

New Cross, Bendix St

Energy Compliance Statement

D480-AME-XX-RP-N-5002

PROJECT	New Cross, Bendix St
DATE	12 th November 2024
REVISION	C01 – Construction Record
AUTHOR	D. Connor



CARBONCONSULTANTS



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1.0 Introduction

This report relates to the Bendix St, Residential development at New Cross, Manchester.

The report addresses the planning requirements of Manchester City Council in relation to energy consumption as set out in Manchester's Local Development Framework, Core Strategy Development Plan, adopted 11th July 2012.

2.0 Planning Requirements

2.1 Core Strategy Policy EN6

Core Strategy Policy EN6, provides target frameworks for CO₂ reductions from low or zero carbon energy supplies. This policy required applications for residential developments of 10 or more units and all developments over 1000m² will be expected as a minimum to meet the targets shown in the table below;

Domestic CO ₂ emissions reduction targets	
Table 12.1	
Target	% Minimum requirement
Target 1: Network development area	CHP/district heating anchor or connection or where not feasible a 15% increase on Part L 2010
Target 2: Electricity intense buildings	+15% increase on Part L 2010
Target 3: Micro generation area	+15% increase on Part L 2010

Figure 1 – CO₂ Emissions Reduction Target: Core Strategy Policy EN6

The Bendix St development has been commissioned and designed to comply with Building Regulations Part L1A, 2013, which took effect from 6th April 2014.

It is industry accepted that demonstrating a 9% improvement over minimum Part L1A, 2013 energy targets is equivalent to achieving a 15% improvement over the Part L1A, 2010 minimum targets.

Thus, in order to comply with the planning condition 12, a minimum CO₂ emissions reduction over the Part L1A 2013 targets of 9% should be achieved.

3.0 MEP Design Development

3.1 Original Design

The original design intent for the Bendix St development, as per the Employers Requirements, was hot water generation by gas fired CHP and boilers with heating provided by electric panel heaters. In addition to this, the development requires over 20,000kWh/annum of electricity generation via roof mounted photovoltaic panels in order to satisfy the 9% improvement over SAP 2012 requirements.

This proposal was based on all main hot water generation plant to be situated in the ground floor plant room, with pipework distribution via a central riser and distribution within the corridor ceiling voids to DHW only Heat Interface Units (HIUs) located within the apartment utility cupboards.

The original design intent was assessed against Part L1A, 2013 and demonstrated a 9% improvement as required under planning condition 12, see below summary table.

Average TER	14.56
Average DER	13.25
% improvement over Part L	9
Average TFE	32.54
Average DFE	30.13
% improvement over Part L	7.41

Table 1 – ER scheme Part L summary

3.2 Heating/Hot Water Generation Feasibility Study

During the early stage 4 design, the client requested a feasibility study was conducted on alternative heating and hot water generation to determine if a more energy-efficient system could be proposed (Please refer to the Ameen 'Heating & Hot Water Generation Feasibility Study' for more information).

The conclusion of the feasibility study was to propose a central ASHP system with heating and hot water heat interface units. This included the introduction of 8No. 43kW roof mounted Air Source Heat Pumps, along with thermal storage of 6000L located within the ground floor plantroom along with any associated ancillary equipment (such as pumps, pressurisation units etc). This option was subsequently instructed and the design was amended to incorporate ahead of the commencement of the MEP installation.

The table below demonstrates that the alternative proposal offered a significant betterment over the original design intent.

Average TER	20.94
Average DER	15.65
% improvement over Part L	25.26
Average TFE	32.54
Average DFE	30.13
% improvement over Part L	7.41

Table 2 – ER scheme Part L summary

4.0 As Built Evidence

4.1 Part L1A, 2013 Block Compliance Sheet

Compliance with Building Regulations Part L is achieved using the block compliance method, whereby the CO2 emissions for each apartment are listed out and the building is assessed on the overall carbon emissions rather than an individual apartment basis.

As part of the as built process, the final air test certificates are inputted into the thermal modelling software as well as any documented changes to fabric or MEP services since the design stage and an 'As Built' report is produced. The as built block compliance for Bendix St demonstrated a **45.49%** improvement over the target emission rate, as well as a **9.75%** improvement over the Target Fabric Energy Efficiency rating, far exceeded that requirements of planning condition 12.

Please refer to appendix A for the Block Compliance Report.

7.0 Appendices

Appendix A - Bendix St Block Compliance (As Built)

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



Block Reference	R8	Issued on Date	12/07/2024
Block Name	Bendix St		
Assessor Details	Mr. Ryan Stocks, Zero3 Consulting Ltd, Tel: 07703572911, ryan@zero3.co.uk		Assessor ID W652-0001
Client			

Block Compliance Report - DER

Block Reference: R8		Block Name: Bendix St			
Property-Assessment Reference	Multiplier	Floor Area (m ²)	DER (kgCO ₂ /m ²)	TER (kgCO ₂ /m ²)	% DER/TER
001 (BS)-001	1	48	15.74	29.10	45.92 %
002 (BS)-001	1	71	14.27	26.48	46.10 %
003 (BS)-001	1	66	12.53	23.88	47.53 %
004 (BS)-001	1	44	13.58	26.91	49.54 %
005 (BS)-001	1	88	12.31	22.60	45.53 %
1001 (BS)-001	1	76.5	9.67	17.38	44.37 %
1002 (BS)-001	1	76.5	9.65	17.38	44.49 %
1003 (BS)-001	1	78	11.50	20.24	43.17 %
1004 (BS)-001	1	45	12.05	23.46	48.63 %
1005 (BS)-001	1	78	13.00	23.79	45.36 %
1006 (BS)-001	1	70	11.15	20.78	46.34 %
1007 (BS)-001	1	50	11.93	23.46	49.15 %
1008 (BS)-001	1	70	10.98	20.78	47.16 %
1009 (BS)-001	1	67	11.50	21.22	45.81 %
101 (BS)-001	1	50	11.64	22.13	47.41 %
1010 (BS)-001	1	50	12.31	24.06	48.84 %
1011 (BS)-001	1	88	13.57	24.71	45.09 %
1012 (BS)-001	1	70	12.45	22.43	44.49 %
1013 (BS)-001	1	69	9.96	18.12	45.04 %
102 (BS)-001	1	50	13.22	24.08	45.10 %
103 (BS)-001	1	50	12.71	24.08	47.21 %
104 (BS)-001	1	78	13.83	24.78	44.19 %
105 (BS)-001	1	45	12.51	23.46	46.66 %
106 (BS)-001	1	71	12.52	22.94	45.42 %
107 (BS)-001	1	66	11.01	20.42	46.09 %
108 (BS)-001	1	44	12.16	23.27	47.75 %
109 (BS)-001	1	66	11.42	20.42	44.09 %
110 (BS)-001	1	63.5	10.95	20.77	47.28 %
1101 (BS)-001	1	76.5	9.52	17.38	45.23 %
1102 (BS)-001	1	76.5	9.46	17.38	45.58 %
1103 (BS)-001	1	78	11.25	20.24	44.41 %
1104 (BS)-001	1	45	12.04	23.46	48.67 %
1105 (BS)-001	1	71	12.80	23.49	45.51 %
1106 (BS)-001	1	66	11.15	20.88	46.59 %
1107 (BS)-001	1	44	12.21	23.71	48.50 %
1108 (BS)-001	1	66	10.91	20.88	47.74 %
1109 (BS)-001	1	63.5	11.26	21.24	46.99 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



111 (BS)-001	1	49	11.60	22.35	48.09 %
1110 (BS)-001	1	69	10.00	18.12	44.82 %
112 (BS)-001	1	48	11.53	21.72	46.91 %
113 (BS)-001	1	69	11.41	20.57	44.53 %
1201 (BS)-001	1	76.5	11.65	21.76	46.47 %
1202 (BS)-001	1	76.5	11.77	21.76	45.92 %
1203 (BS)-001	1	78	13.96	25.62	45.52 %
1204 (BS)-001	1	45	15.38	28.66	46.34 %
1205 (BS)-001	1	71	15.17	28.57	46.90 %
1206 (BS)-001	1	66	13.47	25.26	46.67 %
1207 (BS)-001	1	44	14.86	28.38	47.64 %
1208 (BS)-001	1	66	13.44	25.26	46.79 %
1209 (BS)-001	1	44	14.81	28.38	47.81 %
1210 (BS)-001	1	58	15.61	28.68	45.58 %
1211 (BS)-001	1	55	14.86	27.25	45.46 %
1212 (BS)-001	1	44	16.46	31.42	47.61 %
201 (BS)-001	1	50	10.58	20.02	47.16 %
202 (BS)-001	1	50	10.62	20.02	46.97 %
203 (BS)-001	1	50	10.64	20.02	46.87 %
204 (BS)-001	1	78	11.54	20.24	42.97 %
205 (BS)-001	1	45	12.02	23.46	48.75 %
206 (BS)-001	1	78	12.99	23.15	43.90 %
207 (BS)-001	1	70	10.67	20.64	48.31 %
208 (BS)-001	1	50	11.65	22.89	49.10 %
209 (BS)-001	1	70	11.03	20.64	46.56 %
210 (BS)-001	1	67	11.09	21.05	47.33 %
211 (BS)-001	1	50	11.67	22.89	49.02 %
212 (BS)-001	1	88	12.81	23.13	44.62 %
213 (BS)-001	1	70	11.55	21.03	45.08 %
214 (BS)-001	1	69	9.87	18.12	45.54 %
301 (BS)-001	1	50	10.58	20.02	47.16 %
302 (BS)-001	1	50	10.95	20.02	45.32 %
303 (BS)-001	1	50	10.97	20.02	45.22 %
304 (BS)-001	1	78	11.89	20.24	41.24 %
305 (BS)-001	1	45	12.30	23.46	47.56 %
306 (BS)-001	1	78	12.85	22.45	42.77 %
307 (BS)-001	1	70	10.81	19.90	45.68 %
308 (BS)-001	1	50	11.51	21.97	47.60 %
309 (BS)-001	1	70	10.77	19.90	45.88 %
310 (BS)-001	1	67	10.67	20.29	47.40 %
311 (BS)-001	1	50	11.51	21.97	47.60 %
312 (BS)-001	1	88	11.15	19.61	43.15 %
313 (BS)-001	1	70	11.44	19.33	40.81 %
314 (BS)-001	1	69	10.03	18.12	44.65 %
401 (BS)-001	1	50	10.89	20.02	45.62 %
402 (BS)-001	1	50	10.92	20.02	45.47 %
403 (BS)-001	1	50	10.69	20.02	46.62 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



404 (BS)-001	1	78	11.47	20.24	43.32 %
405 (BS)-001	1	45	12.40	23.46	47.13 %
406 (BS)-001	1	78	12.23	22.45	45.53 %
407 (BS)-001	1	70	10.49	19.90	47.29 %
408 (BS)-001	1	50	11.31	21.97	48.51 %
409 (BS)-001	1	70	10.46	19.90	47.44 %
410 (BS)-001	1	67	10.80	20.29	46.76 %
411 (BS)-001	1	50	11.31	21.97	48.51 %
412 (BS)-001	1	88	10.97	19.61	44.07 %
413 (BS)-001	1	70	10.77	19.33	44.27 %
414 (BS)-001	1	69	10.10	18.12	44.27 %
501 (BS)-001	1	50	10.84	20.02	45.87 %
502 (BS)-001	1	50	11.10	20.02	44.57 %
503 (BS)-001	1	50	10.92	20.02	45.47 %
504 (BS)-001	1	78	11.78	20.24	41.79 %
505 (BS)-001	1	45	12.50	23.46	46.71 %
506 (BS)-001	1	78	12.30	22.45	45.22 %
507 (BS)-001	1	70	10.47	19.90	47.39 %
508 (BS)-001	1	50	11.40	21.97	48.10 %
509 (BS)-001	1	70	10.63	19.90	46.59 %
510 (BS)-001	1	67	11.25	20.29	44.54 %
511 (BS)-001	1	50	11.55	21.97	47.42 %
512 (BS)-001	1	88	11.13	19.61	43.25 %
513 (BS)-001	1	70	11.21	19.33	42.00 %
514 (BS)-001	1	69	10.19	18.12	43.77 %
601 (BS)-001	1	76.5	9.47	17.38	45.52 %
602 (BS)-001	1	76.5	9.66	17.38	44.43 %
603 (BS)-001	1	78	11.56	20.24	42.87 %
604 (BS)-001	1	45	12.57	23.46	46.41 %
605 (BS)-001	1	78	12.56	22.45	44.06 %
606 (BS)-001	1	70	10.79	19.90	45.78 %
607 (BS)-001	1	50	11.70	21.97	46.73 %
608 (BS)-001	1	70	10.39	19.90	47.79 %
609 (BS)-001	1	67	10.73	20.29	47.11 %
610 (BS)-001	1	50	11.72	21.97	46.64 %
611 (BS)-001	1	88	11.12	19.61	43.31 %
612 (BS)-001	1	70	11.19	19.33	42.10 %
613 (BS)-001	1	69	10.24	18.12	43.49 %
701 (BS)-001	1	76.5	9.61	17.38	44.72 %
702 (BS)-001	1	76.5	9.57	17.38	44.95 %
703 (BS)-001	1	78	12.01	20.24	40.65 %
704 (BS)-001	1	45	12.20	23.46	47.99 %
705 (BS)-001	1	78	12.32	22.45	45.13 %
706 (BS)-001	1	70	10.43	19.90	47.59 %
707 (BS)-001	1	50	11.36	21.97	48.28 %
708 (BS)-001	1	70	10.39	19.90	47.79 %
709 (BS)-001	1	67	10.80	20.29	46.76 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



710 (BS)-001	1	50	11.33	21.97	48.42 %
711 (BS)-001	1	88	11.54	19.61	41.16 %
712 (BS)-001	1	70	10.93	19.33	43.45 %
713 (BS)-001	1	69	10.07	18.12	44.43 %
801 (BS)-001	1	76.5	9.75	17.38	43.91 %
802 (BS)-001	1	76.5	14.14	17.38	18.66 %
803 (BS)-001	1	78	11.38	20.24	43.76 %
804 (BS)-001	1	45	12.05	23.46	48.63 %
805 (BS)-001	1	78	12.33	22.45	45.09 %
806 (BS)-001	1	70	10.61	19.90	46.69 %
807 (BS)-001	1	50	11.36	21.97	48.28 %
808 (BS)-001	1	70	10.42	19.90	47.64 %
809 (BS)-001	1	67	10.79	20.29	46.81 %
810 (BS)-001	1	50	11.46	21.97	47.83 %
811 (BS)-001	1	88	11.56	19.61	41.06 %
812 (BS)-001	1	70	11.23	19.33	41.89 %
813 (BS)-001	1	69	10.10	18.12	44.27 %
901 (BS)-001	1	76.5	9.42	17.38	45.81 %
902 (BS)-001	1	76.5	9.46	17.38	45.58 %
903 (BS)-001	1	78	11.37	20.24	43.81 %
904 (BS)-001	1	45	12.06	23.46	48.58 %
905 (BS)-001	1	78	12.34	22.45	45.04 %
906 (BS)-001	1	70	10.59	19.90	46.79 %
907 (BS)-001	1	50	11.48	21.97	47.74 %
908 (BS)-001	1	70	10.35	19.90	47.99 %
909 (BS)-001	1	67	10.67	20.29	47.40 %
910 (BS)-001	1	50	11.67	21.97	46.87 %
911 (BS)-001	1	88	11.59	19.61	40.91 %
912 (BS)-001	1	70	10.95	19.33	43.34 %
913 (BS)-001	1	69	10.14	18.12	44.05 %
Totals:	161	10426	1,860.47	3,432.75	
Average DER = 11.49 kgCO ₂ /m ²		% DER/TER	PASS		
Average TER = 21.08 kgCO ₂ /m ²		45.49 %			

Block Compliance Report - DFEE

Block Reference: R8		Block Name: Bendix St			
Property-Assessment Reference	Multiplier	Floor Area (m ²)	DFEE (kWh/m ² /yr)	TFEE (kWh/m ² /yr)	% DFEE/TFEE
001 (BS)-001	1	48	45.30	52.34	13.46 %
002 (BS)-001	1	71	45.45	53.12	14.42 %
003 (BS)-001	1	66	34.78	42.37	17.91 %
004 (BS)-001	1	44	35.44	42.72	17.05 %
005 (BS)-001	1	88	36.26	43.98	17.55 %
1001 (BS)-001	1	76.5	21.09	22.28	5.35 %
1002 (BS)-001	1	76.5	21.05	22.28	5.53 %
1003 (BS)-001	1	78	33.32	34.93	4.61 %
1004 (BS)-001	1	45	27.87	32.32	13.77 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



1005 (BS)-001	1	78	41.66	46.23	9.90 %
1006 (BS)-001	1	70	28.36	33.20	14.59 %
1007 (BS)-001	1	50	29.21	34.35	14.96 %
1008 (BS)-001	1	70	28.17	33.20	15.16 %
1009 (BS)-001	1	67	29.17	33.94	14.06 %
101 (BS)-001	1	50	26.73	29.85	10.47 %
1010 (BS)-001	1	50	30.95	36.32	14.79 %
1011 (BS)-001	1	88	46.13	52.23	11.67 %
1012 (BS)-001	1	70	36.31	39.94	9.09 %
1013 (BS)-001	1	69	21.79	24.17	9.84 %
102 (BS)-001	1	50	33.05	36.32	9.01 %
103 (BS)-001	1	50	32.30	36.32	11.07 %
104 (BS)-001	1	78	44.99	49.65	9.39 %
105 (BS)-001	1	45	28.63	32.32	11.43 %
106 (BS)-001	1	71	37.16	41.67	10.82 %
107 (BS)-001	1	66	26.74	31.05	13.89 %
108 (BS)-001	1	44	26.82	30.69	12.63 %
109 (BS)-001	1	66	27.31	31.05	12.06 %
110 (BS)-001	1	63.5	26.91	31.55	14.72 %
1101 (BS)-001	1	76.5	20.83	22.28	6.51 %
1102 (BS)-001	1	76.5	20.73	22.28	6.95 %
1103 (BS)-001	1	78	32.97	34.93	5.60 %
1104 (BS)-001	1	45	27.85	32.32	13.84 %
1105 (BS)-001	1	71	38.50	43.45	11.40 %
1106 (BS)-001	1	66	27.81	32.54	14.55 %
1107 (BS)-001	1	44	27.69	32.16	13.89 %
1108 (BS)-001	1	66	27.53	32.54	15.39 %
1109 (BS)-001	1	63.5	28.21	33.10	14.76 %
111 (BS)-001	1	49	26.10	30.21	13.61 %
1110 (BS)-001	1	69	21.85	24.17	9.59 %
112 (BS)-001	1	48	23.90	27.49	13.06 %
113 (BS)-001	1	69	29.31	32.25	9.14 %
1201 (BS)-001	1	76.5	32.60	38.05	14.32 %
1202 (BS)-001	1	76.5	32.51	38.05	14.55 %
1203 (BS)-001	1	78	46.11	52.40	12.01 %
1204 (BS)-001	1	45	43.03	49.45	12.97 %
1205 (BS)-001	1	71	50.70	59.95	15.44 %
1206 (BS)-001	1	66	39.42	46.90	15.94 %
1207 (BS)-001	1	44	40.87	47.54	14.02 %
1208 (BS)-001	1	66	39.39	46.90	16.01 %
1209 (BS)-001	1	44	40.81	47.54	14.15 %
1210 (BS)-001	1	58	54.02	55.99	3.52 %
1211 (BS)-001	1	55	49.91	50.35	0.86 %
1212 (BS)-001	1	44	49.15	57.57	14.63 %
201 (BS)-001	1	50	20.48	21.28	3.74 %
202 (BS)-001	1	50	20.57	21.28	3.32 %
203 (BS)-001	1	50	20.60	21.28	3.16 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



204 (BS)-001	1	78	33.38	34.93	4.44 %
205 (BS)-001	1	45	27.83	32.32	13.89 %
206 (BS)-001	1	78	40.60	44.17	8.08 %
207 (BS)-001	1	70	27.57	32.76	15.83 %
208 (BS)-001	1	50	27.74	32.46	14.54 %
209 (BS)-001	1	70	27.95	32.76	14.68 %
210 (BS)-001	1	67	28.36	33.40	15.10 %
211 (BS)-001	1	50	27.76	32.46	14.48 %
212 (BS)-001	1	88	41.51	47.03	11.75 %
213 (BS)-001	1	70	32.43	35.38	8.34 %
214 (BS)-001	1	69	21.68	24.17	10.29 %
301 (BS)-001	1	50	20.49	21.28	3.68 %
302 (BS)-001	1	50	21.20	21.28	0.38 %
303 (BS)-001	1	50	21.24	21.28	0.19 %
304 (BS)-001	1	78	33.93	34.93	2.86 %
305 (BS)-001	1	45	28.27	32.32	12.54 %
306 (BS)-001	1	78	39.14	41.93	6.66 %
307 (BS)-001	1	70	26.16	30.33	13.77 %
308 (BS)-001	1	50	25.55	29.40	13.09 %
309 (BS)-001	1	70	26.11	30.33	13.92 %
310 (BS)-001	1	67	26.26	30.87	14.95 %
311 (BS)-001	1	50	25.55	29.40	13.09 %
312 (BS)-001	1	88	34.20	35.54	3.77 %
313 (BS)-001	1	70	29.33	29.82	1.64 %
314 (BS)-001	1	69	21.89	24.17	9.42 %
401 (BS)-001	1	50	21.08	21.28	0.93 %
402 (BS)-001	1	50	21.13	21.28	0.70 %
403 (BS)-001	1	50	20.70	21.28	2.74 %
404 (BS)-001	1	78	33.28	34.93	4.72 %
405 (BS)-001	1	45	28.43	32.32	12.05 %
406 (BS)-001	1	78	38.26	41.93	8.74 %
407 (BS)-001	1	70	25.78	30.33	15.01 %
408 (BS)-001	1	50	25.24	29.40	14.17 %
409 (BS)-001	1	70	25.75	30.33	15.11 %
410 (BS)-001	1	67	26.40	30.87	14.48 %
411 (BS)-001	1	50	25.23	29.40	14.19 %
412 (BS)-001	1	88	33.98	35.54	4.38 %
413 (BS)-001	1	70	28.48	29.82	4.50 %
414 (BS)-001	1	69	21.99	24.17	9.02 %
501 (BS)-001	1	50	20.97	21.28	1.44 %
502 (BS)-001	1	50	21.49	21.28	-1.01 %
503 (BS)-001	1	50	21.13	21.28	0.70 %
504 (BS)-001	1	78	33.75	34.93	3.38 %
505 (BS)-001	1	45	28.61	32.32	11.49 %
506 (BS)-001	1	78	38.35	41.93	8.52 %
507 (BS)-001	1	70	25.76	30.33	15.09 %
508 (BS)-001	1	50	25.37	29.40	13.70 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



509 (BS)-001	1	70	25.94	30.33	14.49 %
510 (BS)-001	1	67	26.99	30.87	12.59 %
511 (BS)-001	1	50	25.61	29.40	12.88 %
512 (BS)-001	1	88	34.17	35.54	3.86 %
513 (BS)-001	1	70	29.01	29.82	2.71 %
514 (BS)-001	1	69	22.10	24.17	8.55 %
601 (BS)-001	1	76.5	20.74	22.28	6.89 %
602 (BS)-001	1	76.5	21.07	22.28	5.42 %
603 (BS)-001	1	78	33.41	34.93	4.36 %
604 (BS)-001	1	45	28.73	32.32	11.12 %
605 (BS)-001	1	78	38.70	41.93	7.71 %
606 (BS)-001	1	70	26.13	30.33	13.86 %
607 (BS)-001	1	50	25.86	29.40	12.04 %
608 (BS)-001	1	70	25.67	30.33	15.36 %
609 (BS)-001	1	67	26.32	30.87	14.75 %
610 (BS)-001	1	50	25.90	29.40	11.90 %
611 (BS)-001	1	88	34.16	35.54	3.87 %
612 (BS)-001	1	70	28.97	29.82	2.84 %
613 (BS)-001	1	69	22.18	24.17	8.22 %
701 (BS)-001	1	76.5	20.97	22.28	5.86 %
702 (BS)-001	1	76.5	20.91	22.28	6.14 %
703 (BS)-001	1	78	34.16	34.93	2.22 %
704 (BS)-001	1	45	28.10	32.32	13.06 %
705 (BS)-001	1	78	38.38	41.93	8.46 %
706 (BS)-001	1	70	25.71	30.33	15.24 %
707 (BS)-001	1	50	25.32	29.40	13.89 %
708 (BS)-001	1	70	25.67	30.33	15.38 %
709 (BS)-001	1	67	26.40	30.87	14.48 %
710 (BS)-001	1	50	25.26	29.40	14.08 %
711 (BS)-001	1	88	34.75	35.54	2.23 %
712 (BS)-001	1	70	28.65	29.82	3.92 %
713 (BS)-001	1	69	21.93	24.17	9.24 %
801 (BS)-001	1	76.5	21.22	22.28	4.75 %
802 (BS)-001	1	76.5	34.00	22.28	-52.61 %
803 (BS)-001	1	78	33.15	34.93	5.11 %
804 (BS)-001	1	45	27.88	32.32	13.76 %
805 (BS)-001	1	78	38.39	41.93	8.43 %
806 (BS)-001	1	70	25.91	30.33	14.57 %
807 (BS)-001	1	50	25.32	29.40	13.89 %
808 (BS)-001	1	70	25.71	30.33	15.25 %
809 (BS)-001	1	67	26.39	30.87	14.52 %
810 (BS)-001	1	50	25.47	29.40	13.39 %
811 (BS)-001	1	88	34.77	35.54	2.17 %
812 (BS)-001	1	70	29.03	29.82	2.63 %
813 (BS)-001	1	69	21.98	24.17	9.05 %
901 (BS)-001	1	76.5	20.67	22.28	7.22 %
902 (BS)-001	1	76.5	20.74	22.28	6.91 %

BLOCK COMPLIANCE

Calculation Type: New Build (As Built)



903 (BS)-001	1	78	33.14	34.93	5.14 %
904 (BS)-001	1	45	27.89	32.32	13.72 %
905 (BS)-001	1	78	38.41	41.93	8.40 %
906 (BS)-001	1	70	25.89	30.33	14.64 %
907 (BS)-001	1	50	25.51	29.40	13.25 %
908 (BS)-001	1	70	25.63	30.33	15.51 %
909 (BS)-001	1	67	26.26	30.87	14.95 %
910 (BS)-001	1	50	25.82	29.40	12.17 %
911 (BS)-001	1	88	34.82	35.54	2.02 %
912 (BS)-001	1	70	28.67	29.82	3.85 %
913 (BS)-001	1	69	22.04	24.17	8.82 %
Totals:	161	10426	4,746.28	5,279.59	
Average DFEE = 29.81 kWh/m ² /yr		% DFEE/TFEE	PASS		
Average TFEE = 33.03 kWh/m ² /yr		9.75 %			