

**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

INDEX TO CLAUSES

EE.01.0	GENERAL
EE.02.0	SUPPLIER & INSTALLER
EE.03.0	SERVICE AFTER INSTALLATION
EE.04.0	TYPE OF SYSTEM
EE.05.0	COMMUNICATION REQUIREMENTS
EE.06.0	WORKMANSHIP
EE.07.0	SYSTEM DESCRIPTION
EE.08.0	BUILDERS WORK
EE.09.0	POLICE AUTHORITY
EE.10.0	OPERATING INSTRUCTIONS
EE.11.0	WORKING DRAWINGS
EE.12.0	POSITIONING OF EQUIPMENT
EE.13.0	COMMISSIONING ON COMPLETION
EE.14.0	SYSTEM DEMONSTRATION
EE.15.0	O. & M. MANUAL
EE.16.0	MAINTENANCE AGREEMENT

**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.01.0 GENERAL

- EE.01.01 The whole system shall be installed to the requirements of BS EN 50131 (all parts), BS.4737 (current sections) and BS.5999 with amendments as necessary and all relevant NSI Codes of Practice and the local police intruder alarm policy shall be strictly adhered to.
- EE.01.02 Where any General Electrical Installation work is required it shall be carried out in accordance with BS 7671: 2008, Requirements for Electrical Installations Wiring Regulations Seventeenth Edition.

EE.02.0 SUPPLIER / INSTALLERS

- EE.02.01 The Electrical Services Installer shall employ the services of a Specialist Supplier / Installer to supply, install, test and commission the complete security system as described in Part EL of the Specification Document.
- EE.02.02 The Specialist Supplier / Installer whose personal back ground has been meticulously vetted in accordance with BS 7858 and who have been fidelity bonded shall install a system to detect intruders within the building out of normal hours and to alarm accordingly.
- EE.02.03 The specialist installer shall be a member of the British Security Industry Association and be NSI approved.

EE.03.0 SERVICE AFTER INSTALLATION

- EE.03.01 Upon completion of the installation, the Installer will be required to provide a full twenty-four hour maintenance and repair service facility, the Service Engineer being capable of dealing with any emergency arising from the installation.

EE.04.0 TYPE OF SYSTEM

- EE.04.01 The type of system shall be generally the trap type protection with movement detectors and door contacts installed in the position indicated on the Contract Drawings.

EE.05.0 COMMUNICATION REQUIREMENTS

- EE.05.01 The Specialist Installer shall provide a fully automatic control complete with an alarm link to a remote security station.

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**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.05.0 COMMUNICATION REQUIREMENTS (Cont'd.)

EE.05.02 Each installation shall be provided with a digital communicator telephone line transmitter, designed to transmit a signal via an exclusive outgoing calls only telephone line to a central monitoring station.

EE.05.03 This transmitter shall be arranged to operate delayed action circuitry to bells or to actuate the bells immediately should the transmitter be defective or the telephone line is cut, and arranged to indicate the activation of individual zones.

EE.05.04 The telephone line shall be an exclusive outgoing calls only line, and it will be the alarm company's responsibility to order the necessary line and termination blocks.

EE.06.0 WORKMANSHIP

EE.06.01 The installation shall be carried out in a correct and workmanlike manner to the complete satisfaction of the Contract Administrator and a warranty period of 12 months from the signing of the Acceptance Certificate will be required to cover the failure of equipment, wiring and detection devices, and no call out charges will be paid during this period except for vandalism.

EE.07.0 SYSTEM DESCRIPTION

EE.07.01 The Specialist Installer shall install a complete security system for the main building and any associated buildings / demountables shall also be protected and controlled via the main building unless stated otherwise in Part EL of the Specification Document.

EE.07.02 The system shall comprise a master control station positioned as indicated on the Contract Drawings. All detectors and associated equipment shall be wired back to the master control panel.

EE.07.03 The type of cable to be used shall be PVC/PVC sheathed cable, twin plastic type cable will not be allowed.

EE.07.04 If the cable is run in external ducts then the cable shall be of the polythene sheathed type.

EE.07.05 All wiring (where practically possible) shall be concealed and hidden installed at high level and shall be installed in conduit.

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**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.07.0 SYSTEM DESCRIPTION (Cont'd.)

- EE.07.06 The conduit installation shall be of galvanised steel manufacture unless stated otherwise in Part EL of the Specification Document.
- EE.07.07 Staples **must not** be used in any circumstances.
- EE.07.08 The conduit installation and any support electrical wiring above extra low voltage shall be carried out by the Electrical Services Installer.
- EE.07.09 The field wiring, positioning of associated equipment, final connection, testing, commissioning and demonstration to the end user / Client together with the Contract Administrator, shall be carried out by the specialist installer.
- EE.07.10 All equipment shall have an anti-tamper circuit.
- EE.07.11 The system shall contain a remote keypad facility.
- EE.07.12 The system shall have the facility to enable or disable the input alarms from each detector or door contact on local zones from the master control panel.
- EE.07.13 The system shall be capable of expansion to allow for additional door contacts or detectors to be added in future, should this be required.
- EE.07.14 A final exit door shall be agreed upon, and shall be provided with a delay on exit facility to permit both setting and un-setting of the alarm.
- EE.07.15 An audible and visual alarm shall be fitted externally at high level at an appropriate position.
- EE.07.16 The system shall be inspected by the Contract Administrator. If the system in part or whole is sub standard to this Specification, the system will be recommended for re-installation at the expense of the Specialist Installer.
- EE.07.17 All security equipment shall be suitable for the environment in which it is to be installed.
- EE.07.18 The alarm shall be suitable for use in both manned and unmanned conditions. In the former, detection devices shall indicate operation at control panels as low level audible alarm sounders. In the latter state an alarm shall be transmitted to the central control room of a suitable specialist company, identifying the building clearly.

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**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.07.0 SYSTEM DESCRIPTION (Cont'd.)

- EE.07.19 Alarm sounders shall be self-activation with internal nickel-cadmium battery kept fully charged from the control panel. All security cables shall be monitored.
- EE.07.20 Door switches shall be of the concealed type wherever possible and shall comprise of a permanent magnet fixed to the door and a reed switch fixed to the frame. Door switches shall be fitted such that a door opening of 20mm or more causes the alarm to operate.
- EE.07.21 A full operation and maintenance manual shall be provided on completion (3 copies) detailing all system components, wiring, zones, operation etc.
- EE.07.22 Twelve months comprehensive maintenance and service for the intruder system by the specialist supplier / installer shall be included.
- EE.07.23 Self-actuating bells shall be fitted internally and externally in elevated positions designed to operate should the British Telecom line be cut at the time the alarm is actuated. The digital communicator bells shall be designed to operate at a specific time after the call is operated, and shall be silenced after operating for 20 minutes.
- EE.07.24 The requisite time delay for the bells to operate after the call is initiated must be discussed with the local crime prevention officer and set to the time agreed.
- EE.07.25 External bells shall be weatherproof in construction and fixed with brass screws.
- EE.07.26 A minimum of two "dummy" bells shall be provided in positions to be mutually agreed.
- EE.07.27 The supply to the system shall be obtained from a battery charged unit incorporated in the "Panel". The battery capacity shall be such that the alarm can be maintained for a period of one hour without appreciable loss in the capacity of the battery. A 13amp non-switched indicating fused spur outlet shall be provided by the Electrical Services Installer.

EE.08.0 BUILDERS WORK

- EE.08.01 All builders work including cutting of chases, drilling of holes etc. shall be carried out by the Main Contractor, however, it will be the Specialist Installer's responsibility to provide suitably marked up drawings showing the extent of the builder's work and to hand these to the Main Contractor at the required time.

**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.09.0 POLICE AUTHORITY

EE.09.01 All equipment and the operation of the system shall be approved by the local Crime Prevention Officer who shall be informed of all the technicalities and the operation of the system, and of the key holders responsible for the system.

EE.10.0 WORKING DRAWINGS

EE.10.01 Prior to commencement of installation, full proposal drawings both layout and schematic, with all relevant technical Specification details for all proposed equipment shall be provided to the Contract Administrator for approval or comment.

EE.10.02 If there are any unsatisfactory proposals the Specialist shall re-submit their revised proposals to the Contract Administrator comments for approval at the expense of the specialist installer.

EE.11.0 POSITIONING OF EQUIPMENT

EE.11.01 All equipment shall be positioned as indicated on the Contract Drawings and to the manufacturer's recommendations.

EE.11.02 All equipment shall be sited in the best position, taking into account all conditions taking due consideration of reflectance, windows, radiators, draughts etc. Any possible problems must be pointed out prior to the final fixing. If after the installation is completed, a fault develops that could have been foreseen the Specialist Installer shall, at his own expense, rectify the offending problem.

EE.12.0 COMMISSIONING ON COMPLETION

EE.12.01 Commissioning shall be carried out at a convenient time as determined and agreed by the Contract Administrator for which no overtime charge shall be made.

EE.12.02 The Specialist Installer shall carry out the final testing and commissioning in the presence of the Contract Administrator.

EE.12.03 Upon completion of the final testing and commissioning the Specialist Installer shall issue all the relevant compliance certificates and documentation to the Electrical Services Installer.

**C.L.A.W. ELECTRICAL SPECIFICATION PART EE SECURITY DETECTION & ALARMS
INSTALLATION
2008**

EE.13.0 SYSTEM DEMONSTRATION

EE.13.01 Upon completion of the installation and commissioning the Specialist Installer shall carry out a complete co-ordinated demonstration of the system to the Contract Administrator and end user / Client.

EE.13.02 The demonstration will be carried out at a convenient time as determined and agreed by the Contract Administrator for which no overtime charge shall be made.

EE.14.0 OPERATING INSTRUCTIONS

EE.14.01 Information as to the operation of the system shall be given to the officer in charge of the premises and selective key personnel. No other persons shall be provided with this information

EE.15.0 O. & M. MANUAL

EE.15.01 The Electrical Services Installer shall supply three copies of as fitted drawings showing the location of all activation and alarm devices, together with schedules detailing all the system equipment and all maintenance recommendations

EE.15.02 The afore-mentioned shall be bound in hard backed manual as detailed in Part EB of the current C.L.A.W. Electrical Specification.

EE.16.0 MAINTENANCE AGREEMENT

EE.16.01 The Electrical Services Installer's maintenance agreement shall be adjusted so that there are no charges for resetting the system after a break-in or any other reason except Act of God, persistent user misuse or vandalism.