



ELECTRICAL INSTALLATION CONDITION REPORT
Newton Abbot Town Council, St Leonards Church
5th January 2017

No; 20170

ST LEONARDS CHURCH

5th January 2017

PERIODIC ELECTRICAL INSTALLATION CONDITION REPORT

NEWTON ABBOT TOWN COUNCIL
ST LEONARDS CHURCH
WOLBOROUGH STREET
NEWTON ABBOT
TQ12 1JQ

Tucker E.M.S Ltd
Unit 9 Old Cider Works,
Abbotskerswell,
Newton Abbot, Devon. TQ12 5NF.

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Registered in England No: 5559235 Vat No: GB 409 023777



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A. DETAILS OF THE CLIENT			
Newton Abbot Town Council, The Town Hall, 9 Devon Square, Newton Abbot, TQ12 2HN.			
B. PURPOSE OF THE REPORT			
Electrical Test & Inspection			
C. DETAILS OF THE INSTALLATION			Description of Premises
Address Newton Abbot Town Council, St Leonards Church, Wolborough Street, Newton Abbot, Devon, TQ12 1JQ			Church Building
Date of Previous Inspection	Records Held By	Estimated age of Installation	Evidence of Alterations and Additions
Unknown	Site Office	Unknown	Yes
D. EXTENT OF ELECTRICAL INSPECTION COVERED BY THIS REPORT			
Extent of electrical inspection covered by this report;			
LV Installation only, excluding 24V and 110V control system from the dead side of main LV switch.			
The above electrical installations were inspected for compliance with the 1989 Electricity at Work Regulations, BS 7671:2015 or BS 6907 where applicable.			
The Max Zs figures shown in the result sheets are for guidance only to assess the disconnection time of the circuit. TN systems; 5 seconds disconnection time, all distribution circuits and all final circuits greater than 32A except socket outlets, 0.4 disconnection time, all final circuits below 32A. TT systems; 1 second disconnection time, all distribution circuits and all final circuits greater than 32A except socket outlets, 0.2 seconds disconnection time, all final circuits below 32A.			
Agreed limitations on the inspection and testing;			
Each section was tested and inspected from the dead side of the main LV (415v/240v) switch. Cables and equipment concealed within trunking, conduits or concealed within fabric, buildings or underground or inaccessible items such as high level lighting has not been tested or inspected. Safety interlocks and systems were not tested.			
Operational limitations;			
None			
E. SUMMARY OF THE CONDITION OF THE INSTALLATION			
General condition of the installation (in terms of electrical safety):			
Overall assessment of the installation:			
Unsatisfactory; steps required to rectify identified defects.			
An 'Unsatisfactory' assessment indicates that dangerous and / or potentially dangerous conditions have been identified.			
F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN			
Referring to the attached defect log and test results, and subject to limitations at D:			
Please see defect log.			
CLASSIFICATION CODES – One of the following codes as appropriate has been allocated to each of the observations made in the defect log to indicate to the person(s) responsible for the installation the degree of urgency for remedial action;			
Code C1 Danger Present - Risk of injury. Immediate remedial action required.			
Code C2 Potentially Dangerous - Urgent remedial action required.			
Code C3 Improvement Recommended			
Code CFI Requires Further Investigation			
Guidance for recipients on the classification codes;			
Only one classification code should be given for each recorded observation.			
Classification Code C1 (Danger Present); where an observation has been given a classification code C1, the safety of those using the installation is at risk and remedial action is required. The person responsible for the maintenance of the installation is advised to take action without delay to remedy the observed deficiency in the installation, or to take other appropriate action (such as switching off and isolating the affected part(s) of the installation) to remove the potential danger. The NICEIC approved contractor issuing this report will be able to provide further advice.			
Classification Code C2 (Potentially Dangerous); classification code C2 indicates that, whilst the safety of those using the installation may not be at immediate risk, urgent remedial is required to remove potential danger. The NICEIC approved contractor issuing this report will be able to provide further advice.			
Classification Code C3 (Improvement Recommended); where an observation has been given a classification code C3, the inspection and/or testing has revealed a non compliance with the current safety standard which, whilst not presenting immediate on potential danger, would result in a significant safety improvement if remedied. Careful consideration should be given to the safety benefits of improving these aspects of the installation. The NICEIC approved contractor issuing this report will be able to provide further advice.			
Classification Code CFI (Requires Further Investigation); it should usually be possible for the inspector to attribute a Classification Code to each observation without indicating a need for further investigation, however where a CFI has been entered against an observation the inspector considers that further investigation of the observation is likely to reveal danger or potential danger that, due to the agreed extent or limitations of the inspection and/or testing, could not be fully identified at the time.			



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F. OBSERVATIONS AND RECOMMENDATIONS FOR ACTIONS TO BE TAKEN CONT...

Classification Code		Number of New Defects	Number of Old Defects	No of Rectified Defects
C1	Immediate remedial action	4	0	0
C2	Urgent remedial action	8	0	0
C3	Improvement recommended	9	0	0
CFI	Further investigation	0	0	0

G. DECLARATION

I/We being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by my/our signatures below), particulars of which are described above (See C), having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations (see defect log) and the attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent of the installation and limitations of the inspection and testing (see D).

INSPECTION, TESTING & ASSESSMENT BY;  Liam Webb Tel No; 07496 133035 Electrician	REPORT REVIEWED AND CONFIRMED BY;  Stuart Branson Tel No; 07798 670629 Registered Qualified Supervisor for Tucker EMS Ltd
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H. SCHEDULES AND ADDITIONAL PAGES

Please see defect log and test pages.

I. DATE OF NEXT INSPECTION

I/We recommend that this installation is further inspected and tested after an interval of not more than 12 months provided that items at F which have been attributed a Classification Code C1 (Danger Present) are remedied immediately and that any items which have been attributed a Classification Code C2 (Potentially Dangerous) or Classification Code CFI are remedied or investigated respectively as a matter of urgency. Items that have been attributed a Classification Code C3 should be improved as soon as practicable (see F).

J. DETAILS OF NICEIC APPROVED CONTRACTOR

Tucker E.M.S Ltd
 Unit 9 Old Cider Works, Abbotskerswell, Newton Abbot, Devon. TQ12 5NF. Tel/Fax 01626 369781
 Email; office@tucker-ems.co.uk Web; www.tucker-ems.co.uk
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K. SUPPLY CHARACTERISTIC AND EARTHING ARRANGEMENTS									
System Type TN/S					Number and Type of Live Conductors Single Phase 2 Wire				
Nature of Supply Parameters									
Nominal Voltage 230 V		Nominal Frequency 50 Hz		Prospective Fault Current 2500 A		External Earth Fault 0.1 Ω		Number of Supplies 1	
Characteristics of Primary Supply Over current Protective Device									
BS (EN) 1361		Type 2		Nominal Current Rating 100A			Short Circuit Capacity 33kA		
L. PARTICULARS OF INSTALLATION AT THE ORIGIN									
Means of Earthing			Details of Installation Earth Electrodes						
TN/S			Type N/A		Electrode Resistance N/A		Location N/A		Method of Measurement N/A
Main Switch or Circuit Breaker									
Type	No of Poles	Supply Conductors Material	CSA	Voltage Rate	Current Rate	RCD Operating Current	RCD Operating Time	Maximum Demand Load	Method of Protection Against Indirect Contact
None Installed									
Main Protective Conductors									
Earthing Conductor									
Conductor Material Copper			Conductor csa 16 mm²			Continuity Check 0.01 Ω			
Main Equipotential Bonding Conductors									
Conductor Material Copper			Conductor csa 16 mm²			Continuity Check 0.13 Ω			
Bonding of Extraneous-Conductive-Parts									
Water Service 0.07Ω	Oil Service N/A	Lightning Protection N/A		Gas Service N/A		Structural Steel N/A		Other Incoming Service(s) N/A	

Test Instrument (serial numbers) used									
Earth fault loop impedance			T34						
Insulation Resistance			T34						
Continuity			T34						
RCD									
Other									



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INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS

Item	Description
1.0	Condition/adequacy of distributor's/supple intake equipment
1.1	Service cable
1.2	Service cut-out/fuse(s)
1.3	Meter tails - distributor
1.4	Meter tails - consumer
1.5	Metering equipment
1.6	Means of main isolation (<i>where present</i>)
2.0	Presence of adequate arrangements for parallel or switched alternative sources
2.1	Adequate arrangements where a generating set operates as a switched alternative to the public supply
2.2	Adequate arrangements where a generating set operates in parallel with the public supply
3.0	Automatic disconnection of supply
3.1	Main earthing and bonding arrangements <ul style="list-style-type: none"> • Presence and condition of distributor's earthing arrangement • Presence and condition of earth electrode arrangement • Adequacy of earthing conductor size • Adequacy of earthing conductor connections • Accessibility of earthing conductor connections • Adequacy of main protective bonding conductor size(s) • Adequacy of main protective bonding conductor connections • Accessibility of main protective bonding connections • Provision of earthing/bonding labels at all appropriate locations
3.2	FELV <ul style="list-style-type: none"> • Adequacy of source • Plugs, socket outlets and the like not interchangeable with those of other systems within the premises
3.3	Reduced low voltage <ul style="list-style-type: none"> • Adequacy of source • Plugs, socket outlets and the like not interchangeable with those of other systems
4.0	Other methods of protection (<i>Where the methods of protection listed below are employed, details should be provided on separate sheets</i>)
4.1	Double insulation
4.2	Reinforced insulation
4.3	Use of obstacles
4.4	Placing out of reach
4.5	Non-conducting location
4.6	Earth-free local equipotential bonding
4.7	Electrical separation for more than one item of equipment
5.0	Distribution equipment
5.1	Adequacy of working space/accessibility of equipment
5.2	Security of fixing
5.3	Condition of insulation of live parts
5.4	Adequacy /security of barriers
5.5	Condition of enclosure(s) in terms of IP rating
5.6	Condition of enclosure(s) in terms of fire rating
5.7	Enclosure not damaged/deteriorated so as to impair safety
5.8	Presence of main switch(es), linked where required
5.9	Operation of main switch(es), (function check)
5.10	Correct identification of circuit protective devices
5.11	Adequacy of protective devices for prospective fault current
5.12	RCD(s) provided for fault protection - includes RCBOs
5.13	RCD(s) provided for additional protection - includes RCBOs
5.14	RCD(s) provided for protection against fire - includes RCBOs



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INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS CONTINUED...

Item	Description
5.15	Manual operation of circuit breakers and RCD's to prove disconnection
5.16	Presence of RCD retest notice at or near equipment where required
5.17	Presence of diagrams, charts or schedules at or near equipment where required
5.18	Presence of non-standard (mixed) cable colour warning notice at or near equipment where required
5.19	Presence of alternative supply arrangement warning notice(s) at or near equipment where required
5.20	Presence of replacement next inspection recommendation label
5.21	Presence of other required labelling (<i>specify</i>)
5.22	Examination of protective device(s) and bases(s); correct type and rating (<i>no signs of unacceptable thermal damage, arcing or overheating</i>)
5.23	Single-pole switching or protective devices in line conductors only
5.24	Protection against mechanical damage where cables enter equipment
5.25	Protection against electromagnetic effects where cables enter metallic enclosures
6.0	Distribution/final circuits
6.1	Identification of conductors
6.2	Cables correctly supported throughout their length
6.3	Condition of insulation of live parts
6.4	Non sheathed cables protected by enclosure in conduit, duct or trunking
6.5	Suitability of containment systems for continued use (<i>including flexible conduit</i>)
6.6	Cables correctly terminated in enclosures (<i>indicate extent of sampling in section D of report</i>)
6.7	Confirmation of indication that SPD(s) are functional
6.8	Confirmation that ALL conductor connections, including connections to busbars are correctly located in terminals and are tight and secure
6.9	Examination of cables for signs of unacceptable thermal and mechanical damage/deterioration
6.10	Adequacy of cables for current carrying capacity with regard to the type and nature of installation
6.11	Adequacy of protective devices; type and rated current for fault protection
6.12	Presence and adequacy of circuit protective conductors
6.13	Co-ordination between conductors and overload protective devices
6.14	Cables installation methods/practices appropriate to the type and nature of installation and external influences
6.15	Cables where exposed to direct sunlight, of a suitable type
6.16	Cable installed under floors, above ceilings, in walls / partitions, adequately protected against damage <ul style="list-style-type: none"> • Installed in prescribed zones (see section D. Extend and Limitations) • Incorporating earth armour or sheath, or installed within earthed wiring system, or otherwise protected against mechanical damage by nails, screws and the like (see Section D. Extent and limitations)
6.17	Provision of additional protection by 30mA RCD <ul style="list-style-type: none"> • † For mobile equipment not exceeding a rating of 32A for use outdoors • † For all socket outlets of rating 20A or less, unless exempt • † For cables installed in walls / partitions at a depth of less than 50 mm • † For cables installed in walls / partitions containing metal parts regardless of depth
6.18	Provision of fire barriers, sealing arrangements and protection against thermal effects
6.19	Band II cables segregated/separated from Band I cables
6.20	Cables segregated/separated from non-electrical services
6.21	Termination of cables at enclosures (<i>identify numbers and locations of items inspected in Section D</i>) <ul style="list-style-type: none"> • Connections under no undue strain • No basic insulation of a conductor visible outside an enclosure • Connections of live conductors adequately enclosed • Adequacy of connection at point of entry to enclosure (<i>gland, bush or similar</i>)
6.22	General condition of wiring systems
6.23	Temperature rating of cable insulation
6.24	Condition of accessories including socket outlets, switches and joint boxes
6.25	Suitability of accessories for external influences
6.26	Single-pole switching or protective devices in line conductors only

† Note; older installations designed prior to BS 7671:2008 may not have been provided with RCD's for additional protection



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INSPECTION SCHEDULE FOR DISTRIBUTION BOARDS AND CIRCUITS CONTINUED...	
Item	Description
6.27	Adequacy of connections, including cpcs, within accessories and to fixed and stationary equipment - identify / record numbers and locations of items inspected
7.0	Isolation and switching
7.1	Isolators <ul style="list-style-type: none"> • presence and condition of appropriate devices • acceptable location • capable of being secured in the OFF position • correct operation verified • clearly identified by position and/or durable marking(s) • Warning label posted in situations where live parts cannot be isolated by the operation of a single device
7.2	Switching off for mechanical maintenance <ul style="list-style-type: none"> • presence and condition of appropriate devices • acceptable location • capable of being secured in the OFF position • correct operation verified • clearly identified by position and/or durable marking(s)
7.3	Emergency switching/stopping <ul style="list-style-type: none"> • presence and condition of appropriate devices • readily accessible for operation where danger might occur • correct operation verified • clearly identified by position and/or durable marking(s)
7.4	Functional switching <ul style="list-style-type: none"> • presence and condition of appropriate devices • correct operation verified
8.0	Current using equipment (permanently connected)
8.1	Condition of equipment in terms of IP rating
8.2	Equipment does not constitute a fire hazard
8.3	Enclosure not damaged/deteriorated so as to impair safety
8.4	Suitability for the environment and external influences
8.5	Security of fixing
8.6	Cables entry holes in ceiling above luminaries, sized or sealed so as to restrict the spread of fire (indicate extent of sampling in Section D of report)
8.7	Recessed luminaries (e.g. down lighters) <ul style="list-style-type: none"> • correct type of lamps fitted • installed to minimise build up of heat by use of 'fire rated' fittings, insulation displacement box or similar • no sign of overheating to surrounding building fabric • no sign of overheating to conductors/terminations
9.0	Location(s) containing a bath or shower
9.1	Additional protection by RCD not exceeding 30mA <ul style="list-style-type: none"> • For low voltage circuits serving the location • For low voltage circuits passing through Zone 1 and Zone 2 not serving the location
9.2	Where used as a protective measure, requirements for SELV or PELV are met
9.3	Shaver sockets comply with BS EN 61558-2-5 or BS 3535
9.4	Presence of supplementary bonding conductors unless not required by BS 7671:2008
9.5	Low voltage (e.g. 230 volts) socket outlets sited at least 3m from zone 1
9.6	Suitability of equipment for external influences for installed location on terms of IP rating
9.7	Suitability of equipment for installation in a particular zone
9.8	Suitability of current using equipment for a particular position within the location
10.0	Other special installations or locations
	List special locations present, if any. List the results of particular inspections applied, - a separate page is required for each location



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DEFECT LOG - VISUAL DEFECTS

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1-2	Church Building



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DEFECT LOG - VISUAL DEFECTS

The following visual defects were found;

Ref	Detail/Description	Code
	Church Building	
LW-01-17-1	Under Kitchen Sink Water Heater Junction Box: Junction box lid can be removed without use of a tool. Recommend junction box is replaced.	2
LW-01-17-2	Three DB's Under Stairs: DB's are of an old design. Recommend consideration is given to replacing them.	3
LW-01-17-3	Three DB's Under Stairs: Wiring is untidy. Recommend wiring is tidied / encased in trunking.	3
LW-01-17-4	Four Chandeliers: Metal lamp holders are not earthed (inaccessible). Lamp holders should be changed to plastic equivalents immediately.	1
LW-01-17-5	Four Chandeliers: Cables have been jointed in a connector block and taped over Recommend a junction box is installed.	2
LW-01-17-6	Switches and Sockets by Organ: Switches and sockets are untidy with many unused / unidentified circuits. Recommend unused circuits are removed and wiring is tidied.	3
LW-01-17-7	Heater by Organ: Heater is of an old design and does not have appropriate guarding. Recommend heater is removed or replaced.	2
LW-01-17-8	DB Behind Organ: DB is of an old design. Recommend consideration is given to replacing for a board meeting current standards.	3
LW-01-17-9	Wiring Below DB Behind Organ: Wiring is untidy. Recommend cables are tidied or enclosed in trunking.	3
LW-01-17-10	Switches and Sockets Throughout the Building: Various switches, sockets and light fittings are outdated. Recommend consideration is given to replacing old equipment.	3
LW-01-17-11	Boiler Controls Under Kitchen Stairs: There are unused switches and controllers in the cupboard. Recommend removing redundant equipment.	3
LW-01-17-12	Dividing Wall Under Gallery Right Hand Side Sockets: Socket is inaccessible as it is built in behind a wall. Recommend socket is relocated.	2
LW-01-17-13	Kitchen Wall Light Switch: Cables to light switch are not adequately installed and switch back box is not of appropriate type. Recommend installing cables in trunking and changing switch.	2
LW-01-17-14	Under Stairs Cupboard Boiler Switch Fuse: Switch fuse is redundant. Redundant switchgear should be removed.	3
LW-01-17-15	Reception Wall Thermostat: Redundant thermostat cover is damaged. Recommend removing redundant equipment.	2



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Ref	Detail/Description	Code
	Church Building Continued...	
LW-01-17-16	Cables Supplying Fluorescent Lights Under Gallery: Lights are wired in flex which has deteriorated with age and insulation is crumbling. Recommend supply cables are replaced.	2
LW-01-17-17	Junction Boxes and Cables Above Organ Keyboard: Junction boxes are accessible without use of a tool and cables aren't terminated within the junction box. Recommend junction boxes are replaced.	1
LW-01-17-18	Transformer Above Organ Keyboard: Redundant transformer has no IP2X shields below fuse carriers. Recommend redundant transformer is removed.	1
LW-01-17-19	Discus Start Stop Switch Rear of Organ: Cables are not terminated within the enclosure. Recommend a cable gland is installed.	2
LW-01-17-20	Junction Boxes in Attic Space: Various junction boxes are accessible without the use of a tool or are damaged and are filled with animal waste. Recommend changing junction boxes.	1
LW-01-17-21	Under Stairs Cupboard: There is no main isolation switch for the installation, disconnection is via individual consumer units. Recommend a main switch is installed at the origin of the installation.	3



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APPENDIX I

EXAMINATION AND TESTING OF ELECTRICAL EQUIPMENT

CIRCUIT TEST SCHEDULE

Page	Description
1	DB1
2	DB2
3	DB3
4	DB4



SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS FOR THE INSTALLATION



Site Name:	St Leonards Church
Site Address	Wolborough Street Newton Abbot

Location of distribution board:	Under Stairs Cupboard
Distribution board designation:	DB1
Supply to distribution board is from:	Meter
Overcurrent protection device for the distribution circuit:	Type (BS(EN)): 1361 Rating 100 A

No of phases:	1
Nominal Voltage:	230
Associated RCD (if any):	N/A
RCD No of Poles:	N/A
I _{Δn} :	N/A mA
Characteristics at this distribution board:	Zs At I _{Δn} N/A ms
	Ipf At 5I _{Δn} N/A ms

Test instruments (serial numbers) used:	
Earth fault loop impedance: T34	
Insulation Resistance: T34	
Continuity: T34	
RCD: N/A	
Multifunction: T34	
Other: N/A	

No	Circuit Designation	Type of Wiring	Reference * Method	Number of Points Served	Circuit Conductors: csa		Max Disconnection Time Permitted by BS 7671	Overcurrent Protective Devices			RCD Operating Current (mA)	Maximum Zs Permitted by BS 7671(Ω)	Circuit Impedances (Ω)			Insulation Resistance (MΩ)				RCD Operation Times										
					Live (mm ²)	cpc (mm ²)		BS (EN)	Type No	Rating (A)			Short-circuit Capacity (kA)	Ring Final Circuits Only (measure at least one column to be completed)	R ₁ (Phase)	R ₂ (Neutral)	R ₂ (cpc)	R ₁ +R ₂	R ₂	Phase/Phase (MΩ)	Phase/Neutral (MΩ)	Phase/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	Maximum measured earth fault loop impedance Z _s (Ω)	at I _{Δn} (ms)	at 5I _{Δn} (ms)	Test Button		
1	Supply to DB4 & Lights on Staircases	A	C	1	6	2.5	5	3036	/	30	10	N/A	2.51	N/A	N/A	N/A	N/A	N/A	10+	10+	10+	10+	✓	0.36	N/A	N/A	N/A	N/A	N/A	
2	Disconnected																													
3	Lights Gallery Left Side Pendants	A	C	5	1	1	0.4	3036	/	5	10	N/A	9.1	N/A	N/A	N/A	N/A	N/A	NT	0.44	0.44	0.44	✓	2.09	N/A	N/A	N/A	N/A	N/A	
4	Middle Pendant Lights	A	C	2	1	1	0.4	3036	/	5	10	N/A	9.1	N/A	N/A	N/A	Inaccessible	NT	0.43	0.43	0.43	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
5	Lights Gallery Right Side Pendants	A	C	6	1	1	0.4	3036	/	5	10	N/A	9.1	N/A	N/A	N/A	/	NT	0.42	0.42	0.42	✓	2.04	N/A	N/A	N/A	N/A	N/A	N/A	
6	Pendants Above Altar & Lights Under Gallery	A	C	2	1	1	0.4	3036	/	5	10	N/A	9.1	N/A	N/A	N/A	/	NT	0.45	0.45	0.45	✓	0.98	N/A	N/A	N/A	N/A	N/A	N/A	
7	Unknown	A	C	U/K	1	1	0.4	3036	/	5	10	N/A	9.1	N/A	N/A	N/A	/	NT	10+	10+	10+	✓	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8	Sockets On Gallery Above Stairs and Loft Light	A	C	2	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	N/A	/	NT	10+	10+	10+	✓	0.14	N/A	N/A	N/A	N/A	N/A	N/A	

A	PVC/PVC CABLES	B	PVC CABLES IN METALLIC CONDUIT	C	PVC CABLES NON METALLIC CONDUIT	D	PVC CABLES IN METALLIC TRUNKING	E	PVC CABLES IN NON METALLIC TRUNKING	F	PVC SWIA CABLES	G	XPLE/SWA CABLES	H	MINERAL INSULATED CABLES	J	OTHER
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Tested By:	
Signature:	<i>L. Webb</i>
Name:	L. Webb
Position:	Electrician
Date of Tested:	5th January 2017



SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS FOR THE INSTALLATION



Site Name: St Leonards Church
Site Address Wolborough Street Newton Abbot

Location of distribution board: Under Stairs Cupboard
Distribution board designation: DB2
Supply to distribution board is from: Meter
Overcurrent protection device for the distribution circuit: Type (BS(EN)): 1361
Rating 100 A

No of phases: 1
Nominal Voltage: 230
Associated RCD (if any): N/A
RCD No of Poles: N/A
I _{Δn} N/A mA
Characteristics at this distribution board: Zs 0.1 Ω At I _{Δn} N/A ms
Ipf 2.5 kA At 5I _{Δn} N/A ms

Test instruments (serial numbers) used:
Earth fault loop impedance: T34
Insulation Resistance: T34
Continuity: T34
RCD: N/A
Multifunction: N/A
Other: N/A

No	Circuit Designation	Type of Wiring	Reference Method *	Number of Points Served	Circuit Conductors: csa		Max Disconnection Time Permitted by BS 7671	Overcurrent Protective Devices			RCD Operating Current (mA)	Circuit Impedances (Ω)				Insulation Resistance (MΩ)				RCD Operation Times							
					Live (mm ²)	CPC (mm ²)		BS (EN)	Type No	Rating (A)		Short-circuit Capacity (kA)	Ring Final Circuits Only (measure at least one column to be completed)	R ₁ (Phase)	R ₂ (Neutral)	R ₂ (CPC)	R ₁ +R ₂	R ₂	Phase/Phase (MΩ)	Phase/Neutral (MΩ)	Phase/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	Maximum measured earth fault loop impedance Z _e (Ω)	at I _{Δn} (ms)	at 5I _{Δn} (ms)	
1	Sockets Main Hall Left Side Upstairs & Downstairs	A	C	7	2.5	1.5	0.4	3036	/	30	10	N/A	1.04	N/A	N/A	N/A	0.55	/	NT	10+	10+	10+	10+	✓	0.65	N/A	N/A
2	Sockets Main Hall Right Side Upstairs & Downstairs	A	C	7	2.5	1.5	0.4	3036	/	30	10	N/A	1.04	N/A	N/A	0.62	/	NT	8.42	10+	10+	10+	10+	✓	0.72	N/A	N/A
3	Gents Toilet Water Heater	A	C	1	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	2.03	/	NT	10+	10+	10+	10+	✓	2.13	N/A	N/A	
4	Kitchen Over Sink Water Heater	A	C	1	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	0.17	/	NT	10+	10+	10+	10+	✓	0.27	N/A	N/A	
5	Ladies Toilet Water Heater	A	C	1	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	0.64	/	NT	10+	10+	10+	10+	✓	0.74	N/A	N/A	
6	Kitchen Under Sink Water Heater	A	C	1	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	0.07	/	NT	10+	10+	10+	10+	✓	0.17	N/A	N/A	

A	PVC/PVC CABLES IN METALLIC CONDUIT	B	PVC CABLES IN METALLIC CONDUIT	C	PVC CABLES NON METALLIC CONDUIT	D	PVC CABLES IN METALLIC TRUNKING	E	PVC CABLES IN NON METALLIC TRUNKING	F	PVC SWA CABLES	G	XPLE/SWA CABLES	H	MINERAL INSULATED CABLES	J	OTHER
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Tested By:	Signature: <i>L. Webb</i>	Position: Electrician
Name: L. Webb	Date of Tested: 5th January 2017	



SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS FOR THE INSTALLATION



Site Name:	St Leonards Church
Site Address	Wolborough Street Newton Abbot

Location of distribution board:	Under Stairs Cupboard				
Distribution board designation:	DB3				
Supply to distribution board is from:	Meter				
Overcurrent protection device for the distribution circuit:	Type (BS(EN)):	1361	Rating	100	A

No of phases:	1				
Nominal Voltage:	230				
Associated RCD (if any):	N/A				
RCD No of Poles:	N/A				
I Δ n	N/A				
Characteristics at this distribution board:	Zs	0.1 Ω	At I Δ n	N/A	ms
	Ipf	2.5 kA	At 5I Δ r	N/A	ms

Test instruments (serial numbers) used:	
Earth fault loop impedance: T34	
Insulation Resistance: T34	
Continuity: T34	
RCD: N/A	
Multifunction: N/A	
Other: N/A	

No	Circuit Designation	Type of Wiring	Reference Method *	Number of Points Served	Circuit Conductors:		Max Disconnection Time Permitted by BS 7671	Overcurrent Protective Devices			RCD Operating Current (mA)	Circuit Impedances (Ω)				Insulation Resistance (M Ω)				RCD Operation Times							
					Live (mm ²)	cpc (mm ²)		BS (EN)	Type No	Rating (A)		Short-circuit Capacity (kA)	Operating Current (mA)	Ring Final Circuits Only (measure at least one column to be completed)	R ₁ (Phase)	r _n (Neutral)	r ₂ (cpc)	R ₁ +R ₂	R ₂	Phase/Phase (M Ω)	Phase/Neutral (M Ω)	Phase/Earth (M Ω)	Neutral/Earth (M Ω)	Polarity (\checkmark)	Maximum measured earth fault loop impedance Z _e (Ω)	at I Δ n (ms)	at 5I Δ n (ms)
1	Unknown	A	C	U/K	1	1	0.4	3036	/	5	10	N/A	9.93	N/A	N/A	N/A	N/A	N/A	10+	10+	10+	/	NT	N/A	N/A	N/A	N/A
2	Unknown	A	C	U/K	1	1	0.4	3036	/	5	10	N/A	9.93	N/A	N/A	N/A	N/A	N/A	10+	10+	10+	/	NT	N/A	N/A	N/A	N/A
3	Lights Under Gallery Left Side First Bay	A	C	2	1	1	0.4	3036	/	5	10	N/A	9.93	N/A	N/A	N/A	0.42	/	N/A	NT	1.2	1.2	\checkmark	0.52	N/A	N/A	N/A
4	Lights Under Gallery Right Side First Bay & Reception Lights	A	C	4	1	1	0.4	3036	/	5	10	N/A	9.93	N/A	N/A	N/A	0.63	/	N/A	NT	7.98	7.98	\checkmark	0.73	N/A	N/A	N/A
5	Kitchen & Toilet Lights	A	C	10	1	1	0.4	3036	/	5	10	N/A	9.93	N/A	N/A	N/A	0.67	/	N/A	NT	10+	10+	\checkmark	0.77	N/A	N/A	N/A
6	Reception Wall Sockets, Entrance Light & CCTV Power Supply	A	C	4	2.5	1.5	0.4	3036	/	15	10	N/A	2.43	N/A	N/A	N/A	0.52	/	N/A	7.3	1.18	1.16	\checkmark	0.62	N/A	N/A	N/A

A	PVC/PVC CABLES	B	PVC CABLES IN METALLIC CONDUIT	C	PVC CABLES NON-METALLIC CONDUIT	D	PVC CABLES IN METALLIC TRUNKING	E	PVC CABLES IN NON METALLIC TRUNKING	F	PVC SWA CABLES	G	XPLE/SWA CABLES	H	MINERAL INSULATED CABLES	J	OTHER
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Tested By:	
Signature:	<i>L. Webb</i>
Name:	L. Webb
Position:	Electrician
Date of Tested:	5th January 2017



SCHEDULE OF CIRCUIT DETAILS AND TEST RESULTS FOR THE INSTALLATION



Site Name:	St Leonards
Site Address	Wolborough Street Newton Abbot

Location of distribution board:	Behind Organ				
Distribution board designation:	DB4				
Supply to distribution board is from:	DB1				
Overcurrent protection device for the distribution circuit:	Type (BS(EN)):	3036	Rating	30	A

No of phases:	1				
Nominal Voltage:	230				
Associated RCD (if any):	N/A				
RCD No of Poles:	N/A				
I/Δn	N/A				
Characteristics at this distribution board:	Zs	0.21 Ω	At Δn	N/A	ms
	Ipf	1.98 kA	At 5IΔn	N/A	ms

Test instruments (serial numbers) used:	
Earth fault loop impedance: T34	
Insulation Resistance: T34	
Continuity: T34	
RCD: N/A	
Multifunction: T34	
Other: N/A	

No	Circuit Designation	Type of Wiring	Reference * Method	Number of Points Served	Circuit Conductors: csa		Max Disconnection Time Permitted by BS 7671	Overcurrent Protective Devices			RCD Operating Current (mA)	Circuit Impedances (Ω)				Insulation Resistance (MΩ)				RCD Operation Times									
					Live (mm ²)	CPC (mm ²)		BS (EN)	Type No	Rating (A)		Short-circuit Capacity (kA)	Ring Final Circuits Only (measure)	r ₁ (Phase)	r _n (Neutral)	r ₂ (CPC)	All Circuits (At least one column to be completed)	Phase/Phase (MΩ)	Phase/Neutral (MΩ)	Phase/Earth (MΩ)	Neutral/Earth (MΩ)	Polarity (✓)	Maximum measured earth fault loop impedance Z _s (Ω)	at I _{Δn} (ms)	at 5I _{Δn} (ms)				
1	Water Heater In Back Room	A	C	1	2.5	1.5	0.4	1361	1	15	10	N/A	2.43	N/A	N/A	N/A	0.17	/	N/A	10+	10+	10+	10+	✓	0.38	N/A	N/A	N/A	N/A
2	Sockets In Rear Rooms & Discuss Organ	A	C	4	2.5	1.5	0.4	1361	1	15	10	N/A	2.43	N/A	N/A	N/A	0.19	/	N/A	10+	10+	10+	10+	✓	0.4	N/A	N/A	N/A	N/A
3	Lights Over Organ	A	C	2	1.5	1	0.4	1361	1	5	10	N/A	9.93	N/A	N/A	N/A	0.57	/	N/A	10+	10+	10+	10+	✓	0.78	N/A	N/A	N/A	N/A
4	Lights Rear Rooms & Altar Spotlights	A	C	12	1.5	1	0.4	1361	1	5	10	N/A	9.93	N/A	N/A	N/A	0.34	/	N/A	10+	10+	10+	10+	✓	0.55	N/A	N/A	N/A	N/A

A	PVC/PVC CABLES	B	PVC CABLES IN METALLIC CONDUIT	C	PVC CABLES NON METALLIC CONDUIT	D	PVC CABLES IN METALLIC TRUNKING	E	PVC CABLES IN NON METALLIC TRUNKING	F	PVC SWA CABLES	G	XPLE/SWA CABLES	H	MINERAL INSULATED CABLES	J	OTHER
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Signature:	<i>L. Webb</i>
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