



Kenavon Drive, Reading

Middle Block M3 SAP Report – As Built

On behalf of **Berkeley Homes**

Berkeley
Designed for life

Project Ref: 37454 | Rev: C01 | Date: December 2022

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Report Title: Middle Block M3 As-Built SAP Report

Date: 02.12.2022

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Approved by:				
For and on behalf of Stantec UK Limited				

Revision	Date	Description	Prepared	Reviewed	Approved
C01	02.12.2022	SAP Report – As Built	DS	JW	

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1 As Built – SAP calculations

1.1 Introduction

- 1.1.1 This report summaries the results of the As Built SAP calculations to demonstrate compliance with Part L1A Building Regulations 2013 (with 2016 amendments) and the planning requirements for Kenavon Drive, Reading.
- 1.1.2 The SAPs have been updated to the Architectural record drawings that was provided by PRP and we understand this incorporate all the BHOC changes to date.
- 1.1.3 This report should only be used for the purpose of discharging the planning conditions.
- 1.1.4 The SAPs were completed by a qualified SAP assessor and appended to this report are the As Built SAP block compliance report.

1.2 Middle Block M3 Compliance Results

- 1.2.1 Table 1 below shows the floor area weighted average Target Emissions Rate (TER), Dwellings Emissions Rate (DER), Target Fabric Energy Efficiency Rate (TFEE) and Dwellings Fabric Energy Efficiency (DFEE) for Kenavon Drive.

Table 1: Area weighted TER/ DER and TFEE/ DFEE results

Stage	Weighted Average Results
Total Floor Area (sqm)	3601.70
Average TER/sqm	17.75
Average DER/sqm	11.43
Average TFEE/sqm	38.10
Average DFEE/sqm	45.93
Compliance	Pass
% Improvement DER / TER	35.61
% Improvement DFEE / TFEE	17.05

Appendix A SAP Block Compliance Report

Block Compliance WorkSheet: M3

User Details

Assessor Name: Jon West
Software Name: Stroma FSAP

Stroma Number: STRO005224
Software Version: Version: 1.0.5.58

Calculation Details

Dwelling	DER	TER	DFEE	TFEE	TFA
362	13.4	21.19	52.9	65.3	71.2
363	13.98	22.53	50.2	62.9	50.3
364	15.38	23.97	62	74.1	56.1
365	12.82	20.38	43	52.6	51.3
366	10.47	16.2	34.8	41.7	78.7
367	10.98	17.23	39.5	49.9	82.4
368	12.94	20.71	42.5	52.6	49
369	13.34	21.4	44.9	55.9	49
370	11.47	18.16	41.1	51.7	73.5
371	11.24	17.85	40.7	51.8	80.6
372	14.44	22.95	52.8	63	45.8
373	12.72	19.79	45.9	55.3	61.9
374	12.47	19.62	40.1	48.7	51.3
375	9.92	15.5	30.8	38.1	78.7
376	9.64	14.41	29.9	35.4	82.4
377	10.95	16.06	33.7	36.9	67.1
378	11.13	17.06	29.8	33	49
379	10	15.13	30.6	36	73.5
380	9.78	14.86	30.7	36.7	80.6
381	12.84	19.77	41.4	46.7	45.8
382	11.91	18.47	40.2	48.5	61.9
383	12.47	19.62	40.6	48.7	51.3
384	10.52	16.34	35.6	43.7	78.7
385	9.64	14.41	30.4	35.4	82.4
386	9.82	14.73	26.4	29.9	67.1
387	10.84	16.62	27.7	30.7	49

Block Compliance WorkSheet: M3Cont...

Dwelling	DER	TER	DFEE	TFEE	TFA
388	10	15.13	30.9	36	73.5
389	9.78	14.86	30.8	36.7	80.6
390	12.84	19.77	42.3	46.7	45.8
391	11.91	18.47	40.4	48.5	61.9
392	12.47	19.62	40.2	48.7	51.3
393	10.55	16.19	36	42.9	78.7
394	9.64	14.41	30.1	35.4	82.4
395	9.82	14.73	26	29.9	67.1
396	10.84	16.62	27.3	30.7	49
397	10	15.13	30.5	36	73.5
398	9.78	14.86	30.6	36.7	80.6
399	12.84	19.77	41.6	46.7	45.8
400	11.91	18.47	40.3	48.5	61.9
401	12.96	20.7	43.6	54.4	51.3
402	10.9	16.92	38.3	46.7	78.7
403	9.64	14.41	30.3	35.4	82.4
404	9.82	14.73	26	29.9	67.1
405	10.84	16.62	27.7	30.7	49
406	10.05	15.37	31	37.3	73.5
407	11.67	18.82	43.4	56.7	80.6
408	12.97	20.36	42.4	49.7	45.8
409	12.32	19.38	43.1	53.3	61.9
410	15.62	24.04	60.1	68.4	45.5
411	12.72	20.41	49.8	62.7	72
412	11.58	18	43.8	53.9	82.4
413	11.22	17.51	35.9	44.5	67.1
414	12.21	19.48	36.7	45.8	49
415	11.71	18.52	42.7	53.6	73.5
416	15.01	24.34	56.5	70.4	45.8
417	14.85	24.06	59.1	74.4	55.4

Block Compliance WorkSheet: M3Cont...

Calculation Summary

Total Floor Area	3601.70
Average TER	17.75
Average DER	11.43
Average DFEE	38.10
Average TFEE	45.93
Compliance	Pass
% Improvement DER TER	35.61
% Improvement DFEE TFEE	17.05

Appendix B SAP Key Results

Appended are the key results showing the improvements for each dwelling.

Dwelling	Reference	Status	Certificate Date	Property Type	Address	City	Postcode	UPRN	Country	DER	TER	DFEE	Total Floor Area	FEE
362	M3-00-01	New dwelling as built	03/11/2022	Flat	10 Kenavon Drive	READING	RG1 3DH	UPRN-508128	England	13.40	21.19	52.9	71.2	52.91
363	M3-00-02	New dwelling as built	03/11/2022	Flat	12 Kenavon Drive	READING	RG1 3DH	UPRN-543155	England	13.98	22.53	50.2	50.3	50.22
364	M3-00-03	New dwelling as built	03/11/2022	Flat	16 Kenavon Drive	READING	RG1 3DH	UPRN-000310	England	15.38	23.97	62	56.1	62.04
365	M3-01-01	New dwelling as built	03/11/2022	Flat	Flat 9 14 Kenavon Drive	READING	RG1 3NG	UPRN-504181	England	12.82	20.38	43	51.3	42.99
366	M3-01-02	New dwelling as built	03/11/2022	Flat	Flat 8 14 Kenavon Drive	READING	RG1 3NG	UPRN-517102	England	10.47	16.20	34.8	78.7	34.78
367	M3-01-03	New dwelling as built	03/11/2022	Flat	Flat 7 14 Kenavon Drive	READING	RG1 3NG	UPRN-544125	England	10.98	17.23	39.5	82.4	39.54
368	M3-01-04	New dwelling as built	03/11/2022	Flat	Flat 6 14 Kenavon Drive	READING	RG1 3NG	UPRN-526137	England	12.94	20.71	42.5	49	42.46
369	M3-01-05	New dwelling as built	03/11/2022	Flat	Flat 5 14 Kenavon Drive	READING	RG1 3NG	UPRN-586185	England	13.34	21.40	44.9	49	44.91
370	M3-01-06	New dwelling as built	03/11/2022	Flat	Flat 4 14 Kenavon Drive	READING	RG1 3NG	UPRN-565141	England	11.47	18.16	41.1	73.5	41.12
371	M3-01-07	New dwelling as built	03/11/2022	Flat	Flat 3 14 Kenavon Drive	READING	RG1 3NG	UPRN-584142	England	11.24	17.85	40.7	80.6	40.68
372	M3-01-08	New dwelling as built	03/11/2022	Flat	Flat 2 14 Kenavon Drive	READING	RG1 3NG	UPRN-534107	England	14.44	22.95	52.8	45.8	52.83
373	M3-01-09	New dwelling as built	03/11/2022	Flat	Flat 1 14 Kenavon Drive	READING	RG1 3NG	UPRN-543158	England	12.72	19.79	45.9	61.9	45.93
374	M3-02-01	New dwelling as built	03/11/2022	Flat	Flat 19 14 Kenavon Drive	READING	RG1 3NG	UPRN-528163	England	12.47	19.62	40.1	51.3	40.11
375	M3-02-02	New dwelling as built	03/11/2022	Flat	Flat 18 14 Kenavon Drive	READING	RG1 3NG	UPRN-587186	England	9.92	15.50	30.8	78.7	30.78
376	M3-02-03	New dwelling as built	03/11/2022	Flat	Flat 17 14 Kenavon Drive	READING	RG1 3NG	UPRN-555177	England	9.64	14.41	29.9	82.4	29.89
377	M3-02-04	New dwelling as built	03/11/2022	Flat	Flat 16 14 Kenavon Drive	READING	RG1 3NG	UPRN-566176	England	10.95	16.06	33.7	67.1	33.67
378	M3-02-05	New dwelling as built	01/12/2022	Flat	Flat 15 14 Kenavon Drive	READING	RG1 3NG	UPRN-572115	England	11.13	17.06	29.8	49	29.82
379	M3-02-06	New dwelling as built	03/11/2022	Flat	Flat 14 14 Kenavon Drive	READING	RG1 3NG	UPRN-508138	England	10.00	15.13	30.6	73.5	30.55
380	M3-02-07	New dwelling as built	03/11/2022	Flat	Flat 12 14 Kenavon Drive	READING	RG1 3NG	UPRN-571141	England	9.78	14.86	30.7	80.6	30.67
381	M3-02-08	New dwelling as built	03/11/2022	Flat	Flat 11 14 Kenavon Drive	READING	RG1 3NG	UPRN-501111	England	12.84	19.77	41.4	45.8	41.44
382	M3-02-09	New dwelling as built	03/11/2022	Flat	Flat 10 14 Kenavon Drive	READING	RG1 3NG	UPRN-548182	England	11.91	18.47	40.2	61.9	40.19
383	M3-03-01	New dwelling as built	01/12/2022	Flat	Flat 28 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.47	19.62	40.6	51.3	40.58
384	M3-03-02	New dwelling as built	01/12/2022	Flat	Flat 27 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.52	16.34	35.6	78.7	35.61
385	M3-03-03	New dwelling as built	01/12/2022	Flat	Flat 26 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.64	14.41	30.4	82.4	30.35
386	M3-03-04	New dwelling as built	01/12/2022	Flat	Flat 25 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.82	14.73	26.4	67.1	26.37
387	M3-03-05	New dwelling as built	01/12/2022	Flat	Flat 24 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.84	16.62	27.7	49	27.7
388	M3-03-06	New dwelling as built	01/12/2022	Flat	Flat 23 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.00	15.13	30.9	73.5	30.94
389	M3-03-07	New dwelling as built	01/12/2022	Flat	Flat 22 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.78	14.86	30.8	80.6	30.75
390	M3-03-08	New dwelling as built	01/12/2022	Flat	Flat 21 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.84	19.77	42.3	45.8	42.27
391	M3-03-09	New dwelling as built	01/12/2022	Flat	Flat 20 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.91	18.47	40.4	61.9	40.43
392	M3-04-01	New dwelling as built	01/12/2022	Flat	Flat 37 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.47	19.62	40.2	51.3	40.16
393	M3-04-02	New dwelling as built	01/12/2022	Flat	Flat 36 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.55	16.19	36	78.7	36.02
394	M3-04-03	New dwelling as built	01/12/2022	Flat	Flat 35 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.64	14.41	30.1	82.4	30.11
395	M3-04-04	New dwelling as built	01/12/2022	Flat	Flat 34 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.82	14.73	26	67.1	25.98
396	M3-04-05	New dwelling as built	01/12/2022	Flat	Flat 33 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.84	16.62	27.3	49	27.33
397	M3-04-06	New dwelling as built	01/12/2022	Flat	Flat 32 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.00	15.13	30.5	73.5	30.5
398	M3-04-07	New dwelling as built	01/12/2022	Flat	Flat 31 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.78	14.86	30.6	80.6	30.64
399	M3-04-08	New dwelling as built	01/12/2022	Flat	Flat 30 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.84	19.77	41.6	45.8	41.62
400	M3-04-09	New dwelling as built	01/12/2022	Flat	Flat 29 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.91	18.47	40.3	61.9	40.28
401	M3-05-01	New dwelling as built	01/12/2022	Flat	Flat 46 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.96	20.70	43.6	51.3	43.65
402	M3-05-02	New dwelling as built	01/12/2022	Flat	Flat 45 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.90	16.92	38.3	78.7	38.34
403	M3-05-03	New dwelling as built	01/12/2022	Flat	Flat 44 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.64	14.41	30.3	82.4	30.29
404	M3-05-04	New dwelling as built	01/12/2022	Flat	Flat 43 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	9.82	14.73	26	67.1	25.95
405	M3-05-05	New dwelling as built	01/12/2022	Flat	Flat 42 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.84	16.62	27.7	49	27.66
406	M3-05-06	New dwelling as built	01/12/2022	Flat	Flat 41 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	10.05	15.37	31	73.5	31.03
407	M3-05-07	New dwelling as built	01/12/2022	Flat	Flat 40 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.67	18.82	43.4	80.6	43.39
408	M3-05-08	New dwelling as built	01/12/2022	Flat	Flat 39 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.97	20.36	42.4	45.8	42.38

409	M3-05-09	New dwelling as built	01/12/2022	Flat	Flat 38 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.32	19.38	43.1	61.9	43.13
410	M3-06-01	New dwelling as built	01/12/2022	Flat	Flat 54 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	15.62	24.04	60.1	45.5	60.13
411	M3-06-02	New dwelling as built	01/12/2022	Flat	Flat 53 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.72	20.41	49.8	72	49.79
412	M3-06-03	New dwelling as built	01/12/2022	Flat	Flat 52 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.58	18.00	43.8	82.4	43.77
413	M3-06-04	New dwelling as built	01/12/2022	Flat	Flat 51 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.22	17.51	35.9	67.1	35.91
414	M3-06-05	New dwelling as built	01/12/2022	Flat	Flat 50 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	12.21	19.48	36.7	49	36.71
415	M3-06-06	New dwelling as built	01/12/2022	Flat	Flat 49 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	11.71	18.52	42.7	73.5	42.66
416	M3-06-07	New dwelling as built	01/12/2022	Flat	Flat 48 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	15.01	24.34	56.5	45.8	56.5
417	M3-06-08	New dwelling as built	01/12/2022	Flat	Flat 47 14 Kenavon Drive	READING	RG1 3NG	UPRN-000310	England	14.85	24.06	59.1	55.4	59.13

Appendix C Assessors accreditation details

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Jon West

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Accreditation scheme

Stroma Certification Ltd
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Assessor ID

STRO005224