

BY-LAW NO. 2

SOUTH AFRICAN INTRUDER DETECTION SERVICES ASSOCIATION

Requirements for a SAIDSA Approved Un-manned Central Station

VERSION 2.6 - August 2023

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

1.1 WALLS

- 1.1.1 **Exterior Walls:** Must consist of at least 230mm of cement mortar brick work or 150mm reinforced concrete.
- 1.1.2 **Interior Walls:** can make use of other approved intrusion resistant materials such as but not limited to...Steel plating no less than 3.2mm in thickness or ballistic wall panels consisting of multi layered laminates (Fiberglass, Kevlar or materials of equivalent application and strength) which can be mounted on or between drywalling fixtures in accordance with manufacturers specifications and local building regulations. These materials must adhere to the US Ballistics specifications standard UL752 with a rating no lower than level 3. Certifications from the manufacturer to be made available to SAIDSA on Inspection. Panels must be installed with no gaps.

1.2 ROOF/CEILING/FLOORS

- 1.2.1 **Roof/Ceiling:** Will consist of suitably reinforced concrete at least 120mm thick, or steel to the equivalent strength.
- 1.2.2 **Floors:** in multi story constructions shall comply with the same specification referred to in 1.2.1
- 1.2.3 Where metal ceilings or floors 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.
- 1.2.4 Ballistic panels \ alternate materials: consisting of multi layered laminates (Fiberglass, Kevlar or materials of equivalent application and strength) which can be mounted above existing fixed

ceiling or attached directly to ceiling panels in accordance with manufacturers specifications and local building regulations. These materials must adhere to the US Ballistics specifications standard UL752 with a rating no lower than level 3. Certifications from the manufacturer to be made available to SAIDSA on Inspection. Panels must be installed with no gaps and a Structural and Safety report must be provided to SAIDSA.

2. DOORS

- 2.1 The doors together with their hinges, frames and locking devices shall be of substantial construction.
- 2.2.1 Where timber doors are used, both doors shall be at least 44mm thick, and of solid-core construction faced with mild steel metal sheets on both sides. Combined the total sheet thickness should be no less than 3.2mm.
- 2.2.2 Alternate materials and ballistic panels consisting of multi layered laminates (Fiberglass, Kevlar or materials of equivalent application and strength) can also be used within the substantially constructed door in accordance with manufacturer's specifications. These materials must adhere to the US Ballistics specifications standard UL752 with a rating no lower than level 3.
- 2.3 On outward opening doors, bullet hinges or an equivalent of substantial construction must be used. The solution shall support the weight of the door. The door must not be removable whilst in a closed position.
- 2.4 All other hinges shall be internal and of substantial construction.
- 2.5 Locks securing the doors must have a minimum sudden impact resistance of 1000KG. The locking mechanism should be protected from tampering and show resistance to vibration. All locks must be installed to manufacturer's specifications.

2.6 Glass Interlock Doors

- 2.6.1 Framework surround must match the equivalent minimum strength of 2mm Mild steel plate. Construction should be substantial and durable.
- 2.6.2 All glass sections shall consist of no less than 15mm three-ply laminated glass in sections not exceeding 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 (SANS1263-3 - 38mm).
- 2.6.3 Roof of Interlocked Man Trap unit must be constructed of mild steel plate no less than 3mm thick or suitable equivalent, all relevant certifications of prebuilt units must be made available to SAIDSA on Inspection.
- 2.6.4 ALL Frames and Hinging required to be of substantial construction.

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 (SANS1263-3 - 38mm) for internal glazed areas, and BR4-S (SANS1263-3 -52mm) 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 and offer similar levels of protection as described in 6.1.
- 4.3 No opening sections are permitted in the external glazed areas.
- 4.4 Where external glazed areas are reachable from ground level, suitable Flatex or a minimum of 20mm diamond mesh of metal construction must be fitted.
- 4.5 It shall be ensured that the interior/staff of the Central Station are not within direct line of sight from the outside.

5. VIDEO SURVEILLANCE (CCTV)

- 5.1 All approaches to the Central Station and the station itself shall be suitably monitored by vandal resistant closed circuit television cameras.
- 5.2 Recording of the cameras as per 5.1 above shall be provided with a searchable time/date stamped history of at least 72 hours.

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 including inverters and batteries must be located within the Central Station or an adjacent secure room. The solutions must be capable of sustaining the monitoring equipment for a period of at least 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 without leaving the Central Station vulnerable.
- 6.5 The standby generator must be housed in a secured protected area.
- 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 situated within close proximity to the Central Station. Where this is not possible, the antenna and any connecting cables should be suitably protected against any mechanical damage or unauthorized interference.
- 7.2 Where the antenna is not situated within close proximity to Central Station, 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 Backup equipment is to be readily accessible in the company's premises.
- 8.3 The backup equipment must be alarmed and protected if situated outside the Central Station.
- 8.4 Backup 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 Backup equipment shall be dedicated to the Alarm Central Station and shall remain unplugged until required.

9. COMMUNICATION METHODS

- 9.1 Where land lines or other alternate communication services are used, there should be a minimum of two voice communication lines.
- 9.2 Wire based or fiber communication lines to the Central station should be underground or securely concealed and physically protected from tampering.
- 9.3 Backup voice communication should be in place, utilizing an alternate technology.
- 9.4 Cellular router communications with fixed desktop handsets are permitted when linked to voice recording system.
- 9.5 In all communications with the police, emergency services and response companies, a reference

- number shall be obtained and recorded.
- 9.6 All communication records to be kept for a minimum of twelve (12) months whilst compliance with the POPIA act must be maintained.

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