## DOMESTIC ELECTRICAL INSTALLATION CERTIFICATE

Issued in accordance with British Standard BS 7671 - Requirements for Electrical Installations

10938343 Certificate Reference: DETAILS OF THE CLIENT SAXILBY CONSTRUCTION LIMITED Client: 30 CHURCH ROAD, SAXILBY, LINCOLN, LN1 2HJ Address: DETAILS AND EXTENT OF THE INSTALLATION 28 BAGGHOLME ROAD, LINCOLN, LN2 5BQ Installation Address: 100% of the installation. Extent of the installation covered by this certificate: Addition to an Alteration to an N/A N/A The installation is: New installation existing installation existing installation COMMENTS ON EXISTING INSTALLATION N/A NEXT INSPECTION I RECOMMEND that this installation is further inspected and tested after an interval Change of Owner/Occupancy/Use TEST INSTRUMENTS Details of Test Instruments used (state serial and/or asset numbers): N/A FLUKE 1652 8770036 Multi-functional: Earth electrode resistance: Insulation resistance: N/A Earth fault loop impedance: N/A N/A Continuity: RCD: N/A DESIGN, CONSTRUCTION, INSPECTION AND TESTING I/We being the person(s) responsible for the design, construction, inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design, construction, inspection and testing, hereby CERTIFY that the design work for which I/we have been reponsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008, amended to 2015 except for the departures, if any, detailed as follows Details of departures from BS 7671, as amended (Regulations 120.3, 133.5): None N/A Details of permitted exceptions (Regulations 411.3.3): Risk assessment attached NIL The extent of liability of the signatory/signatories is limited to the work described above as the subject of this certificate. For the DESIGN, the CONSTRUCTION, and the INSPECTION AND TESTING of the installation: **SCOTT GLADDING** Position: Qualified Supervisor Signature: 25/06/2016 Name: SGEO Date: DETAILS OF THE ELECTRICAL CONTRACTOR SCOTT GLADDING ELECTRICAL Trading Title: 29 MANRICO DRIVE ST GEORGES PARK Address: Registration Number **EPP 22313** (if applicable): LINCOLN 01522 410269 Telephone Number: Registered ELEC LN1 1AD Postcode: Competent Person

This form is based on the model shown in Appendix 6 of BS 7671:2008 amended 2015.

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g Sl	JPPLY CHARACTER	ISTICS A	ND EAR	THING	ARRANGE	MENTS									
Eartl Arrange	ning !	nd Type of L		I .	lature of Suppl			ı Supply	Protecti	ve Device					
	1-phase	nductors 1-phas		Nomina		V Uo:	230 V	BS(EN):	1361 Fr	use HBC					
TN-S	N/A (2 wire):	(3 wire 3-phas	,	¦ voltage	e(s):	100110	2								
TN-C-S	(2', wire). IV/A	(4 wire		I I	Nominal frequency, f: 50 Hz										
	Other:	N/A			Prospective fault current, lpf:  2.91 kA Rated current: Short-circuit										
П	N/A Confirmation of s	upply polari	ity: 🗸		External earth fault loop impedance, Ze: 0.03 $\Omega$										
O PA	RTICULARS OF IN	STALLAT	ION REF	<u>'</u>			LELCATE	<u> </u>							
	of Earthing ¦	<i>317 (LL/ (1</i>			tion Earth Elec										
Distribution facility:	tor's	oe:	N/A	4	Location:			N/A							
Installat earth el	ion N/A Resistance N/A O Method of N/A														
Maximu	m Demand (Load):	) AMPS	Protective against ele		• /	ADS	8	Measure	ed Ze:	0.03 Ω					
 Main Sw	itch / Switch-Fuse / Circu	t-Breaker /					If RCI	omain switc	 h:						
Type BS(EN):	5419 Isolator	Current ratin	ng: 1	100 A	Supply conductors	Coppe	~ w	l residual	(14.)	N/A mA					
Number of poles	2	material:	оорро	Opere	iting current I time delay:		N/A ms								
oi poies		or setting:		100 A	Supply conductors	25 mr	_2	ured operati							
		/oltage ratin 	ng: 4	240 v	csa:		time	(at l∆n):		N/A ms					
Earthing and Protective Bonding Conductors  Earthing conductor  Bonding of extraneous-conductive parts To water installation To gas installation															
Conduct	or Copper csa	ı: 16 mm²			pipes:			pipes: To lightn	nina						
Main protective bonding conductors Connection / Dines:															
Conductor To structural To other service(s):															
	**				steel:		14/7 (	07 11 11 12		BOILER					
10 SC	HEDULE OF ITEMS	TNSPEC	IED	Descrip	ntion					Outcome					
1.0	DISTRIBUTOR'S / SUP	PLY INTAK	E EQUIPM	·	711011					Outcome					
1.1	Condition of service cable	<b>)</b>								<b>'</b>					
1.2	Condition of service head									<b>'</b>					
1.3	Condition of distributor's	earthing ar	rangement							<b>'</b>					
1.4	Condition of tails - Distrib	outor/Consu	mer							<b>'</b>					
1.5	Condition of metering eq	uipment								<b>'</b>					
1.6	Condition of isolator (who	ere present)								N/A					
2.0	PARALLEL OR SWITCH														
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply (551.6)														
2.2	Adequate arrangements	where a ger	nerating set	operates	in parallel wit	h the pub	lic supply (	551.7)		N/A					
3.0	AUTOMATIC DISCONN	ECTION OF	SUPPLY												
3.1	Presence and adequacy of	f earthing a	ind protective	ve bondin	ig arrangemer	nts:				T					
3.1.1	Installation earth electro				<u> </u>					N/A					
3.1.2	Earthing conductor and connections including accessibility (542.3; 543.3.2)														
3.1.3	Main protective bonding conductors and connections, including accessibility (411.3.1.2; 543.3.2)														
3.1.4	Provision of safety electrical earthing / bonding labels at all appropriate locations (514.13)														
3.1.5	RCD(s) provided for fault	protection	(411.4.9; 4	11.5.3)						<b>V</b>					
4.0	BASIC PROTECTION  Presence and adequacy of	of measures	to provide l	basic prof	tection (preve	ntion of co	ontact with	live parts) w	vithin						
	the installation:														
4.1.1	Insulation of live parts e.	<u> </u>	•		d with durable	e insulatio	n materials	(416.1)		<b>V</b>					
412	Barriers or enclosures e	1 CORRECT ID	rating (416	2)											

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11/50	CHEDULE OF ITEMS INSPECTED	
Item	Description	Outcome
5.0	ADDITIONAL PROTECTION	
5.1	Presence and effectiveness of additional protection methods:	
5.1.1	RCD(s) not exceeding 30mA operating current (415.1; Part 7), see Item 8.14 of this schedule	<b>/</b>
5.1.2	Supplementary bonding (415.2; Part 7)	N/A
6.0	OTHER METHODS OF PROTECTION	
6.1	Presence and effectiveness of methods which give both basic and fault protection:	
6.1.1	SELV systems including the source and associated circuits (Section 414)	<b>/</b>
6.1.2	PELV systems, including the source and associated circuits (Section 414)	N/A
6.1.3	Double or reinforced insulation i.e. Class II or equivalent equipment and associated circuits (Section 412)	<b>✓</b>
6.1.4	Electrical separation for one item or equipment e.g. shaver supply unit (Section 413)	<b>'</b>
7.0	CONSUMER UNIT(S) / DISTRIBUTION BOARD(S)	
7.1	Adeqacy of access and working space for items of electrical equipment including switchgear (132.12)	<b>✓</b>
7.2	Presence of linked main switch(s) (537.1.4; 537.1.5; 537.1.6)	<b>✓</b>
7.3	Isolators, for every circuit or group of circuits and all items of equipment (537.2)	<b>/</b>
7.4	Suitability of enclosure(s) for IP and fire ratings (416.2; 421.1.6; 421.1.201)	<b>✓</b>
7.5	Protection against mechanical damage where cables enter equipment (522.8.1; 522.8.11)	<b>/</b>
7.6	Confirmation that ALL conductor connections are correctly located in terminals and are tight and secure (526.1)	<b>✓</b>
7.7	Avoidance of heating affects where cables enter ferromagnetic enclosures e.g. steel (521.5)	V
7.8	Selection of correct type and ratings or circuit protective devices for overcurrent and fault protection (411.3.2; 411.4, .5, .6; Sections 432, 433)	<b>✓</b>
7.9	Presence of appropriate circuit charts, warning and other notices:	
7.9.1	Provision of circuit charts/schedules or equivalent forms of information (514.9)	<b>✓</b>
7.9.2	Warning notice of method of isolation where live parts not capable of being isolated by a single device (514.11)	<b>✓</b>
7.9.3	Periodic inspection and testing notice (514.12.1)	<b>✓</b>
7.9.4	RCD quarterly test notice; where required (514.12.2)	<b>✓</b>
7.9.5	Warning notice of non-standard (mixed) colours of conductors present (514.14)	<b>/</b>
7.10	Presence of labels to indicate the purpose of switchgear and protective devices (514.1.1; 514.8)	<b>/</b>
8.0	CIRCUITS	
8.1	Adequacy of conductors for current-carrying capacity with regard to type and nature of the installation (Section 523)	<b>✓</b>
8.2	Cable installation methods suitable for the location(s) and external influences (Section 522)	<b>✓</b>
8.3	Segregation/separation of Band I (ELV) and Band II (LV) circuits, and electrical and non-electrical sevices (528)	<b>✓</b>
8.4	Cables correctly erected and supported throughout including escape routes, with protection against abrasion (Sections 521, 522)	<b>✓</b>
8.5	Provision of fire barriers, sealing arrangments where necessary (527.2)	<b>'</b>
8.6	Non-sheathed cables enclosed throughout in conduit, ducting or trunking (521.10.1; 526.8)	N/A
8.7	Cables concealed under floors, above ceilings or in wall/partitions, adequately protected against damage (522.6.201, .202, .204)	~
8.8	Conductors correctly identified by colour, lettering or numbering (Section 514)	<b>'</b>
8.9	Presence, adequacy and correct termination of protective conductors (411.3.1.1; 543.1)	<b>~</b>
8.10	Cables and conductors correctly connected, enclosed and with no undue mechanical strain (Section 526)	<b>/</b>
8.11	No basic insulation of a conductor visible outside enclosure (526.8)	<b>/</b>
8.12	Single-pole devices for switching or protection in line conductors only (132.14.1; 530.3.2)	<b>/</b>
	Accessories not damaged, securely fixed, correctly connected, suitable for external influences (134.1.1; 512.2;	

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12/S0	CHEDULE OF ITEMS INSPECTED	
Item	Description	Outcome
8.14	Provision of additional protection by RCD not exceeding 30mA:	
8.14.1	Socket-outlets rated at 20 A or less unless exempt (411.3.3)	<b>✓</b>
8.14.2	Mobile equipment with a current rating not exceeding 32 A for use outdoors (411.3.3)	V
8.14.3	Cables concealed in walls at a depth of less than 50 mm (522.6.202, .203)	V
8.14.4	Cables concealed in walls/partitions containing metal parts regardless of depth (522.6.202; 522.6.203)	V
8.15	Presence of appropriate devices for isolation and switching correctly located including:	
8.15.1	Means of switching off for mechanical maintenance (537.3)	<b>/</b>
8.15.2	Emergency switches (537.4)	V
8.15.3	Functional switches, for control of parts of the installation and current-using equipment (537.5)	<b>V</b>
8.15.4	Firefighter's switches (537.6)	N/A
9.0	CURRENT-USING EQUIPMENT (PERMANENTLY CONNECTED)	
9.1	Equipment not damaged, securely fixed and suitable for external influences (134.1.1; 416.2; 512.2)	<b>/</b>
9.2	Provision of overload and/or undervoltage protection e.g. for rotating machines, if required (Sections 445, 552)	<b>✓</b>
9.3	Installed to minimise the build-up of heat and restrict the spread of fire (421.1.4; 559.4.1)	<b>V</b>
9.4	Adequacy of working space. Accessibility to equipment (132.12; 513.1)	<b>V</b>
10.0	LOCATION(S) CONTAINING A BATH OR SHOWER (SECTION 701)	
10.1	30 mA RCD protection for all LV circuits, equipment suitable for the zones, supplementary bonding (where required) etc.	<b>'</b>
10.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)	<b>/</b>
10.3	Shaver sockets comply with BS EN 61558-2-5 formerly BS 3535 (701.512.3)	N/A
10.4	Presence of supplementary bonding conductors, unless not required by BS 7671:2008 (701.415.2)	<b>/</b>
10.5	Low voltage (e.g. 230 volt) socket-outlets sited at least 3m from Zone 1 (701.512.3)	<b>V</b>
10.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)	<b>✓</b>
10.7	Suitability of accessories and controlgear etc. for a particular zone (701.512.3)	<b>✓</b>
10.8	Suitability of current-using equipment for particular position within the location (701.55)	<b>✓</b>
11.0	OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS List all other special installations or locations present, if any (Record separately the results of particular inspect	ons)
11.1	N/A	<b>✓</b>
11.2	N/A	<b>/</b>
12/50	CHEDULE OF ITEMS TESTED	
Item	Description	Outcome
12.1	External earth fault loop impedance, Ze	<b>'</b>
12.2	Installation earth electrode resistance, Ra	V
12.3	Continuity of protective conductors	V
12.4	Continuity of ring final circuit conductors	V
12.5	Insulation resistance between live conductors	<b>✓</b>
12.6	Insulation resistance between live conductors and earth	<b>✓</b>
12.7	Polarity	<b>'</b>
12.8	Earth fault loop impedance, Zs	V
12.9	Verification of phase sequence	V
12.10	Operation of residual current device(s)	<b>V</b>
12.11	Functional testing of assemblies	<b>✓</b>
12.12	Verification of voltage drop	<b>/</b>

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.

	esignation of D.B. 1			L	ocatio	n:	U	NDERSTA	AIR (	CUPE	BOA	RD		ospec arrent:	tive fau	It	2.91	kA O	/pe of \ -Other:	Wiring			N/A		
						ictors:	time S7671	Overcurrent protective devices			е	RCD	BS7671	Circuit imped		pedance	es (Ohms		Insulation resistance			measured t loop e Zs	RC		
Circuit number	Circuit designation	wiring	Method	l ved			disconnect tin nitted by BS76				>	pu E_	2s Sy	Ring final circuits only (measured end to end)		ts only to end)	nly (one column to be completed)		Live	Earth		um meas ault loop nce Zs	Disconnection time at I\( \Delta n \)	nection 5l∆n	itton
			Reference Method	Number of points served	Live		Max dis permitt	BS(EN)	Type No	Rating	Capacity	Operating current, I∆n		r <sub>1</sub>	r <sub>n</sub>	r <sub>2</sub>	R <sub>1</sub> +R <sub>2</sub>	R <sub>2</sub>	Live - L	Live -		Maximum mearth fault le	Disconr time at	Disconnection time at 5l∆n	Test button
1	SOCKETS KITCHEN	А	С	17	mm <sup>2</sup>	2.5	0.4	60898	В	32	6 6	30	Ω 1.37	(Line)	(Neutral)	(cpc)	0.53	N/A	ΩΜ	MΩ > 200	v /	Ω 0.56	32.8	9.1	•
2	SOCKETS 2ND FLOOR	Α	С	7	2.5		0.4	60898	В	20	6	30	2.19				0.59	N/A		> 200	-		32.8		
3	BOILER	Α	С	1	2.5		0.4	60898	В	20	6	30	2.19				0.31	N/A		> 200	<u> </u>		32.8		
4	LIGHTS 1ST FLOOR	Α	С	5	1	1	0.4	60898	В	6	6	30	7.28				0.97	N/A		> 200	_		32.8		
5	FIRE DETECTION	Α	С	11	1	1	0.4	60898	В	6	6	30	7.28				1.76	N/A		> 200	,		32.8		
6	SPARE						0.4					30									·		32.8	9.1	·
7	SOCKETS FRONT	Α	С	10	2.5	1.5	0.4	60898	В	20	6	30	2.19				0.60	N/A		> 200	V	0.63	32.0	13.3	_
8	SOCKETS REAR	Α	С	9	2.5	1.5	0.4	60898	В	20	6	30	2.19				0.58	N/A		> 200	<b>/</b>	0.61	32.0	13.3	_
9	T V AMP	Α	С	1	1	1	0.4	60898	В	6	6	30	7.28				0.01	N/A		> 200	<b>✓</b>	0.04	32.0	13.3	•
10	LIGHTS GROUND FLOOR	Α	С	6	1	1	0.4	60898	В	6	6	30	7.28				0.61	N/A		> 200	<b>✓</b>	0.64	32.0	13.3	~
11	LIGHTS 2ND FLOOR, STAIRS, EMERGENCY	A	С	12	1	1	0.4	60898	В	6	6	30	7.28				1.83	N/A		> 200	~	1.86	32.0	13.3	~
12	SPARE						0.4					30									<b>✓</b>		32.0	13.3	
N/	N/A																								

## DOMESTIC 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 IET 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 owner 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 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. An 'Electrical Installation Condition Report' should be issued for such an inspection.

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