

SOUTH AFRICAN INTRUDER DETECTION SERVICES ASSOCIATION
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Requirements for a SAIDSA Approved Un-manned Central Station
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PREAMBLE

An un-manned Central Station is defined as a secure area used for the automatic receiving and relaying of alarm signals to a manned Central Station in a different location. The construction of an un-manned Central station is intended to prevent or delay unauthorised entry and to protect the receiving equipment and antennas from physical attack. The un-manned Central Station is NOT used for the despatch of an Armed Reaction Service.

The categories are as follows, the requirements of each being dealt with under separate headings:-

1. Construction
2. Doors
3. Entry to the Central Station
4. Glazed Areas
5. Closed Circuit Television
6. Power Supply
7. Central Station Antenna
8. Central Station Equipment

1. CONSTRUCTION

All parts of the fabric of the Central Station shall be of substantial construction. Substantial construction is taken to mean:

1. CONSTRUCTION

- 1.1 **Walls:** At least 230mm of cement mortar brick work or 150mm reinforce concrete.
- 1.2 **Roof/Ceiling:** Suitably reinforced concrete at least 120mm thick, or steel to the equivalent strength.
- 1.3 Where metal ceilings are installed, the thickness of the sheet must be a minimum of 3mm. Sheets must be bolted or welded together. A Structural and Safety report must be provided to SAIDSA.

2. DOORS

- 2.1 The door together with hinges, frame and locking device shall be of substantial construction.
- 2.2 The door shall comply with the requirements above, however, a single door is acceptable and no lobby is required
- 2.3 Where a timber door is used, it shall be at least 44mm thick, and of solid-core construction faced with a minimum 1,5mm mild steel metal sheet on both sides.
- 2.4 On an outward opening door, Bullet hinges must be used.
- 2.5 The lock securing the door shall be of a high security type. All locks must be installed to manufacturers specifications and must resist a sudden impact.

3. ENTRY TO CENTRAL STATION

- 3.1 Suitable access control is required and a log kept of all persons entering the Central Station.

4. GLAZED AREAS

- 4.1 Any glazed areas shall offer resistance to forced entry at least equivalent to that of three-ply laminated glass of 15mm thick, in sheets not larger in area than 1,5 square metres. Where glazed areas are larger than 1.5 square metres, they shall offer resistance to forced entry at least equivalent to that of European Standard EN1063 BR3-S for internal glazed areas, and BR4-S for external glazed areas. The member must be able to provide a certificate from a supplier confirming the standard of the glazed area installed.
- 4.2 Frames and fixings must be of substantial construction.
- 4.3 No opening sections are permitted in the glazed areas.
- 4.4 Where windows are line-of-sight, suitable Flatex or a minimum of 20mm diamond mesh of metal construction must be fitted.

5. CLOSED CIRCUIT TELEVISION

- 5.1 CCTV is required on all approaches, recorded for a minimum period of 24 hours with time and date stamp.

6. POWER SUPPLY

- 6.1 The electricity supply may be either from external mains or from a battery standby.
- 6.2 In the event of a disruption of the external electricity supply, the stand-by power supply shall automatically be brought into use without interruption.

- 6.3 The stand-by supply shall include batteries located within the Central Station, capable of sustaining the monitoring equipment for a period of not less than 24 hours or not less than 50 minutes if a standby generator is installed.
- 6.4 The standby generator shall have an independent means of starting.
- 6.5 The amp hour capacity of the standby power supply shall be calculated on the basis of the average hourly current drain multiplied by the factor 1.5.
- 6.6 Any recharging facility of the standby power supply shall be sufficient to provide the maximum load requirements and to simultaneously recharge the battery from that discharged state to the required capacity within 24 hours.
- 6.7 In the event of an interruption in the mains power supply, all equipment essential to the operation of the Central Station shall continue to operate without loss of security or degradation of performance.

7. CENTRAL STATION ANTENNA

(including any antenna receiving/transmitting RF signals)

- 7.1 The antenna must be sited within close proximity to the Central Station. Where this is impracticable, then the aerial and any connecting cables should be suitably protected against any mechanical damage or unauthorised interference.
- 7.2 The antenna shall be protected by suitable electronic intruder detection devices to detect tampering.

8. CENTRAL STATION EQUIPMENT

- 8.1 All primary communication equipment must be situated within the Central Station.
- 8.2 Stand-by equipment is to be readily accessible in the company's premises.
- 8.3 The Stand-by equipment must be alarmed and protected if situated outside the Central Station.
- 8.4 Stand-by equipment shall be directly interchangeable and all reasonable precautions shall be taken to ensure that normal uninterrupted Central Station service is provided in the event of essential equipment being faulty or damaged.
- 8.5 Stand-by equipment shall be dedicated to the Alarm Central Station and shall remain unplugged until required.

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