%	11	8%	3	2%	14	10%
Garrard House	35	28	80%	4	11%	3	9%	-	-
Projection West	74	54	73%	9	12%	8	11%	3	4%
125 Friar St	3	3	100%	-	-	-	-	-	-
126 Friar St	5	2	40%	1	20%	2	40%	-	-
32 Friar St	2	2	100%	-	-	-	-	-	-
33 Friar St	4	4	100%	-	-	-	-	-	-
34 Friar St	4	4	100%	-	-	-	-	-	-
Totals:	724	614	85%	36	5%	27	4%	47	6%

Of the 899 habitable windows assessed in the 9 neighbouring properties, 702 (78%) would satisfy the VSC guidelines and of the 724 neighbouring rooms, 614 (85%) would satisfy the NSL guidelines.

The revised April 2023 scheme massing does not materially alter the results reported in the June 2022 report. The effects on the additional neighbouring properties are discussed in more detail below.

126 Friar Street

This is the three-storey building located directly to the south of the development site. There is a nightclub on the ground floor, with residential units at first and second floor level.

The VSC results indicate that of the 6 rooms considered, 1 (17%) will satisfy the BRE guidelines and the remaining 5 (83%) will only experience a low reduction beyond the BRE guidelines. All windows will remain with a VSC of at least 16.8% in the post development condition, which is generally considered sufficient for a town centre location.

The NSL results indicate that of the 5 rooms considered, 2 (40%) satisfy the BRE guidelines, 1 (20%) experience a low reduction and 2 (40%) experience a medium reduction. None of the windows will experience a high reduction beyond the BRE guidelines.

32-34 Friar Street

This is a four-storey commercial/residential property located to the east of the development site. The VSC and NSL results indicate that this property will satisfy the BRE guidelines, and the scheme will only have a negligible effect on the daylight the residential units currently benefit from.

Sunlight in neighbouring properties

The results of the annual and winter sunlight analyses are attached and summarised in Table 7 below.

Table 7 – Number of rooms experiencing APSH effects as a result of the proposed development

Property address	No. of rooms tested	Rooms inside APSH annual guidelines		Rooms outside APSH annual guidelines					
				Low reduction 0.79-0.70 x FV		Medium reduction 0.69-0.60 x FV		High reduction <0.60 x FV	
		No.	%	No.	%	No.	%	No.	%
Block E	118	112	95%	1	1%	-	-	5	4%
Block F	60	47	78%	6	10%	2	3%	5	8%
Garrard House	20	20	100%	-	-	-	-	-	-
Projection West	25	24	96%	1	4%	-	-	-	-
125 Friar St	-	-	-	-	-	-	-	-	-
126 Friar St	-	-	-	-	-	-	-	-	-
32 Friar St	-	-	-	-	-	-	-	-	-
33 Friar St	1	1	100%	-	-	-	-	-	-
34 Friar St	-	-	-	-	-	-	-	-	-
Totals:	224	204	91%	8	4%	2	1%	10	4%

Table 7 shows that of the 224 rooms assessed in 5 neighbouring properties, 204 (91%) would satisfy the BRE guidelines for APSH annual sunlight allowance.

The APSH results show that the proposed scheme will generally leave the neighbouring residential properties with acceptable levels of sunlight and the revised scheme does not materially alter the results previously reported.

Overshadowing to neighbouring amenity areas

The BRE guide states that a garden or amenity area should receive at least 2 hours of direct sunlight on 21 March. If as a result of new development an existing garden or amenity does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then a loss of light is likely to be noticeable.

Attached drawing 21384/SHD/002 shows the 5 neighbouring amenity areas considered for assessment. Amenity areas A1, A2, A4 and A5 are located within recently consented Block E and all 4 areas satisfy the BRE guidelines.

Amenity area A3 is the pathway located between the development site and Station Hill development. The results indicate that currently 49% of the area will receive at least 2 hours of direct sunlight and this will reduce to 15% in the post development condition.

Overshadowing to proposed amenity areas

Attached drawing 21384/SHD/003 shows the 2 proposed amenity areas considered for assessment. The results indicate that the seventh-floor amenity area will comfortably satisfy the BRE guidelines. First floor amenity area A2 will not receive 2 hours of direct sunlight to any part of the area, although this is commensurate with the amenity areas within Block E of the Station Hill development.

Conclusion

The addendum report has tested the revised scheme massing using the methodologies recommended in the BRE guide. As part of the process, we have also addressed the comments raised by the BRE following a peer review of the daylight and sunlight report dated June 2022, which was submitted as part of the planning application.

The advice contained in the BRE guide is not mandatory and its numerical guidelines should be interpreted flexibly particularly in high density urban regeneration areas where a degree of obstruction is unavoidable if development is to match the height of neighbouring building.

25 April 2023

The proposed scheme by Stefan Shaw Studios was revised to address comments raised as part of the planning application process. The daylight and sunlight test to existing neighbouring properties show that the revised massing will not materially alter the results presented in the June 2022 report.

The revised scheme has improved the overall daylight compliance rate to the proposed dwellings within the scheme, although the sunlight levels remain largely the same as previously reported.

In conclusion, it is submitted that the layout of the proposed development is consistent with the Council's local planning policy on daylight and sunlight, particularly having regard to paragraph 125(c) of the National Planning Policy Framework and Policy CC8 of the local plan.

Yours faithfully



Chris Harris BSc

Partner

E: chris.harris@delvapatmanredler.co.uk

M: 07701 386268



NEIGHBOURING
PROPERTIES CONSIDERED
FOR ANALYSIS

- 1: Block E:
Dwg No: 21384-LOC-001
- 2: Block F:
Dwg No: 21384-LOC-002
- 3: Garrard House:
Dwg No: 21384-LOC-003
- 4: Projection West:
Dwg No: 21384-LOC-004
- 5: 125 Friar Street:
Dwg No: 21384-LOC-005
- 6: 126 Friar Street:
Dwg No: 21384-LOC-005
- 7: 32 Friar Street:
Dwg No: 21384-LOC-006
- 8: 33 Friar Street:
Dwg No: 21384-LOC-006
- 9: 34 Friar Street:
Dwg No: 21384-LOC-006

NO DIMENSIONS TO BE SCALED
FROM THIS DRAWING

KEY:	
	Existing
	Surrounding
	Neighbouring Property

SOURCE DATA:
Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street,
Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning
application drawing information

NOTES:
Relevant neighbouring properties
considered for analysis

REV	Description	Drawn	Date

DELVA PATMAN REDLER
Chartered Surveyors

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:
35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:
LOCATION PLAN
Daylight and Sunlight

DRAWN: VK		JOB NBR: 21384
SCALE: 1:750@A3		
DATE: 20/04/2023		
DWG NO: LOC_DS_002		REV: -



Existing



Proposed

NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing

Surrounding

Proposed

SOURCE DATA:

Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street, Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev. Block E and F: - Planning application drawing information

Proposed:

Stefan Shaw Studio (Architects):
(info received 13.04.2023)
3D Model File Name:
- 230413_35-39 Friar Street_3D Model.dwg
Dwg No's:
- 0083-A-03-L01-101 - 104
Set using reference points from pdf:
- 230414_35-39 Friar Street_Co-ordinates.pdf

NOTES:

All heights given in m AOD

3D View

REV	Description	Drawn	Date

DELVA PATMAN REDLER
Chartered Surveyors

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

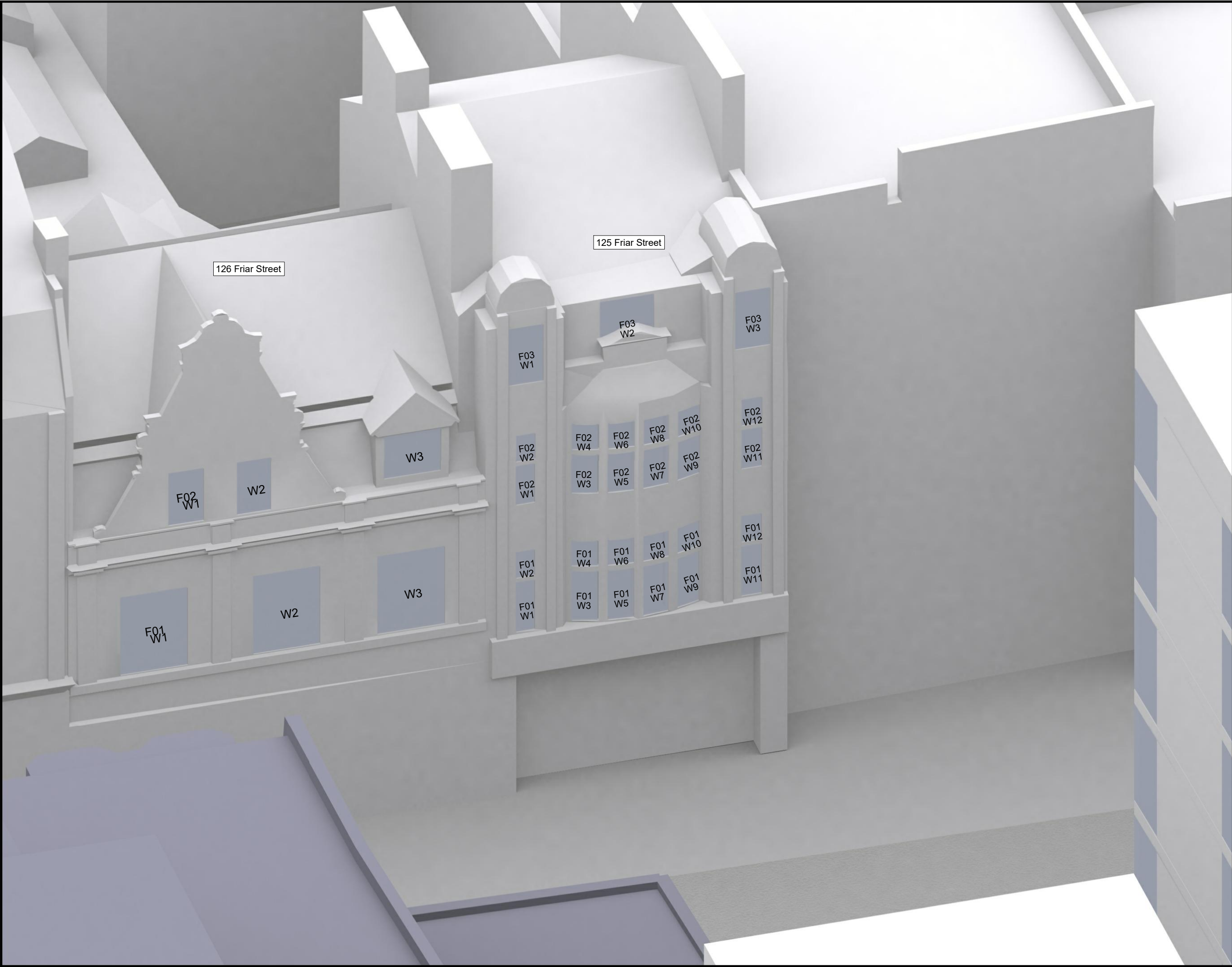
TITLE:

35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:

EXISTING & PROPOSED SCENARIOS
Plan and 3D Views

DRAWN: VK	JOB NBR:
SCALE: NTS	21384
DATE: 20/04/2023	
DWG NO:	REV:
SPT_004	-



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing

Surrounding

Neighbouring Property

W1

Windows tested Daylight only

W1

Windows tested Daylight & Sunlight

SOURCE DATA:

Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street, Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning application drawing information

NOTES:

Layouts obtained from local authority website

REV	Description	Drawn	Date
A	Additional annotation	VK	20.04.23

DELVA PATMAN REDLER

Chartered Surveyors

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703
www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:

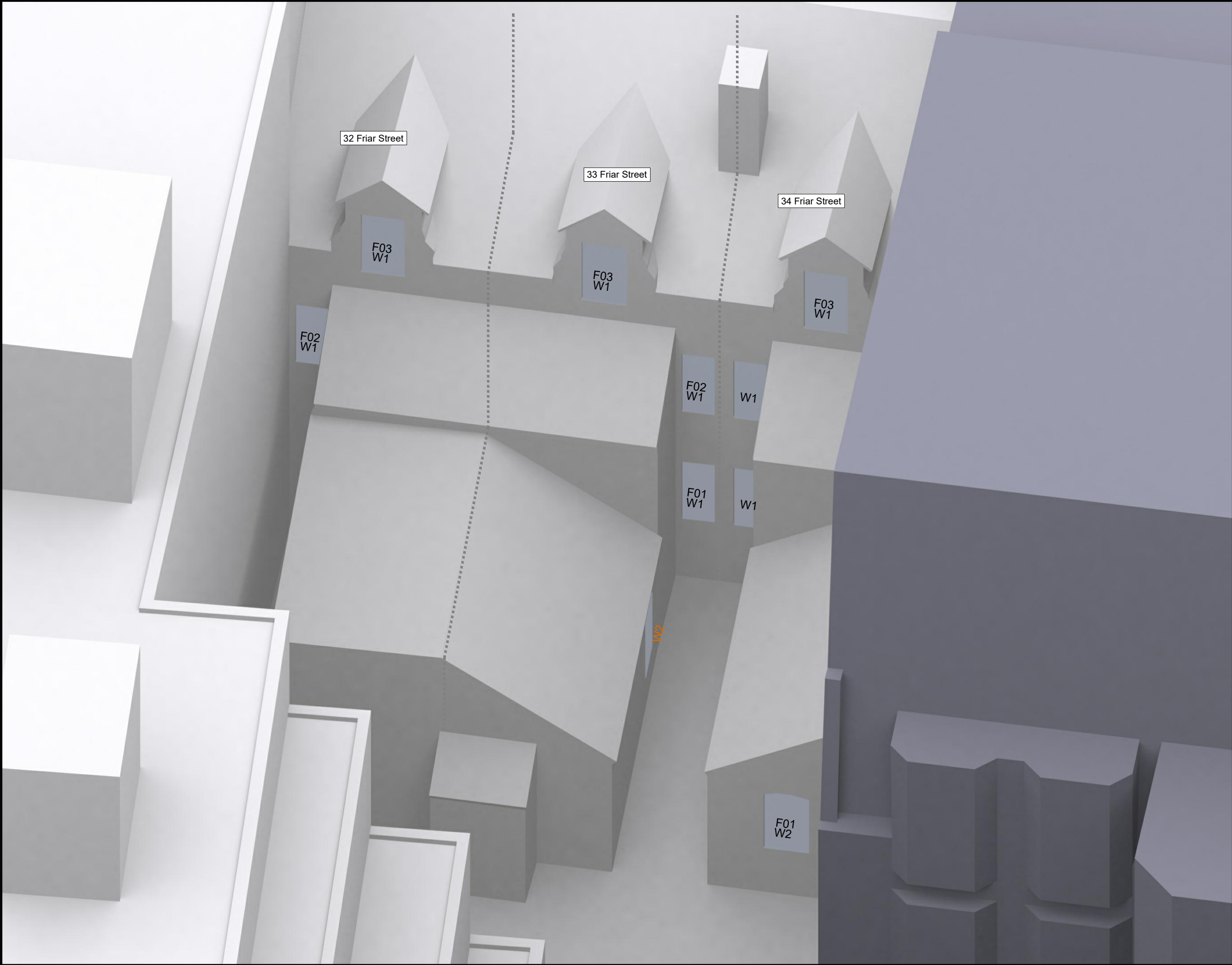
35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:

KEY WINDOW LOCATIONS
Plan and 3D Views

125 and 126 Friar Street

DRAWN: VK	JOB NBR:
SCALE: NTS	21384
DATE: 27/07/2021	
DWG NO:	REV:
LOC_005	A



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing

Surrounding

Neighbouring Property

W1

W1

Windows tested Daylight only

Windows tested Daylight & Sunlight

SOURCE DATA:

Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street, Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning application drawing information

NOTES:

3D View 1

REV	Description	Drawn	Date

DELVA PATMAN REDLER

Chartered Surveyors

London 020 7936 3668

Liverpool 0151 242 0980

Bristol 0117 450 9703

www.delvapatmanredler.co.uk

info@delvapatmanredler.co.uk

TITLE:

35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:

KEY WINDOW LOCATIONS
Plan and 3D Views

32, 33 and 34 Friar Street

DRAWN: VK	JOB NBR:
SCALE: NTS	21384
DATE: 20/04/2023	
DWG NO:	REV:
LOC_006	-

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)		
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.
Note: Red = outside BRE guidelines; Blue = gain in light																		
Block E																		
F00	R1	LKD	W1 →	0.0	0.0	0.0	N/A											
		LKD	W2 ↑	3.6	3.6	0.0	1.00	3%	3%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R2	Bedroom	W3 ↑	5.3	5.0	0.3	0.94	11%	11%	0.03	0.97	North	North	N/A	N/A	North	North	N/A
	R3	Bedroom	W4 ↑	5.3	4.8	0.5	0.91	9%	9%	0.02	0.98	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W5 ↑	5.1	4.5	0.6	0.88	5%	5%	0.01	0.99	North	North	N/A	N/A	North	North	N/A
	R5	LKD	W6 ↑	2.8	2.8	0.0	1.00	7%	7%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R6	Bedroom	W7 ↑	3.6	3.1	0.5	0.86	4%	4%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R7	Bedroom	W8 →	8.2	5.8	2.4	0.71	68%	43%	2.41	0.63	North	North	N/A	N/A	North	North	N/A
	R8	LKD	W9 →	9.6	6.7	2.9	0.70	81%	29%	13.58	0.36	North	North	N/A	N/A	North	North	N/A
	R9	LKD	W10 →	10.7	7.8	2.9	0.73	89%	39%	12.79	0.43	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W11 →	11.0	8.2	2.8	0.75	75%	60%	1.43	0.80	North	North	N/A	N/A	North	North	N/A
	R11	LKD	W12 →	10.6	8.0	2.6	0.75	66%	36%	9.18	0.54	North	North	N/A	N/A	North	North	N/A
	R12	LKD	W13 ↓	8.0	7.3	0.7	0.91	14%	13%	0.17	0.95	12	12	0	1.00	0	0	N/A
	R13	Bedroom	W14 ↓	9.3	8.3	1.0	0.89	27%	27%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R14	Bedroom	W15 ↓	10.1	9.1	1.0	0.90	26%	26%	0.02	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R15	LKD	W16 ↓	10.6	9.7	0.9	0.92	15%	15%	0.07	0.98	21	20	1	0.95	0	0	N/A
	R16	Bedroom	W17 ↓	10.2	10.0	0.2	0.98	28%	28%	0.03	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R17	LKD	W18 →	5.9	5.9	0.0	1.00	25%	25%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R18	Bedroom	W19 →	5.4	5.4	0.0	1.00	44%	44%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R19	Bedroom	W20 ↓	3.3	3.3	0.0	1.00	7%	7%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R20	LKD	W21 ↓	3.6	3.6	0.0	1.00	5%	5%	0.00	1.00	1	1	0	1.00	0	0	N/A
	R21	Bedroom	W22 ↓	4.1	4.1	0.0	1.00	8%	8%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R22	LKD	W23 ↓	4.3	4.3	0.0	1.00	6%	6%	0.00	1.00	0	0	0	N/A	0	0	N/A
	R23	Bedroom	W24 ↓	4.5	4.5	0.0	1.00	11%	11%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R24	LKD	W25 ↓	4.1	4.1	0.0	1.00	8%	8%	0.00	1.00	2	2	0	1.00	0	0	N/A
	R25	Bedroom	W26 ↓	2.8	2.8	0.0	1.00	8%	8%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
F01	R1	Bedroom	W1 ↑	10.2	7.8	2.4	0.76	28%	27%	0.13	0.95	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↑	9.1	7.2	1.9	0.79	16%	15%	0.20	0.95	North	North	N/A	N/A	North	North	N/A
	R3	Bedroom	W3 ↑	6.9	5.3	1.6	0.77	20%	19%	0.15	0.93	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W4 →	11.3	5.8	5.5	0.51											
		LKD	W5 ↑	7.9	6.7	1.2	0.85	31%	16%	2.84	0.53	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W6 ↑	7.4	6.4	1.0	0.86	14%	14%	0.01	0.99	North	North	N/A	N/A	North	North	N/A
	R6	Bedroom	W7 ↑	7.0	6.2	0.8	0.89	12%	12%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W8 ↑	6.5	5.8	0.7	0.89	7%	7%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	LKD	W9 ↑	3.8	3.8	0.0	1.00	10%	10%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W10 ↑	4.2	3.9	0.3	0.93	8%	8%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W11 →	8.9	6.7	2.2	0.75	72%	55%	1.49	0.77	North	North	N/A	N/A	North	North	N/A
	R11	LKD	W12 →	10.6	8.0	2.6	0.75	87%	37%	13.14	0.43	North	North	N/A	N/A	North	North	N/A
	R12	LKD	W13 →	12.1	9.5	2.6	0.79	94%	47%	12.15	0.50	North	North	N/A	N/A	North	North	N/A
	R13	Bedroom	W14 →	12.6	10.0	2.6	0.79	76%	67%	0.92	0.88	North	North	N/A	N/A	North	North	N/A
	R14	LKD	W15 →	12.0	9.6	2.4	0.80	81%	43%	10.10	0.53	North	North	N/A	N/A	North	North	N/A
	R15	Bedroom	W16 →	10.8	8.7	2.1	0.81	72%	61%	1.06	0.84	North	North	N/A	N/A	North	North	N/A
	R16	Bedroom	W17 ↓	9.1	8.4	0.7	0.92	36%	36%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R17	LKD	W18 ↓	11.4	10.6	0.8	0.93	21%	21%	0.01	1.00	22	22	0	1.00	0	0	N/A
	R18	Bedroom	W19 ↓	13.1	12.1	1.0	0.92	41%	41%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R19	Bedroom	W20 ↓	14.1	13.1	1.0	0.93	44%	44%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R20	LKD	W21 ↓	14.0	13.4	0.6	0.96	23%	23%	0.00	1.00	29	29	0	N/A	0	0	N/A
	R21	Bedroom	W22 ↓	9.9	9.9	0.0	1.00	42%	42%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R22	LKD	W23 ↓	16.1	13.9	2.2	0.86	23%	23%	0.05	0.99	28	28	0	N/A	0	0	N/A
	R23	Bedroom	W24 ↓	16.8	14.2	2.6	0.85	43%	42%	0.03	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R24	LKD	W25 →	6.9	6.9	0.0	1.00	30%	30%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R25	Bedroom	W26 →	6.2	6.2	0.0	1.00	55%	55%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R26	Bedroom	W27 ↓	4.0	4.0	0.0	1.00	10%	10%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R27	LKD	W28 ↓	4.4	4.4	0.0	1.00	7%	7%	0.00	1.00	5	5	0	1.00	0	0	N/A
	R28	Bedroom	W29 ↓	5.0	5.0	0.0	1.00	11%	11%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R29	LKD	W30 ↓	5.3	5.3	0.0	1.00	7%	7%	0.00	1.00	5	5	0	1.00	0	0	N/A
	R30	Bedroom	W31 ↓	5.7	5.7	0.0	1.00	13%	13%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R31	LKD	W32 ↓	5.4	5.4	0.0	1.00	9%	9%	0.00	1.00	6	6	0	1.00	0	0	N/A

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% nm)	Prop. (% nm)	Loss (m²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
	R32	Bedroom	W33 ↓	3.7	3.7	0.0	1.00	11%	11%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R33	Bedroom	W34 ↓	6.2	6.0	0.2	0.97	13%	7%	0.61	0.53	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R34	LKD	W35 ↓	6.6	6.2	0.4	0.94	13%	5%	1.95	0.40	5	4	1	0.80	1	0	N/A*	
	R35	Bedroom	W36 ↓	7.5	6.6	0.9	0.88	22%	10%	1.16	0.46	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R36	Bedroom	W37 ↓	9.2	7.3	1.9	0.79	47%	14%	3.42	0.30	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R37	LKD	W38 ↓	11.4	9.0	2.4	0.79												
		LKD	W39 →	6.0	5.4	0.6	0.90												
		LKD	W40 →	6.2	5.7	0.5	0.92	75%	60%	3.45	0.80	20	17	3	0.85	6	3	N/A*	
	R38	Bedroom	W41 →	6.7	6.2	0.5	0.93	21%	21%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
F02	R1	Bedroom	W1 ↑	11.6	9.3	2.3	0.80	31%	30%	0.06	0.98	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↑	10.4	8.5	1.9	0.82	17%	17%	0.05	0.99	North	North	N/A	N/A	North	North	N/A	
	R3	Bedroom	W3 ↑	7.9	6.3	1.6	0.80	24%	23%	0.10	0.96	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W4 →	12.3	6.9	5.4	0.56												
		LKD	W5 ↑	9.2	8.1	1.1	0.88	31%	19%	2.31	0.62	North	North	N/A	N/A	North	North	N/A	
	R5	Bedroom	W6 ↑	8.8	7.8	1.0	0.89	18%	18%	0.01	0.99	North	North	N/A	N/A	North	North	N/A	
	R6	Bedroom	W7 ↑	8.3	7.6	0.7	0.92	16%	16%	0.01	0.99	North	North	N/A	N/A	North	North	N/A	
	R7	LKD	W8 ↑	7.8	7.2	0.6	0.92	8%	8%	0.01	0.99	North	North	N/A	N/A	North	North	N/A	
	R8	LKD	W9 ↑	4.9	4.9	0.0	1.00	12%	12%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R9	Bedroom	W10 ↑	5.0	4.7	0.3	0.94	10%	10%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R10	Bedroom	W11 →	9.5	7.5	2.0	0.79	73%	66%	0.60	0.91	North	North	N/A	N/A	North	North	N/A	
	R11	LKD	W12 →	11.2	8.8	2.4	0.79	92%	46%	12.20	0.50	North	North	N/A	N/A	North	North	N/A	
	R12	LKD	W13 →	12.9	10.5	2.4	0.81	97%	54%	10.90	0.56	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W14 →	14.3	11.9	2.4	0.83	78%	74%	0.37	0.95	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W15 →	12.7	10.5	2.2	0.83	85%	48%	9.72	0.57	North	North	N/A	N/A	North	North	N/A	
	R15	Bedroom	W16 →	11.7	9.9	1.8	0.85	72%	66%	0.56	0.92	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W17 ↓	11.1	10.5	0.6	0.95	49%	49%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R17	LKD	W18 ↓	13.8	13.0	0.8	0.94	28%	28%	0.01	1.00	26	26	0	N/A	0	0	N/A	
	R18	Bedroom	W19 ↓	16.3	15.4	0.9	0.94	57%	57%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R19	Bedroom	W20 ↓	17.5	16.6	0.9	0.95	59%	59%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W21 ↓	17.1	16.5	0.6	0.96	30%	30%	0.00	1.00	35	35	0	N/A	2	2	N/A*	
	R21	Bedroom	W22 ↓	12.8	12.8	0.0	1.00	56%	56%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W23 ↓	19.4	17.3	2.1	0.89	31%	30%	0.02	1.00	35	35	0	N/A	1	1	N/A*	
	R23	Bedroom	W24 ↓	20.5	18.0	2.5	0.88	57%	57%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Studio	W25 ↓	20.4	17.6	2.8	0.86												
		Studio	W26 ↓	8.9	4.8	4.1	0.54	60%	41%	4.85	0.69	27	20	7	0.74	4	3	0.75	
	R25	Bedroom	W27 ↓	23.3	17.3	6.0	0.74	76%	72%	0.46	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R26	LKD	W28 ↓	12.0	6.3	5.7	0.53												
		LKD	W29 →	20.0	5.4	14.6	0.27												
		LKD	W30 →	18.2	5.8	12.4	0.32	100%	69%	6.93	0.70	36	9	27	0.25	11	6	N/A	
	R27	Bedroom	W31 →	15.7	5.7	10.0	0.36	54%	19%	3.15	0.36	North	North	N/A	N/A	North	North	N/A	
	R28	Bedroom	W32 →	13.7	5.6	8.1	0.41	56%	13%	4.03	0.22	North	North	N/A	N/A	North	North	N/A	
	R29	LKD	W33 →	11.6	5.6	6.0	0.48												
		LKD	W34 →	9.9	5.6	4.3	0.57												
		LKD	W35 ↑	9.8	9.8	0.0	1.00	79%	67%	2.67	0.85	North	North	N/A	N/A	North	North	N/A	
	R30	LKD	W36 →	7.8	7.8	0.0	1.00	35%	35%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R31	Bedroom	W37 →	7.0	7.0	0.0	1.00	64%	64%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R32	Bedroom	W38 ↓	4.6	4.6	0.0	1.00	13%	13%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R33	LKD	W39 ↓	5.2	5.2	0.0	1.00	8%	8%	0.00	1.00	7	7	0	1.00	0	0	N/A	
	R34	Bedroom	W40 ↓	5.9	5.9	0.0	1.00	14%	14%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R35	LKD	W41 ↓	6.3	6.3	0.0	1.00	8%	8%	0.00	1.00	7	7	0	1.00	0	0	N/A	
	R36	Bedroom	W42 ↓	6.7	6.7	0.0	1.00	16%	16%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R37	LKD	W43 ↓	6.4	6.4	0.0	1.00	10%	10%	0.00	1.00	9	9	0	1.00	0	0	N/A	
	R38	Bedroom	W44 ↓	4.5	4.5	0.0	1.00	14%	14%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R39	Bedroom	W45 ↓	7.5	7.3	0.2	0.97	20%	19%	0.04	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R40	LKD	W46 ↓	8.0	7.5	0.5	0.94	15%	13%	0.70	0.82	14	13	1	0.93	1	0	N/A*	
	R41	Bedroom	W47 ↓	8.8	8.0	0.8	0.91	28%	26%	0.28	0.90	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R42	Bedroom	W48 ↓	10.6	8.7	1.9	0.82	52%	38%	1.44	0.74	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R43	LKD	W49 ↓	12.7	10.3	2.4	0.81												
		LKD	W50 →	6.8	6.2	0.6	0.91												
		LKD	W51 →	6.9	6.5	0.4	0.94	75%	61%	3.24	0.82	23	20	3	0.87	5	2	N/A*	

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% nm)	Prop. (% nm)	Loss (m²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
	R44	Bedroom	W52 →	7.4	7.0	0.4	0.95	24%	24%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R45	LKD	W53 ↓	34.0	33.9	N/A	N/A												
		LKD	W54 →	30.6	17.5	13.1	0.57	100%	98%	0.37	0.98	77	75	N/A	N/A	27	27	N/A	
	R46	Bedroom	W55 →	29.4	10.9	18.5	0.37	98%	28%	6.35	0.29	North	North	N/A	N/A	North	North	N/A	
	R47	Bedroom	W56 →	28.9	9.2	19.7	0.32	98%	20%	7.08	0.20	North	North	N/A	N/A	North	North	N/A	
	R48	LKD	W57 →	28.2	7.6	20.6	0.27												
		LKD	W58 ↑	4.8	2.0	2.8	0.42	92%	58%	7.84	0.63	North	North	N/A	N/A	North	North	N/A	
	R49	Bedroom	W59 ↑	12.8	9.8	3.0	0.77	41%	40%	0.12	0.97	North	North	N/A	N/A	North	North	N/A	
F03	R1	Bedroom	W1 ↑	13.2	10.9	2.3	0.83	35%	34%	0.05	0.99	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↑	11.9	10.0	1.9	0.84	20%	19%	0.04	0.99	North	North	N/A	N/A	North	North	N/A	
	R3	Bedroom	W3 ↑	9.0	7.5	1.5	0.83	27%	27%	0.07	0.98	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W4 →	13.4	8.2	5.2	0.61												
		LKD	W5 ↑	10.8	9.6	1.2	0.89	32%	23%	1.74	0.72	North	North	N/A	N/A	North	North	N/A	
	R5	Bedroom	W6 ↑	10.4	9.5	0.9	0.91	22%	21%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	
	R6	Bedroom	W7 ↑	9.9	9.2	0.7	0.93	21%	21%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R7	LKD	W8 ↑	9.4	8.8	0.6	0.94	10%	10%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R8	LKD	W9 ↑	6.3	6.3	0.0	1.00	15%	15%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R9	Bedroom	W10 ↑	5.9	5.6	0.3	0.95	13%	13%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R10	Bedroom	W11 →	10.6	8.8	1.8	0.83	75%	74%	0.05	0.99	North	North	N/A	N/A	North	North	N/A	
	R11	LKD	W12 →	7.1	5.0	2.1	0.70	94%	42%	13.73	0.45	North	North	N/A	N/A	North	North	N/A	
	R12	LKD	W13 →	7.0	4.8	2.2	0.69	96%	47%	12.39	0.49	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W14 →	15.9	13.8	2.1	0.87	79%	78%	0.05	0.99	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W15 →	6.8	4.8	2.0	0.71	79%	46%	8.79	0.58	North	North	N/A	N/A	North	North	N/A	
	R15	Bedroom	W16 →	12.8	11.1	1.7	0.87	73%	71%	0.19	0.97	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W17 ↓	12.8	12.3	0.5	0.96	69%	69%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R17	LKD	W18 ↓	16.6	15.9	0.7	0.96	38%	38%	0.01	1.00	31	31	0	N/A	4	4	N/A*	
	R18	Bedroom	W19 ↓	19.6	18.8	0.8	0.96	78%	78%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R19	Bedroom	W20 ↓	21.0	20.1	0.9	0.96	79%	79%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W21 ↓	20.4	19.8	0.6	0.97	40%	40%	0.00	1.00	42	42	N/A	N/A	8	8	N/A	
	R21	Bedroom	W22 ↓	15.6	15.6	0.0	1.00	77%	77%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W23 ↓	22.9	20.9	2.0	0.91	42%	42%	0.01	1.00	42	41	N/A	N/A	8	7	N/A	
	R23	Bedroom	W24 ↓	24.0	21.6	2.4	0.90	79%	79%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Studio	W25 ↓	23.8	21.2	2.6	0.89												
		Studio	W26 ↓	12.3	7.9	4.4	0.64	63%	58%	1.22	0.93	37	29	N/A	N/A	14	12	N/A	
	R25	Bedroom	W27 ↓	26.9	20.8	6.1	0.77	85%	81%	0.43	0.95	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R26	LKD	W28 ↓	14.9	8.7	6.2	0.58												
		LKD	W29 →	21.5	6.5	15.0	0.30												
		LKD	W30 →	19.6	6.9	12.7	0.35	100%	71%	6.51	0.72	41	13	28	0.32	14	10	N/A	
	R27	Bedroom	W31 →	17.0	6.8	10.2	0.40	54%	23%	2.84	0.43	North	North	N/A	N/A	North	North	N/A	
	R28	Bedroom	W32 →	15.0	6.7	8.3	0.45	57%	16%	3.80	0.28	North	North	N/A	N/A	North	North	N/A	
	R29	LKD	W33 →	12.7	6.6	6.1	0.52												
		LKD	W34 →	11.0	6.6	4.4	0.60												
		LKD	W35 ↑	10.3	10.3	0.0	1.00	80%	68%	2.67	0.86	North	North	N/A	N/A	North	North	N/A	
	R30	LKD	W36 →	8.8	8.8	0.0	1.00	40%	40%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R31	Bedroom	W37 →	7.7	7.7	0.0	1.00	75%	75%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R32	Bedroom	W38 ↓	5.4	5.4	0.0	1.00	16%	16%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R33	LKD	W39 ↓	6.1	6.1	0.0	1.00	9%	9%	0.00	1.00	9	9	0	1.00	0	0	N/A	
	R34	Bedroom	W40 ↓	7.0	7.0	0.0	1.00	17%	17%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R35	LKD	W41 ↓	7.5	7.5	0.0	1.00	10%	10%	0.00	1.00	12	12	0	1.00	0	0	N/A	
	R36	Bedroom	W42 ↓	8.0	8.0	0.0	1.00	19%	19%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R37	LKD	W43 ↓	7.7	7.7	0.0	1.00	12%	12%	0.00	1.00	14	14	0	1.00	0	0	N/A	
	R38	Bedroom	W44 ↓	5.4	5.4	0.0	1.00	19%	19%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R39	Bedroom	W45 ↓	8.8	8.6	0.2	0.98	23%	23%	0.02	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R40	LKD	W46 ↓	9.3	8.9	0.4	0.96	16%	15%	0.40	0.90	17	16	1	0.94	1	0	N/A*	
	R41	Bedroom	W47 ↓	10.2	9.4	0.8	0.92	31%	29%	0.16	0.95	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R42	Bedroom	W48 ↓	11.9	10.1	1.8	0.85	54%	43%	1.12	0.80	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R43	LKD	W49 ↓	14.0	11.7	2.3	0.84												
		LKD	W50 →	7.7	7.1	0.6	0.92												
		LKD	W51 →	7.8	7.4	0.4	0.95	76%	63%	3.00	0.83	24	22	2	0.92	6	4	N/A*	
	R44	Bedroom	W52 →	8.2	7.9	0.3	0.96	27%	27%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Loss	Pro./Ex.	Annual (%APSH)				Winter (%APSH)		
				(% VSC)	(% VSC)	(% VSC)	ratio	(% rm)	(% rm)	(m ²)	ratio	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.
	R45	LKD	W53 ↓	37.3	37.2	N/A	N/A											
		LKD	W54 →	33.0	19.9	13.1	0.60	100%	98%	0.37	0.98	77	75	N/A	N/A	27	27	N/A
	R46	Bedroom	W55 →	32.3	13.3	19.0	0.41	98%	35%	5.76	0.35	North	North	N/A	N/A	North	North	N/A
	R47	Bedroom	W56 →	31.9	11.5	20.4	0.36	98%	28%	6.37	0.28	North	North	N/A	N/A	North	North	N/A
	R48	LKD	W57 →	30.8	9.6	21.2	0.31											
		LKD	W58 ↑	5.3	2.4	2.9	0.45	93%	58%	8.06	0.62	North	North	N/A	N/A	North	North	N/A
	R49	Bedroom	W59 ↑	14.5	11.4	3.1	0.79	44%	43%	0.09	0.98	North	North	N/A	N/A	North	North	N/A
	F04	R1	Bedroom	W1 ↑	15.1	12.9	2.2	0.85	39%	39%	0.02	0.99	North	North	N/A	N/A	North	North
	R2	LKD	W2 ↑	13.7	11.9	1.8	0.87	22%	22%	0.03	1.00	North	North	N/A	N/A	North	North	N/A
	R3	Bedroom	W3 ↑	10.3	8.9	1.4	0.86	31%	31%	0.02	0.99	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W4 →	14.8	9.9	4.9	0.67											
		LKD	W5 ↑	12.6	11.6	1.0	0.92	34%	28%	1.07	0.84	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W6 ↑	12.3	11.5	0.8	0.93	25%	25%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R6	Bedroom	W7 ↑	12.0	11.3	0.7	0.94	26%	26%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W8 ↑	11.5	10.9	0.6	0.95	14%	14%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	LKD	W9 ↑	8.1	8.1	0.0	1.00	18%	18%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W10 ↑	7.4	7.1	0.3	0.96	18%	18%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W11 →	11.8	10.2	1.6	0.86	77%	77%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
	R11	LKD	W12 →	7.7	5.9	1.8	0.77	92%	58%	9.02	0.63	North	North	N/A	N/A	North	North	N/A
	R12	LKD	W13 →	11.2	9.3	1.9	0.83	98%	72%	6.42	0.74	North	North	N/A	N/A	North	North	N/A
	R13	Bedroom	W14 →	18.3	16.5	1.8	0.90	80%	79%	0.03	1.00	North	North	N/A	N/A	North	North	N/A
	R14	LKD	W15 →	12.6	10.9	1.7	0.87	89%	58%	8.05	0.66	North	North	N/A	N/A	North	North	N/A
	R15	Bedroom	W16 →	13.7	12.3	1.4	0.90	73%	71%	0.13	0.98	North	North	N/A	N/A	North	North	N/A
	R16	Bedroom	W17 ↓	15.4	14.9	0.5	0.97	89%	89%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R17	LKD	W18 ↓	19.5	18.8	0.7	0.96	56%	56%	0.00	1.00	39	39	N/A	N/A	9	9	N/A
	R18	Bedroom	W19 ↓	23.5	22.8	0.7	0.97	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R19	Bedroom	W20 ↓	25.0	24.2	0.8	0.97	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R20	LKD	W21 ↓	23.5	22.9	0.6	0.97	58%	58%	0.00	1.00	47	47	N/A	N/A	12	12	N/A
	R21	Bedroom	W22 ↓	18.0	18.0	0.0	1.00											
		Bedroom	W23 ↓	18.3	18.3	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R22	LKD	W24 ↓	26.4	24.5	1.9	0.93	61%	61%	0.00	1.00	47	46	N/A	N/A	13	12	N/A
	R23	Bedroom	W25 ↓	27.6	25.3	2.3	0.92	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R24	Studio	W26 ↓	27.5	25.1	2.4	0.91											
		Studio	W27 ↓	15.9	11.7	4.2	0.74	70%	68%	0.50	0.97	41	33	N/A	N/A	18	15	N/A
	R25	Bedroom	W28 ↓	30.2	24.3	5.9	0.80	97%	94%	0.36	0.96	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R26	LKD	W29 ↓	17.9	11.2	6.7	0.63											
		LKD	W30 →	23.1	7.8	15.3	0.34											
		LKD	W31 →	21.1	8.3	12.8	0.39	100%	76%	5.56	0.76	44	17	27	0.39	16	11	N/A
	R27	Bedroom	W32 →	18.5	8.2	10.3	0.44	56%	30%	2.38	0.54	North	North	N/A	N/A	North	North	N/A
	R28	Bedroom	W33 →	16.3	8.0	8.3	0.49	59%	21%	3.47	0.36	North	North	N/A	N/A	North	North	N/A
	R29	LKD	W34 →	13.8	7.7	6.1	0.56											
		LKD	W35 →	11.7	7.4	4.3	0.63											
		LKD	W36 ↑	2.5	2.5	0.0	1.00	81%	66%	3.44	0.82	North	North	N/A	N/A	North	North	N/A
	R30	LKD	W37 →	10.0	10.0	0.0	1.00	47%	47%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R31	Bedroom	W38 →	8.7	8.7	0.0	1.00	78%	78%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R32	Bedroom	W39 ↓	6.3	6.3	0.0	1.00	20%	20%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R33	LKD	W40 ↓	7.1	7.1	0.0	1.00	11%	11%	0.00	1.00	12	12	0	1.00	0	0	N/A
	R34	Bedroom	W41 ↓	8.4	8.4	0.0	1.00	21%	21%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R35	LKD	W42 ↓	8.9	8.9	0.0	1.00	13%	13%	0.00	1.00	14	14	0	1.00	0	0	N/A
	R36	Bedroom	W43 ↓	9.5	9.5	0.0	1.00	25%	25%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R37	LKD	W44 ↓	9.1	9.1	0.0	1.00	15%	15%	0.00	1.00	20	20	0	1.00	0	0	N/A
	R38	Bedroom	W45 ↓	6.7	6.7	0.0	1.00	25%	25%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R39	Bedroom	W46 ↓	10.6	10.4	0.2	0.98	26%	26%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R40	LKD	W47 ↓	10.9	10.5	0.4	0.96	18%	17%	0.22	0.95	21	20	1	0.95	1	0	N/A*
	R41	Bedroom	W48 ↓	12.0	11.3	0.7	0.94	34%	33%	0.04	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R42	Bedroom	W49 ↓	13.8	12.1	1.7	0.88	56%	49%	0.74	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R43	LKD	W50 ↓	15.4	13.3	2.1	0.86											
		LKD	W51 →	8.8	8.3	0.5	0.94											
		LKD	W52 →	9.1	8.7	0.4	0.96	76%	65%	2.64	0.85	30	29	1	N/A	5	4	N/A*
	R44	Bedroom	W53 →	9.4	9.1	0.3	0.97	30%	30%	0.00	1.00	North	North	N/A	N/A	North	North	N/A

Property, room & window attributes			VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)		
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.
	R45	LKD	W54 ↓	39.1	39.0	N/A	N/A											
		LKD	W55 →	34.7	22.9	11.8	0.66	100%	98%	0.37	0.98	80	76	N/A	N/A	28	28	N/A
	R46	Bedroom	W56 →	34.2	16.7	17.5	0.49	98%	52%	4.23	0.52	North	North	N/A	N/A	North	North	N/A
	R47	Bedroom	W57 →	33.9	14.8	19.1	0.44	98%	48%	4.58	0.49	North	North	N/A	N/A	North	North	N/A
	R48	LKD	W58 →	32.8	12.3	20.5	0.38											
		LKD	W59 ↑	5.9	2.8	3.1	0.47	94%	59%	8.04	0.62	North	North	N/A	N/A	North	North	N/A
	R49	Bedroom	W60 ↑	16.5	13.2	3.3	0.80	48%	47%	0.06	0.99	North	North	N/A	N/A	North	North	N/A
F05	R1	Bedroom	W1 ↑	17.3	15.2	2.1	0.88	43%	43%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↑	15.9	14.3	1.6	0.90	25%	25%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
	R3	Bedroom	W3 ↑	12.0	10.7	1.3	0.89	36%	36%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
	R4	LKD	W4 →	16.8	12.5	4.3	0.74											
		LKD	W5 ↑	14.8	13.9	0.9	0.94	36%	34%	0.39	0.94	North	North	N/A	N/A	North	North	N/A
	R5	Bedroom	W6 ↑	14.7	14.0	0.7	0.95	32%	32%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R6	Bedroom	W7 ↑	14.5	13.9	0.6	0.96	32%	32%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
	R7	LKD	W8 ↑	14.2	13.7	0.5	0.96	16%	16%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R8	LKD	W9 ↑	10.9	10.9	0.0	1.00	26%	26%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R9	Bedroom	W10 ↑	9.5	9.3	0.2	0.98	23%	23%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R10	Bedroom	W11 →	14.3	12.9	1.4	0.90	84%	84%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R11	LKD	W12 →	10.2	8.6	1.6	0.84	98%	68%	7.97	0.69	North	North	N/A	N/A	North	North	N/A
	R12	LKD	W13 →	11.6	10.0	1.6	0.86	96%	69%	7.00	0.71	North	North	N/A	N/A	North	North	N/A
	R13	Bedroom	W14 →	21.3	19.7	1.6	0.92	81%	81%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R14	LKD	W15 →	9.9	8.4	1.5	0.85	87%	57%	7.97	0.65	North	North	N/A	N/A	North	North	N/A
	R15	Bedroom	W16 →	15.5	14.3	1.2	0.92	73%	72%	0.09	0.99	North	North	N/A	N/A	North	North	N/A
	R16	Bedroom	W17 ↓	18.3	18.1	0.2	0.99	96%	96%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R17	LKD	W18 ↓	12.6	12.0	0.6	0.95	69%	69%	0.00	1.00	19	19	0	1.00	11	11	N/A
	R18	Bedroom	W19 ↓	28.4	27.8	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R19	Bedroom	W20 ↓	29.1	28.7	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R20	LKD	W21 ↓	16.4	16.0	0.4	0.98	76%	76%	0.01	1.00	26	26	N/A	N/A	17	17	N/A
	R21	Bedroom	W22 ↓	20.9	20.9	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R22	LKD	W23 ↓	20.1	18.4	1.7	0.92	75%	75%	0.00	1.00	25	24	1	0.96	15	14	N/A
	R23	Bedroom	W24 ↓	30.7	28.7	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R24	Studio	W25 ↓	31.4	29.4	N/A	N/A											
		Studio	W26 ↓	19.6	15.9	3.7	0.81	88%	86%	0.47	0.98	48	41	N/A	N/A	25	22	N/A
	R25	Bedroom	W27 ↓	33.3	27.9	N/A	N/A	97%	95%	0.22	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R26	LKD	W28 ↓	20.6	13.7	6.9	0.67											
		LKD	W29 →	24.8	9.5	15.3	0.38											
		LKD	W30 →	22.9	10.4	12.5	0.45	100%	79%	4.84	0.79	50	22	28	0.44	22	16	N/A
	R27	Bedroom	W31 →	20.2	10.3	9.9	0.51	59%	41%	1.61	0.70	North	North	N/A	N/A	North	North	N/A
	R28	Bedroom	W32 →	18.1	10.2	7.9	0.56	60%	28%	3.02	0.46	North	North	N/A	N/A	North	North	N/A
	R29	LKD	W33 →	15.5	9.8	5.7	0.63											
		LKD	W34 →	6.0	2.4	3.6	0.40											
		LKD	W35 ↑	13.7	13.7	0.0	1.00	83%	72%	2.56	0.87	North	North	N/A	N/A	North	North	N/A
	R30	LKD	W36 →	11.4	11.4	0.0	1.00	54%	54%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R31	Bedroom	W37 →	9.7	9.7	0.0	1.00	79%	79%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R32	Bedroom	W38 ↓	7.0	7.0	0.0	1.00	24%	24%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R33	LKD	W39 ↓	7.8	7.8	0.0	1.00	14%	14%	0.00	1.00	16	16	0	1.00	0	0	N/A
	R34	Bedroom	W40 ↓	9.7	9.7	0.0	1.00	27%	27%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R35	LKD	W41 ↓	10.1	10.1	0.0	1.00	16%	16%	0.00	1.00	18	18	0	1.00	0	0	N/A
	R36	Bedroom	W42 ↓	11.1	11.1	0.0	1.00	32%	32%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R37	LKD	W43 ↓	10.4	10.4	0.0	1.00	18%	18%	0.00	1.00	22	22	0	1.00	0	0	N/A
	R38	Bedroom	W44 ↓	7.8	7.8	0.0	1.00	32%	32%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R39	Bedroom	W45 ↓	12.2	12.0	0.2	0.98	30%	30%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R40	LKD	W46 ↓	12.2	11.8	0.4	0.97	20%	19%	0.09	0.98	30	30	0	N/A	1	1	N/A*
	R41	Bedroom	W47 ↓	13.7	13.0	0.7	0.95	38%	37%	0.03	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R42	Bedroom	W48 ↓	15.8	14.3	1.5	0.91	58%	58%	0.04	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R43	LKD	W49 ↓	16.3	14.4	1.9	0.88											
		LKD	W50 →	10.2	9.7	0.5	0.95											
		LKD	W51 →	10.5	10.1	0.4	0.96	77%	68%	2.11	0.88	34	33	N/A	N/A	6	5	N/A
	R44	Bedroom	W52 →	10.8	10.5	0.3	0.97	34%	34%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R45	LKD	W53 ↓	39.6	39.5	N/A	N/A											

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
		LKD	W54 →	35.7	26.8	8.9	0.75	100%	98%	0.31	0.99	80	77	N/A	N/A	28	28	N/A	
	R46	Bedroom	W55 →	35.2	21.3	13.9	0.61	98%	97%	0.10	0.99	North	North	N/A	N/A	North	North	N/A	
	R47	Bedroom	W56 →	34.9	19.3	15.6	0.55	98%	94%	0.41	0.95	North	North	N/A	N/A	North	North	N/A	
	R48	LKD	W57 →	34.1	15.9	18.2	0.47												
		LKD	W58 ↑	20.5	15.3	5.2	0.75	96%	73%	5.22	0.76	North	North	N/A	N/A	North	North	N/A	
	R49	Bedroom	W59 ↑	18.7	15.4	3.3	0.82	52%	51%	0.03	0.99	North	North	N/A	N/A	North	North	N/A	
F06	R1	Bedroom	W1 ↑	19.9	18.1	1.8	0.91	49%	49%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↑	18.9	17.5	1.4	0.93	28%	28%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	
	R3	Bedroom	W3 ↑	14.9	13.8	1.1	0.93	43%	43%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W4 →	21.1	17.4	3.7	0.82												
		LKD	W5 ↑	17.4	16.6	0.8	0.95	39%	39%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R5	Bedroom	W6 ↑	17.5	16.9	0.6	0.97	40%	40%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R6	Bedroom	W7 ↑	17.6	17.1	0.5	0.97	41%	41%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R7	LKD	W8 ↑	17.6	17.2	0.4	0.98	20%	20%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R8	LKD	W9 ↑	15.1	15.1	0.0	1.00	33%	33%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R9	Bedroom	W10 ↑	13.0	12.8	0.2	0.98	32%	32%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R10	Bedroom	W11 →	18.8	17.6	1.2	0.94	96%	96%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R11	LKD	W12 →	25.0	23.7	1.3	0.95	100%	94%	1.43	0.95	North	North	N/A	N/A	North	North	N/A	
	R12	LKD	W13 →	25.3	24.0	1.3	0.95	99%	88%	2.79	0.89	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W14 →	24.1	22.9	1.2	0.95	83%	83%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W15 →	20.9	19.7	1.2	0.94	90%	75%	4.13	0.83	North	North	N/A	N/A	North	North	N/A	
	R15	Bedroom	W16 →	17.0	16.0	1.0	0.94	74%	74%	0.02	1.00	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W17 ↓	24.3	24.0	0.3	0.99	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R17	LKD	W18 ↓	18.9	18.5	0.4	0.98	96%	96%	0.00	1.00	30	30	N/A	N/A	18	18	N/A	
	R18	Bedroom	W19 ↓	33.3	32.8	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R19	Bedroom	W20 ↓	33.8	33.4	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W21 ↓	20.6	20.3	0.3	0.99	98%	98%	0.00	1.00	31	31	N/A	N/A	22	22	N/A	
	R21	Bedroom	W22 ↓	24.1	24.1	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W23 ↓	24.3	22.9	1.4	0.94	99%	99%	0.00	1.00	30	30	N/A	N/A	20	20	N/A	
	R23	Bedroom	W24 ↓	34.6	33.0	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Studio	W25 ↓	35.1	33.5	N/A	N/A												
		Studio	W26 ↓	23.1	19.9	3.2	0.86	98%	97%	0.47	0.98	51	48	N/A	N/A	28	25	N/A	
	R25	Bedroom	W27 ↓	36.1	31.5	N/A	N/A	97%	97%	0.08	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R26	LKD	W28 ↓	23.0	16.3	6.7	0.71												
		LKD	W29 →	26.4	11.8	14.6	0.45												
		LKD	W30 →	24.5	12.8	11.7	0.52	100%	80%	4.70	0.80	53	24	29	0.45	24	18	N/A	
	R27	Bedroom	W31 →	21.9	12.8	9.1	0.58	62%	53%	0.83	0.85	North	North	N/A	N/A	North	North	N/A	
	R28	Bedroom	W32 →	19.9	12.6	7.3	0.63	63%	39%	2.20	0.62	North	North	N/A	N/A	North	North	N/A	
	R29	LKD	W33 →	17.3	12.1	5.2	0.70												
		LKD	W34 →	15.2	11.5	3.7	0.76												
		LKD	W35 ↑	4.2	4.2	0.0	1.00	83%	68%	3.49	0.82	North	North	N/A	N/A	North	North	N/A	
	R30	LKD	W36 →	13.0	13.0	0.0	1.00	65%	65%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R31	Bedroom	W37 →	10.8	10.8	0.0	1.00	81%	81%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R32	Bedroom	W38 ↓	7.8	7.8	0.0	1.00	30%	30%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R33	LKD	W39 ↓	2.4	2.4	0.0	1.00	14%	14%	0.00	1.00	6	6	0	1.00	0	0	N/A	
	R34	Bedroom	W40 ↓	11.4	11.4	0.0	1.00	35%	35%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R35	LKD	W41 ↓	3.1	3.1	0.0	1.00	15%	15%	0.00	1.00	5	5	0	1.00	0	0	N/A	
	R36	Bedroom	W42 ↓	13.3	13.3	0.0	1.00	42%	42%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R37	LKD	W43 ↓	3.3	3.3	0.0	1.00	17%	17%	0.00	1.00	8	8	0	1.00	0	0	N/A	
	R38	Bedroom	W44 ↓	9.8	9.8	0.0	1.00	43%	43%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R39	Bedroom	W45 ↓	14.6	14.4	0.2	0.99	38%	38%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R40	LKD	W46 ↓	4.3	4.0	0.3	0.93	19%	19%	0.05	0.99	12	12	0	1.00	1	1	N/A*	
	R41	Bedroom	W47 ↓	16.3	15.6	0.7	0.96	44%	44%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R42	Bedroom	W48 ↓	18.2	16.9	1.3	0.93	62%	62%	0.03	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R43	LKD	W49 ↓	6.1	4.5	1.6	0.74												
		LKD	W50 →	12.1	11.6	0.5	0.96												
		LKD	W51 →	12.3	12.0	0.3	0.98	75%	62%	2.86	0.84	13	12	1	0.92	5	4	N/A*	
	R44	Bedroom	W52 →	12.5	12.2	0.3	0.98	39%	39%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R45	LKD	W53 ↓	39.6	39.6	N/A	N/A												
		LKD	W54 →	36.3	31.4	N/A	N/A	99%	99%	0.00	1.00	81	80	N/A	N/A	28	28	N/A	

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Loss	Pro./Ex.	Annual (%APSH)				Winter (%APSH)			
				(% VSC)	(% VSC)	(% VSC)	ratio	(% rm)	(% rm)	(m ²)	ratio	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
	R46	Bedroom	W55 →	35.9	27.1	N/A	N/A	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R47	Bedroom	W56 →	35.6	25.0	10.6	0.70	98%	96%	0.19	0.98	North	North	N/A	N/A	North	North	N/A	
	R48	LKD	W57 →	35.0	20.3	14.7	0.58												
		LKD	W58 ↑	22.6	17.7	4.9	0.78	97%	79%	3.98	0.82	North	North	N/A	N/A	North	North	N/A	
	R49	Bedroom	W59 ↑	21.0	18.0	3.0	0.86	57%	57%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	
F07	R1	Bedroom	W1 ↓	37.3	37.0	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ↓	25.9	25.5	0.4	0.98	97%	97%	0.00	1.00	36	36	N/A	N/A	24	24	N/A	
	R3	Bedroom	W3 ↓	37.2	36.8	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W4 ↓	37.1	36.7	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W5 ↓	24.1	23.9	0.2	0.99	98%	98%	0.00	1.00	31	31	N/A	N/A	22	22	N/A	
	R6	Bedroom	W6 ↓	26.5	26.5	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W7 ↓	27.7	26.7	1.0	0.96	99%	99%	0.00	1.00	30	30	N/A	N/A	20	20	N/A	
	R8	Bedroom	W8 ↓	37.4	36.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	Studio	W9 ↓	37.7	36.6	N/A	N/A												
		Studio	W10 ↓	25.9	23.5	2.4	0.91	98%	98%	0.23	0.99	51	48	N/A	N/A	28	25	N/A	
	R10	Bedroom	W11 ↓	38.1	34.5	N/A	N/A	97%	97%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12 ↓	24.9	18.6	6.3	0.75												
		LKD	W13 →	27.9	14.8	13.1	0.53												
		LKD	W14 →	26.3	16.1	10.2	0.61	100%	82%	4.17	0.82	53	28	N/A	N/A	24	18	N/A	
	R12	Bedroom	W15 →	23.9	16.1	7.8	0.67	67%	67%	0.03	1.00	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W16 →	22.0	15.9	6.1	0.72	67%	55%	1.12	0.82	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W17 →	19.4	15.0	4.4	0.77												
		LKD	W18 →	7.9	4.8	3.1	0.61												
		LKD	W19 ↑	18.5	18.5	0.0	1.00	84%	76%	1.93	0.90	North	North	N/A	N/A	North	North	N/A	
	R15	LKD	W20 →	15.0	15.0	0.0	1.00	79%	79%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
R16	Bedroom	W21 →	12.1	12.1	0.0	1.00	82%	82%	0.00	1.00	North	North	N/A	N/A	North	North	N/A		
R17	Bedroom	W22 ↓	9.5	9.5	0.0	1.00	40%	40%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R18	LKD	W23 ↓	3.8	3.8	0.0	1.00	18%	18%	0.00	1.00	8	8	0	1.00	0	0	N/A		
R19	Bedroom	W24 ↓	14.0	14.0	0.0	1.00	47%	47%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R20	LKD	W25 ↓	5.0	5.0	0.0	1.00	19%	19%	0.00	1.00	8	8	0	1.00	0	0	N/A		
R21	Bedroom	W26 ↓	16.1	16.1	0.0	1.00	56%	56%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R22	LKD	W27 ↓	5.8	5.8	0.0	1.00	23%	23%	0.00	1.00	11	11	0	1.00	1	1	N/A*		
R23	Bedroom	W28 ↓	12.2	12.2	0.0	1.00	57%	57%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R24	Bedroom	W29 ↓	17.5	17.4	0.1	0.99	49%	49%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R25	LKD	W30 ↓	6.3	6.0	0.3	0.95	24%	24%	0.01	1.00	13	13	0	1.00	1	1	N/A*		
R26	Bedroom	W31 ↓	19.2	18.7	0.5	0.97	54%	54%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R27	Bedroom	W32 ↓	21.1	20.0	1.1	0.95	68%	68%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R		
R28	LKD	W33 ↓	7.9	6.7	1.2	0.85													
	LKD	W34 →	14.4	14.1	0.3	0.98													
	LKD	W35 →	14.6	14.3	0.3	0.98	75%	67%	1.95	0.89	16	16	0	1.00	7	7	N/A		
	R29	Bedroom	W36 →	14.6	14.4	0.2	0.99	45%	45%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
F08	R1	Bedroom	W1 ↓	37.4	37.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ↓	26.0	25.8	0.2	0.99	97%	97%	0.00	1.00	36	36	N/A	N/A	24	24	N/A	
	R3	Bedroom	W3 ↓	37.4	37.1	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W4 ↓	37.2	36.9	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W5 ↓	24.2	24.0	0.2	0.99	98%	98%	0.00	1.00	31	31	N/A	N/A	22	22	N/A	
	R6	Bedroom	W6 ↓	26.5	26.5	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W7 ↓	27.8	27.1	N/A	N/A	99%	99%	0.00	1.00	30	30	N/A	N/A	20	20	N/A	
	R8	Bedroom	W8 ↓	37.5	36.7	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	Studio	W9 ↓	37.9	37.0	N/A	N/A												
		Studio	W10 ↓	25.9	24.2	1.7	0.93	98%	98%	0.02	1.00	51	48	N/A	N/A	28	25	N/A	
	R10	Bedroom	W11 ↓	38.3	35.6	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12 ↓	24.9	19.5	5.4	0.78												
		LKD	W13 →	29.8	18.8	11.0	0.63												
		LKD	W14 →	28.4	20.2	8.2	0.71	100%	88%	2.70	0.88	53	35	N/A	N/A	24	18	N/A	
	R12	Bedroom	W15 →	26.3	20.1	6.2	0.76	75%	75%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	
R13	Bedroom	W16 →	24.7	19.9	4.8	0.81	74%	74%	0.02	1.00	North	North	N/A	N/A	North	North	N/A		
R14	LKD	W17 →	22.7	19.3	3.4	0.85													
	LKD	W18 →	20.7	18.2	2.5	0.88													
	LKD	W19 ↑	9.7	9.7	0.0	1.00	83%	69%	3.22	0.83	North	North	N/A	N/A	North	North	N/A		

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Loss	Pro./Ex.	Annual (%APSH)				Winter (%APSH)			
				(% VSC)	(% VSC)	(% VSC)	ratio	(% rm)	(% rm)	(m ²)	ratio	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
	R15	LKD	W20 →	17.5	17.5	0.0	1.00	86%	86%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W21 →	13.8	13.8	0.0	1.00	84%	84%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R17	Bedroom	W22 ↓	11.6	11.6	0.0	1.00	54%	54%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R18	LKD	W23 ↓	6.0	6.0	0.0	1.00	24%	24%	0.00	1.00	8	8	0	1.00	0	0	N/A	
	R19	Bedroom	W24 ↓	17.3	17.3	0.0	1.00	67%	67%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W25 ↓	8.5	8.5	0.0	1.00	26%	26%	0.00	1.00	10	10	0	1.00	1	1	N/A*	
	R21	Bedroom	W26 ↓	19.7	19.7	0.0	1.00	76%	76%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W27 ↓	9.2	9.2	0.0	1.00	35%	35%	0.00	1.00	15	15	0	1.00	4	4	N/A*	
	R23	Bedroom	W28 ↓	15.1	15.1	0.0	1.00	78%	78%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Bedroom	W29 ↓	21.0	20.9	0.1	1.00	67%	67%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R25	LKD	W30 ↓	9.8	9.6	0.2	0.98	29%	29%	0.00	1.00	15	15	0	1.00	3	3	N/A*	
	R26	Bedroom	W31 ↓	22.5	22.1	0.4	0.98	70%	70%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R27	Bedroom	W32 ↓	24.4	23.7	0.7	0.97	77%	77%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R28	LKD	W33 ↓	11.0	10.1	0.9	0.92												
		LKD	W34 →	17.5	17.2	0.3	0.98												
		LKD	W35 →	17.5	17.4	0.1	0.99	76%	74%	0.66	0.96	23	23	0	1.00	8	8	N/A	
	R29	Bedroom	W36 →	17.3	17.2	0.1	0.99	54%	54%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
F09	R1	Bedroom	W1 ↓	37.7	37.6	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ↓	26.1	26.0	0.1	1.00	97%	97%	0.00	1.00	36	36	N/A	N/A	24	24	N/A	
	R3	Bedroom	W3 ↓	37.7	37.5	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W4 ↓	37.5	37.4	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W5 ↓	24.2	24.1	0.1	1.00	98%	98%	0.00	1.00	31	31	N/A	N/A	22	22	N/A	
	R6	Bedroom	W6 ↓	26.7	26.7	0.0	1.00	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W7 ↓	27.9	27.4	N/A	N/A	99%	99%	0.00	1.00	30	30	N/A	N/A	20	20	N/A	
	R8	Bedroom	W8 ↓	37.8	37.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	Studio	W9 ↓	38.2	37.5	N/A	N/A												
		Studio	W10 ↓	26.0	24.9	1.1	0.96	98%	98%	0.00	1.00	51	49	N/A	N/A	28	26	N/A	
	R10	Bedroom	W11 ↓	38.6	36.9	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12 ↓	25.0	21.3	3.7	0.85												
		LKD	W13 →	31.8	23.8	8.0	0.75												
		LKD	W14 →	30.8	25.0	5.8	0.81	100%	93%	1.62	0.93	53	44	N/A	N/A	24	21	N/A	
	R12	Bedroom	W15 →	29.1	24.9	4.2	0.86	90%	90%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W16 →	28.0	24.6	3.4	0.88	89%	89%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W17 →	25.7	23.4	2.3	0.91												
		LKD	W18 →	14.8	13.1	1.7	0.89												
		LKD	W19 ↑	24.7	24.7	0.0	1.00	90%	88%	0.53	0.97	North	North	N/A	N/A	North	North	N/A	
	R15	LKD	W20 →	20.7	20.7	0.0	1.00	93%	93%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W21 →	16.4	16.4	0.0	1.00	89%	89%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R17	Bedroom	W22 ↓	14.4	14.4	0.0	1.00	81%	81%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R18	LKD	W23 ↓	8.8	8.8	0.0	1.00	34%	34%	0.00	1.00	12	12	0	1.00	4	4	N/A*	
	R19	Bedroom	W24 ↓	21.6	21.6	0.0	1.00	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W25 ↓	12.9	12.9	0.0	1.00	42%	42%	0.00	1.00	19	19	0	1.00	8	8	N/A	
	R21	Bedroom	W26 ↓	24.2	24.2	0.0	1.00	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W27 ↓	13.2	13.2	0.0	1.00	49%	49%	0.00	1.00	19	19	0	1.00	8	8	N/A	
	R23	Bedroom	W28 ↓	18.1	18.1	0.0	1.00	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Bedroom	W29 ↓	25.2	25.1	0.1	1.00	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R25	LKD	W30 ↓	13.9	13.8	0.1	0.99	40%	40%	0.00	1.00	21	21	0	1.00	9	9	N/A	
	R26	Bedroom	W31 ↓	26.4	26.1	0.3	0.99	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R27	Bedroom	W32 ↓	28.3	27.8	N/A	N/A	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R28	LKD	W33 ↓	14.4	13.8	0.6	0.96												
		LKD	W34 →	21.3	21.1	0.2	0.99												
		LKD	W35 →	21.2	21.1	0.1	1.00	82%	82%	0.00	1.00	32	32	N/A	N/A	14	14	N/A	
	R29	Bedroom	W36 →	20.7	20.6	0.1	1.00	69%	69%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
F10	R1	Bedroom	W1 ↓	38.4	38.4	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ↓	26.2	26.2	0.0	1.00	97%	97%	0.00	1.00	36	36	N/A	N/A	24	24	N/A	
	R3	Bedroom	W3 ↓	38.4	38.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W4 ↓	38.3	38.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W5 ↓	24.4	24.3	0.1	1.00	98%	98%	0.00	1.00	31	31	N/A	N/A	22	22	N/A	
	R6	Bedroom	W6 ↓	27.5	27.5	N/A	N/A	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W7 ↓	28.0	27.7	N/A	N/A	99%	99%	0.00	1.00	30	30	N/A	N/A	20	20	N/A	

Property, room & window attributes				VSC				NSL				APSH (room)								
Floor	Room	Room use	Window Ref./Orientation	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Loss	Pro./Ex.	Annual (%APSH)				Winter (%APSH)				
				(% VSC)	(% VSC)	(% VSC)	ratio	(% m)	(% m)	(m ²)	ratio	Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.		
	R8	Bedroom	W8	↓	38.5	38.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	Studio	W9	↓	38.8	38.5	N/A	N/A												
		Studio	W10	↓	25.9	25.3	0.6	0.98	98%	98%	0.00	1.00	50	49	N/A	N/A	28	27	N/A	
	R10	Bedroom	W11	↓	39.1	38.3	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12	↓	25.1	23.2	1.9	0.92												
		LKD	W13	→	34.0	29.6	N/A	N/A												
		LKD	W14	→	33.4	30.4	N/A	N/A	100%	100%	0.00	1.00	53	51	N/A	N/A	24	22	N/A	
	R12	Bedroom	W15	→	32.4	30.0	N/A	N/A	97%	97%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R13	Bedroom	W16	→	31.6	29.7	N/A	N/A	97%	97%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R14	LKD	W17	→	30.8	29.5	N/A	N/A												
		LKD	W18	→	29.6	28.6	N/A	N/A												
		LKD	W19	↑	15.3	15.3	0.0	1.00	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R15	LKD	W20	→	24.9	24.9	0.0	1.00	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R16	Bedroom	W21	→	19.1	19.1	0.0	1.00	94%	94%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R17	Bedroom	W22	↓	18.1	18.1	0.0	1.00	86%	86%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R18	LKD	W23	↓	12.2	12.2	0.0	1.00	61%	61%	0.00	1.00	18	18	0	1.00	10	10	N/A	
	R19	Bedroom	W24	↓	27.6	27.6	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R20	LKD	W25	↓	17.8	17.8	0.0	1.00	70%	70%	0.00	1.00	23	23	0	1.00	12	12	N/A	
	R21	Bedroom	W26	↓	29.4	29.4	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R22	LKD	W27	↓	17.6	17.6	0.0	1.00	73%	73%	0.00	1.00	24	24	0	1.00	13	13	N/A	
	R23	Bedroom	W28	↓	21.8	21.8	0.0	1.00	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Bedroom	W29	↓	30.3	30.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R25	LKD	W30	↓	18.3	18.2	0.1	0.99	62%	62%	0.00	1.00	30	30	N/A	N/A	18	18	N/A	
	R26	Bedroom	W31	↓	31.0	30.9	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R27	Bedroom	W32	↓	32.5	32.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R28	LKD	W33	↓	18.1	17.7	0.4	0.98												
		LKD	W34	→	25.7	25.6	0.1	1.00												
		LKD	W35	→	25.5	25.4	0.1	1.00	100%	100%	0.00	1.00	37	37	N/A	N/A	17	17	N/A	
	R29	Bedroom	W36	→	24.8	24.8	0.0	1.00	88%	88%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
F11	R1	Bedroom	W1	↓	39.6	39.6	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2	↓	39.5	39.5	N/A	N/A	97%	97%	0.00	1.00	65	65	N/A	N/A	27	27	N/A	
	R3	Bedroom	W3	↓	39.5	39.5	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W4	↓	39.3	39.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W5	↓	38.0	38.0	N/A	N/A	98%	98%	0.00	1.00	61	61	N/A	N/A	25	25	N/A	
	R6	Bedroom	W6	↓	29.4	29.4	N/A	N/A	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W7	↓	39.6	39.6	N/A	N/A	99%	99%	0.00	1.00	57	57	N/A	N/A	23	23	N/A	
	R8	Bedroom	W8	↓	39.6	39.6	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	Studio	W9	↓	39.6	39.6	N/A	N/A												
		Studio	W10	↓	39.6	39.5	N/A	N/A	98%	98%	0.00	1.00	67	67	N/A	N/A	28	28	N/A	
	R10	Bedroom	W11	↓	39.6	39.5	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12	↓	39.5	39.2	N/A	N/A												
		LKD	W13	→	36.2	35.1	N/A	N/A												
			LKD	W14	→	36.1	35.5	N/A	N/A	100%	100%	0.00	1.00	80	80	N/A	N/A	28	28	N/A
		R12	Bedroom	W15	→	35.6	35.1	N/A	N/A	97%	97%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
		R13	Bedroom	W16	→	35.3	34.8	N/A	N/A	97%	97%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
		R14	LKD	W17	→	34.9	34.5	N/A	N/A											
			LKD	W18	→	33.9	33.6	N/A	N/A											
			LKD	W19	↑	30.4	30.4	N/A	N/A	100%	100%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
		R15	LKD	W20	→	30.8	30.8	N/A	N/A	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
		R16	Bedroom	W21	→	23.6	23.6	0.0	1.00	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
		R17	Bedroom	W22	↓	23.9	23.9	0.0	1.00	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
		R18	LKD	W23	↓	30.6	30.6	N/A	N/A	99%	99%	0.00	1.00	58	58	N/A	N/A	20	20	N/A
		R19	Bedroom	W24	↓	34.1	34.1	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
		R20	LKD	W25	↓	34.2	34.2	N/A	N/A	99%	99%	0.00	1.00	54	54	N/A	N/A	21	21	N/A
		R21	Bedroom	W26	↓	35.2	35.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R22	LKD	W27	↓	33.6	33.6	N/A	N/A	99%	99%	0.00	1.00	55	55	N/A	N/A	22	22	N/A	
	R23	Bedroom	W28	↓	27.0	27.0	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R24	Bedroom	W29	↓	35.7	35.6	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R25	LKD	W30	↓	35.2	35.2	N/A	N/A	97%	97%	0.00	1.00	65	65	N/A	N/A	27	27	N/A	
	R26	Bedroom	W31	↓	36.0	35.9	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Loss	Pro./Ex.
	R27	Bedroom	W32 ↓	36.4	36.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R28	LKD	W33 ↓	36.2	36.1	N/A	N/A												
		LKD	W34 →	30.3	30.3	N/A	N/A												
		LKD	W35 →	30.1	30.1	N/A	N/A	100%	100%	0.00	1.00	76	76	N/A	N/A	27	27	N/A	N/A
	R29	Bedroom	W36 →	29.3	29.3	N/A	N/A	99%	99%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	N/A
Block F																			
F00	R1	LKD	W1 →	17.7	0.6	17.1	0.03												
		LKD	W18 ←	7.6	6.8	0.8	0.89	51%	27%	7.59	0.53	19	7	12	0.37	2	1	0.50	
	R2	LKD	W2 →	18.4	0.8	17.6	0.04												
		LKD	W16 ←	7.9	7.9	0.0	1.00												
		LKD	W17 ←	7.4	7.1	0.3	0.96	51%	30%	9.12	0.59	9	2	7	0.22	0	0	N/A	N/A
	R3	LKD	W3 →	17.5	3.3	14.2	0.19												
		LKD	W15 ←	8.7	8.6	0.1	0.99	72%	47%	8.80	0.65	10	1	9	0.10	0	0	N/A	N/A
	R4	LKD	W4 →	16.8	3.5	13.3	0.21												
		LKD	W14 ←	8.6	8.6	0.0	1.00	84%	49%	11.72	0.58	13	0	13	0.00	1	0	0.00	
	R5	LKD	W5 →	14.4	12.6	1.8	0.88	69%	67%	0.56	0.97	North	North	N/A	N/A	North	North	N/A	N/A
	R6	Bedroom	W6 →	12.4	11.4	1.0	0.92	77%	77%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	N/A
	R7	Bedroom	W7 ↓	14.1	8.2	5.9	0.58	83%	46%	4.19	0.55	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R8	LKD	W8 ↓	16.4	10.7	5.7	0.65	90%	62%	7.47	0.69	33	20	13	0.61	9	2	0.22	
	R9	Bedroom	W9 ↓	17.4	11.9	5.5	0.68	93%	70%	2.25	0.75	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R10	LKD	W10 ↓	18.0	13.0	5.0	0.72	69%	48%	5.78	0.69	33	23	10	0.70	7	3	0.43	
	R11	Bedroom	W11 ↓	18.5	14.2	4.3	0.77	90%	74%	1.64	0.82	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R12	LKD	W12 ↓	18.5	14.9	3.6	0.81	65%	54%	3.02	0.83	34	27	N/A	N/A	8	5	N/A	N/A
	R13	Bedroom	W13 ↓	17.9	14.9	3.0	0.83	84%	77%	0.78	0.91	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
F01	R1	Bedroom	W1 →	21.1	0.8	20.3	0.04	77%	0%	9.09	0.00	North	North	N/A	N/A	North	North	N/A	N/A
	R2	Bedroom	W2 →	21.5	1.0	20.5	0.05	74%	1%	12.87	0.02	North	North	N/A	N/A	North	North	N/A	N/A
	R3	Bedroom	W3 →	20.1	9.1	11.0	0.45	90%	75%	1.96	0.84	North	North	N/A	N/A	North	North	N/A	N/A
	R4	Bedroom	W4 →	19.1	10.6	8.5	0.55	85%	70%	2.19	0.82	North	North	N/A	N/A	North	North	N/A	N/A
	R5	LKD	W5 →	16.3	14.5	1.8	0.89	80%	78%	0.58	0.98	North	North	N/A	N/A	North	North	N/A	N/A
	R6	Bedroom	W6 →	13.8	12.7	1.1	0.92	81%	81%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	N/A
	R7	Bedroom	W7 ↓	15.6	9.4	6.2	0.60	86%	61%	2.87	0.71	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R8	LKD	W8 ↓	18.6	12.7	5.9	0.68	95%	74%	5.76	0.78	38	27	N/A	N/A	11	5	N/A	N/A
	R9	Bedroom	W9 ↓	19.9	14.2	5.7	0.71	95%	83%	1.18	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R10	LKD	W10 ↓	20.7	15.5	5.2	0.75	79%	56%	6.07	0.71	37	26	N/A	N/A	10	4	0.40	
	R11	Bedroom	W11 ↓	21.3	16.9	4.4	0.79	96%	90%	0.65	0.93	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R12	LKD	W12 ↓	21.6	17.8	3.8	0.82	70%	61%	2.67	0.86	42	35	N/A	N/A	12	9	N/A	N/A
	R13	Bedroom	W13 ↓	21.7	18.5	3.2	0.85	94%	90%	0.35	0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R14	Bedroom	W14 ←	9.1	8.5	0.6	0.93	51%	51%	0.04	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R
F02	R1	Bedroom	W1 →	23.5	1.0	22.5	0.04	87%	0%	9.34	0.00	North	North	N/A	N/A	North	North	N/A	N/A
	R2	LKD	W2 →	17.7	15.6	2.1	0.88	84%	82%	0.59	0.98	North	North	N/A	N/A	North	North	N/A	N/A
	R3	Bedroom	W3 →	14.7	13.6	1.1	0.93	83%	83%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	N/A
	R4	Bedroom	W4 ↓	16.4	10.3	6.1	0.63	87%	64%	2.63	0.73	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R5	LKD	W5 ↓	20.2	14.1	6.1	0.70	96%	75%	5.71	0.78	40	30	N/A	N/A	13	7	N/A	N/A
	R6	Bedroom	W6 ↓	21.9	16.0	5.9	0.73	96%	85%	1.03	0.89	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R7	LKD	W7 ↓	22.8	17.5	5.3	0.77	87%	69%	4.87	0.79	43	32	N/A	N/A	13	7	N/A	N/A
	R8	Bedroom	W8 ↓	23.6	18.9	4.7	0.80	98%	95%	0.24	0.98	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R9	LKD	W9 ↓	24.0	20.0	4.0	0.83	77%	70%	1.92	0.91	45	39	N/A	N/A	13	9	N/A	N/A
	R10	Bedroom	W10 ↓	24.2	20.8	3.4	0.86	98%	96%	0.23	0.98	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R11	LKD	W11 ←	11.4	10.3	1.1	0.90	53%	53%	0.18	0.99	12	12	0	1.00	4	4	N/A*	
F03	R1	Bedroom	W1 →	26.0	1.2	24.8	0.05	97%	0%	10.40	0.00	North	North	N/A	N/A	North	North	N/A	N/A
	R2	LKD	W2 →	18.3	16.0	2.3	0.87	87%	86%	0.58	0.98	North	North	N/A	N/A	North	North	N/A	N/A
	R3	Bedroom	W3 →	15.4	14.4	1.0	0.94	84%	84%	0.01	1.00	North	North	N/A	N/A	North	North	N/A	N/A
	R4	Bedroom	W4 ↓	16.8	11.0	5.8	0.65	87%	68%	2.13	0.78	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R5	LKD	W5 ↓	21.2	15.1	6.1	0.71	97%	78%	5.21	0.80	41	31	N/A	N/A	14	8	N/A	N/A
	R6	Bedroom	W6 ↓	23.7	17.7	6.0	0.75	96%	87%	0.91	0.90	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R7	LKD	W7 ↓	24.3	18.9	5.4	0.78	99%	96%	0.78	0.97	49	39	N/A	N/A	17	11	N/A	N/A
	R8	Bedroom	W8 ↓	25.6	20.9	4.7	0.82	98%	97%	0.14	0.99	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A
	R9	LKD	W9 ↓	25.8	21.8	4.0	0.84	93%	89%	1.10	0.96	51	44	N/A	N/A	17	12	N/A	N/A
	R10	Bedroom	W10 ↓	26.5	23.1	3.4	0.87	98%	97%	0.07	0.99	N/R	N/R	N/A	N/A	N/R	N/R	N/A	N/A

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% nm)	Prop. (% nm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)		
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.
	R11	LKD	W11 ←	12.7	11.6	1.1	0.91	56%	55%	0.18	0.99	13	13	0	1.00	5	5	N/A
F04	R1	Bedroom	W1 →	28.5	1.6	26.9	0.06	98%	0%	10.44	0.00	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 →	11.6	9.5	2.1	0.82	85%	83%	0.59	0.98	North	North	N/A	N/A	North	North	N/A
	R3	Bedroom	W3 →	15.9	15.2	0.7	0.96	84%	84%	0.01	1.00	North	North	N/A	N/A	North	North	N/A
	R4	Bedroom	W4 ↓	17.3	11.8	5.5	0.68	87%	70%	1.94	0.80	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	LKD	W5 ↓	14.2	9.2	5.0	0.65	96%	75%	5.83	0.78	18	14	4	N/A*	12	8	N/A
	R6	Bedroom	W6 ↓	25.1	19.3	5.8	0.77	96%	88%	0.80	0.91	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W7 ↓	15.5	11.1	4.4	0.72	98%	94%	0.98	0.96	22	17	5	0.77	15	10	N/A
	R8	Bedroom	W8 ↓	27.1	22.5	4.6	0.83	98%	98%	0.02	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W9 ↓	17.0	13.2	3.8	0.78	97%	93%	1.11	0.96	24	18	6	0.75	15	10	N/A
	R10	Bedroom	W10 ↓	29.1	25.7	3.4	0.88	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R11	LKD	W11 ←	14.2	13.0	1.2	0.92	61%	60%	0.18	0.99	14	14	0	1.00	6	6	N/A
F05	R1	Bedroom	W1 →	31.0	2.2	28.8	0.07	98%	1%	10.31	0.01	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↓	21.8	7.9	13.9	0.36											
		LKD	W3 →	12.6	10.4	2.2	0.83	97%	88%	2.72	0.91	35	18	17	0.51	12	2	0.17
	R3	Bedroom	W4 →	17.0	16.2	0.8	0.95	84%	84%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R4	Bedroom	W5 ↓	18.5	13.1	5.4	0.71	87%	70%	1.94	0.80	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	LKD	W6 ↓	15.6	10.3	5.3	0.66	96%	75%	5.76	0.78	18	14	4	N/A*	12	8	N/A
	R6	Bedroom	W7 ↓	27.3	21.7	5.6	0.79	96%	90%	0.63	0.93	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ↓	17.4	12.8	4.6	0.74	98%	95%	0.96	0.96	24	18	6	0.75	16	10	N/A
	R8	Bedroom	W9 ↓	29.4	25.0	4.4	0.85	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ↓	19.1	15.2	3.9	0.80	97%	93%	0.90	0.97	27	21	6	0.78	17	12	N/A
	R10	Bedroom	W11 ↓	31.5	28.1	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R11	LKD	W12 ←	15.2	14.0	1.2	0.92	64%	63%	0.17	0.99	15	15	0	1.00	7	7	N/A
F06	R1	Bedroom	W1 →	32.5	3.2	29.3	0.10	98%	3%	10.07	0.04	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↓	22.8	9.4	13.4	0.41											
		LKD	W3 →	13.5	11.2	2.3	0.83	97%	90%	2.00	0.93	38	23	15	0.61	12	3	0.25
	R3	Bedroom	W4 →	17.7	17.1	0.6	0.97	84%	84%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R4	Bedroom	W5 ↓	19.2	14.1	5.1	0.73	87%	71%	1.79	0.82	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	LKD	W6 ↓	16.5	11.1	5.4	0.67	96%	76%	5.62	0.78	18	14	4	N/A*	12	8	N/A
	R6	Bedroom	W7 ↓	28.4	23.3	5.1	0.82	96%	92%	0.39	0.96	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ↓	18.6	14.1	4.5	0.76	98%	95%	0.93	0.96	26	19	7	0.73	17	10	N/A
	R8	Bedroom	W9 ↓	30.5	26.6	3.9	0.87	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ↓	20.5	16.9	3.6	0.82	97%	95%	0.66	0.98	27	22	5	0.81	17	12	N/A
	R10	Bedroom	W11 ↓	32.8	29.9	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R11	LKD	W12 ←	9.2	8.1	1.1	0.88	59%	58%	0.17	0.99	13	13	0	1.00	8	8	N/A
F07	R1	Bedroom	W1 →	33.8	4.7	29.1	0.14	98%	7%	9.64	0.08	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↓	23.6	11.4	12.2	0.48											
		LKD	W3 →	14.2	12.0	2.2	0.85	97%	93%	1.27	0.96	40	27	N/A	N/A	13	5	N/A
	R3	Bedroom	W4 →	18.5	17.9	0.6	0.97	84%	84%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R4	Bedroom	W5 ↓	19.6	15.4	4.2	0.79	87%	86%	0.13	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	LKD	W6 ↓	17.1	12.4	4.7	0.73	97%	77%	5.22	0.80	19	16	3	0.84	13	10	N/A
	R6	Bedroom	W7 ↓	29.4	25.2	4.2	0.86	96%	95%	0.14	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ↓	19.6	15.8	3.8	0.81	98%	96%	0.73	0.97	26	21	5	0.81	17	12	N/A
	R8	Bedroom	W9 ↓	31.5	28.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ↓	21.6	18.7	2.9	0.87	97%	95%	0.50	0.98	27	25	N/A	N/A	17	15	N/A
	R10	Bedroom	W11 ↓	33.8	31.4	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R11	LKD	W12 ←	10.1	9.1	1.0	0.90	58%	58%	0.14	0.99	10	10	0	1.00	6	6	N/A
F08	R1	Bedroom	W1 →	34.9	7.3	27.6	0.21	98%	16%	8.71	0.17	North	North	N/A	N/A	North	North	N/A
	R2	LKD	W2 ↓	24.6	14.3	10.3	0.58											
		LKD	W3 →	14.8	13.1	1.7	0.89	97%	95%	0.51	0.98	41	33	N/A	N/A	13	7	N/A
	R3	Bedroom	W4 →	19.4	18.9	0.5	0.97	85%	85%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R4	Bedroom	W5 ↓	20.4	17.0	3.4	0.83	87%	87%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	LKD	W6 ↓	17.7	13.9	3.8	0.79	97%	81%	4.26	0.84	20	18	2	0.90	14	12	N/A
	R6	Bedroom	W7 ↓	30.5	27.3	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ↓	20.8	17.9	2.9	0.86	99%	99%	0.01	1.00	27	23	4	0.85	18	14	N/A
	R8	Bedroom	W9 ↓	32.7	30.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ↓	22.6	20.5	2.1	0.91	97%	95%	0.49	0.98	28	26	N/A	N/A	18	16	N/A
	R10	Bedroom	W11 ↓	34.6	32.8	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R11	LKD	W12 ←	10.8	9.8	1.0	0.91	63%	63%	0.13	0.99	10	10	0	1.00	6	6	N/A

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
F09	R1	Bedroom	W1 →	35.8	12.1	23.7	0.34	98%	35%	6.70	0.36	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↓	26.1	18.1	8.0	0.69												
		LKD	W3 →	15.5	14.3	1.2	0.92	97%	95%	0.44	0.99	44	39	N/A	N/A	14	9	N/A	
	R3	Bedroom	W4 →	20.4	20.2	0.2	0.99	86%	86%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W5 ↓	18.3	15.7	2.6	0.86	97%	88%	2.44	0.91	20	18	2	0.90	14	12	N/A	
	R5	Bedroom	W6 ↓	21.5	19.3	2.2	0.90	87%	87%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ↓	32.0	29.8	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ↓	22.2	20.2	2.0	0.91	99%	99%	0.00	1.00	28	26	N/A	N/A	18	16	N/A	
	R8	Bedroom	W9 ↓	33.8	32.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ↓	23.7	22.2	1.5	0.94	97%	97%	0.17	0.99	31	31	N/A	N/A	21	21	N/A	
	R10	Bedroom	W11 ↓	35.3	34.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F10	R11	LKD	W12 ←	13.6	12.6	1.0	0.93	66%	65%	0.12	0.99	10	10	0	1.00	6	6	N/A	
	R1	Bedroom	W1 →	36.6	20.4	16.2	0.56	98%	88%	1.02	0.90	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↓	28.4	23.7	4.7	0.83												
		LKD	W3 →	16.4	15.7	0.7	0.96	97%	97%	0.10	1.00	48	46	N/A	N/A	16	14	N/A	
	R3	Bedroom	W4 →	22.1	22.0	0.1	1.00	88%	88%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W5 ↓	19.5	18.0	1.5	0.92	97%	97%	0.00	1.00	25	25	N/A	N/A	17	17	N/A	
	R5	Bedroom	W6 ↓	23.5	22.4	1.1	0.95	89%	89%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ↓	34.1	32.9	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ↓	23.6	22.6	1.0	0.96	99%	99%	0.00	1.00	32	32	N/A	N/A	22	22	N/A	
	R8	Bedroom	W9 ↓	35.1	34.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ↓	24.7	24.0	0.7	0.97	97%	97%	0.01	1.00	32	32	N/A	N/A	22	22	N/A	
F11	R10	Bedroom	W11 ↓	36.3	35.7	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12 ←	17.2	16.6	0.6	0.97	72%	72%	0.08	1.00	16	16	0	1.00	6	6	N/A	
	R1	Bedroom	W1 →	37.3	32.2	N/A	N/A	98%	98%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R2	LKD	W2 ↓	32.7	31.3	N/A	N/A												
		LKD	W3 →	31.6	31.5	N/A	N/A	100%	100%	0.00	1.00	65	65	N/A	N/A	21	21	N/A	
	R3	Bedroom	W4 →	24.7	24.7	0.0	1.00	94%	94%	0.00	1.00	North	North	N/A	N/A	North	North	N/A	
	R4	LKD	W5 ↓	26.0	25.6	0.4	0.98	99%	99%	0.00	1.00	37	37	N/A	N/A	23	23	N/A	
	R5	Bedroom	W6 ↓	27.5	27.1	N/A	N/A	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ↓	36.4	36.0	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ↓	28.6	28.3	N/A	N/A	99%	99%	0.00	1.00	41	41	N/A	N/A	27	27	N/A	
	R8	Bedroom	W9 ↓	36.7	36.5	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F12	R9	LKD	W10 ↓	29.2	28.9	N/A	N/A	97%	97%	0.01	1.00	40	40	N/A	N/A	26	26	N/A	
	R10	Bedroom	W11 ↓	37.5	37.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R11	LKD	W12 ←	33.6	33.5	N/A	N/A	98%	98%	0.00	1.00	32	32	N/A	N/A	7	7	N/A	
	R1	LKD	W1 ↓	39.1	39.1	N/A	N/A	99%	99%	0.00	1.00	63	63	N/A	N/A	28	28	N/A	
	R2	Bedroom	W2 ↓	39.1	39.1	N/A	N/A	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R3	Bedroom	W3 ↓	39.2	39.2	N/A	N/A	97%	97%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	LKD	W4 ↓	39.2	39.2	N/A	N/A	99%	99%	0.00	1.00	64	64	N/A	N/A	28	28	N/A	
	R5	Bedroom	W5 ↓	39.2	39.2	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	LKD	W6 ↓	39.2	39.2	N/A	N/A	97%	97%	0.00	1.00	64	64	N/A	N/A	28	28	N/A	
	R7	Bedroom	W7 ↓	39.3	39.3	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
Garrard House																			
B01	R1	Bedroom	W1 ←	5.0	4.6	0.4	0.92	45%	40%	0.29	0.89	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	Bedroom	W2 ←	4.6	3.9	0.7	0.85	5%	5%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F00	R1	LD	W1 ←	4.0	2.8	1.2	0.70	20%	15%	1.03	0.73	4	3	1	N/A*	1	0	N/A*	
	R2	Bedroom	W2 ←	4.2	3.0	1.2	0.71												
		Bedroom	W3 ↓	6.0	4.7	1.3	0.78	16%	15%	0.10	0.93	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F01	R1	Living Room	W1 ←	3.6	3.1	0.5	0.86												
		Living Room	W2 ←	3.0	2.2	0.8	0.73												
		Living Room	W3 ←	3.5	2.4	1.1	0.69	27%	17%	2.92	0.65	0	0	0	N/A	0	0	N/A	
	R2	Living Room	W4 ←	3.4	2.1	1.3	0.62												
		Living Room	W5 ←	4.6	3.2	1.4	0.70												
		Living Room	W6 ↓	6.7	5.1	1.6	0.76	17%	13%	1.09	0.78	14	11	3	N/A*	5	3	N/A*	
F02	R1	Living Room	W1 ←	4.2	3.6	0.6	0.86												
		Living Room	W2 ←	3.4	2.7	0.7	0.79												
		Living Room	W3 ←	4.0	2.8	1.2	0.70	30%	20%	3.08	0.67	0	0	0	N/A	0	0	N/A	
	R2	Living Room	W4 ←	3.8	2.6	1.2	0.68												

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
		Living Room	W5 ←	5.1	3.6	1.5	0.71												
		Living Room	W6 ↓	7.8	6.2	1.6	0.79	17%	14%	0.95	0.81	13	9	4	N/A*	5	3	N/A*	
R3		Living Room	W7 ↓	8.7	8.7	0.0	1.00	19%	19%	0.00	1.00	15	15	0	1.00	0	0	N/A	
R4		Living Room	W8 ↓	12.1	12.1	0.0	1.00												
		Living Room	W9 ↓	11.3	11.3	0.0	1.00												
		Living Room	W10 ←	10.0	9.5	0.5	0.95	31%	30%	0.72	0.96	33	32	1	N/A	2	2	N/A*	
R5		Living Room	W11 ←	10.9	10.4	0.5	0.95												
		Living Room	W12 ←	11.4	10.8	0.6	0.95												
		Living Room	W13 ←	12.0	11.4	0.6	0.95	44%	40%	1.12	0.92	15	14	1	0.93	0	0	N/A	
R6		Living Room	W14 ←	12.3	11.6	0.7	0.94												
		Living Room	W15 ←	12.4	11.6	0.8	0.94												
		Living Room	W16 ←	12.3	11.5	0.8	0.93												
		Living Room	W17 ←	11.9	11.0	0.9	0.92												
		Living Room	W18 ↓	3.2	2.8	0.4	0.88	51%	42%	2.87	0.82	15	12	3	0.80	2	0	N/A*	
F03	R1	Living Room	W1 ←	4.8	4.3	0.5	0.90												
		Living Room	W2 ←	4.0	3.2	0.8	0.80												
		Living Room	W3 ←	4.5	3.3	1.2	0.73	32%	23%	2.70	0.73	0	0	0	N/A	0	0	N/A	
	R2	Living Room	W4 ←	4.3	3.1	1.2	0.72												
		Living Room	W5 ←	5.8	4.3	1.5	0.74												
		Living Room	W6 ↓	14.3	12.7	1.6	0.89	17%	15%	0.79	0.85	25	23	2	0.92	11	9	N/A	
R3		Living Room	W7 ↓	19.0	18.6	0.4	0.98	33%	33%	0.00	1.00	40	39	1	N/A	4	4	N/A*	
R4		Living Room	W8 ↓	18.6	17.9	0.7	0.96												
		Living Room	W9 ↓	17.1	16.2	0.9	0.95												
		Living Room	W10 ←	12.4	11.2	1.2	0.90	62%	50%	6.53	0.81	45	41	4	N/A	7	4	N/A*	
	R5	Living Room	W11 ←	13.7	12.4	1.3	0.91												
		Living Room	W12 ←	14.4	13.0	1.4	0.90												
		Living Room	W13 ←	15.1	13.7	1.4	0.91	75%	53%	6.69	0.71	19	15	4	N/A*	3	0	N/A*	
	R6	Living Room	W14 ←	15.5	14.0	1.5	0.90												
		Living Room	W15 ←	15.6	14.1	1.5	0.90												
		Living Room	W16 ←	15.3	13.9	1.4	0.91												
		Living Room	W17 ←	14.4	13.2	1.2	0.92												
		Living Room	W18 ↓	4.3	3.9	0.4	0.91	78%	50%	8.92	0.63	19	15	4	N/A*	3	0	N/A*	
F04	R1	Bedroom	W1 ←	9.1	8.3	0.8	0.91	73%	73%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	9.1	7.9	1.2	0.87												
		LKD	W3 ↓	25.9	24.3	1.6	0.94	93%	93%	0.11	1.00	61	59	N/A	N/A	14	12	N/A	
	R3	Bedroom	W4 ↓	25.1	23.7	1.4	0.94	95%	95%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↓	23.8	22.5	1.3	0.95	95%	95%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W6 ↓	20.7	19.6	1.1	0.95	87%	83%	0.99	0.96	47	43	N/A	N/A	11	7	N/A	
	R6	Bedroom	W7 ←	12.9	11.7	1.2	0.91	66%	66%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F05	R1	Bedroom	W1 ←	10.1	9.3	0.8	0.92	66%	66%	0.03	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	10.1	8.8	1.3	0.87												
		LKD	W3 ↓	28.5	26.9	1.6	0.94	95%	95%	0.11	1.00	65	62	N/A	N/A	16	13	N/A	
	R3	Bedroom	W4 ↓	27.8	26.4	1.4	0.95	100%	100%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↓	26.6	25.4	1.2	0.95	99%	99%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	LKD	W6 ↓	23.3	22.2	1.1	0.95	92%	87%	1.13	0.95	50	47	N/A	N/A	14	11	N/A	
	R6	Bedroom	W7 ←	14.1	12.8	1.3	0.91	64%	63%	0.08	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
F06	R1	Bedroom	W1 ←	13.4	12.4	1.0	0.93	78%	77%	0.04	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	Bedroom	W2 ←	13.8	12.6	1.2	0.91												
		Bedroom	W3 ↓	29.9	28.5	N/A	N/A	100%	100%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R3	Bedroom	W4 ↓	29.8	28.7	N/A	N/A	99%	99%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	LKD	W5 ↓	26.6	25.5	1.1	0.96	92%	88%	1.09	0.96	55	53	N/A	N/A	17	15	N/A	
	R5	Bedroom	W6 ←	15.8	14.6	1.2	0.92	64%	63%	0.05	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
Projection West																			
F00	R1	Bedroom	W1 ←	8.9	8.0	0.9	0.90	25%	22%	0.23	0.91	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	1.3	0.9	0.4	0.69	5%	4%	0.12	0.92	2	2	0	1.00	1	1	N/A*	
F01	R1	Bedroom	W1 ←	10.8	9.6	1.2	0.89	29%	25%	0.35	0.89	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	1.8	1.0	0.8	0.56												
		LKD	W3 ↘	13.3	13.0	0.3	0.98	23%	23%	0.00	1.00	19	19	0	1.00	6	6	N/A	
	R3	Bedroom	W4 ↘	13.4	13.1	0.3	0.98	49%	49%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% nm)	Prop. (% nm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)			
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.	
	R4	Bedroom	W5 ↘	12.7	12.5	0.2	0.98	49%	48%	0.07	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	11.9	11.6	0.3	0.97	44%	42%	0.20	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	11.5	11.4	0.1	0.99	31%	30%	0.08	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	1.5	1.5	0.0	1.00	10%	10%	0.00	1.00	3	3	0	1.00	2	2	N/A*	
	R8	Bedroom	W9 ←	11.7	11.6	0.1	0.99	25%	25%	0.01	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ←	11.2	11.0	0.2	0.98												
		LKD	W11 ←	2.6	2.4	0.2	0.92	26%	25%	0.15	0.98	9	9	0	1.00	0	0	N/A	
F02	R1	Bedroom	W1 ←	13.2	11.4	1.8	0.86	34%	29%	0.53	0.86	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	3.1	1.8	1.3	0.58												
		LKD	W3 ↘	16.1	15.7	0.4	0.98	26%	26%	0.00	1.00	23	23	0	1.00	6	6	N/A	
	R3	Bedroom	W4 ↘	16.2	15.8	0.4	0.98	61%	61%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↘	15.6	15.1	0.5	0.97	62%	59%	0.21	0.95	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	14.5	13.7	0.8	0.94	51%	49%	0.20	0.95	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	14.2	13.5	0.7	0.95	37%	35%	0.15	0.96	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	4.7	4.2	0.5	0.89	13%	13%	0.11	0.96	4	4	0	1.00	2	2	N/A*	
	R8	Bedroom	W9 ←	14.5	13.9	0.6	0.96	33%	31%	0.23	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ←	13.9	13.0	0.9	0.94												
		LKD	W11 ←	5.4	4.9	0.5	0.91	35%	32%	0.76	0.91	14	14	0	1.00	2	2	N/A*	
F03	R1	Bedroom	W1 ←	15.7	13.4	2.3	0.85	43%	34%	0.97	0.79	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	5.3	3.7	1.6	0.70												
		LKD	W3 ↘	19.5	18.6	0.9	0.95	30%	30%	0.00	1.00	34	32	N/A	N/A	11	11	N/A	
	R3	Bedroom	W4 ↘	19.6	18.5	1.1	0.94	74%	74%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↘	18.8	17.6	1.2	0.94	80%	72%	0.55	0.91	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	17.7	15.8	1.9	0.89	67%	58%	0.72	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	17.5	15.7	1.8	0.90	49%	43%	0.71	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	8.2	6.7	1.5	0.82	20%	19%	0.21	0.95	11	11	0	1.00	4	4	N/A*	
	R8	Bedroom	W9 ←	18.2	16.6	1.6	0.91	46%	39%	0.79	0.85	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ←	16.6	15.2	1.4	0.92												
		LKD	W11 ←	8.9	7.7	1.2	0.87	47%	42%	1.37	0.88	19	19	0	1.00	4	4	N/A*	
F04	R1	Bedroom	W1 ←	18.6	15.5	3.1	0.83	59%	40%	1.95	0.69	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	8.5	6.1	2.4	0.72												
		LKD	W3 ↘	23.5	21.6	1.9	0.92	41%	41%	0.02	1.00	40	36	N/A	N/A	13	13	N/A	
	R3	Bedroom	W4 ↘	23.3	21.2	2.1	0.91	92%	91%	0.08	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↘	22.3	20.2	2.1	0.91	98%	84%	0.96	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	20.7	17.8	2.9	0.86	90%	67%	1.90	0.74	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	20.6	17.9	2.7	0.87	71%	48%	2.48	0.68	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	11.9	9.6	2.3	0.81	36%	30%	1.30	0.83	18	15	3	0.83	7	7	N/A	
	R8	Bedroom	W9 ←	21.6	19.5	2.1	0.90	67%	47%	2.26	0.70	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ←	19.8	17.7	2.1	0.89												
		LKD	W11 ←	12.7	10.9	1.8	0.86	74%	64%	2.70	0.86	27	24	3	0.89	6	6	N/A	
F05	R1	Bedroom	W1 ←	22.0	17.9	4.1	0.81	69%	47%	2.36	0.68	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	11.9	8.3	3.6	0.70												
		LKD	W3 ↘	26.9	23.7	3.2	0.88	61%	57%	1.35	0.93	48	42	N/A	N/A	17	17	N/A	
	R3	Bedroom	W4 ↘	25.8	22.6	3.2	0.88	94%	92%	0.20	0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↘	25.1	22.0	3.1	0.88	99%	88%	0.76	0.89	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	23.7	19.9	3.8	0.84	92%	75%	1.38	0.81	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	24.4	20.8	3.6	0.85	86%	56%	3.24	0.65	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	15.3	12.3	3.0	0.80	74%	39%	7.61	0.52	22	17	5	0.77	9	9	N/A	
	R8	Bedroom	W9 ←	25.2	22.4	2.8	0.89	87%	53%	3.86	0.61	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R9	LKD	W10 ←	23.9	21.2	2.7	0.89												
		LKD	W11 ←	16.4	13.9	2.5	0.85	99%	89%	2.52	0.90	33	31	N/A	N/A	11	10	N/A	
F06	R1	Bedroom	W1 ←	24.4	19.5	4.9	0.80	76%	56%	2.17	0.73	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R2	LKD	W2 ←	15.8	10.6	5.2	0.67												
		LKD	W3 ↘	19.3	14.7	4.6	0.76	81%	60%	6.76	0.74	34	25	N/A	N/A	18	15	N/A	
	R3	Bedroom	W4 ↘	12.8	9.4	3.4	0.73	91%	86%	0.38	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R4	Bedroom	W5 ↘	24.0	20.8	3.2	0.87	90%	85%	0.37	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R5	Bedroom	W6 ←	27.1	22.7	4.4	0.84	95%	82%	1.03	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R6	Bedroom	W7 ←	27.1	22.8	4.3	0.84	89%	61%	3.09	0.68	N/R	N/R	N/R	N/R	N/R	N/R	N/R	
	R7	LKD	W8 ←	18.6	14.7	3.9	0.79	94%	43%	10.93	0.45	24	20	4	0.83	11	10	N/A	
	R8	Bedroom	W9 ←	27.7	24.1	3.6	0.87	91%	60%	3.54	0.66	N/R	N/R	N/R	N/R	N/R	N/R	N/R	

Property, room & window attributes				VSC				NSL				APSH (room)						
Floor	Room	Room use	Window Ref./Orientation	Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% rm)	Prop. (% rm)	Loss (m ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)		
												Exis.	Prop.	Loss	Pro./Ex.	Exis.	Prop.	Pro./Ex.
	R9	LKD	W10 ←	28.1	25.0	3.1	0.89											
		LKD	W11 ←	30.6	27.3	N/A	N/A	99%	93%	1.61	0.94	40	37	N/A	N/A	13	12	N/A
F07	R1	Bedroom	W1 ←	27.7	23.1	4.6	0.83	88%	70%	1.86	0.80	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R2	LKD	W2 ←	18.0	13.1	4.9	0.73											
		LKD	W3 ↘	35.0	30.7	N/A	N/A	82%	61%	6.72	0.75	54	46	N/A	N/A	22	19	N/A
	R3	Bedroom	W4 ↘	34.3	30.4	N/A	N/A	95%	92%	0.16	0.98	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R4	Bedroom	W5 ↘	32.1	28.5	N/A	N/A	100%	97%	0.19	0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	Bedroom	W6 ←	30.2	26.2	4.0	0.87	97%	91%	0.48	0.94	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R6	Bedroom	W7 ←	30.8	26.8	4.0	0.87	93%	68%	2.70	0.73	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ←	21.5	17.6	3.9	0.82	95%	47%	10.34	0.49	27	23	4	0.85	13	11	N/A
	R8	Bedroom	W9 ←	31.3	27.6	N/A	N/A	96%	69%	3.00	0.73	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ←	30.8	27.7	N/A	N/A											
		LKD	W11 ↘	25.0	23.1	1.9	0.92	99%	96%	0.70	0.97	49	47	N/A	N/A	23	23	N/A
F08	R1	Bedroom	W1 ←	29.0	25.1	3.9	0.87	95%	83%	1.30	0.87	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R2	LKD	W2 ←	30.2	25.9	4.3	0.86											
		LKD	W3 ↘	35.5	31.9	N/A	N/A	83%	62%	6.59	0.75	56	51	N/A	N/A	23	20	N/A
	R3	Bedroom	W4 ↘	35.5	32.1	N/A	N/A	93%	92%	0.08	0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R4	Bedroom	W5 ↘	34.0	31.0	N/A	N/A	98%	98%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R5	Bedroom	W6 ←	32.0	28.5	N/A	N/A	96%	96%	0.00	1.00	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R6	Bedroom	W7 ←	32.5	29.1	N/A	N/A	97%	82%	1.64	0.84	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R7	LKD	W8 ←	33.3	29.8	N/A	N/A	98%	59%	8.45	0.60	39	36	N/A	N/A	14	12	N/A
	R8	Bedroom	W9 ←	33.3	30.0	N/A	N/A	99%	88%	1.27	0.89	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	R9	LKD	W10 ←	31.9	29.2	N/A	N/A											
		LKD	W11 ↘	30.2	28.5	N/A	N/A	99%	99%	0.00	1.00	54	51	N/A	N/A	24	24	N/A
125 Friar St																		
F01	R1	LKD	W1 ↑	21.7	16.7	5.0	0.77											
		LKD	W2 ↑	22.5	17.6	4.9	0.78											
		LKD	W3 ↑	21.4	16.0	5.4	0.75											
		LKD	W4 ↑	22.2	16.9	5.3	0.76											
		LKD	W5 ↑	22.5	17.5	5.0	0.78											
		LKD	W6 ↑	23.3	18.4	4.9	0.79											
		LKD	W7 ↑	22.3	17.9	4.4	0.80											
		LKD	W8 ↑	23.1	18.8	4.3	0.81											
		LKD	W9 ↖	20.5	17.0	3.5	0.83											
		LKD	W10 ↖	21.3	17.8	3.5	0.84											
		LKD	W11 ↑	21.2	16.9	4.3	0.80											
		LKD	W12 ↑	22.0	17.7	4.3	0.80	98%	90%	1.86	0.92	North	North	N/A	N/A	North	North	N/A
F02	R1	LKD	W1 ↑	24.1	19.4	4.7	0.80											
		LKD	W2 ↑	24.8	20.4	4.4	0.82											
		LKD	W3 ↑	23.6	18.6	5.0	0.79											
		LKD	W4 ↑	24.2	19.5	4.7	0.81											
		LKD	W5 ↑	24.8	20.2	4.6	0.81											
		LKD	W6 ↑	25.5	21.2	4.3	0.83											
		LKD	W7 ↑	24.6	20.6	4.0	0.84											
		LKD	W8 ↑	25.3	21.5	3.8	0.85											
		LKD	W9 ↖	22.8	19.6	3.2	0.86											
		LKD	W10 ↖	23.5	20.5	3.0	0.87											
		LKD	W11 ↑	23.5	19.6	3.9	0.83											
		LKD	W12 ↑	24.3	20.5	3.8	0.84	94%	87%	1.61	0.93	North	North	N/A	N/A	North	North	N/A
F03	R2	LKD	W1 ↑	26.6	22.8	3.8	0.86											
		LKD	W2 ↑	26.8	23.5	3.3	0.88											
		LKD	W3 ↑	26.2	22.9	3.3	0.87	85%	71%	2.86	0.83	North	North	N/A	N/A	North	North	N/A
126 Friar St																		
F01	R1	Unknown-Re	W1 ↑	23.5	16.8	6.7	0.71	99%	67%	3.83	0.68	North	North	N/A	N/A	North	North	N/A
	R2	Unknown-Re	W2 ↑	23.4	17.2	6.2	0.74	99%	80%	2.25	0.81	North	North	N/A	N/A	North	North	N/A
	R3	Unknown-Re	W3 ↑	23.2	17.9	5.3	0.77	99%	86%	1.50	0.87	North	North	N/A	N/A	North	North	N/A
F02	R1	Unknown-Re	W1 ↑	26.5	20.5	6.0	0.77											
		Unknown-Re	W2 ↑	26.4	20.7	5.7	0.78	55%	35%	4.47	0.64	North	North	N/A	N/A	North	North	N/A

Property, room & window attributes				VSC				NSL				APSH (room)							
Floor	Room	Room use	Window Ref./Orientation		Exis. (% VSC)	Prop. (% VSC)	Loss (% VSC)	Pro./Ex. ratio	Exis. (% <i>rm</i>)	Prop. (% <i>rm</i>)	Loss (<i>m</i> ²)	Pro./Ex. ratio	Annual (%APSH)				Winter (%APSH)		
	R2	Unknown-Re	W3	↑	24.5	20.0	4.5	0.82	35%	28%	1.24	0.79	North	North	N/A	N/A	North	North	N/A
32 Friar St																			
F02	R1	Kitchen	W1	↑	5.6	5.6	0.0	1.00	19%	19%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
F03	R1	Bedroom	W1	↑	14.0	11.7	2.3	0.84	37%	31%	1.00	0.83	North	North	N/A	N/A	North	North	N/A
33 Friar St																			
F01	R1	Unknown-Re	W1	↑	7.3	6.6	0.7	0.90	29%	24%	0.50	0.85	North	North	N/A	N/A	North	North	N/A
	R2	Unknown-Re	W2	←	2.6	3.1	-0.5	1.19	4%	8%	-0.53	2.10	0	0	0	N/A	0	0	N/A
F02	R1	Unknown-Re	W1	↑	11.0	10.2	0.8	0.93	33%	27%	0.73	0.81	North	North	N/A	N/A	North	North	N/A
F03	R1	Unknown-Re	W1	↑	17.3	15.3	2.0	0.88	43%	37%	0.93	0.86	North	North	N/A	N/A	North	North	N/A
34 Friar St																			
F01	R1	Unknown-Re	W1	↑	8.6	8.2	0.4	0.95	31%	31%	0.00	1.00	North	North	N/A	N/A	North	North	N/A
	R2	Unknown-Re	W2	↑	10.1	10.1	0.0	1.00	42%	39%	0.36	0.92	North	North	N/A	N/A	North	North	N/A
F02	R1	Unknown-Re	W1	↑	13.4	12.7	0.7	0.95	43%	43%	0.02	1.00	North	North	N/A	N/A	North	North	N/A
F03	R1	Unknown-Re	W1	↑	15.1	15.1	0.0	1.00	46%	45%	0.16	0.98	North	North	N/A	N/A	North	North	N/A



First Floor



Second -
Fourth Floors

NO DIMENSIONS TO BE SCALED
FROM THIS DRAWING

KEY:	
Floor Plans	Windows tested Daylight only
Proposed	Windows tested Daylight & Sunlight
Tested Layouts	

SOURCE DATA:
Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street,
Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning
application drawing information

Proposed:

Stefan Shaw Studio (Architects):
(info received 13.04.2023)
3D Model File Name:
- 230413_35-39 Friar Street_3D Model.dwg
Dwg No's:
- 0083-A-03-L01-101 - 104
Set using reference points from pdf:
- 230414_35-39 Friar Street_Co-ordinates.pdf

NOTES:

REV	Description	Drawn	Date

DELVA PATMAN REDLER
Chartered Surveyors
London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703
www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:
35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:
KEY WINDOW LOCATIONS
Plan View

First - Fourth Floor Layouts

DRAWN: VK	JOB NBR:
SCALE: 1:250@A3	21384
DATE: 20/04/2022	
DWG NO:	REV:
ST_002	-

Property & room attributes					Daylight/Sunlight (BRE 2011)							
Floor	Flat/Unit no.	Room ref.	Property type	Room use	ADF		NSL (% room)	Room depth criterion		APSH room		
					Target (%)	ADF (%)		Limit (current) (m)	Criterion met?	Annual (%)	Winter (%)	
B1												
F01	Plan(s)	R1	Residential	Bedroom	1.0	0.38	39%	9.71	Yes	2	1	
	Plan(s)	R2	Residential	LD	1.5	1.64	43%	Exempt: Dual Aspect	Yes	8	4	
	Plan(s)	R3	Residential	Bedroom	1.0	1.24	27%	8.97	Yes	5	2	
	Plan(s)	R4	Residential	Bedroom	1.0	0.48	38%	9.71	Yes	1	1	
	Plan(s)	R5	Residential	LKD	1.5	5.59	99%	Exempt: Dual Aspect	Yes	60	19	
	Plan(s)	R6	Residential	Bedroom	1.0	3.22	96%	11.20	Yes	44	13	
	Plan(s)	R7	Residential	Bedroom	1.0	1.39	94%	10.77	Yes	13	13	
	Plan(s)	R8	Residential	LD	1.5	2.68	93%	Exempt: Dual Aspect	Yes	53	19	
	Plan(s)	R9	Residential	Bedroom	1.0	0.85	63%	10.10	Yes	7	7	
	Plan(s)	R10	Residential	LD	1.5	1.78	81%	Exempt: Dual Aspect	Yes	49	17	
	Plan(s)	R11	Residential	LD	1.5	1.37	96%	10.14	Yes	9	9	
	Plan(s)	R12	Residential	Bedroom	1.0	2.74	81%	11.27	Yes	0	0	
	Plan(s)	R13	Residential	Bedroom	1.0	1.62	53%	10.14	Yes	0	0	
	Plan(s)	R14	Residential	LKD	1.5	0.90	42%	Exempt: Dual Aspect	Yes	0	0	
	Plan(s)	R15	Residential	LD	1.5	0.90	37%	10.46	Yes	2	0	
	Plan(s)	R16	Residential	Bedroom	1.0	1.85	61%	9.70	Yes	4	0	
	Plan(s)	R17	Residential	Bedroom	1.0	1.83	61%	9.50	Yes	7	0	
	Plan(s)	R18	Residential	LD	1.5	0.77	30%	10.28	Yes	2	0	
	Plan(s)	R19	Residential	Bedroom	1.0	0.99	43%	9.60	Yes	6	0	
	Plan(s)	R20	Residential	Bedroom	1.0	1.22	79%	10.07	Yes	17	4	
	Plan(s)	R21	Residential	LD	1.5	2.96	96%	Exempt: Dual Aspect	Yes	30	5	
	Plan(s)	R22	Residential	LD	1.5	1.36	74%	Exempt: Dual Aspect	Yes	7	5	
	Plan(s)	R23	Residential	Bedroom	1.0	1.90	72%	Exempt: Dual Aspect	Yes	0	0	
	Plan(s)	R24	Residential	LKD	1.5	0.99	66%	Exempt: Dual Aspect	Yes	1	0	
	Plan(s)	R25	Residential	Bedroom	1.0	0.04	1%	11.65	Yes	0	0	
F02	Plan(s)	R1	Residential	Studio	1.5	1.54	71%	Exempt: Dual Aspect	Yes	12	0	
	Plan(s)	R2	Residential	Bedroom	1.0	0.41	57%	9.83	Yes	1	0	
	Plan(s)	R3	Residential	LD	1.5	2.22	82%	Exempt: Dual Aspect	Yes	19	0	
	Plan(s)	R4	Residential	Bedroom	1.0	1.72	94%	9.41	Yes	13	0	
	Plan(s)	R5	Residential	Bedroom	1.0	0.71	56%	Exempt: Dual Aspect	Yes	0	0	
	Plan(s)	R6	Residential	LD	1.5	2.16	75%	Exempt: Dual Aspect	Yes	10	0	
	Plan(s)	R7	Residential	Bedroom	1.0	1.52	67%	9.41	Yes	4	0	
	Plan(s)	R8	Residential	Bedroom	1.0	0.75	44%	Exempt: Dual Aspect	Yes	2	1	
	Plan(s)	R9	Residential	LD	1.5	1.86	44%	Exempt: Dual Aspect	Yes	9	4	
	Plan(s)	R10	Residential	Bedroom	1.0	1.41	30%	9.40	Yes	4	2	
	Plan(s)	R11	Residential	Bedroom	1.0	0.64	39%	9.91	Yes	2	2	
	Plan(s)	R12	Residential	LKD	1.5	6.11	99%	Exempt: Dual Aspect	Yes	76	29	
	Plan(s)	R13	Residential	Bedroom	1.0	3.54	96%	11.20	Yes	51	20	
	Plan(s)	R14	Residential	Bedroom	1.0	1.66	97%	10.76	Yes	17	17	
	Plan(s)	R15	Residential	LD	1.5	3.03	98%	Exempt: Dual Aspect	Yes	57	24	
	Plan(s)	R16	Residential	Bedroom	1.0	1.01	75%	10.10	Yes	8	8	
	Plan(s)	R17	Residential	LD	1.5	2.00	90%	10.66	Yes	50	20	
	Plan(s)	R18	Residential	LD	1.5	1.60	99%	10.14	Yes	9	9	

Orange or Red = Below guidelines (Orange = within 20% of guideline)

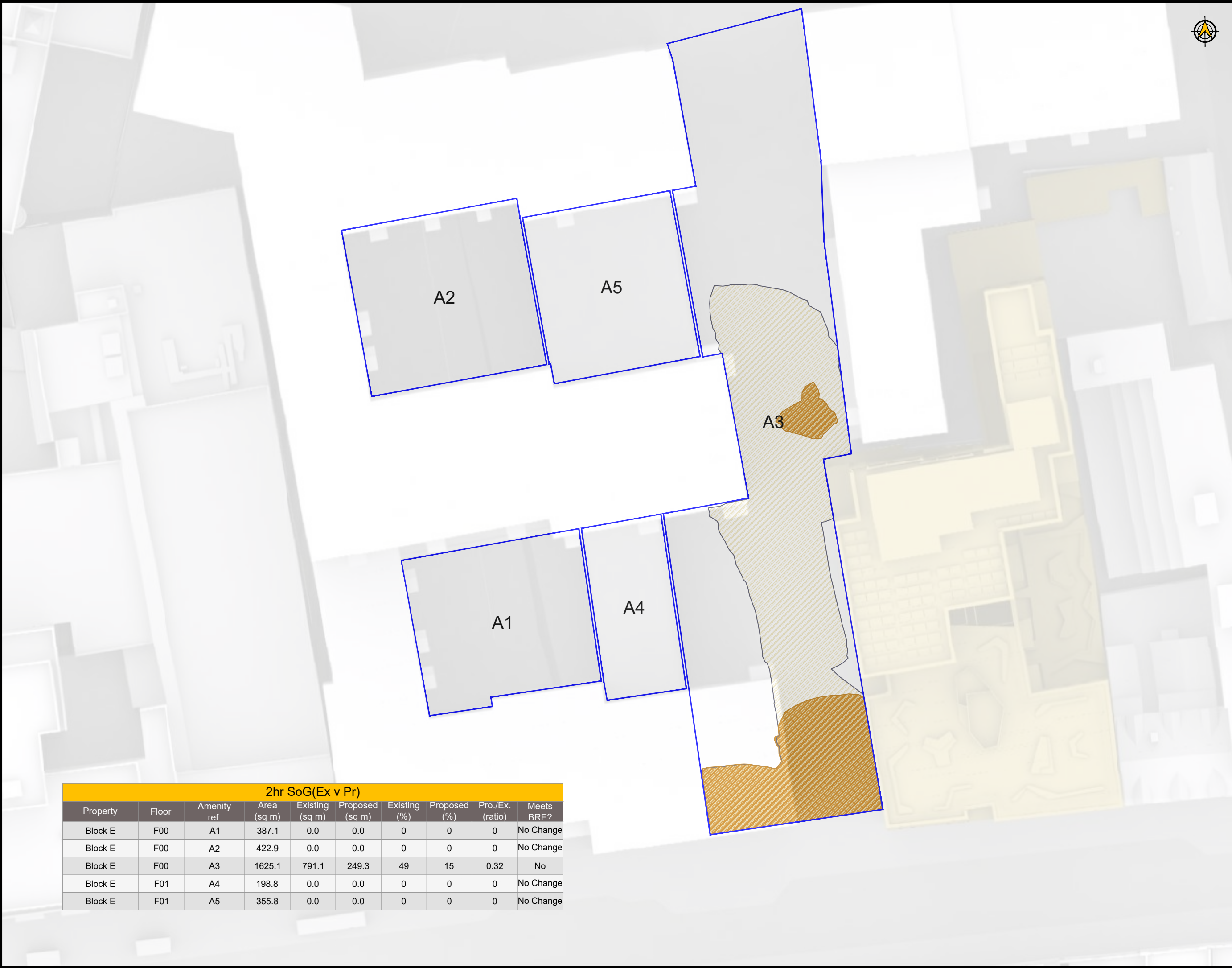
Grey APSH = not a main living room

Property & room attributes					Daylight/Sunlight (BRE 2011)						
Floor	Flat/Unit no.	Room ref.	Property type	Room use	ADF		NSL (% room)	Room depth criterion		APSH room	
					Target (%)	ADF (%)		Limit (current) (m)	Criterion met?	Annual (%)	Winter (%)
	Plan(s)	R19	Residential	Bedroom	1.0	3.00	85%	11.27	Yes	0	0
	Plan(s)	R20	Residential	Bedroom	1.0	1.74	54%	10.14	Yes	0	0
	Plan(s)	R21	Residential	LKD	1.5	1.65	73%	Exempt: Dual Aspect	Yes	5	0
	Plan(s)	R22	Residential	LD	1.5	1.25	55%	10.46	Yes	3	0
	Plan(s)	R23	Residential	Bedroom	1.0	2.03	69%	9.70	Yes	6	0
	Plan(s)	R24	Residential	Bedroom	1.0	1.95	70%	9.50	Yes	9	0
	Plan(s)	R25	Residential	LD	1.5	1.11	50%	10.28	Yes	3	0
	Plan(s)	R26	Residential	Bedroom	1.0	1.07	49%	9.60	Yes	5	0
	Plan(s)	R27	Residential	Bedroom	1.0	1.33	86%	10.07	Yes	18	4
	Plan(s)	R28	Residential	LD	1.5	3.38	97%	Exempt: Dual Aspect	Yes	37	7
	Plan(s)	R29	Residential	LD	1.5	1.66	82%	Exempt: Dual Aspect	Yes	12	7
	Plan(s)	R30	Residential	Bedroom	1.0	1.99	76%	Exempt: Dual Aspect	Yes	0	0
	Plan(s)	R31	Residential	LKD	1.5	1.11	70%	Exempt: Dual Aspect	Yes	1	0
	Plan(s)	R32	Residential	Bedroom	1.0	0.06	1%	11.65	Yes	0	0
F03	Plan(s)	R1	Residential	Studio	1.5	1.65	86%	Exempt: Dual Aspect	Yes	13	1
	Plan(s)	R2	Residential	Bedroom	1.0	0.70	93%	9.83	Yes	2	1
	Plan(s)	R3	Residential	LD	1.5	2.42	100%	Exempt: Dual Aspect	Yes	22	0
	Plan(s)	R4	Residential	Bedroom	1.0	1.88	98%	9.41	Yes	16	0
	Plan(s)	R5	Residential	Bedroom	1.0	0.77	89%	Exempt: Dual Aspect	Yes	1	0
	Plan(s)	R6	Residential	LD	1.5	2.40	92%	Exempt: Dual Aspect	Yes	16	0
	Plan(s)	R7	Residential	Bedroom	1.0	1.73	74%	9.41	Yes	8	0
	Plan(s)	R8	Residential	Bedroom	1.0	0.79	58%	Exempt: Dual Aspect	Yes	3	1
	Plan(s)	R9	Residential	LD	1.5	2.14	48%	Exempt: Dual Aspect	Yes	12	4
	Plan(s)	R10	Residential	Bedroom	1.0	1.61	33%	9.40	Yes	6	2
	Plan(s)	R11	Residential	Bedroom	1.0	0.76	39%	9.91	Yes	2	2
	Plan(s)	R12	Residential	LKD	1.5	6.65	99%	Exempt: Dual Aspect	Yes	77	30
	Plan(s)	R13	Residential	Bedroom	1.0	3.82	97%	11.20	Yes	57	25
	Plan(s)	R14	Residential	Bedroom	1.0	1.89	97%	10.76	Yes	21	21
	Plan(s)	R15	Residential	LD	1.5	3.24	98%	Exempt: Dual Aspect	Yes	63	29
	Plan(s)	R16	Residential	Bedroom	1.0	1.12	89%	10.10	Yes	9	9
	Plan(s)	R17	Residential	LD	1.5	2.12	98%	10.66	Yes	56	24
	Plan(s)	R18	Residential	LD	1.5	1.71	99%	10.14	Yes	11	11
	Plan(s)	R19	Residential	Bedroom	1.0	3.25	88%	11.27	Yes	0	0
	Plan(s)	R20	Residential	Bedroom	1.0	1.85	56%	10.14	Yes	0	0
	Plan(s)	R21	Residential	LKD	1.5	1.80	83%	Exempt: Dual Aspect	Yes	7	0
	Plan(s)	R22	Residential	LD	1.5	1.46	67%	10.46	Yes	6	1
	Plan(s)	R23	Residential	Bedroom	1.0	2.15	78%	9.70	Yes	9	1
	Plan(s)	R24	Residential	Bedroom	1.0	2.08	77%	9.50	Yes	10	1
	Plan(s)	R25	Residential	LD	1.5	1.31	63%	10.28	Yes	5	1
	Plan(s)	R26	Residential	Bedroom	1.0	1.14	55%	9.60	Yes	7	1
	Plan(s)	R27	Residential	Bedroom	1.0	1.46	85%	10.07	Yes	21	7
	Plan(s)	R28	Residential	LD	1.5	3.73	97%	Exempt: Dual Aspect	Yes	42	8
	Plan(s)	R29	Residential	LD	1.5	2.06	91%	Exempt: Dual Aspect	Yes	20	9
	Plan(s)	R30	Residential	Bedroom	1.0	2.09	79%	Exempt: Dual Aspect	Yes	1	0
	Plan(s)	R31	Residential	LKD	1.5	1.25	72%	Exempt: Dual Aspect	Yes	3	0

Orange or Red = Below guidelines (Orange = within 20% of guideline)

Grey APSH = not a main living room

Property & room attributes					Daylight/Sunlight (BRE 2011)						
Floor	Flat/Unit no.	Room ref.	Property type	Room use	ADF		NSL (% room)	Room depth criterion		APSH room	
					Target (%)	ADF (%)		Limit (current) (m)	Criterion met?	Annual (%)	Winter (%)
F04	Plan(s)	R32	Residential	Bedroom	1.0	0.13	2%	11.65	Yes	0	0
	Plan(s)	R1	Residential	Studio	1.5	1.76	92%	Exempt: Dual Aspect	Yes	13	1
	Plan(s)	R2	Residential	Bedroom	1.0	0.88	95%	9.83	Yes	2	1
	Plan(s)	R3	Residential	LD	1.5	2.65	100%	Exempt: Dual Aspect	Yes	26	4
	Plan(s)	R4	Residential	Bedroom	1.0	2.06	98%	9.41	Yes	17	0
	Plan(s)	R5	Residential	Bedroom	1.0	0.85	96%	Exempt: Dual Aspect	Yes	2	0
	Plan(s)	R6	Residential	LD	1.5	2.69	98%	Exempt: Dual Aspect	Yes	23	2
	Plan(s)	R7	Residential	Bedroom	1.0	1.97	81%	9.41	Yes	14	0
	Plan(s)	R8	Residential	Bedroom	1.0	0.85	69%	Exempt: Dual Aspect	Yes	4	1
	Plan(s)	R9	Residential	LD	1.5	2.52	57%	Exempt: Dual Aspect	Yes	17	4
	Plan(s)	R10	Residential	Bedroom	1.0	1.87	42%	9.40	Yes	10	2
	Plan(s)	R11	Residential	Bedroom	1.0	0.78	39%	9.91	Yes	2	2
	Plan(s)	R12	Residential	LKD	1.5	7.14	99%	Exempt: Dual Aspect	Yes	68	27
	Plan(s)	R13	Residential	Bedroom	1.0	4.01	97%	11.20	Yes	57	25
	Plan(s)	R14	Residential	Bedroom	1.0	2.01	97%	10.76	Yes	19	19
	Plan(s)	R15	Residential	LD	1.5	3.38	99%	Exempt: Dual Aspect	Yes	60	27
	Plan(s)	R16	Residential	Bedroom	1.0	1.22	89%	10.10	Yes	9	9
	Plan(s)	R17	Residential	LD	1.5	2.20	98%	10.66	Yes	57	25
	Plan(s)	R18	Residential	LD	1.5	1.79	99%	10.14	Yes	11	11
	Plan(s)	R19	Residential	Bedroom	1.0	3.48	91%	11.27	Yes	0	0
	Plan(s)	R20	Residential	Bedroom	1.0	1.98	60%	10.14	Yes	0	0
	Plan(s)	R21	Residential	LKD	1.5	1.93	86%	Exempt: Dual Aspect	Yes	6	0
	Plan(s)	R22	Residential	LD	1.5	1.62	77%	10.46	Yes	8	2
	Plan(s)	R23	Residential	Bedroom	1.0	2.25	86%	9.70	Yes	10	2
	Plan(s)	R24	Residential	Bedroom	1.0	2.18	85%	9.50	Yes	13	2
	Plan(s)	R25	Residential	LD	1.5	1.45	71%	10.28	Yes	7	3
	Plan(s)	R26	Residential	Bedroom	1.0	1.19	61%	9.60	Yes	8	2
	Plan(s)	R27	Residential	Bedroom	1.0	1.60	92%	10.07	Yes	23	8
	Plan(s)	R28	Residential	LD	1.5	3.91	97%	Exempt: Dual Aspect	Yes	48	12
	Plan(s)	R29	Residential	LD	1.5	2.18	98%	Exempt: Dual Aspect	Yes	18	6
	Plan(s)	R30	Residential	Bedroom	1.0	2.43	81%	Exempt: Dual Aspect	Yes	3	0
	Plan(s)	R31	Residential	LKD	1.5	1.51	78%	Exempt: Dual Aspect	Yes	4	0
	Plan(s)	R32	Residential	Bedroom	1.0	0.21	4%	11.65	Yes	0	0



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing 2-Hr Sunlit Area

Proposed 2-Hr Sunlit Area

A02Amenity Area Number

SOURCE DATA:

Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street, Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning application drawing information

Proposed:

Stefan Shaw Studio (Architects):
(info received 13.04.2023)
3D Model File Name:
- 230413_35-39 Friar Street_3D Model.dwg
Dwg No's:
- 0083-A-03-L01-101 - 104
Set using reference points from pdf:
- 230414_35-39 Friar Street_Co-ordinates.pdf

NOTES:

For it to appear adequately sunlit throughout the year at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable

REV	Description	Drawn	Date

DELVA PATMAN REDLER
Chartered Surveyors

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:

35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:

TWO-HOURS SUN-ON-GROUND STUDY
Plan View

DRAWN: VK	JOB NBR:	21384
SCALE: 1:400@A3		
DATE: 20/04/2022		
DWG NO:		REV:
SHD_002		-

2hr SoG(Ex v Pr)									
Property	Floor	Amenity ref.	Area (sq m)	Existing (sq m)	Proposed (sq m)	Existing (%)	Proposed (%)	Pro./Ex. (ratio)	Meets BRE?
Block E	F00	A1	387.1	0.0	0.0	0	0	0	No Change
Block E	F00	A2	422.9	0.0	0.0	0	0	0	No Change
Block E	F00	A3	1625.1	791.1	249.3	49	15	0.32	No
Block E	F01	A4	198.8	0.0	0.0	0	0	0	No Change
Block E	F01	A5	355.8	0.0	0.0	0	0	0	No Change



NO DIMENSIONS TO BE SCALED FROM THIS DRAWING

KEY:

Existing 2-Hr Sunlit Area

Proposed 2-Hr Sunlit Area

A02Amenity Area Number

SOURCE DATA:

Existing & Neighbouring Surrounding:

3D Services Ltd:
3D Model File Name: - 17-067 30-39 Friar Street, Reading 3D Site.dwg

Surrounding Context:

Zmapping 3D Model

Station Hill Dev, Block E and F: - Planning application drawing information

Proposed:

Stefan Shaw Studio (Architects):
(info received 13.04.2023)
3D Model File Name:
- 230413_35-39 Friar Street_3D Model.dwg
Dwg No's:
- 0083-A-03-L01-101 - 104
Set using reference points from pdf:
- 230414_35-39 Friar Street_Co-ordinates.pdf

NOTES:

For it to appear adequately sunlit throughout the year at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable

REV	Description	Drawn	Date

DELVA PATMAN REDLER
Chartered Surveyors

London 020 7936 3668
Liverpool 0151 242 0980
Bristol 0117 450 9703

www.delvapatmanredler.co.uk
info@delvapatmanredler.co.uk

TITLE:

35-39 FRIAR STREET,
READING, RG1 DX.

DRAWING:

TWO-HOURS SUN-ON-GROUND STUDY
Plan View

Proposed Communal Amenity Areas

DRAWN: VK	JOB NBR:	REV:
SCALE: 1:250@A3	21384	-
DATE: 27/04/2022		
DWG NO:	SHD_003	