# ELECTRICAL INSTALLATION CERTIFICATE Issued in accordance with British Standard BS 7671 Requirements for Electrical Installations

Certificate Reference:

0039291

			HE CLIEN						-				
Client Ad	ldress:	Sampl	e Client 1, F	Address Lin	ne 1, <i>F</i>	Address L	ine 2, A	ddress Li	ine 3	, POSTCODE			
2. DE	TAILS	OF T	HE INSTA	LLATIO	V						Th	e install	ation is:
Installation		Sa	ıme as Clien	t Address							Ne	w	N/A
Extent of	the		re alarm not	tested.							An	additio	n N/A
installation by this co											An	alterat	ion 🗸
3. DE:													
I/We, be particular	ing the presents of wh	ich are	described abo	ove, having	exerc	ised reaso	nable ski the best	II and car	e whe	cated by my/our sen carrying out the wledge and belief	e desi		
in accord	lance wi	th BS 7	671:	amen	ded to		N/A	е	xcept	for the departure	es, de	tailed a	s follows:
Details of	f depart	ures fro	m BS 7671, a	as amended	l (Regi	ulations 12	20.3, 120	.4):	Non	е			
The exte	The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate.												
For the <b>C</b>	DESIGN	of the i	nstallation:										
Name:	JC	E ENG	INEER	Position:		Electricia	ın	Signatur	e:			Date:	03/11/2005
Where th	nere is d	ivided r	esponsibility	for the desi	gn								
Name:	JC	E ENG	INEER	Position:		Electricia	ın	Signatur	e:			Date:	03/11/2005
4. CO	NSTR	JCTIC	ON										
I/We, being the person(s) responsible for the construction of the electrical installation (as indicated by my/our signature(s) below) particulars of which are described above, having exercised reasonable skill and care when carrying out the construction, hereby CERTIFY that the construction work for which I/we have been responsible is, to the best of													
my/our knowledge and belief, in accordance with BS 7671: amended to N/A except f departures, if any, detailed as follows:							ept for the						
Details o	Details of departures from BS 7671, as amended (Regulations 120.3, 120.4):  None												
The exte	nt of lial	oility of	the signatory	//signatories	s is lim	nited to the	e work de	escribed a	above	as the subject of	this o	ertifica	te.
For the C	ONSTR	UCTIO	N of the insta	allation:									
Name:	JC	E ENG	INEER	Position:		Electricia	ın	Signatur	e:			Date:	03/11/2005
I/We, be signature inspectio	ing the pector (s) below the tector (s) and tector (s)	oerson( w) part esting, h	iculars of whi nereby CERTI	e for the ins ich are desc FY that the	ribed work f	above, hav	ving exer /we have	cised rease been res	sonab	rallation (as indica ble skill and care v ible is to the best	vhen of my	carrying //our	gout the
•	•		accordance led as follows		/1:		amend	ed to		N/A	exce	pt for t	ne
•		•	m BS 7671, a		l (Reai	ulations 12	20.3. 120	.4):	Non	e			
	•									as the subject of	this o	ertifica	te.
		,	ND TESTING	·				300. 1 <b>2</b> 0 <b>u</b> 0		- ao o a <b>aa</b> joot o.			
Name:			INEER	Position:	anano	Electricia	n	Signatur	e:			Date:	03/11/2005
			ing results re		he Ou			9					03/11/2003
Name:			INEER	Position:		Electricia		Signatur	e:			Date:	03/11/2005
6. DE	SIGN,	CONS	STRUCTIO	DN, INSP	ECT	ION AN	D TES	TING					
I/We, be by my/ou	ing the pur signa	person(s)	s) responsible below) partic	e for the des ulars of whice	sign, c ch are	constructio described	n, inspec above, l	tion and thaving ex	ercise	g of the electrical ed reasonable skil for which I/We			
have bee	en respo	nsible is	s to the best	of my/our k	nowle	dge and b	elief, in a	ccordance	e with	n BS 7671:		а	mended to
	N/A		except for	the departu	res, if	any, detai	led as fo	llows:					
Details of	f depart	ures fro	m BS 7671, a	as amended	l (Regi	ulations 12	20.3, 120	.4):	Non	е			
The exte	nt of lial	oility of	the signatory	//signatories	s is lim	nited to the	e work de	escribed a	above	as the subject of	this o	ertifica	te.
For the <b>C</b>	DESIGN	, the CC	ONSTRUCTIO	ON, and the	INSP	PECTION	AND TES	TING of	the in	nstallation:			
Name:			INEER	Position:		Electricia		Signatur				Date:	03/11/2005
The Desi			n, Inspection	And Testing	g resul			Qualified	Supe	ervisor:			
Name:	JC	E ENG	INEER	Position:		Electricia	n	Signatur	e:			Date:	03/11/2005

7. DETAIL	S OF THE	ELECTRICA	L CONTR	ACTO	₹							
DESIGN (1)	Trading	Title: ELECTRI	CAL SAFET	Y SYSTE	MS LIMI	TED						
Address:	Fulwood R Sutton in A					Regis	stration N	umber:	0244	128 / 0°	1623 46	00
	Nottinghar	mshire			Telep	0162	01623 460018					
			Postcode:									
DESIGN (2)	Trading	Title: Same as	Above									
Address:						Regis	stration N	umber:				
						Telep	ohone Nur	mber:				
			Postcode:									
CONSTRUCTIO	Trading	Title: Same as	Above									
Address:						Regis	stration N	umber:				
						Telep	ohone Nur	mber:				
			Postcode:									
INSPECTION AND TESTING	Trading	Title: Same as	Above									
Address:						Regis	stration N	umber:				
						Telep	ohone Nur	mber:				
			Postcode:									
		CTERISTICS										
System Type(s	s) Numl	ber and Type of Li					ply Paramo		Sı	ıpply Ov	s of Prin	ıt
TN-S 🗸	1-phase	ac: ✓ 1-phase	dc:	N/A	voltage(s	<sub>s):</sub> U:   2 nal freque	30 V U <sub>o</sub> :				Device(s	5)
TN-C-S N/A	(2 wire): 2-phase	(3 wire):	N/A 2 pole		Prospe	ective fau	•		BS(EN)		1361	
TNC N/A	(3 wire): 3-phase	N/A 3-phase	3 pole N/A Other		currer Exterr	nt, I <sub>pf</sub> : nal earth	fault	1.28kA	Rated c	urront	2	
TT N/A	(3 wire): Other:	(+ Wilc).	N/A Other	· IV/A	loop ii	mpedanc er of sup	e, Ze:	1	Short-c	rcuit	33	A kA
		OF INSTALLA		THE C	<u> </u>		,piics.		capacity	<u>/:</u>		1071
Means of Earthi		I INSTALLA			ation Earth	h Electroc	de (where	applicabl	e)			
Distributor's facility:	✓	Туре:	N/	A	Location	n:			N/A			
Installation earth electrode	e: N/A	Electrode resistance, RA:	Ν/Α Ω		Method measur	of ement:			N/A			
Maximum Dem	and (Load):	60 Amps	Protecti	ve measi	ure(s) aga	inst elect	tric shock:			ADS		
	lain Switch o	r Circuit-Breaker			Ea conductor	-	nd Protecti	ve Bondi	ng Condu	ıctors		
DS(EIV).	)947-2 MCCB	Voltage rating:	400 V	Conducto	or	Copper		nductor	16 r	nm <sup>2</sup> Co	ntinuity eck:	<b>√</b>
Number of poles:	2	Rated current, In:	125 A	-	tective bor					OTI	JOIC.	•
Supply conductors	Copper	RCD operating current:	N/A mA	Conductomaterial:		Copper	csa		10 r	nm <sup>2</sup> Co	eck:	✓
material: Supply	25 2	RCD operating		Water se		,	service:			ightning protection		N/A
conductors csa:	25 mm <sup>2</sup>	time:	N/A ms	Gas serv	rice:	J/A Str	uctural St	eel: N		Other se		N/A
10. COMM	ENTS ON	IEXISTING	INSTALL	NOITA								
Note: Enter 'No existing installa		ere appropriate, t	he page num	nber(s) o	f additiona	al page(s	s) of comm	nents on	the		None	
11. NEXT												
I/We, the design interval of not		OMMEND that the	is installation	is furthe	er inspecte	ed and te	sted after	an		5 Y	ears	

12	SCHEDULE OF I	ITEM	SINSPECTED	Prever	ntion of mutual detrimental influence
	ds of protection ag			N/A	(a) Proximity of non-electrical services and other
	and fault protection			N/A	influences (b) Segregation of Band I and Band II circuits or use of
N/A	(i) SELV	N/A	(ii) PELV	11//	Band II insulation
Double	e or reinforced insu	ulation	:	Idontii	(c) Segregation of safety circuits
✓	(iii) Double or Reinf	forced I	nsulation	√	fication Presence of diagrams, instructions, circuit charts and similar information
Basic	protection:		(ii) Barriers or	<b>√</b>	Presence of danger notices and other warning notices
NI/A	(i) Insulation of live parts (iii) Obstacles **	N/A	enclosures (iv) Placing out	✓	Labelling of protective devices, switches and terminals
N/A	` '	N/A	of reach **	<b>1</b>	Identification of conductors
	orotection: Itomatic disconnec	tion of	sunnly	Cables	and Conductors
(,) /	Presence of earthin			$\checkmark$	Selection of conductors for current carrying capacity and voltage drop
V		_		<b>✓</b>	Erection methods
<b>✓</b>	Presence of circuit p			<b>✓</b>	Routing of cables in prescribed zones or within mechanical protection
<b>V</b>	·		e bonding conductors gements for combined	N/A	Cables incorporating earthed armour or sheath, or run
<b>√</b>	protective and func	tional p			within an earthed wiring system, or otherwise adequately protected against nails, screws and the like
<b>V</b>	source(s), where ap	oplicable	Э	<b>√</b>	Additional protection provided by 30mA RCD for cables in
N/A	FELV			•	concealed walls (where required in premises not under the supervision of skilled or instructed persons)
N/A			ective and monitoring devices overcurrent protection)		Commontant of conductors
(::> N	·		·	<b>√</b>	Connection of conductors  Presence of fire barriers, suitable seals and protection
(II) N	on-conducting loca			N/A	against thermal effects
<b>✓</b>	Absence of protection			Genera	Presence and correct location of appropriate devices for
(iii) E	arth-free local equ	ipoten	tial bonding **	V	isolation and switching Adequacy of access to switchgear and other equipment
N/A	Presence of earth-fi	ree loca	I equipotential bonding	<b>√</b>	
(iv) E	lectrical Separation	n		N/A	Particular protective measures for special installations and locations
N/A			current-using equipment	<b>√</b>	Connection of single-pole devices for protection or switching in line conductors only
✓	Provided for <b>more</b> equipment **	than o	ne item of current-using	N/A	Correct connection of accessories and equipment
Additi	onal protection:			11/7	
N/A	Presence of residual current device(s)				Presence of undervoltage protective devices
N/A	Presence of suppler	mentary	bonding conductors	<b>√</b>	Selection of equipment and protective measures appropriate to external influences
** For	use in controlled	superv	ised/conditions only	N/A	Selection of appropriate functional switching devices
13.	SCHEDULE OF I	ITEM:	S TESTED	N/A	Protection against direct contact by barrier or enclosure provided during erection
<b>√</b>	External earth fault loop impedance, $\mathbf{Z}_{\underline{e}}$				Insulation of non-conducting floors or walls
N/A	Installation earth electrode resistance, $R_A$				Polarity
✓	Continuity of protective conductors				Earth fault loop impedance, Z <sub>S</sub>
✓	Continuity of ring fi	nal circ	uit conductors	<b>√</b>	Verification of phase sequence
<b>✓</b>	Insulation resistance	e betwe	een live conductors	1	Operation of residual current device(s)
<b>✓</b>	Insulation resistance	e betwe	een live conductors and earth	<b>V</b>	
	Protection by some	ation of	circuite	<b>√</b>	Functional testing of assemblies
N/A	Protection by separ	auon 01 	CITCUITS	✓	Verification of voltage drop
			TIONAL PECOPDS (Se		

## 14. SCHEDULE OF ADDITIONAL RECORDS (See attached schedule) Note: Additional page(s) must be identified by the Electrical None

Installation Cert serial and page number(s).

All boxes must be completed. 'tick' indicates that an inspection or test was carried out and that the result was satisfactory. 'X' indicates than an inspection or test was carried out and the result is not satisfactory. 'N/A' indicates that an inspection or test was not applicable to the particular installation. 'LIM' indicates that, exceptionally, a limitation agreed with the person ordering the work prevented the inspection or test being carried out.

Reference: 0039291

#### TO BE COMPLETED IN EVERY CASE

Location of distribution board:

Dining Room Cupboard

Distribution board designation:

D.B. 1

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

Nominal

Voltage:

N/A

N/A V

Supply to distribution board is from:

N/A

No of phases:

Overcurrent protective device for the distribution circuit:

Associated RCD (if any) BS(EN):

Type BS(EN): N/A RCD In: N/A mA

15. C	CIRCUIT DETAILS												
			70		Circuit conductors: csa		t time 3S7671	Overcurrent protective devices				RCD	3S7671
Circuit number and phase	Circuit designation	Type of wiring	Reference Method	Number of points served	Live mm <sup>2</sup>	cpc mm <sup>2</sup>	ω Max disconnect time permitted by BS7671	BS(EN)	Type No	<b>≻</b> Rating	x Short-circuit Y Capacity	3 Operating Seurrent	D Maximum Zs permitted by BS7671
1	Ground Floor Lights	Α	1		1	1	5	60898	В	6	6		
2	1st Floor Lights	А	1		1	1	5	60898	В	6	6		
3	2nd Floor Lights	Α	1		1	1	5	60898	В	6	6		
4	Fire Alarm	Α	1		1.5	1	5	60898	В	16	6		
5	Old Immersion	Α	1		2.5	1	5	60898	В	16	6		
6	1st and Ground Floor Sockets	Α	1		2.5	1	0.4	60898	В	32	6	20	10
7	Kitchen Sockets	А	1		2.5	1	0.4	60898	В	16	6	19	9
8	2nd Floor Sockets	А	1		2.5	1	0.4	60898	В	32	6	18	9
								1					

### 16. CODES FOR TYPE OF WIRING

A: PVC/PVC cables

D: PVC cables in metallic trunking

G: XLPE/SWA cables

B: PVC cables in metallic conduit

E: PVC cables in non-metallic trunking

H: Mineral-insulated cables

Reference: 0039291

C: PVC cables in non-metallic conduit

F: PVC/SWA cables

O - Other:

#### 17. CHARACTERISTICS AT THIS D.B.

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

Confirmation of supply polarity

Z<sub>s</sub>: N/A Ω N/A kA I<sub>pf</sub>:

Operating times of associated RCD (if any)

At  $I_n$ : N/A ms At 51<sub>n</sub>: N/A ms

### 18. DETAILS OF TEST INSTRUMENTS

Test Instruments (serial numbers) used:

Earth fault loop impedance: Insulation Resistance:

Continuity:

7654321 1234567

1234567

RCD: 1234567

Other:

N/A

N/A Other:

# **TEST RESULTS**

	Circuit impedances (Ohms)						nsulation d lower o				Maximum measured	RCD Op	RCD Operating times		
Circuit number and phase	Ring f (meas	inal circuit ured end t	s only to end)	(one colu	rcuits ımn to be leted)	Line/ Line	Line/ Neutral	Line/ Earth	Neutral/ Earth	Polarity	earth fault loop impedance Zs	At In	At 5 In		
Circuit	r1 (Line)	rn (Neutral)	r2 (cpc)	R1+R2	R2	МΩ	MΩ	MΩ	MΩ	<b>✓</b>	Ω	ms	ms		
1				1.00		N/A	> 200	> 200	> 200	✓	0.76				
2				1.20		N/A	> 200	> 200	> 200	✓	0.88				
3				1.60		N/A	> 200	> 200	> 200	✓	0.99				
4				1.18		N/A	> 200	> 200	> 200	✓	0.29				
5				1.00		N/A	> 200	> 200	> 200	✓					
6	0.43	0.44	1.43			N/A	> 200	> 200	> 200	✓	0.90	18	9		
7				0.25		N/A	> 200	> 200	> 200	✓	0.41				
8	0.63	0.62	1.36			N/A	> 200	> 200	> 200	✓	0.87	19	9		

|--|

Name:

Signature:

JOE ENGINEER

Position: Date of testing:

Electrician 01/11/2005

Reference: 0039291

#### **ELECTRICAL INSTALLATION CERTIFICATE**

#### **GUIDANCE FOR RECIPIENT (to be appended to the Certificate)**

This safety Certificate has been issued to confirm that the electrical installation work to which it relates has been designed, constructed and inspected and tested in accordance with British Standard 7671 (as amended) (The IEE Wiring Regulations).

You should have received an original Certificate and the contractor should have retained a duplicate Certificate. If you were the person ordering the work, but not the user of the installation, you should pass this Certificate, or a full copy of it including the schedules, immediately to the user.

The 'original' Certificate should be retained in a safe place and be shown to any person inspecting or undertaking further work on the electrical installation in the future. If you later vacate the property, this Certificate will demonstrate to the new owner that the electrical installation complied with the requirements of British Standard 7671 at the time the certificate was issued. The Construction (Design and Management) Regulations require that for a project covered by those regulations, a copy of this Certificate, together with schedules is included in the project health and safety documentation.

For safety reasons, the electrical installation will need to be inspected at appropriate intervals by a competent person. The maximum time interval recommended before the next inspection it stated on Page 1 under 'Next Inspection'.

This Certificate is intended to be issued only for a new electrical installation or new new work associated with an alteration or addition to an existing installation. It should not have been issued for the inspection of an existing electrical installation. A 'Periodic Inspection Report' should be issued for such a periodic inspection.

This Certificate is only valid if a Schedule of Inspections and Schedule of Test Results are appended.