

[BS 7671:2008 as amended]



Details of the Client

Client/Address

Details of the Installation

Address
 Extent of the installation covered by this certificate

The installation is:
 New N/A
 An Addition N/A
 An Alteration

Design

I being the person(s) responsible for the design of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

Details of permitted exceptions (Regulations 411.3.3): Yes Where applicable, a suitable risk assessment(s) must be attached to this Certificate: Yes Number of pages:

The extent of liability of the signatory or signatories is limited to the work described above as the subject of this certificate.

For the DESIGN of the installation:

Signature Date Name (CAPITALS) Designer 1
 Signature Date Name (CAPITALS) Designer 2 **
 **(where there is divided responsibility for the design)

Construction

I being the person(s) responsible for the construction of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the construction hereby CERTIFY that the construction work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

For the CONSTRUCTION of the installation:

Signature Date Name (CAPITALS) Constructor

Inspection and Testing

I being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my signature(s) below), particulars of which are described above, have exercised reasonable skill and care when carrying out the inspection and testing hereby CERTIFY that the work for which I have been responsible is, to the best of my knowledge and belief in accordance with BS 7671 amended to (date) except for the departures, if any detailed as follows:

Details of departures from BS 7671, as amended (Regulations 120.3, 133.5)

The extent of liability of the signatory is limited to the work described above as the subject of this certificate.

For the INSPECTION AND TESTING of the installation:

Signature Date Name (CAPITALS) Inspector
 Reviewed by Date Name (CAPITALS) Qualified Supervisor

DESIGN (1)		Organisation	SSE Commercial Limited		
Address	Unit 5, Contractor's Compound, Long Border Road, Stansted Airport, Essex CM24 1RL		Tel	01279 661537	
	NICEIC Enrolment Number	22914		Branch No. (If Applicable)	N/A
DESIGN (2)		Organisation	N/A		
Address			Tel	N/A	
	Registration Number			Branch No. (If Applicable)	
CONSTRUCTION		Organisation	SSE Commercial Limited		
Address	Unit 5, Contractor's Compound, Long Border Road, Stansted Airport, Essex CM24 1RL		Tel	01279 661537	
	NICEIC Enrolment Number	22914		Branch No. (If Applicable)	N/A
INSPECTION AND TESTING		Organisation	SSE Commercial Limited		
Address	Unit 5, Contractor's Compound, Long Border Road, Stansted Airport, Essex CM24 1RL		Tel	01279 661537	
	NICEIC Enrolment Number	22914		Branch No. (If Applicable)	N/A

Supply Characteristics and Earthing Arrangements				Tick boxes and enter details, as appropriate				Characteristics of primary supply overcurrent protective Device(s)								
System Type(s)		Number and Type of Live Conductors				Nature of Supply Parameters				BS(EN)						
TN-S	N/A	a.c.	<input checked="" type="checkbox"/>	d.c.	N/A	Nominal Voltage	U	N/A	V	U _o	N/A	V	N/A			
TN-C-S	N/A	1-Phase (2 wire)	N/A	1-Phase (3 wire)	N/A	2 Pole	N/A	Nominal frequency	f	N/A	Hz	Type	N/A			
TN-C	N/A	2-Phase (3 wire)	N/A	3 Pole	N/A	Prospective fault current	I _{pf}	N/A	kA	External loop impedance	Z _e	N/A	Ω	Rated current	N/A	A
TT	N/A	3-Phase (3 wire)	N/A	3-Phase (4 wire)	N/A	Other	N/A	Number of Sources	1			Short circuit Capacity	N/A	kA	Confirmation of Supply Polarity	N/A
IT	N/A	Other	N/A													

Particulars of Installation at the Origin			
Means of Earthing		Details of Installation Earth Electrode (where applicable)	
Distributor's facility	N/A	Type (eg rod(s), tape etc)	N/A
Installation earth electrode	N/A	Electrode resistance, R _A	N/A Ω
		Location	N/A
		Method of measurement	N/A

Main Switch/ Switch-Fuse/ Circuit-Breaker/ RCD				Maximum Demand (Load)		Protective measure(s) against electric shock				
Type BS(EN)	N/A	Voltage Rating	N/A	V	N/A	Amps	N/A			
No. of poles	N/A	Rated Current, I _n	N/A	A	Earthing and Protective Bonding Conductors				Bonding of extraneous conductive parts (✓)	
Supply Conductors material	N/A	RCD operating current, I _{Δn}	N/A	mA						
Supply Conductors CSA	N/A	RCD operating time at I _{Δn}	N/A	ms	Earthing conductor		Main protective bonding conductors		Water installation pipes	✗
		Rated time delay		ms	Conductor material:	N/A	Conductor material:	N/A	Lightning Protection	✗
					Conductor csa:	N/A	Conductor csa:	N/A	Oil installation pipes	✗
					Continuity/ connection verified	N/A	Continuity/ connection verified	N/A	Structural Steel	✗
									Gas installation pipes	✗
									Other	

Comments on Existing Installation	
In the case of an alteration or additions see Regulation 633	None

Next Inspection	
I, the designer(s) RECOMMEND that this installation is further inspected and tested after an interval of not more than	N/A or change of tenancy.

Item No	Description	Outcome	Item No	Description	Outcome
1.0	CONDITION OF DISTRIBUTOR'S/SUPPLY INTAKE EQUIPMENT (the Distributor should be notified of any unsatisfactory equipment)		6.0	OTHER METHODS OF PROTECTION (insert location in box provided)	
1.1	Service cable	N/A	6.1	Basic and fault protection	
1.2	Service head	N/A	a)	SELV	N/A
1.3	Distributor's earthing arrangement	N/A	b)	PELV	N/A
1.4	Meter tails - Distributor/Consumer	N/A	c)	Double insulation/Reinforced insulation	N/A
1.5	Metering equipment	N/A	d)	Electrical separation for one item of equipment	N/A
1.6	Isolator	N/A	6.2	Fault protection	
2.0	PARALLEL OR SWITCHED ALTERNATIVE SOURCES OF SUPPLY		a)	Non-conducting location/Earth-free local equipotential bonding**	N/A
2.1	Presence of adequate arrangements where generator to operate as a switched alternative	N/A	b)	Electrical separation for more than one item of equipment**	N/A
2.1 a)	Dedicated earthing arrangement independent of that of the public supply	N/A	7.0	DISTRIBUTION EQUIPMENT	
2.2	Presence of adequate arrangements where generator to operate in parallel with public supply system		7.1	Adequacy of working space/accessibility	N/A
2.2 a)	Correct connection of generator in parallel	N/A	7.2	Security of fixing	N/A
2.2 b)	Compatibility of characteristics of means of generation	N/A	7.3	Insulation of live parts not damaged during erection	N/A
2.2 c)	Means to provide automatic disconnection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	N/A	7.4	Adequacy / security of barriers	N/A
2.2 d)	Means to prevent connection of generator in the event of loss of public supply system or voltage or frequency deviation beyond declared values	N/A	7.5	Suitability of enclosures for IP and fire ratings	N/A
2.2 e)	Means to isolate generator from the public supply system	N/A	7.6	Enclosures not damaged during installation	N/A
2.3	Presence of alternative/additional supply warning notices at:		7.7	Presence and effectiveness of obstacles	N/A
2.3 a)	The origin	N/A	7.8	Presence of main switch(es), linked where required	N/A
2.3 b)	The meter position, if remote from origin	N/A	7.9	Operation of main switch(es) (functional check)	N/A
2.3 c)	The consumer unit/distribution board to which the alternative/additional sources are connected	N/A	7.10	Operation of circuit-breakers and RCDs to prove functionality	N/A
2.3 d)	All points of isolation of ALL sources of supply	N/A	7.11	RCD(s) provided for fault protection, where specified RCD(s) provided for fault protection, where specified	N/A
3.0	AUTOMATIC DISCONNECTION OF SUPPLY		7.12	RCD(s) provided for protection against fire	N/A
3.1	Presence and adequacy of protective earthing/bonding arrangements as follows:		7.13	RCD(s) provided for additional protection, where specified	N/A
3.1 a)	Distributor's earthing arrangement or installation earth electrode arrangement	N/A	7.14	Confirmation overvoltage protection (SPDs) provided where specified	N/A
3.1 b)	Earthing conductor and connections	N/A	7.15	Confirmation of indication that SPD is functional	N/A
3.1 c)	Main protective bonding conductors and connections	N/A	7.16	Presence of RCD quarterly test notice at or near the origin	N/A
3.1 d)	Earthing/bonding labels at all appropriate locations	N/A	7.17	Presence of diagrams, charts or schedules at or near each distribution board, where required	N/A
3.2	Accessibility of:		7.18	Presence of non-standard (mixed) cable colour warning notice at or near the appropriate distribution board, where required	N/A
3.2 a)	Earthing conductor connections	N/A	7.19	Presence of next inspection recommendation label	N/A
3.2 b)	All protective bonding connections	N/A	7.20	Presence of other required labelling	N/A
3.3	FELV - requirements satisfied	N/A	7.21	Selection of protective device(s) and base(s); correct type and rating	N/A
3.4	Reduced low voltage - requirements satisfied	N/A	7.22	Single-pole protective devices in line conductor only	N/A
4.0	BASIC PROTECTION		7.23	Protection against mechanical damage where cables enter equipment	N/A
4.1	Presence and adequacy of protective measures to provide basic protection		7.24	Protection against electromagnetic effects where cables enter ferromagnetic enclosures	N/A
4.1 a)	Insulation of live parts	N/A	7.25	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure	N/A
4.1 b)	Barriers or enclosures	N/A			
4.1 c)	Obstacles	N/A			
4.1 d)	Placing out of reach	N/A			
5.0	ADDITIONAL PROTECTION				
5.1	The presence and effectiveness of additional protection methods used, as follows:				
5.1 a)	RCDs not exceeding 30mA operating current	N/A			
5.1 b)	Supplementary bonding	N/A			

Board Details

TO BE COMPLETED IN EVERY CASE	ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION		
Location of distribution board Gnd Floor Riser	Supply to distribution board is from N/A	Associated RCD (if any) BS(EN) N/A	
Distribution board designation Annex 1	No of phases N/A	Nominal Voltage N/A V	RCD No of poles N/A
	Overcurrent protective device for the distribution circuit		RCD rating, I _{Δn} N/A mA
	Type BS(EN) N/A	Rating N/A A	

Circuit Details

Circuit number and line	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max. permitted disconnection time s	Overcurrent protective device				RCD	Max. permitted Zs Ω
					Live mm ²	cpc mm ²		BS(EN)	Type	Rating A	Short circuit capacity kA	Op. current I _{Δn}	
1/L1	Flat 1 Ring	O	C	8	2.5	2.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
1/L2	Flat 23	O	C	8	2.5	2.5	0.4	61009 RCD/RCBO	C	32	10	30	0.68
1/L3	Comunial Sockets	O	C	3	2.5	2.5	0.4	61009 RCD/RCBO	C	20	10	30	1.09
2/L1	AC Supply Flat 3	F	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
2/L2	AC Supply Flat 4	F	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
2/L3	AC Supply Flat 5	F	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
3/L1	AC Supply Flat 1	F	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
3/L2	AC Supply Flat 2	F	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
3/L3	Fire Alarm Supply	O	C	1	2.5	2.5	0.4	60898 MCB	C	16	10	N/A	1.37
4/L1	Fire Alarm Spur	O	C	1	2.5	2.5	0.4	60898 MCB	C	10	10	N/A	2.19
4/L2	Door Entry Supply	O	C	2	2.5	2.5	0.4	60898 MCB	C	20	10	30	1.09
4/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
5/L1	Flat 1 Lighting	O	C	13	1.5	1.5	0.4	61009 RCD/RCBO	C	10	10	30	2.19
5/L2	Flat 2Lighting	O	C	14	1.5	1.5	0.4	61009 RCD/RCBO	C	10	10	30	2.19
5/L3	Corridor Lighting	O	C	25	1.5	1.5	0.4	61009 RCD/RCBO	C	10	10	30	2.19
6/L1	Outside Lighting	O	C	2	1.5	1.5	0.4	61009 RCD/RCBO	C	10	10	30	2.19
6/L2	Fire Damper	O	C	1	1.5	1.5	0.4	61009 RCD/RCBO	C	10	10	N/A	2.19
6/L3	Hall Heater	O	C	1	1.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.19
7/TP	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
8/TP	Sub Mains(Annex 2)	G	C	1	16	44	5	60898 MCB	C	63	10	N/A	0.35

Wiring Code

A	B	C	D	E	F	G	H	O
Thermoplastic insulated/ sheathed cables	Thermoplastic cables in metallic conduit	Thermoplastic cables in non-metallic conduit	Thermoplastic cables in metallic trunking	Thermoplastic cables in non-metallic trunking	Thermoplastic/ SWA cables	Thermosetting/ SWA cables	Mineral-insulated cables	Other


Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION				TEST INSTRUMENTS (SERIAL NUMBERS) USED						
Zs	N/A	Ω	Operating times of associated RCD (if any)	At I _{Δn}	N/A	ms	Earth fault loop impedance	61117516	RCD	61117516
Ipf	N/A	kA		At 5I _{Δn} (if applicable)	N/A	ms	Insulation resistance	61117516	Multi-function	N/A
Confirmation of Supply polarity	<input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate)			N/A		Continuity	61117516	Other	N/A

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
1/L1						N/A	200	200	200	N/A				
1/L2						N/A	200	200	200	N/A				
1/L3						N/A	200	200	200	N/A				
2/L1						N/A	200	200	200	N/A		N/A	N/A	N/A
2/L2						N/A	200	200	200	N/A		N/A	N/A	N/A
2/L3						N/A	200	200	200	N/A		N/A	N/A	N/A
3/L1						N/A	200	200	200	N/A		N/A	N/A	N/A
3/L2						N/A	200	200	200	N/A		N/A	N/A	N/A
3/L3						N/A	200	200	200	N/A		N/A	N/A	N/A
4/L1						N/A	200	200	200	N/A		N/A	N/A	N/A
4/L2						N/A	200	200	200	N/A				
4/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/L1						N/A	200	200	200	N/A				
5/L2						N/A	200	200	200	N/A				
5/L3						N/A	200	200	200	N/A				
6/L1						N/A	200	200	200	N/A				
6/L2						N/A	200	200	200	N/A		N/A	N/A	N/A
6/L3				0.15		N/A	200	200	200	✓	0.17	N/A	N/A	N/A
7/TP	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/TP						200	200	200	200	N/A		N/A	N/A	N/A

Tested By

Signature		Position	Electrical Engineer
Name	John Cutmore <i>Jason Walker</i>	Date of testing	31/01/2017

Board Tests

ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION

TEST INSTRUMENTS (SERIAL NUMBERS) USED

Zs Ω Operating times of associated RCD (if any) At I_{Δn} ms

Ipf kA At 5I_{Δn} ms (if applicable)

Confirmation of Supply polarity Phase sequence confirmed (where appropriate)

Earth fault loop impedance RCD

Insulation resistance Multi-function

Continuity Other

Circuit Tests

Circuit number and line	Circuit impedances Ω					Insulation resistance				Polarity	Maximum measured earth fault loop impedance Ω	RCD		
	Ring final circuits only (measured end to end)			All circuits (At least one column to be completed)		Line/Line	Line/Neutral	Line/Earth	Earth/Neutral			Operating times		Test button operation
	r ₁ (Line)	r _n (Neutral)	r ₂ (cpc)	R ₁ + R ₂	R ₂	MΩ	MΩ	MΩ	MΩ			At I _{Δn}	At 5I _{Δn}	
	ms	ms	ms	ms	ms	ms	ms	ms	ms			ms		
1/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4/L3						N/A	200	200	200	N/A		N/A	N/A	N/A
5/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8/L3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Tested By

Signature Position

Name Date of testing