



**Electrical Installation  
Condition Report  
June 2012**

**Location:**

**Barrhill Community Centre**

**Certificate No 000000822**

# SOUTH AYRSHIRE COUNCIL

## PROPERTY & DESIGN SERVICES

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### ELECTRICAL INSTALLATION CONDITION REPORT

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IN ACCORDANCE WITH  
BS 7671 : 2008 (I.E.E. WIRING REGULATIONS) AS AMMENDED

PROPERTY : Barrhill Community Centre

DATE TESTED: June 2012

PERCENTAGE TESTED : Visual 100%      Physical 25%

CONDITION OF INSTALLATION (circle)

Poor

**Fair**

Average

Good

Very Good

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TESTING CARRIED OUT BY : John Tomkinson

TEST CERTIFICATE No 000000822

NEXT TEST DUE : June 2017

Office Copy

RECEIVED BY (Signature) ..... *Irene McCong* .....

PRINT NAME ..... *IRENE MCCONG* .....

DESIGNATION ..... *CLERICAL ASSISTANT* ..... DATE ..... *15/04/13* .....

FULL REPORT FILED WITH BOBBY McKEAN – TELEPHONE 01292 613065

Revision 2	PERIODIC INSPECTION TESTING	Date : April 2008
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# ELECTRICAL INSTALLATION CONDITION REPORT

00000822 - Master



<b>A. Details of the Client/Person Ordering the Report</b>		<b>B. Reason for Producing this Report</b>																					
Client: <input style="width: 90%;" type="text" value="South Ayrshire Council (2012)"/> Address: <input style="width: 90%;" type="text" value="McCalls Business Centre"/> <input style="width: 90%;" type="text" value="12 McCalls Avenue"/> <input style="width: 90%;" type="text" value="Ayr"/> <input style="width: 90%;" type="text" value="KA8 9AE"/>	Purpose of this report: <input style="width: 95%; height: 40px;" type="text" value="Periodic inspection and testing"/>  Date(s) on which Inspection: and testing was carried out <input style="width: 80%;" type="text" value="18/06/2012"/>																						
<b>C. Details of the Installation which is the Subject of this Report</b>																							
Installation: <input style="width: 90%;" type="text" value="Barrhill Community Centre"/> Occupier: <input style="width: 90%;" type="text" value="Occupier"/> Address: <input style="width: 90%;" type="text" value="Barrhill Community Centre"/> <input style="width: 90%;" type="text" value="Main Street"/> <input style="width: 90%;" type="text" value="Barrhill"/> <input style="width: 90%;" type="text" value="Girvin"/> <span style="float: right;">KA26 0PP</span>	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 33%; border-bottom: 1px solid black;">Description of premises:</td> <td style="width: 16.5%; border-bottom: 1px solid black; text-align: center;">Domestic <input type="checkbox"/> N/A</td> <td style="width: 16.5%; border-bottom: 1px solid black; text-align: center;">Commercial <input type="checkbox"/> N/A</td> <td style="width: 34%; border-bottom: 1px solid black; text-align: center;">Industrial <input type="checkbox"/> N/A</td> </tr> <tr> <td colspan="4">Other: <input style="width: 95%;" type="text" value="Community Centre"/></td> </tr> <tr> <td colspan="3">Estimated age of wiring system:</td> <td style="text-align: right;"><input style="width: 40px;" type="text" value="25"/> yrs</td> </tr> <tr> <td>Evidence of alterations or additions:</td> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>If yes estimated Age</td> <td style="text-align: right;"><input style="width: 40px;" type="text" value="5"/> yrs</td> </tr> <tr> <td colspan="3">Date of previous inspection:</td> <td style="text-align: right;"><input style="width: 100px;" type="text" value="06/12/2012"/></td> </tr> </table>			Description of premises:	Domestic <input type="checkbox"/> N/A	Commercial <input type="checkbox"/> N/A	Industrial <input type="checkbox"/> N/A	Other: <input style="width: 95%;" type="text" value="Community Centre"/>				Estimated age of wiring system:			<input style="width: 40px;" type="text" value="25"/> yrs	Evidence of alterations or additions:	<input checked="" type="checkbox"/>	If yes estimated Age	<input style="width: 40px;" type="text" value="5"/> yrs	Date of previous inspection:			<input style="width: 100px;" type="text" value="06/12/2012"/>
Description of premises:	Domestic <input type="checkbox"/> N/A	Commercial <input type="checkbox"/> N/A	Industrial <input type="checkbox"/> N/A																				
Other: <input style="width: 95%;" type="text" value="Community Centre"/>																							
Estimated age of wiring system:			<input style="width: 40px;" type="text" value="25"/> yrs																				
Evidence of alterations or additions:	<input checked="" type="checkbox"/>	If yes estimated Age	<input style="width: 40px;" type="text" value="5"/> yrs																				
Date of previous inspection:			<input style="width: 100px;" type="text" value="06/12/2012"/>																				
Record of Installation available: <input type="checkbox"/> N/A    Records held By: <input type="checkbox"/> N/A																							
<b>D. Extent and Limitations Inspection and Testing</b>																							
Extent of Electrical Installation covered by this report: <input style="width: 95%;" type="text" value="100% visual 25% circuits tested and readings recorded"/>		Agreed limitations including the reasons (See regulation 634.2) <input style="width: 95%;" type="text" value="Lighting circuits tested live &amp; neutral conductors combined to --See Additional Page--"/>																					
Operational Limitations including the reasons (See page No <input style="width: 40px;" type="text" value="N/A"/> ) <input style="width: 95%;" type="text" value="Unable to live test off peak supply at storage heaters. Unable to confirm supply fuse characteristics. No access to boilerhouse"/>		Agreed with name <input style="width: 90%;" type="text" value="Bobby McKean"/>																					
This inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS7671:2008 (IET Wiring Regulations) as amended to <input style="width: 80px;" type="text" value="July 2011"/> It should be noted that cables concealed within trunking and conduits, under floors, in roof spaces, and generally within the fabric of the building or underground, have NOT been inspected unless specifically agreed between the client and inspector prior to the inspection.																							
<b>E. Summary of the Condition of the Installation</b>		General condition of the installations (In terms of electrical safety)																					
<input style="width: 95%;" type="text" value="The installation was found to be in a fair condition for its age"/>																							
Overall assessment of the installation <input style="width: 80px;" type="text" value="Satisfactory"/>		*An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.																					
<b>F. Recommendations</b>																							
Where the overall assessment of the suitability of the installation for continued use above is stated as <b>SATISFACTORY</b> , I recommend that any observations classified as 'Danger present' (code C1) or 'Potentially dangerous (code C2) are acted upon as a matter of urgency Investigation without delay is recommended for observations identified as <i>'further investigation required'</i> Observation classified as 'Improvement recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken I recommend that the installation is further inspected and tested by <input style="width: 100px;" type="text" value="18/06/2017"/>																							
<b>G. Declaration</b>																							
I , being the person(s) responsible for the inspection and testing of the electrical installation (as indicated by My signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the inspection and testing, hereby declare that the information in this report, including the observations and attached schedules, provides an accurate assessment of the condition of the electrical installation taking into account the stated extent and limitations in section D of this report.																							
Trading Title and address <input style="width: 95%;" type="text" value="South Ayrshire Council, Property Maintenance &amp; Construction, 12 McCalls Avenue, Ayr, KA8 9AE"/>	SELECT Registration Number <input style="width: 100px;" type="text" value="20162"/>																						
Inspected and tested by: Name <input style="width: 150px;" type="text" value="John Tomkinson"/> Position <input style="width: 100px;" type="text" value="Approved Electrician"/> Signature <input style="width: 100px;" type="text" value="John Tomkinson"/> Date <input style="width: 100px;" type="text" value="10/04/2013"/> Report authorised for issue by: Name <input style="width: 150px;" type="text" value="John Neil"/> Position <input style="width: 100px;" type="text" value="Approved Electrician"/> Signature <input style="width: 100px;" type="text" value="John Neil"/> Date <input style="width: 100px;" type="text" value="10/04/2013"/>																							
<b>H. Schedule(s)</b> The attached schedule(s) are part of this document and this report is valid only when they are attached to it.																							
<input style="width: 40px;" type="text" value="0"/> Schedule(s) of inspection and <input style="width: 40px;" type="text" value="4"/> Schedule(s) of test results are attached																							

**I. Supply Characteristics and Earthing Arrangements**

Earthing Arrangements	Number and Type of Live Conductors				Nature of Supply Parameters			Supply protective device	
TN-S <input checked="" type="checkbox"/>	a.c. <input checked="" type="checkbox"/>			d.c. <input type="checkbox"/> N/A	Nominal Voltage $U^{(1)}$	400	V	BS(EN)	LIM
TN-C-S <input type="checkbox"/> N/A	1-Phase (2 wire) <input type="checkbox"/> N/A	1-Phase (3 wire) <input type="checkbox"/> N/A	2 Wire <input type="checkbox"/> N/A		Nominal Voltage $U_0^{(1)}$	230	V		
TN-C <input type="checkbox"/> N/A	2-Phase (3 wire) <input type="checkbox"/> N/A		3 Wire <input type="checkbox"/> N/A		Nominal frequency $f^{(1)}$	50	Hz	Type	N/A
TT <input type="checkbox"/> N/A	3-Phase (3 wire) <input type="checkbox"/> N/A	3-Phase (4 wire) <input checked="" type="checkbox"/>	Other <input type="checkbox"/> N/A		Prospective fault current $I_{pf}^{(2)}$	1.70	kA	Nominal current rating	LIM A
IT <input type="checkbox"/> N/A	Other <input type="checkbox"/> N/A				External loop impedance $Z_e^{(2)}$	0.13	$\Omega$	Short circuit capacity	N/A kA
Confirmation of supply polarity <input checked="" type="checkbox"/>				Number of supplies			1		
(Note: (1) by enquiry, (2) by enquiry or by measurement)									

**J. Particulars of Installation Referred to in the Report**

Means of earthing	Details of installation Earth Electrode (where applicable)			
Distributor's facility <input checked="" type="checkbox"/>	Type (e.g. rod(s), tape etc.)	N/A	Location	N/A
Installation earth electrode <input type="checkbox"/> N/A	Resistance to Earth	N/A $\Omega$	Method of measurement	N/A

**Main Protective Conductors** Tick boxes and enter details as applicable

Earthing Conductor	Material	Copper	csa	6	mm <sup>2</sup>	Connection and Continuity Verified	<input checked="" type="checkbox"/>
Main protective bonding conductors	Material	Copper	csa	6	mm <sup>2</sup>	Connection and Continuity Verified	<input checked="" type="checkbox"/>

**Bonding of Incoming Service**

Water <input checked="" type="checkbox"/>	Gas <input type="checkbox"/>	Lightning <input type="checkbox"/> N/A	Oil <input type="checkbox"/> N/A	Steel <input type="checkbox"/> N/A	Other <input type="checkbox"/> N/A	Please State	N/A	Maximum Demand (Load)	100 Amps
								Protective measure(s) against electric shock	ADS

**Main Switch / Switch-Fuse / Circuit-Breaker / RCD**

Location	Cupboard R005			Current rating	100	A	<b>if RCD main switch</b>	
BS(EN)	5419 Isolator			Fuse/Device rating or setting	100	A	Rated residual operation current, $I_{\Delta n}$	N/A mA
Supply Conductors material	Copper			Voltage rating	230	V	Rated time delay	N/A ms
	No of poles	2					RCD Operating time at, $I_{\Delta n}$	N/A ms
	Supply Conductors csa	25						

**K. Observations**

Referring to the attached schedule(s) of Inspection and Test Results, and subject to the limitations specified at the Extent and Limitations of the Inspection and testing section.

No remedial action is required.  N/A The following observations are made

Item No	Observations	Code	Further Investigation Required
1	No RCD protection for socket outlets or cables at a depth of 50mm or less	C3	No
2	DB 2 has fuses missing from carriers	C3	No
3	Twin socket is broken (replaced by test engineer)	N/A	No
4	3.0 EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54) 3.6 Confirmation of main protective bonding conductor sizes (544.1)	C3	No
--Observations continue on continuation sheet(s)--			

One of the following codes, as appropriate, has been allocated to each of the observations made above to indicate to the person(s) responsible for the installation the degree of urgency for remedial action.

C1 - Danger present. Risk of injury. Immediate remedial action required	0
C2 - Potentially dangerous - urgent remedial action required	0
C3 - Improvement recommended	7

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A	Further investigation required	Comments
Item No	Description											Outcome		
<b>1.0</b>	<b>DISTRIBUTOR'S / SUPPLY INTAKE EQUIPMENT</b>													
1.1	Service cable condition													
1.2	Condition of Service head													
1.3	Condition of tails - Distributor													
1.4	Condition of tails - Consumer											✓	No	No
1.5	Condition of metering equipment											✓	No	No
1.6	Condition of Isolator (where present)											✓	No	No
<b>2.0</b>	<b>PRESENCE OF ADEQUATE ARRANGEMENTS FOR OTHER SOURCES SUCH AS MICROGENERATORS (551.6; 551.7)</b>													
<b>3.0</b>	<b>EARTHING / BONDING ARRANGEMENTS (411.3; Chap 54)</b>													
3.1	Presence of distributor's earthing arrangement (542.1.2.1; 542.1.2.2)											N/A	No	No
3.2	Presence and condition of earth electrode connection where applicable (542.1.2.3)													
3.3	Provision of earthing / bonding labels at all appropriate locations (514.13.1)											✓	No	No
3.4	Confirmation of earthing conductor size (542.3; 543.1.1)											✓	No	No
3.5	Accessibility and condition of earthing conductor at MET (543.3.2)											✓	No	No
3.6	Confirmation of main protective bonding conductor sizes (544.1)											✓	No	No
3.7	Condition and accessibility of main protective bonding conductor connections (543.3.2; 544.1.2)											✓	No	No
3.8	Accessibility and condition of all protective bonding connections (543.3.2)											C3 (see section K)	No	No
<b>4.0</b>	<b>CONSUMER UNIT / DISTRIBUTION BOARD</b>													
4.1	Adequacy of working space / accessibility to consumer unit / distribution board (132.1.2; 513.1)											✓	No	No
4.2	Security of fixing (134.1.1)											✓	No	No
4.3	Condition of enclosure(s) in terms of IP rating etc (416.2)											✓	No	No
4.4	Condition of enclosure(s) in terms of fire rating etc (526.5)											✓	No	No
4.5	Enclosure not damaged/deteriorated so as to impair safety (621.2 (iii))											✓	No	No
4.6	Presence of linked main switch (as required by 537.1.4)											✓	No	No
4.7	Operation of main switch (functional check) (612.13.2)											✓	No	No
4.8	Manual operation of circuit-breakers and RCDs to prove disconnection (612.13.2)											✓	No	No
4.9	Correct identification of circuit details and protective devices (514.8.1; 514.9.1)											✓	No	No
4.10	Presence of RCD quarterly test notice at or near consumer unit / distribution board (514.12.2)											N/A	No	No
4.11	Presence of non-standard (mixed) cable colour warning notice at or near consumer unit / distribution board (514.14)											✓	No	No
4.12	Presence of alternative supply warning notice at or near consumer unit / distribution board											N/A	No	No
4.13	Presence of other required labelling (Please specify) (Section 514)											✓	No	No
4.14	Examination of protective device(s) and base(s); correct type and rating (no signs of unacceptable thermal damage, arcing and overheating (421.1.3)											N/A	No	No
4.15	Single-pole protective devices in line conductor only (132.14.1; 530.3.2)											✓	No	No
4.16	Protection against mechanical damage where cables enter consumer unit / distribution board (522.8.11)											✓	No	No
4.17	Protection against electromagnetic effects where cables enter consumer unit / distribution board (521.5.1)											✓	No	No
4.18	RCD(s) provided for fault protection - includes RCBOs (411.4.9; 411.5.2; 531.2)											✓	No	No
4.19	RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)											✓	No	No
<b>FINAL CIRCUITS</b>														
4.20	Identification of conductors (514.3.1)											C3 (see section K)	No	No
4.21	Cables correctly supported throughout their run (522.8.5)											C3 (see section K)	No	No
4.22	Condition of insulation of live parts (416.1)											✓	No	No
4.23												✓	No	No
4.24												✓	No	No

**CONDITION REPORT INSPECTION SCHEDULE FOR DOMESTIC AND SIMILAR PREMISES WITH UP TO 100A SUPPLY CONTINUED**

00000822 - Master

Note: this form is suitable for many types of smaller installations not exclusively domestic.

Outcomes	Acceptable condition	✓	Unacceptable condition	State C1 or C2	Improvement recommended	State C3	Not verified	N/V	Limitation	LIM	Not applicable	N/A	Notes		
Item No	Description											Outcome		Further investigation required	Comments
<b>5.0</b>	<b>FINAL CIRCUITS (Continued)</b>														
5.4	Non-sheathed cables protected by enclosure in conduit, ducting or trunking (521.10.1)											✓		No	No
5.4.1	To include the integrity of conduit and trunking systems (metallic and plastic)											✓		No	No
5.5	Adequacy of cables for current-carrying capacity with regard for the type and nature of installation (523)											✓		No	No
5.6	Co-ordination between conductors and overload protective devices (433.1; 533.2.1)											✓		No	No
5.7	Adequacy of protective devices; type and rated current for fault protection (411.3)											✓		No	No
5.8	Presence and adequacy of circuit protective conductors (411.3.1.1; 543.1)											✓		No	No
5.9	Wiring system(s) appropriate for the type and nature of the installation and external influences (522)											✓		No	No
5.10	Concealed cables installed in prescribed zones (see section D. extent and limitations) (522.6.101)											✓		No	No
5.11	Concealed cables incorporating earthed armour or sheath, or run within earthed wiring system, or otherwise protected against mechanical damage from nails, screws and the like (see section D. extent and limitations) (522.6.101; 522.6.103)											✓		No	No
5.12	Provision of additional protection by RCD not exceeding 30mA														
5.12.1	- for all socket-outlets of rating 20 A or less provided for use by ordinary persons unless exempt - (411.3.3)											N/A		No	No
5.12.2	- for supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)											C3 (see section K)		No	No
5.12.3	- for cables concealed in walls or partitions (522.6.102; 522.6.103)											C3 (see section K)		No	No
5.13	Provision of fire barriers, sealing arrangements and protection against thermal effects (527)											N/A		No	No
5.14	Band II Cables segregated / separated from Band I cables (528.1)											N/A		No	No
5.15	Cables segregated / separated from communications cabling (528.2)											N/A		No	No
5.16	Cables segregated / separated from non-electrical services (528.3)											N/A		No	No
5.17	Termination of cables at enclosures - indicate extent of sampling in Section D of the report (526)														
5.17.1	- Connections soundly made and under no undue strain (526.6)											✓		No	No
5.17.2	- No basic insulation of a conductor visible outside enclosure (526.8)											✓		No	No
5.17.3	- Connections of live conductors adequately enclosed (526.5)											✓		No	No
5.17.4	- Adequately connected at point of entry to enclosure (glands, bushes etc...) (522.8.5)											✓		No	No
5.18	Condition of accessories including socket-outlets, switches and joint boxes (621.2 (iii))											✓		No	No
9	Suitability of accessories for external influences (512.2)											✓		No	No
<b>6.0</b>	<b>LOCATION(S) CONTAINING A BATH OR SHOWER</b>														
6.1	Additional protection for all low voltage (LV) circuits by RCD not exceeding 30mA (701.411.3.3)											N/A		No	No
6.2	Where used as a protective measure, requirements for SELV or PELV met (701.414.4.5)											N/A		No	No
6.3	Shaver sockets comply with BS EN 61558-2-5 formally BS 3535 (701.512.3)											N/A		No	No
6.4	Presence of supplementary bonding conductors, unless not required by BS 7671: 2008 (701.415.2)											N/A		No	No
6.5	Low Voltage (e.g.230 volts) socket outlets at least 3m from Zone 1 (701.512.3)											N/A		No	No
6.6	Suitability of equipment for external influences for installed location in terms of IP rating (701.512.2)											N/A		No	No
6.7	Suitability of equipment for installation in a particular zone (701.512.3)											N/A		No	No
6.8	Suitability of current-using equipment for particular position within the location (701.55)											N/A		No	No
<b>7.0</b>	<b>OTHER PART 7 SPECIAL INSTALLATIONS OR LOCATIONS</b>														
7.1	List all other special installations or locations present, if any. (Record separately the results of particular inspections applied).								Number of locations	0			No	No	

**Inspected By**

Name: John Tomkinson

Date: 10/04/2013

Signature:



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 Cupboard R005	Supply to distribution board is from N/A
Distribution board designation DB Lighting/Power	No of phases N/A
	Nominal Voltage N/A V
	Overcurrent protective device for the distribution circuit Type BS(EN) N/A
	Rating N/A A
	Associated RCD (if any) BS(EN) N/A
	RCD No of Poles N/A
	RCD Rating N/A mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD Op. current I <sub>Δn</sub>	Max permitted Z <sub>s</sub> Ω
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	Type No	Rating A	Short circuit capacity kA		
1/L1	Sub Mains(DB 2)	A	C	1	10	6	5	3871 MCB	2	40	10	N/A	0.82
1/L2	Water heater R012	A	C	1	2.5	1.5	0.4	3871 MCB	2	20	10	N/A	1.64
1/L3	Water heater R002	A	C	1	2.5	1.5	0.4	3871 MCB	2	20	10	N/A	1.64
2/L1	Cooker R006	A	C	1	6	4	0.4	3871 MCB	2	30	10	N/A	1.09
2/L2	Sockets + fan + heater R005,R011	A	C	10	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
2/L3	Sockets backstage + R004	A	C	4	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
3/L1	Lights R005	A	C	12	1.5	1	0.4	3871 MCB	2	10	10	N/A	3.29
3/L2	Water heater	A	C	1	2.5	1.5	0.4	3871 MCB	2	10	10	N/A	3.29
3/L3	Lights R001,R002,R004,R006,R007	A	C	15	1.5	1	0.4	3871 MCB	2	10	10	N/A	3.29
4/TP	Sub Mains(DB Fan Heating Control)	E	A	1	2.5	1.5	0.4	3871 MCB	2	5	10	N/A	6.57
5/L1	Fan heater R006	A	C	1	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
5/L2	Sockets R006	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
5/L3	Fan heater R004	A	C	1	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
6/L1	Time clock fan + heaters	E	A	1	1.5	1	0.4	3871 MCB	2	5	10	N/A	6.57
6/L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L3	Sockets R005	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/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  Ω Operating times of associated RCD (if any) At I Δ n  ms  
 Ipf  kA At 5I Δ n  ms  
 Correct supply polarity confirmed  Phase sequence confirmed (where appropriate)

Earth fault loop impedance  RCD   
 Insulation resistance  Other   
 Continuity  Other

Details of circuits and/or equipment vulnerable to damage

N/A

Circuit Tests

Circuit number and phase	Circuit impedances Ω					Insulation resistance				polarity	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ n	At 5I Δ n	Test button operation	
	r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	(R <sub>1</sub> + R <sub>2</sub> )	(R <sub>2</sub> )	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L1											N/A	N/A	N/A	NO	
1/L2				0.18	n/a		200>	200>	200>	✓	0.37	N/A	N/A	N/A	NO
1/L3				0.15	n/a		200>	200>	200>	✓	0.39	N/A	N/A	N/A	NO
2/L1												N/A	N/A	N/A	NO
2/L2												N/A	N/A	N/A	NO
2/L3				0.68	n/a		200>	200>	200>	✓	0.41	N/A	N/A	N/A	NO
3/L1												N/A	N/A	N/A	NO
3/L2												N/A	N/A	N/A	NO
3/L3												N/A	N/A	N/A	NO
4/TP												N/A	N/A	N/A	NO
5/L1				0.20	n/a		200>	200>	200>	✓	0.48	N/A	N/A	N/A	NO
5/L2												N/A	N/A	N/A	NO
5/L3												N/A	N/A	N/A	NO
6/L1				0.41	n/a		Lim	200>	200>	✓	0.60	N/A	N/A	N/A	NO
6/L2															
6/L3												N/A	N/A	N/A	NO

Tested By

Signature

Position

Name

Date of testing



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 <b>Main hall R005</b>	Supply to distribution board is from <b>SubMains(DB Lighting/Power,</b>
Distribution board designation <b>DB Fan Heating Control</b>	No of phases <b>3</b> Nominal Voltage <b>400</b> V Overcurrent protective device for the distribution circuit Type BS(EN) <b>3871 MCB 2</b> Rating <b>5</b> A
	Associated RCD (if any) BS(EN) <b>N/A</b> RCD No of Poles <b>N/A</b> RCD Rating <b>N/A</b> mA

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I Δn	
1/L1	Storage heater fans R005	A	C	4	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67
1/L2	Storage heater fans R005	A	C	4	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67
1/L3	Storage heater fans R011	A	C	2	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67

Wiring Code								
A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/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  Ω     Operating times of associated RCD (if any)     At I Δ<sub>n</sub>  ms

Ipf  kA     At 5I Δ<sub>n</sub>  ms

Correct supply polarity confirmed      Phase sequence confirmed (where appropriate)

Earth fault loop impedance  RCD

Insulation resistance  Other

Continuity  Other

Details of circuits and/or equipment vulnerable to damage

None

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polar i t y	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/Live	Live/Neutral	Live/Earth	Earth/Neutral			At I Δ <sub>n</sub>	At 5I Δ <sub>n</sub>	Test button operation	
	r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	(R <sub>1</sub> + R <sub>2</sub> )	(R <sub>2</sub> )	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L1											N/A	N/A	N/A	NO	
1/L2				0.35	n/a		200>	200>	200>	✓	1.08	N/A	N/A	N/A	NO
1/L3											N/A	N/A	N/A	NO	

Tested By

Signature      Position

Name      Date of testing

**Board Details**

<b>TO BE COMPLETED IN EVERY CASE</b>	<b>ONLY TO BE COMPLETED IF THE DISTRIBUTION BOARD IS NOT CONNECTED DIRECTLY TO THE ORIGIN OF THE INSTALLATION</b>	
Location of Distribution Board <div style="border: 1px solid black; padding: 5px; display: inline-block;">Main hall R005</div>	Supply to distribution board is from <div style="border: 1px solid black; padding: 5px; display: inline-block;">SubMains(DB Lighting/Power,</div>	Associated RCD (if any) BS(EN) <div style="border: 1px solid black; padding: 5px; display: inline-block;">N/A</div>
Distribution board designation <div style="border: 1px solid black; padding: 5px; display: inline-block;">DB 2</div>	No of phases <div style="border: 1px solid black; padding: 5px; display: inline-block;">1</div> Nominal Voltage <div style="border: 1px solid black; padding: 5px; display: inline-block;">230</div> V	RCD No of Poles <div style="border: 1px solid black; padding: 5px; display: inline-block;">N/A</div>
	Overcurrent protective device for the distribution circuit Type BS(EN) <div style="border: 1px solid black; padding: 5px; display: inline-block;">3871 MCB 2</div> Rating <div style="border: 1px solid black; padding: 5px; display: inline-block;">40</div> A	RCD Rating <div style="border: 1px solid black; padding: 5px; display: inline-block;">N/A</div> mA

**Circuit Details**

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	Type No	Rating A	Short circuit capacity kA		
1/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
2/L1	Lights + fan R008,R009,R010	A	C	5	1.5	1	0.4	3871 MCB	2	5	10	N/A	6.57
3/L1	Heater R010	A	C	3	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
4/L1	Water heater R008	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
5/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

**Wiring Code**

A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/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	0.41 Ω	Operating times of associated RCD (if any)	At I Δ <sub>n</sub>	N/A	ms	Earth fault loop impedance	8835028 RCD 8835028
Ipf	0.57 kA		At 5I Δ <sub>n</sub>	N/A	ms	Insulation resistance	N/A Other N/A
Correct supply polarity confirmed	<input checked="" type="checkbox"/>	Phase sequence confirmed (where appropriate)		<input checked="" type="checkbox"/>		Continuity	8835028 Other N/A


**Details of circuits and/or equipment vulnerable to damage**

None

**Circuit Tests**

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polar i t y	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ <sub>n</sub>	At 5I Δ <sub>n</sub>	Test button operation	
	r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	(R <sub>1</sub> + R <sub>2</sub> )	(R <sub>2</sub> )	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2/L1												N/A	N/A	N/A	NO
3/L1				0.24	n/a		200>	200>	200>	✓	0.58	N/A	N/A	N/A	NO
4/L1												N/A	N/A	N/A	NO
5/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6/L1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

**Tested By**

Signature		Position	Approved Electrician
Name	John Tomkinson	Date of testing	18/06/2012

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	Hall cupboard R005	Supply to distribution board is from	N/A		Associated RCD (if any)
Distribution board designation	DB Heating	No of phases	N/A	Nominal Voltage	N/A V
		Overcurrent protective device for the distribution circuit			
		Type BS(EN)	N/A	Rating	N/A A
				BS(EN)	N/A
				RCD No of Poles	N/A
				RCD Rating	N/A mA

Circuit Details

Circuit number and phase	Circuit designation	Type of wiring	Reference method	No of points served	Circuit conductors csa		Max permitted disconnection times	Overcurrent protective device				RCD	Max permitted Zs Ω
					Live mm <sup>2</sup>	cpc mm <sup>2</sup>		BS(EN)	Type No	Rating A	Short circuit capacity kA	Op. current I <sub>Δn</sub>	
1/L1	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
1/L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
1/L3	Storage heater R011	A	C	1	6	2.5	0.4	60898 MCB	C	40	10	N/A	0.57
2/L1	Storage heater R0005	A	C	1	4	2.5	5	60898 MCB	C	32	10	N/A	0.72
2/L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
2/L3	Storage heater R011	A	C	1	6	2.5	0.4	60898 MCB	C	40	10	N/A	0.57
3/L1	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
3/L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
3/L3	Storage heater R002	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
4/L1	Storage heater R006	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
4/L2	Storage heater R012	A	C	1	4	2.5	0.4	60898 MCB	C	10	10	N/A	2.30
4/L3	Storage heater R004	A	C	1	2.5	1.5	0.4	60898 MCB	C	20	10	N/A	1.15
5/L1	Storage heater R009	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
5/L2	Storage heater R001	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
5/L3	Storage heater R004	A	C	1	2.5	1.5	0.4	60898 MCB	C	20	10	N/A	1.15
6/L1	Storage heater R010	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
6/L2	Storage heater R001	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
6/L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

Wiring Code

A	B	C	D	E	F	G	H	O
PVC/PVC cables	PVC cables in metallic conduit	PVC cables in non-metallic conduit	PVC cables in metallic trunking	PVC cables in non-metallic trunking	PVC/SWA cables	XLPE/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  Ω    Operating times of associated RCD (if any)    At I Δ<sub>n</sub>  ms

Ip<sub>f</sub>  kA    At 5I Δ<sub>n</sub>  ms

Correct supply polarity confirmed     Phase sequence confirmed (where appropriate)

Earth fault loop impedance  RCD

Insulation resistance  Other

Continuity  Other

Details of circuits and/or equipment vulnerable to damage

None

Circuit Tests

Circuit number and phase	Circuit Impedances Ω					Insulation resistance				polarit y	Maximum measured earth fault loop impedance Ω	RCD operating times			Remarks see continuation sheet
	Ring final circuits only (measure end to end)			All circuits (At least one column to be completed)		Live/ Live	Live/ Neutral	Live/ Earth	Earth/ Neutral			At I Δ <sub>n</sub>	At 5I Δ <sub>n</sub>	Test button operation	
	r <sub>1</sub> (Line)	r <sub>n</sub> (Neutral)	r <sub>2</sub> (cpc)	(R <sub>1</sub> + R <sub>2</sub> )	(R <sub>2</sub> )	MΩ	MΩ	MΩ	MΩ			ms	ms		
1/L1				0.04	n/a		200>	200>	200>	✓	0.28	N/A	N/A	N/A	NO
1/L2												N/A	N/A	N/A	NO
1/L3												N/A	N/A	N/A	NO
2/L1												N/A	N/A	N/A	NO
2/L2				0.03	n/a		200>	200>	200>	✓	0.27	N/A	N/A	N/A	NO
2/L3												N/A	N/A	N/A	NO
3/L1				0.26	n/a		200>	200>	200>	✓	0.50	N/A	N/A	N/A	NO
3/L2				0.11	n/a		200>	200>	200>	✓	0.35	N/A	N/A	N/A	NO
3/L3												N/A	N/A	N/A	NO
4/L1												N/A	N/A	N/A	NO
4/L2												N/A	N/A	N/A	NO
4/L3												N/A	N/A	N/A	NO
5/L1												N/A	N/A	N/A	NO
5/L2												N/A	N/A	N/A	NO
5/L3												N/A	N/A	N/A	NO
6/L1												N/A	N/A	N/A	NO
6/L2												N/A	N/A	N/A	NO
6/L3															

Tested By

Signature

Name

Position

Date of testing

Agreed limitations including the reasons, Continued. from page 1

earth. No insulation tests carried out between live and neutral conductors.

Dist Board heating maximum earth fault loop impedance calculated ( $R1+R2+Z_e$ )

## Observations Continued from Page 2

Item No	Description	Code	Further Investigation Required
5	4.0 CONSUMER UNIT / DISTRIBUTION BOARD 4.18 RCD(s) provided for fault protection – includes RCBOs (411.4.9; 411.5.2; 531.2)	C3	No
6	4.0 CONSUMER UNIT / DISTRIBUTION BOARD 4.19 RCD(s) provided for additional protection - includes RCBOs (411.3.3; 415.1)	C3	No
7	5.0 FINAL CIRCUITS 5.12.2 . for supply to mobile equipment not exceeding 32 A rating for use outdoors (411.3.3)	C3	No
8	5.0 FINAL CIRCUITS 5.12.3 . for cables concealed in walls or partitions (522.6.102; 522.6.103)	C3	No

**Code Key**

C1 - Danger present. Risk of injury. Immediate remedial action required

C2 - Potentially dangerous - urgent remedial action required

C3 - Improvement recommended



## CONDITION REPORT GUIDANCE NOTES FOR RECIPIENTS

**This report is an important and valuable document which should be retained for future reference.**

1. The purpose of this Condition Report is to confirm, so far as reasonably practicable, whether or not the electrical installation is in a satisfactory condition for continued service (see Section E). The Report should identify any damage, deterioration, defects and/or conditions which may give rise to danger (see Section K).
2. The person ordering the Report should have received the original Report and the inspector should have retained a duplicate.
3. The original Report should be retained in a safe place and be made available to any person inspecting or undertaking work on the electrical installation in the future. If the property is vacated, this Report will provide the new owner /occupier with details of the condition of the electrical installation at the time the Report was issued.
4. Where the installation incorporates residual current devices (RCD) there should be a notice at or near the device stating that it should be tested quarterly. For safety reasons it is important that this instruction is followed.
5. Section D (Extent and Limitations) should identify fully the extent of the installation covered by this Report and any limitations on the inspection and testing. The inspector should have agreed these aspects with the person ordering the Report and with other interested parties (licensing authority, insurance company, mortgage provider and the like) before the inspection was carried out.
6. Some operational limitations such as such as inability to gain access to parts of the installation or an item of equipment may have been encountered during the inspection. The inspector should have noted these in Section D.
7. For items classified in Section K as C1 ("Danger Present"), the safety of those using the installation is at risk, and it is recommended that a competent person undertakes the necessary remedial work immediately.
8. For items classified in Section K as C2 ("Potentially Dangerous"), the safety of those using the installation may be at risk and it is recommended that a competent person undertakes the necessary remedial work as a matter of urgency.
9. Where it has been stated in Section K that an observation requires further investigation the inspection has revealed an apparent deficiency which could not, due to the extent or limitations of this inspection, be fully identified. Such observations should be investigated as soon as possible. A further examination of the installation will be necessary, to determine the nature and extent of the apparent deficiency (see Section F).
10. For safety reasons, the electrical installation should be re-inspected at appropriate intervals by a competent person. The recommended date by which the next inspection is due is stated in Section F of the Report under 'Recommendations' and on a label at or near to the consumer unit / distribution board.

# Circuit Chart

## Board - DB Lighting/Power



<b>Client Name</b>	South Ayrshire Council (2012)	<b>Installation Name</b>	Barrhill Community Centre	<b>Board Phase(s)</b>	Three Phase
<b>Location of board</b>	Cupboard R005	<b>Supplied from</b>	Main Supply	<b>Nominal Voltage</b>	400 V
<b>Overcurrent Device</b>	N/A	<b>Rating</b>	N/A	<b>RCD No Of Poles</b>	N/A
<b>RCD Device</b>	N/A	<b>Rating</b>	N/A		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device			Maximum Zs permitted by BS7671 (Ω)		
						Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )		BS(EN)	Type No	Rating (A)		Short Circuit Capacity (kA)	RCD Operating Current (mA)
1	L1	Sub Mains(DB 2)	A	C	1	10	6	5	3871 MCB	2	40	10	N/A	0.82
1	L2	Water heater R012	A	C	1	2.5	1.5	0.4	3871 MCB	2	20	10	N/A	1.64
1	L3	Water heater R002	A	C	1	2.5	1.5	0.4	3871 MCB	2	20	10	N/A	1.64
2	L1	Cooker R006	A	C	1	6	4	0.4	3871 MCB	2	30	10	N/A	1.09
2	L2	Sockets + fan + heater R005,R011	A	C	10	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
2	L3	Sockets backstage + R004	A	C	4	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
3	L1	Lights R005	A	C	12	1.5	1	0.4	3871 MCB	2	10	10	N/A	3.29
3	L2	Water heater	A	C	1	2.5	1.5	0.4	3871 MCB	2	10	10	N/A	3.29
3	L3	Lights R001,R002,R004,R006,R007	A	C	15	1.5	1	0.4	3871 MCB	2	10	10	N/A	3.29
4	TP	Sub Mains(DB Fan Heating Control)	E	A	1	2.5	1.5	0.4	3871 MCB	2	5	10	N/A	6.57
5	L1	Fan heater R006	A	C	1	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
5	L2	Sockets R006	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
5	L3	Fan heater R004	A	C	1	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
6	L1	Time clock fan + heaters	E	A	1	1.5	1	0.4	3871 MCB	2	5	10	N/A	6.57
6	L2	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6	L3	Sockets R005	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09

# Circuit Chart Board - DB 2



<b>Client Name</b>	South Ayrshire Council (2012)	<b>Installation Name</b>	Barrhill Community Centre	<b>Board Phase(s)</b>	L1
<b>Location of board</b>	Main hall R005	<b>Supplied from</b>	1/L1 DB Lighting/Power	<b>Nominal Voltage</b>	230 V
<b>Overcurrent Device</b>	3871 MCB	<b>Rating</b>	40 A	<b>RCD No Of Poles</b>	N/A
<b>RCD Device</b>	N/A	<b>Rating</b>	N/A mA		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device			Maximum Zs permitted by BS7671 (Ω)		
						Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )		BS(EN)	Type No	Rating (A)		Short Circuit Capacity (kA)	RCD Operating Current (mA)
1	L1	SPARE	-	-	-	-	-	-	-	-	-	-		
2	L1	Lights + fan R008,R009,R010	A	C	5	1.5	1	0.4	3871 MCB	2	5	10	N/A	6.57
3	L1	Heater R010	A	C	3	2.5	1.5	0.4	3871 MCB	2	15	10	N/A	2.19
4	L1	Water heater R008	A	C	2	2.5	1.5	0.4	3871 MCB	2	30	10	N/A	1.09
5	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-
6	L1	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

# Circuit Chart

## Board - DB Heating



<b>Client Name</b>	South Ayrshire Council (2012)	<b>Installation Name</b>	Barrhill Community Centre	<b>Board Phase(s)</b>	Three Phase
<b>Location of board</b>	Hall cupboard R005	<b>Supplied from</b>	Main Supply	<b>Nominal Voltage</b>	400 V
<b>Overcurrent Device</b>	N/A	<b>Rating</b>	N/A	<b>RCD No Of Poles</b>	N/A
<b>RCD Device</b>	N/A	<b>Rating</b>	N/A		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device			Maximum Zs permitted by BS7671 (Ω)		
						Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )		BS(EN)	Type No	Rating (A)		Short Circuit Capacity (kA)	RCD Operating Current (mA)
1	L1	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
1	L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
1	L3	Storage heater R011	A	C	1	6	2.5	0.4	60898 MCB	C	40	10	N/A	0.57
2	L1	Storage heater R0005	A	C	1	4	2.5	5	60898 MCB	C	32	10	N/A	0.72
2	L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
2	L3	Storage heater R011	A	C	1	6	2.5	0.4	60898 MCB	C	40	10	N/A	0.57
3	L1	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
3	L2	Storage heater R005	A	C	1	4	2.5	0.4	60898 MCB	C	32	10	N/A	0.72
3	L3	Storage heater R002	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
4	L1	Storage heater R006	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
4	L2	Storage heater R012	A	C	1	4	2.5	0.4	60898 MCB	C	10	10	N/A	2.30
4	L3	Storage heater R004	A	C	1	2.5	1.5	0.4	60898 MCB	C	20	10	N/A	1.15
5	L1	Storage heater R009	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
5	L2	Storage heater R001	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
5	L3	Storage heater R004	A	C	1	2.5	1.5	0.4	60898 MCB	C	20	10	N/A	1.15
6	L1	Storage heater R010	A	C	1	2.5	1.5	0.4	60898 MCB	C	10	10	N/A	2.30
6	L2	Storage heater R001	A	C	1	4	2.5	0.4	60898 MCB	C	16	10	N/A	1.44
6	L3	SPARE	-	-	-	-	-	-	-	-	-	-	-	-

# Circuit Chart

## Board - DB Fan Heating Control



<b>Client Name</b>	South Ayrshire Council (2012)	<b>Installation Name</b>	Barrhill Community Centre	<b>Board Phase(s)</b>	Three Phase
<b>Location of board</b>	Main hall R005	<b>Supplied from</b>	4/TP DB Lighting/Power	<b>Nominal Voltage</b>	400 V
<b>Overcurrent Device</b>	3871 MCB	<b>Rating</b>	5 A	<b>RCD No Of Poles</b>	N/A
<b>RCD Device</b>	N/A	<b>Rating</b>	N/A mA		

Way	Phase	Circuit Name	Wiring type	Reference Method	No of points served	Circuit Conductor CSA		Maximum Disconnection time permitted by BS 7671 (s)	Overcurrent Protective Device			Maximum Zs permitted by BS7671 ( $\Omega$ )		
						Live (mm <sup>2</sup> )	cpc (mm <sup>2</sup> )		BS(EN)	Type No	Rating (A)		Short Circuit Capacity (kA)	RCD Operating Current (mA)
1	L1	Storage heater fans R005	A	C	4	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67
1	L2	Storage heater fans R005	A	C	4	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67
1	L3	Storage heater fans R011	A	C	2	1.5	1	0.4	60898 MCB	B	6	10	N/A	7.67

Comments on report  
N/A

BARRHILL COMMUNITY CENTRE

