



Sunlight House - Manchester

Electrical Services Switch Board Schedule

Date: August 2024
Ref: 1298-CSD-ZZ-ZZ-SH-E-62002
Revision: P01

Prepared By: O. Iqbal
Checked By: B. Wilson

[illegible]

Switchboard Schedule



Project Reference: Sunlight House

Job Number: CSD 1298

Created By: o.iqbal

Rev Date: 30/08/2024

Document No:

Created On: 30/08/2024

Revised By: o.iqbal

Revision: P01

Board Data

Id No: ENWL - Fuse Panel

Name:

L1

L2

L3

Model No: Ze (Ω): 0.00836

Total Connected Load (A): 1724.34 1887.17 1897.17

Board Rating (A): 0 **Fault Rating (kA):** 0

Total Diversified Load (A): 993.61 1012.07 1017.15

Cables

Phase	IdNo: Name:	Load (A) Diversified Connected	PF	3rd Harmonic %	Protective Device (A)			RCD mA	AFDD	Cable mm ²	Cores	Cable Type	Sep.CPC mm ²
					In	Ir	Type						
L1,L2,L3	C2 - New MDB	1017.2 1897.2	0.94	0.00	1600	1600	MCCB	N/A	N/A	400	3 x 4 x 1c	Single-core 90°C thermosetting non-mag arm *RUN TO 70°C Cu 4D3	N/A

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Board Data

Id No: Existing LL Switchboard Level 05 - R1
Name:
L1
L2
L3
Model No:
Ze (Ω): 0.05499
Total Connected Load (A): 246.10
240.27
288.81
Board Rating (A): 0
Fault Rating (kA): 0
Total Diversified Load (A): 101.82
115.24
114.64

Cables													
Phase	IdNo: Name:	Load (A) Diversified Connected	PF	3rd Harmonic %	Protective Device (A)			RCD mA	AFDD	Cable mm ²	Cores	Cable Type	Sep.CPC mm ²
					In	Ir	Type						
L1	C3 - DB-11/LL/R1	30.2 72.0	0.91	0.00	50	N/A	MCB	N/A	N/A	16	1 x 1 x 2c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A
L2	C4 - DB-13/LL/R1	45.9 65.5	0.91	0.00	50	N/A	MCB	N/A	N/A	16	1 x 1 x 2c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	16
L1,L2,L3	C5 - DB-14/LL/R1	9.8 14.8	0.97	0.00	50	N/A	MCB	N/A	N/A	25	1 x 1 x 4c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A

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Board Data

Id No: Existing LL Switchboard Level 05 - R2

Name:

Model No: **Ze (Ω):** 0.15025

Total Connected Load (A): L1 393.47 L2 579.81 L3 541.48

Board Rating (A): 0 **Fault Rating (kA):** 0

Total Diversified Load (A): 99.06 121.52 127.30

Cables

Phase	IdNo: Name:	Load (A) Diversified Connected	PF	3rd Harmonic %	Protective Device (A) In Ir Type	RCD mA	AFDD	Cable mm ²	Cores	Cable Type	Sep.CPC mm ²
L2	C6 - DB12 Submain	46.9 116.3	0.91	0.00	50 N/A MCB	N/A	N/A	16	1 x 1 x 2c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	10

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Board Data

Id No: MDB-1 - New Landlord's LV Panel

Name:

Model No: Ze (Ω): 0.01064

Total Connected Load (A): L1 1724.34 L2 1887.17 L3 1897.17

Board Rating (A): 0 **Fault Rating (kA):** 0

Total Diversified Load (A): L1 993.61 L2 1012.07 L3 1017.15

Cables

Phase	IdNo: Name:	Load (A) Diversified Connected	PF	3rd Harmonic %	Protective Device (A) In Ir Type	RCD mA	AFDD	Cable mm ²	Cores	Cable Type	Sep.CPC mm ²
L1,L2,L3	C7 - DB-Comms C7 - DB-Comms	40.0 40.0	0.90	0.00	100 63 MCCB	N/A	N/A	16	1 x 1 x 4c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A
L1	C8 - DB-FIRE	16.0 16.0	0.90	0.00	100 63 MCCB	N/A	N/A	16	1 x 1 x 3c	Prysmian FP400 Fire resistant cable Cu 4E4	N/A
L1	C9 - FAP	1.5 1.5	1.00	0.00	16 16 MCCB	N/A	N/A	4	1 x 1 x 3c	Prysmian FP400 Fire resistant cable Cu 4E4	N/A
L1,L2,L3	C10 - VRF 1	394.8 564.9	0.95	0.00	630 630 MCCB	N/A	N/A	150	3 x 1 x 4c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A
L1,L2,L3	C11 - VRF 2	286.5 410.2	0.95	0.00	400 400 MCCB	N/A	N/A	150	2 x 1 x 4c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A
L1,L2,L3	C12- PV INVERTER	0.1 0.1	0.90	0.00	40 32 MCCB	N/A	N/A	10	1 x 1 x 4c	Multicore 90°C thermosetting armoured *RUN TO 70°C Cu 4D4	N/A

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Board Data

Id No: TPN Switch Fuse

Name:

Model No:

Ze (Ω): 0.00932

Total Connected Load (A):

L1

L2

L3

271.84

324.31

290.05

Board Rating (A): 0

Fault Rating (kA): 0

Total Diversified Load (A):

189.57

231.37

202.86

Cables

Phase	IdNo: Name:	Load (A) Diversified Connected	PF	3rd Harmonic %	Protective Device (A)			RCD mA	AFDD	Cable mm ²	Cores	Cable Type	Sep.CPC mm ²
					In	Ir	Type						
L1,L2,L3	C1 - Submain By G&H	231.4 324.3	0.94	0.00	315	N/A	Fuse	N/A	N/A	240	1 x 4 x 1c	Single-core 90°C thermosetting non-arm *RUN TO 70°C Cu 4D1	120