

Switch Electrics

68 Olive Road, Costessey, Norwich, NR5 0AP

07919513891 email: enquiries@switchelectrics.co.uk

Date: feb 2014

Elecsa condition report no. 323

Recommendations for works required after test and inspection at Mervyn Lambert Plant;

Observation	classification code
General; stickers and warning labels required throughout.	C3
Screws missing on distribution board covers.	C2
Some metallic buildings not earthed or bonded.	C2
Blanks missing from some dbs ip 22 not achieved.	C2
Voltage drop throughout site 248 – 221 volts	C3
Some buildings or equipment require emergency stops.	C2
Lots of flo tubes out	C3
Air con units in offices all off one supply	C3
Distribution board 1:	
Socket near fire door broken, terminal arching	C1
Emergency light requires replacing	C3
DB 2;	
Socket cover missing	C2
Faulty socket by roller door (circuit 14)	C3
Socket and plug covered in oil by db room	C1
No earth continuity on sockets (circuit 14)	C2
DB 3;	
Socket behind oil hoses require blanking off	C2
2 x damaged lenses on pitt lights 5ft	C2
230 volt socket outlets in pitt	C2
DB 4;	
3phase mcb for compressor – 1 phase circuit	C3
Supply to cabin DB fed off main switch – no protection	C1
DB 5;	
Socket very close to kitchen sink	C3
No rcd protection to first 4 circuits	C3
DB 6;	
Sub board for diesel pump has no ip protection – outside	C2
DB 8;	
Db housing broken so no ip rating	C2
DB 9;	

CONDITION REPORT

GUIDANCE FOR RECIPIENTS

(to be appended to the Report)

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 M).
- 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 (RCDs) there should be a notice at or near the devices stating that they should be tested regularly. **For safety reasons it is important that these instructions are 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 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 near to the consumer unit / distribution board.

CONDITION REPORT

GUIDANCE FOR THE INSPECTOR

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

- 1 Section 1. Where inadequacies in the distributor's equipment are present, the inspector should advise the person ordering the work to inform the appropriate authority.
- 2 Older installations designed prior to BS 7671:2008 are unlikely to have been provided with RCDs for additional protection. The absence of such protection should, as a minimum, be given a code C3 classification (item 5.12).
- 3 This schedule is not exhaustive.
- 4 Numbers in brackets are Regulation references to specified requirements.

ELECTRICAL INSTALLATION CONDITION REPORT

Certificate number: **00323**

Registration number: **32674** (optional)

Sheet **1** of **1**

SECTION A: DETAILS OF THE CLIENT / PERSON ORDERING THE REPORT

Name **MERVYN LAMBERT PLANT HIRE** Address **MILL POND FARM, GARBOLDISHAM**
NORFOLK IP22 2SP

SECTION B: REASON FOR PRODUCING THIS REPORT

PERIOD / INSURANCE
Date(s) on which inspection and testing was carried out **FEB 2014**

SECTION C: DETAILS OF THE INSTALLATION WHICH IS THE SUBJECT OF THIS REPORT

Occupier **MERVYN LAMBERT PLANT HIRE**
Address **AS ABOVE**
Description of premises (tick as appropriate)
Domestic Commercial Industrial Other (include brief description) _____
Estimated age of wiring system **15-20** years
Evidence of additions / alterations Yes No Not apparent If yes, estimate age **2-4** years
Installation records available? (Regulation 621.1) Yes No Date of last inspection **-** (date)

SECTION D: EXTENT AND LIMITATIONS OF INSPECTION AND TESTING

Extent of electrical installation covered by this report **FIXED WIRING AND EQUIPMENT TO DATE - NO PORTABLE APPLIANCES / HIDDEN JOINTS**
Agreed limitations including the reasons (see Regulation 634.2) *****

Agreed with: **MR LAMBERT**
Operational limitations including the reasons (see page no. _____) _____
The inspection and testing detailed in this report and accompanying schedules have been carried out in accordance with BS 7671:2008 (IET Wiring Regulations) as amended to **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 inspection.

SECTION E: SUMMARY OF THE CONDITION OF THE INSTALLATION

General condition of the installation (in terms of electrical safety) **SOME REMEDIAL AND IMPROVEMENT WORKS REQUIRED. ELECTRICALLY OK.**
Overall assessment of the installation in terms of its suitability for continued use **SATISFACTORY / UNSATISFACTORY** * (delete as appropriate).
* An unsatisfactory assessment indicates that dangerous (code C1) and/or potentially dangerous (code C2) conditions have been identified.

SECTION F: RECOMMENDATIONS

Where the overall assessment of the suitability of the installation for continued use above is stated as UNSATISFACTORY, I/we recommend that any observations classed 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 'Further investigation required'. Observations classified as 'Improvements recommended' (code C3) should be given due consideration. Subject to the necessary remedial action being taken, I/we recommend that the installation is further inspected and tested by **3 YEARS MAX** (date).

SECTION 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, 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 the 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.

Inspected and tested by:

Name (CAPITALS): **S. MASON**
Signature: _____
For/on behalf of: **SWITCH ELECTRICS**
Position: **DIRECTOR**
Address: **68 OLIVE RD NORWICH**
NRS OAP Date: **20/02/14**

Report authorised for issue by:

Name (CAPITALS): _____
Signature: _____
For/on behalf of: **SWITCH ELECTRICS**
Position: _____
Address: _____
Date: **20/02/14**

SECTION H: SCHEDULE(S)

_____ schedule(s) of inspection and _____ schedule(s) of test results are attached. The attached schedule(s) are part of this document and this report is valid only when they are attached to it.

ELECTRICAL INSTALLATION CONDITION REPORT

SECTION I: SUPPLY CHARACTERISTICS AND EARTHING ARRANGEMENTS

Earthing arrangements	Number and type of live conductors	Nature and type of supply parameters	Supply protective device
TN-C <input type="checkbox"/>	a.c. <input checked="" type="checkbox"/> d.c. <input type="checkbox"/>	Nominal voltage, $U / U_0^{(1)}$ 400 V	BS (EN) See Dno
TN-S <input type="checkbox"/>	1-phase, 2 wire <input type="checkbox"/> 2-wire <input type="checkbox"/>	Nominal frequency, $f^{(1)}$ 50 Hz	Type.....
TN-C-S <input checked="" type="checkbox"/>	2-phase, 3 wire <input type="checkbox"/> 3-wire <input type="checkbox"/>	Prospective fault current, $I_{pf}^{(2)}$ 5.7 kA	Rated current..... A
TT <input type="checkbox"/>	3-phase, 3 wire <input type="checkbox"/>	External loop impedance, $Z_e^{(2)}$ 0.08 Ω	
IT <input type="checkbox"/>	3-phase, 4 wire <input checked="" type="checkbox"/>	Note: (1) by enquiry. (2) by enquiry or measurement	
	Confirmation of supply polarity <input checked="" type="checkbox"/>		

Other sources of supply (as detailed on attached schedule) NA

SECTION J: PARTICULARS OF INSTALLATION REFERRED TO IN REPORT

Means of earthing	Details of Earth Electrode (where applicable)
Distributor's facility <input checked="" type="checkbox"/>	Type.....
Installation earth electrode <input type="checkbox"/>	Location..... NA
	Resistance to earth..... Ω

Main protective conductors

Earthing conductor	Material Copper	Csa 25 mm ²	Connection/continuity verified <input checked="" type="checkbox"/>
Main protective bonding conductors	Material Copper	Csa mm ²	Connection/continuity verified <input type="checkbox"/>
To incoming water service <input type="checkbox"/>	To incoming gas service <input type="checkbox"/>	To incoming oil service <input type="checkbox"/>	To structural steel <input type="checkbox"/>
To lightning protection <input type="checkbox"/>	To other incoming service(s) <input type="checkbox"/>	Specify	

Main switch / switch fuse / circuit breaker / RCD

Location: MAIN WORKSHOP	Current rating: 45 225 A	If RCD main switch
BS (EN) ... 6094	Fuse / device rating or setting: 400/225 A	Rated residual operating current ($I_{\Delta n}$)..... mA
No. of poles: 3	Voltage rating: 415 V	Rated time delay..... ms
		Measured operating time (at $I_{\Delta n}$)..... ms

SECTION K: OBSERVATIONS

Referring to the attached schedules of inspection and test results, and subject to the limitations specified in the *Extent and Limitations of Inspection and testing section*

No remedial action is required The following observations are made: (See below)

Observation(s)	Classification code	Further investigation required (YES/NO)
SEE ATTACHED SHEET		YES

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

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

Use additional form if required

SCHEDULE OF INSPECTIONS

NOTES:

to indicate an inspection has been carried out and the result is satisfactory
 N/A to indicate that the inspection is not applicable to a particular item

NOTE - Items on the right are seldom relevant in a domestic setting

Sheet _____ of _____

METHODS OF PROTECTION AGAINST ELECTRIC SHOCK

PREVENTION OF MUTUAL DETRIMENTAL INFLUENCE

CABLES AND CONDUCTORS (continued)

ADDITIONAL SCHEDULE OF ITEMS INSPECTED (where applicable)

Basic protection:

- (i) Insulation of live parts
- (ii) Barriers or enclosures

Fault protection:

(i) Automatic disconnection of supply:

- Presence of earthing conductor

- Presence of circuit protective conductors

- Presence of protective bonding conductors

- Presence of supplementary bonding conductors

- Choice of setting of protective and monitoring devices (for fault and/or overcurrent protection)

Additional protection:

- Presence of residual current device(s)
- Presence of supplementary bonding conductors

- (a) Proximity to non-electrical services and other influences

- (b) Segregation of Band I and Band II circuits or use of Band II insulation

IDENTIFICATION

- (a) Presence of diagrams, instructions, circuit charts and similar information

- (b) Presence of danger notices and other warning notices

- (c) Labelling of protective devices, switches and terminals

- (d) Identification of conductors

CABLES AND CONDUCTORS

- Selection of conductors for current-carrying capacity and voltage drop

- Erection methods

- Routing of cables in prescribed zones

- Cables incorporating earthed armour or sheath, or run within an earthed wiring system, or otherwise adequately protected against nails, screws and the like

- Additional protection provided by 30 mA RCD for cables concealed in walls (where required in premises not under the supervision of a skilled or instructed person)

- Connection of conductors

- Presence of fire barriers, suitable seals and protection against thermal effects

GENERAL

- Presence of correct location of appropriate devices for isolation and switching

- Adequacy of access to switchgear and other equipment

- Particular protective measures for special installations and locations

- Connection of single-pole devices for protection or switching in line conductors only

- Correct connection of accessories and equipment

- Selection of equipment and protective measures appropriate to external influences

- Selection of appropriate functional switching devices

- SELV

- PELV

- Double insulation

- Reinforced insulation

- Obstacles

- Placing out of reach

- Presence of earthing arrangements for combined protective and functional purposes

- Presence of adequate arrangements for alternative source(s), where applicable

- FELV

- Absence of protective conductors

- Presence of earth-free local equipotential bonding

- Electrical separation provided for one item of current-using equipment

- Electrical separation provided for more than one item of current-using equipment

- Segregation of safety circuits

- Presence of undervoltage protective devices

SCHEDULE OF TEST RESULTS

Sheet of



DB Reference no. **DB1**
 Location **Workshop**
 Zs at DB (Ω) **0.08**
 I_{pr} at DB (kA)
 Correct polarity of supply confirmed **YES** / NO
 Phase sequence confirmed (Where appropriate) **Y**

Details of circuits and/or installed equipment vulnerable to damage when testing
CHECK ALL MACHINERY

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (CAPITALS)
 Signature Date

Test results

Circuit details		Overcurrent device					Conductor details					Test results										Remarks (continue on a separate sheet if necessary)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ +R ₂) [*]	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _n	@5I _n	Test button operation		
1+2	PHONE SYSTEM	61009	2C	20	10		2.5	2.5	0.53	0.55	0.58	0.21		∞	∞	✓	0.26	33	18	✓	30mA	
3+4	WILSHOP SOCKETS	RC80	C	32	10		2.5	2.5	0.19	0.14	0.14	0.14		∞	∞	✓	0.61	29	18	✓	30mA	
5+6	WILSHOP SOCKETS	RC80	C	32	10		6.0	4	0.14	0.14	0.14	0.14		∞	∞	✓	0.29	21	14	✓	30mA	
7	WILSHOP LIGHTS	60928	B	20	10		2.5	1.5	0.14	0.14	0.14	0.14		∞	∞	✓					CAMPS NOT OUT	
8	OFFICE LIGHTS	60928	D	20	10		2.5	1.5	0.14	0.14	0.14	0.14		∞	∞	✓						
9	WILSHOP LIGHTS		C	10	10		1.5	1.5	0.14	0.14	0.14	0.14		∞	∞	✓						
10	EMERGENCY LIGHTS		B	6	5		1.5	1.5	0.14	0.14	0.14	0.14		∞	∞	✓						
11	SOCKET OFFICE OF WILSHOP	61009	C	10	10	SWA	1.5	1.5	0.39	0.39	0.39	0.39		∞	∞	✓					30mA	
12	OFFICE BLOCK	60928	D	63	10	SWA	2.5	2.5	0.48	0.48	0.48	0.48		∞	∞	✓					30mA	
13	SMALL TOOL WILSHOP		D	63	10	SWA	2.5	2.5	0.16	0.16	0.16	0.16		∞	∞	✓						
14	WILSHOP UNIT DB5		C	63	10		2.5	1.6	0.21	0.21	0.21	0.21		∞	∞	✓						
15	1 Post Lift WARE		D	20	10	SWA	2.5	1.5	0.53	0.53	0.53	0.53		∞	∞	✓					5C AEM.	
16	2 Post Lift FAIR		C	20	10	SWA	2.5	1.5	0.56	0.56	0.56	0.56		∞	∞	✓						
17	WILSHOP ON POST	RC90	C	32	10		6.0	6.0	0.34	0.34	0.34	0.34		∞	∞	✓					30mA	
18	TYPES REMOVAL		C	10	10		1.5	1.5	1.04	1.04	1.04	1.04		∞	∞	✓					N USED AS CPC	

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

E L E C A
Part of the ECA Group

Distribution Board Reference: **DB1**

Cont. Pa. 2

Test results

Circuit details		Overcurrent device		Conductor details		Ring final circuit continuity (Ω)		Continuity (Ω) ($R_1 + R_2$) or R_2	Insulation resistance (M Ω)	Polarity	Z_s (Ω)	RCD (ms)	Test button operation	Remarks (continue on a separate sheet if necessary)							
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r_1 (line)	r_n (neutral)	r_2 (cpc)	($R_1 + R_2$) [*]	R_2	Live - Live	Live - E	\checkmark	\square	@ 5 ⁿ	@ 5 ^{1/3} n		
31-33	WASH BAY (DB3)	60898	C	40	10		10	10				0.142		Nil	Nil	\checkmark	0.57				
34-35	Large W/Shop		C	63	10		25	25				0.38		Nil	Nil	\checkmark	0.144				
	Workshop Office DB		From	Large W/Shop		(DB2)															
1	Sockets	60898	B	32	6		2.5	1.5	0.144	0.144	0.163	0.31		Nil	Nil	\checkmark	0.149				
	Sockets		B	32	6		2.5	1.5	0.141	0.139	0.164	0.33		150	Nil	\checkmark	0.148				
	FAN A/C		B	16	6		2.5	1.5				0.37		Nil	Nil	\checkmark	0.146				
	NEAR A/C		B	16	6		2.5	1.5				0.119		Nil	Nil	\checkmark	2.43				
	LIGHTS		B	6	6		1.0	1.0				0.184			100 ⁺	\checkmark	25.0				

* Where there are no spurs connected to a ring final circuit this value is also the ($R_1 + R_2$) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

E L E C A

Part of the ECA Group

Distribution Board Reference: **DB2 - LARGE W/SHOP**

63A 30MA M/S

Ze = 0.109 Zs = R

DFC = 2.15kA

25mm

Circuit details

Overcurrent device

Conductor details

Test results

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) [*]	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@1 ⁿ	@51 ⁿ	Test button operation	Remarks (continue on a separate sheet if necessary)	
1+2+3	W/1 OVER DOORS		C	20	10		2.5	1.5				0.33		∞	∞	✓	0.34	17	7.5	✓		
4+5+6	COMPRESSOR		C	32	10		6	6				0.17		∞	∞	✓	No NEUTRAL					
7+8+9	No.16 3PH OUTLET		C	32	10		6	6				0.61		∞	∞	✓	No N					
10+11+12	No.33 3PH OUTLET		C	32	10		6	4				0.31		∞	∞	✓	No N					
13	OFFICE CABINUS DB		B	32	10		6	6				0.45		∞	∞	✓	0.53					
14	INT'R HTR		B	16	10		2.5	1.5				0.22		∞	∞	✓	0.29					
15	OUT + GM LIGHTS		B	10	10		2.5	1.5				0.31		∞	∞	✓	0.46					
16	L6 W/SHOP LIGHTS		B	10	10		2.5	2.5				0.89		∞	∞	✓	0.96				Lamp	
17	2 W/SHOP LIGHTS		B	10	10		2.5	1.5				0.62		∞	∞	✓	0.75					
18	3 W/SHOP LIGHTS		B	10	10		2.5	1.5				—		∞	∞	✓	—				CANT ACCESS SHUT	
19	4+5 W/SHOP LIGHTS		B	10	10		2.5	1.5				—		∞	∞	✓	—				"	
20	OFFICE LIGHTS		B	10	10		1.5	1.5				0.40		∞	∞	✓	0.61					IN BOARD.
21	LIGHTING CONTROL		B	6	10		1.5	1.5				0.02		∞	∞	✓	—					NO RCD'S
22	SOCKETS TH'S SIDE		B	32	10		2.5	2.5				0.57		∞	∞	✓	0.43					NO RCD'S
23	SOCKETS		C	32	10		2.5	2.5				0.62		∞	∞	✓	0.44					NO RCD'S

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

ELECA
Part of the ECA Group

Test results

Distribution Board Reference: **DB3-LARGE W/SHOP CAB**
 0.11A 2.2s PFC = 2.1kA
63A 25mm TALKS SUPPLY

Circuit details		Overcurrent device									Conductor details									Test results												
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V											
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ +R ₂)*	R ₂	Live-Live	Live-E	Polarity	Z _s (Ω)	@1 ⁿ	@51 ⁿ	Test button operation	Remarks (continue on a separate sheet if necessary)											
1,2,3	3PH OUTLET No.17		C	32	10							0.104		Yes	Yes	/																
4,5,6	3PH OUTLET No.18		C	32	10							0.109		Yes	Yes	/																
7,8	3PH OUTLET No.19		C	32	10							0.113		Yes	Yes	/																
10	PT Sockets		B	16	10							0.34		Yes	Yes	/																
11	Sockets		B	32	10				0.66	0.66	6.25	0.86		160	140	/																
12	EXHAUST EXT FAN		C	16	10							-		-	Yes	-						CANT ACCESS										
	3 PH OUTLET No.20		C	32	10							-		Yes	Yes	-																
	3 PH OUTLET No.21		C	32	10							-		Yes	Yes	-																
	3PH OUTLET No.22		C	32	10							0.21		Yes	Yes	/	0.32															
	PT/OUT HOURS		B	10	10							0.47		170	120	/	0.53															
	Security + Low Hours		B	10	10							0.66		-	Yes	/	0.73															

No Network

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

Distribution Board Reference: **DB5 - CANTREB**

SWITCH PHASE

Test results

Circuit details		Conductor details							Test results												
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ +R ₂) [*]	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _{Δn}	@5I _n	Test button operation	Remarks (continue on a separate sheet if necessary)
	LIGHTS	60598	B	10	6	100	1.6	1.6				0.53		0.200	0.200	✓	0.63				
	LIGHTS	60898	B	10	6	100	1.6	1.6				0.21		0.200	0.200	✓	0.82				
	FIRE ALARM	60598	B	6	6	100	2.5	1.5				0.15		0.200	0.200	✓	0.24				
	GASBU ALARME STRAP	60898	B	32	6		6.0	6.0													
	63A 36mA																				
	SOCKETS	60898	B	32	6	100	2.5	1.5	0.59	0.59	0.95	0.31		0.200	0.200	✓	0.45	35	9	✓	
	SOCKETS	60898	B	32	6	100	6.0	2.5				0.16		0.200	0.200	✓	0.25	35	9	✓	
	SWITCH PLANT	60598	B	16	6	100	2.5	2.5				0.31		0.200	0.200	✓	0.42	35	9	✓	

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS

Sheet of



DB Reference no. DB7
 Location Traffic Workshop - FRONT OF SITE
 Zs at DB (Ω) 19.55
 Ipr at DB (kA) 11.6
 Correct polarity of supply confirmed YES / NO
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing
RCD'S / ALARM
63A 30mA RCD/MIS

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (CAPITALS)
 Signature Date

Test results

Circuit details		Overcurrent device					Conductor details					Test results										Remarks (continue on a separate sheet if necessary)
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _n	@5I _n	Test button operation		
	W/SHOP SOCKETS	61009	C	20	10	-	4	2.5				0.34		Yes	Yes	✓	19.44	34	20	✓	30mA	
	WATER METERS - W/L	3571	R	32	10		4	2.5				0.19		Yes	Yes	✓	19.41					
	EM LIGHTS + ALARM SP	60808	B	6	6		1.5	1.5				0.43		-	Yes	✓	19.5					
	LIGHTS	3571	C	10	10		1.5	1.5				1.93		90	90	✓	19.60					
	SOCKETS IN CHANGEROOM	61009	C	32	10		6.0	6.0				0.84		130	130	✓		36	21	✓		
	SOCKETS IN W/SHOP	61009	C	20	10		4.0	2.5				0.61		Yes	Yes	✓		49	18	✓		
	W/SHOP UNIT		C	32	10	SUN	10	10				0.04		Yes	Yes	✓						
	CARAVAN		C	63	10	SUN	16	20				-		Yes	Yes	✓	19.1					
	HEATING 16A OVER	61009	C	16	10		2.5	2.5				0.18		Yes	Yes	✓	19	28	16	✓		

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of



Part of the ECA Group

Distribution Board Reference: **DB 8 - TRAFFIC PORT CABIN**
FED FROM DB 1A

Circuit details										Conductor details										Test results									
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V								
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@1 _n	@51 _n	Test button operation	Remarks (continue on a separate sheet if necessary)								
	CABIN 2		B	32	16		10	10				0.09		Pass	Pass	✓	0.131												
	CABIN 1		B	32	10		10	10				0.09		Pass	Pass	✓	0.129												
	CABIN 3		B	32	10		10	10				0.14		Pass	Pass	✓	0.34												
	CABIN 4		B	32	10		10	10				0.19		Pass	Pass	✓	0.58												
	YELLOW STORAGE		B	32																									
	DISCONNECT		B	32																									

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

E L E C A

Part of the ECA Group

Distribution Board Reference: **DB9** **PAINT W/SHOP**
 Location: **25mm** **21.2A** **10.8kVA**

Test results

Circuit details		Conductor details										Test results										Remarks
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@1 _n	@51 _n	Test button operation	Remarks (continue on a separate sheet if necessary)	
164	LIGHTS	3871	2	10	6		2.15	2.15				1.38		90	90	✓					NOT VARIOUS PHASE	
	SOCKETS TRAIL	3871	2	32	6		4.0	2.15				0.50		90	90	✓						
134	SOCKETS TRAIL	60848	B	20	6		2x1.0	2.15				0.59		90	90	✓						
	EXTENSION LIGHTS	3871	2	10	6		1.5	1.5				1.03		90	90	✓					3C ARM.	
	FRONT CABIN	3871	2	32	6		10	10						90	90	✓						
	SPACE													90	90	✓						
	3PH EXTRACT FAN	3871	2 ^{NS}	32	6		4.0	4.0				0.11		90	90	✓					3 PHASE ON SINGLE PHASE BREAKERS	
	ACM No. 1	3871	2	32	6		4.0	4.0						90	90	✓						
	COMPRESSOR	3871	2	32	6		4.0	4.0						90	90	✓						
	3PH													90	90	✓						
	FAN 1	3871	2	10	6		1.5	1.0				0.41		90	90	✓						
	FAN 2	3871	2	10	6		1.0	1.0				0.33		90	90	✓						
	SOCKET - FIRE WALL + SUPPLY	3871	2	16	6		2x7.5	1.5				0.45		90	90	✓						
	3PH W/SHED	60848	B	20	10		2.15	2.15				0.149		90	90	✓						

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

E L E C A

Part of the ECA Group

Distribution Board Reference: **DB10-SHED Behind SPAN workshop**
 2.5mm² W. To 63A 30mA

Circuit details

A	B	C	D	E	F	G	H	I
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)
	SOCKET		2	32	6		6.0	2.5
	SOCKET		2	32	6		6.0	2.5
	BLUE CABIN STUD		B	40	10		6.0	6.0
	LIGHTS		2	5	6		1.5	1.5
	PAINT STORE		2	32	6		6.0	6.0
	SPRAY SHOP			63	10		16	16

Test results

J	K	L	M	N	O	P	Q	R	S	T	U	V
r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ +R ₂) [*]	R ₂	Live-Live	Live-E	Polarity	Z _s (Ω)	@1 ⁿ	@51 ⁿ	Test button operation	Remarks (continue on a separate sheet if necessary)
			0.03		Pass	Pass	✓	0.14				
			0.19		Pass	Pass	✓	0.16				
			0.37		Pass	Pass	✓	0.15				REPAIR NEEDED
			0.51		110	1ed	✓	0.68				REPAIR NEEDED
					-	-	✓					No needs
			0.31		Pass	Pass	✓	0.37				

* Where there are no spurs connected to a ring final circuit this value is also the (R₁+R₂) of the circuit.

0.29 0.20 0.4

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

ELECA

Part of the ECA Group

Distribution Board Reference: **DB17 - PARTS CABINETS**

Circuit details											Conductor details											Test results											Remarks
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ +R ₂) [*]	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@1 ⁿ	@51 ⁿ	Test button operation	Remarks (continue on a separate sheet if necessary)												
CABIN 3391	60508	C	32	10	E	10	10	0.04				0.04		✓	✓	✓	0.24																
CABIN 3396	60508	C	32	10	E	10	10	0.10				0.10		✓	✓	✓	0.31																
CABIN 3515	60508	C	32	10	E	10	10	0.21				0.18		✓	✓	✓	0.42																
CABIN 3534	60508	C	32	10	E	10	10	0.09				0.07		✓	✓	✓	0.30																
AIR CON	61009	C	20	10	B	4	4	0.02				0.02		✓	✓	✓	0.20	56	23	✓													

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

GENERIC SCHEDULE OF TEST RESULTS

DB reference no D1315 Wendur Village
 Location 4.84
 Zs at DB (Ω) 5.48
 I_n at DB (kA) 5.248
 Correct supply polarity confirmed
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing 50mm Sq Cable

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (Capitals)
 Signature Date

Circuit number	Circuit Description	Overcurrent device				Conductor details				Ring final circuit continuity (Ω)			Continuity (Ω) (R ₁ + R ₂) or R ₂		Insulation Resistance (MΩ)		Polarity	Z _s (Ω)	RCD (ms)		Test button / functionality	Remarks (continue on a separate sheet if necessary)
		BS (EN)	type	rating (A)	breaking capacity (kA)	Reference Method	Live (mm ²)	cpc (mm ²)	R ₁ (line)	R _n (neutral)	R ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live-Live	Live-E	@I _{Δn}			@5I _{Δn}			
	OFFICE LIGHTS	3871	2	6	6	B	1.5	1.5				1.90		200	200	✓	5.99	18	8			
	LOBBY LIGHTS	3571	2	6	6	B	1.5	1.5				5.94		200	200	✓	6.01	18	8			
	SOCKETS	4293	2	32	6	B	2.5	1.5	0.70	0.70	0.40	0.21		200	200	✓	6.99	18	8			
	Wired BAY LIGHTS	3571	2	10	10	B	1.5	1.5				1.12		200	200	✓	5.42	18	8			
	ALERTER	3571	2	16	6	B	2.5	1.5				0.29		200	200	✓	5.01	18	8			
	3PH 150	3571	2	32	6	B	4.0	2.5				0.27		200	200	✓	5.03	18	8			
	CONCRETE	60398	10	20	10	C	2.5	1.5				0.11		200	200	✓	4.08	18	8			
	3PH MAND DB 4	60898	10	63	10	C	16	16				0.01		200	200	✓	4.87	18	8			
	?																					
	2PH To LANTIME	3571	2	32	6	B	4	2.5				0.13		200	200	✓	4.99	18	8			

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

GENERIC SCHEDULE OF TEST RESULTS

DB reference no: 0214
 Location: WEDDLE
 Zs at DB (Ω)
 Ipr at DB (kA)
 Correct supply polarity confirmed
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (Capitals)
 Signature Date:

Circuit number	Circuit Description	Overcurrent device				Conductor details				Ring final circuit continuity (Ω)		Continuity (Ω) (R1 + R2) or R2		Insulation Resistance (MΩ)		Polarity	Zs (Ω)	RCD (ms)		Remarks (continue on a separate sheet if necessary)
		BS (EN)	type	rating (A)	breaking capacity (kA)	Reference Method	Live (mm²)	opc (mm²)	R1 (line)	Rn (neutral)	R2 (opc)	(R1 + R2) +	R	Live-Live	Live-E			@IΔn	@5IΔn	
2	3 Phase Switchgear	BS71	Z	32	6	B	6	2.5			0.05		200	200	✓	410	15	5	✓	
	3 Phase Switchgear	BS48	B	32	10	B	6	2.5			0.09		200	200	✓	410	15	5	✓	
	2+3 Phase Switchgear	BS48	C	32	10	B	6	2.5			0.04		200	200	✓	410	15	5	✓	
	2+3 Phase Switchgear	BS74	Z	16	6	B	6	2.5			0.16		200	200	✓	410	15	5	✓	
	2+3 Phase Switchgear	BS48	C	32	10	B	6	2.5			0.10		200	200	✓	410	15	5	✓	

* Where there are no spurs connected to a ring final circuit this value is also the (R1 + R2) of the circuit.

SCHEDULE OF TEST RESULTS

Sheet of



Part of the ECA Group

DB Reference no. **DB 15**
 Location **Traffic WILSHOP**
 Zs at DB (Ω) **19.44**
 I_p at DB (kA) **11.6**
 Correct polarity of supply confirmed **YES** / NO
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing
 **BATTERY CHARGERS**
 **CAN'T LOCATE STAIR PLATE**

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (CAPITALS)
 Signature Date

Test results

Circuit details							Conductor details							Test results												
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _n	@5I _n	Test button operation	Remarks (continue on a separate sheet if necessary)					
A	WILSHOP SOCKETS	61009	C	20	10		4.0	2.5				0.161		Pass	Pass	✓	19.5	26	14	✓						
	WITTE HEATERS - w/lr		C	32	10		4.0	2.5				0.20		Pass	Pass	✓	19									
	EM LIGHTS - ALARM SPARE		B	6	10		1.5	1.5				0.36		140	✓	✓	19									
	LIGHTS		C	10	10		1.5	1.5				1.93		Pass	Pass	✓	19									
	SOCKETS IN CHANGE RM	61009	C	32	10		6.0	2.5				0.181		Pass	Pass	✓	19	32	18	✓						
	SOCKETS IN WILSHOP	61009	C	20	10		4.0	2.5				0.161		Pass	Pass	✓	19	49	18	✓						
	ALFAFAE UNIT		C	32	10	SW	10	10				0.04		Pass	Pass	✓	19.4									
	ALFAFAE UNIT		C	63	10	3SW	16	8W						Pass	Pass	✓										
	10A HEATING OVERST	61009	C	16	10		2.5	2.5				0.18		Pass	Pass	✓	0.94	36	21	✓						

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS

Sheet of



DB Reference no. DB16
 Location OFFICE UPSTAIRS NSA/Ms. 16/11/11
 Zs at DB (Ω) 13.45 17.10
 I_{pr} at DB (kA)
 Correct polarity of supply confirmed YES/ NO
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing

NO RCD'S

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (CAPITALS).....
 Signature Date

Test results

Circuit details										Conductor details										Test results									
Overcurrent device																													
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V								
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _n	@5I _n	Test button operation	Remarks (continue on a separate sheet if necessary)								
	PLUGS / HEATERS																												
	SOCKETS CIGARETTE	6035B	B	32	6		2.5	1.5	.48	.48	.64	.31		Yes	Yes	✓	11.4												
	SOCKETS		B	32	6		2.5	1.5	.39	.37	.58	.29		Yes	Yes	✓	13.7												
	SOCKETS - COPPER		B	20	6		2.5	1.5				0.44		Yes	Yes	✓													
	HEATERS		B	20	6		2.5	1.5				0.48		Yes	Yes	✓													
	HEATERS		B	20	6		2.5	1.5				0.57		Yes	Yes	✓													
	HEATERS		B	20	6		2.5	1.5				0.63		Yes	Yes	✓													
	HEATERS (OUT. FAN)		B	2	6		1.5	1.5				0.01		Yes	Yes	✓													
	FUSES SPUR - DATA		C	16	10		1.5	1.5				0.08		Yes	Yes	✓													
	LIGHTING		B	10	6		1.0	1.0				1.24		-	-	✓													
	END OFFICE A/C		B	32	6		4.0	2.5				0.53		Yes	Yes	✓													
	LIGHTS																												

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.

SCHEDULE OF TEST RESULTS - CONTINUATION SHEET

Sheet of

Distribution Board Reference: **DB17 - OFFICES 3RD FLOOR**
 25mm 3C Arm 16mm CPC - STAGES. 0.18 V_e. 1.91 VA
 0.55419 1.75 A

Test results

Circuit details		Overcurrent device		Conductor details		Ring final circuit continuity (Ω)		Continuity (Ω) (R ₁ + R ₂) or R _s		Insulation resistance (MΩ)		Polarity		Z _s (Ω)		RCD (ms)		Remarks (continue on a separate sheet if necessary)			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
Circuit number	Circuit description	BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	(R ₁ + R ₂) [*]	R _s	Live - Live	Live - E	✓	Ω	@1 _n	@51 _n	Test button operation	
7	All low sys 2	60694	C	20	10	sum	4.0	4.0				0.27		-	Yes	✓					
8	LANE OFFICE SUB MAIN 5B		C	40	10	sum	10					0.21		Yes	Yes	✓					
	LANE OFFICE SUB MAIN D		C	40	10	sum	10					0.31		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		C	40	10	sum	10					0.38		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.04		-	Yes	✓					16A-1.5
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.56		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.34		132	130	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.62		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.21		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.27		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.51		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.40		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				1.04		90	80*	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.98		120	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.28		180	120	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.14		Yes	Yes	✓					
	FRONT OFFICES SUB MAIN 4		B	16	10	sum	1.5	1.0				0.68									

SCHEDULE OF TEST RESULTS

Sheet of



Part of the ECA Group

DB Reference no. DB E-1-F
 Location OFFICE CABINS
 Zs at DB (Ω)
 Zp at DB (kA)
 Correct polarity of supply confirmed YES / NO
 Phase sequence confirmed (where appropriate)

Details of circuits and/or installed equipment vulnerable to damage when testing

Details of test instruments used (state serial and/or asset numbers)
 Continuity
 Insulation resistance
 Earth fault loop impedance
 RCD
 Earth electrode resistance

Tested by:
 Name (CAPITALS).....
 Signature Date

Test results

Circuit details		Overcurrent device							Conductor details			Test results										Remarks (continue on a separate sheet if necessary)				
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V					
Circuit number		Circuit description		BS (EN)	Type	Rating (A)	Breaking capacity (kA)	Reference method	Live (mm ²)	cpc (mm ²)	r ₁ (line)	r _n (neutral)	r ₂ (cpc)	Continuity (Ω) (R ₁ + R ₂) *	R ₂	Live - Live	Live - E	Polarity	Z _s (Ω)	@I _n ^Δ	@5I _n ^Δ	Test button operation				
A	RCD1	B	E-BACKOFFICE (13)	60878	B	20	6		2.5	1.5				0.54		∞	∞	✓								
	DADO SOCKETS			60878	B	20	6		2.5	1.5				0.62		∞	∞	✓								
	SOCKETS			60878	B	20	6		2.5	1.5				0.62		∞	∞	✓								
	RCD2			60878	B	20	6		2.5	1.5				0.39		150	160	✓								
	LIGHTS			60878	B	6	6		1.5	1.0																
	AIR CON																									
	EXTERNAL STORE																									
	DB E-1-FS ADVISOR																									
	SOCKETS			60878	B	32	6		2.5	1.5				0.76		∞	∞	✓								
	SOCKETS			60878	B	16	6		2.5	1.5				0.38		∞	∞	✓								
	SOCKETS			60878	B	6	6		1.0	1.0				0.44		∞	∞	✓								

* Where there are no spurs connected to a ring final circuit this value is also the (R₁ + R₂) of the circuit.