

Fire Safety Compliance Checklist for South Africa (Based on SANS 10400-T & Related Standards)

This checklist is designed to help facility managers and property owners ensure compliance with South African National Standards (SANS) for fire safety, particularly SANS 10400-T (Fire Protection) and SANS 10287 (Fire Sprinkler Systems). Always consult a competent fire engineer or certified professional for a comprehensive assessment.

General Requirements

- **Fire Risk Assessment**: Conduct a fire risk assessment at least every 5 years by a competent person or Approved Inspection Authority (AIA) registered with SANAS, as per SANS 10400-T and Major Hazard Installation Regulations.
- **Competent Person Involvement**: Engage a qualified fire engineer or professional to design, verify, and sign off on fire safety systems (SANS Form 2 and Form 4).
- **Compliance Certificate**: Obtain an annual Fire Compliance Certificate, non-transferable upon change of ownership or premises relocation.
- Record Keeping: Maintain records of inspections, maintenance, and risk assessments, accessible for municipal inspection, as per the National Archives and Records Service of South Africa Act.

Fire Protection Systems

• Fire Extinguishers:

- o Installed as per SANS 10105 and SANS 1475, bearing SABS certification marks.
- Maintained and serviced annually by a qualified SAQCC Fire-accredited technician.
- Placed in unobstructed, accessible locations.

Fire Hose Reels and Hydrants:

- Installed and maintained per SANS 543, SANS 1128, SANS 1475 Part 2, and SANS 10105 Part 2.
- Connected to a reliable water supply with sufficient pressure.

• Fire Sprinkler Systems:

- o Installed in high-risk areas (e.g., warehouses >2,500 m², basements, high-rise buildings) as per SANS 10287.
- Regularly serviced to check for corrosion or malfunctions.

• Fire Detection and Alarm Systems:

- o Designed, installed, and maintained per SANS 10139 by a competent person.
- Tested regularly to ensure functionality.

Building Design and Structural Requirements

External Walls:



- Meet fire resistance requirements (e.g., Type F walls resistant for at least 30 minutes for H4 occupancy, as per Table 1 of SANS 10400-T).
- Safety distances maintained where walls have no openings (per Table 2 of SANS 10400-T, e.g., 0.5 m for H4 buildings with elevation ≤7.5 m²).
- Openings (e.g., windows) comply with safety distance requirements based on building classification and window area (Table 2).

• Fire Doors:

- o Installed to prevent fire and smoke spread, compliant with SANS 10400-T.
- Equipped with automatic releasing hold-open devices where applicable.

Roof Assemblies:

Constructed with non-combustible materials, compliant with SANS 10400-T.

• Structural and Non-Structural Walls:

 Meet fire resistance requirements as per SANS 10400-T Tables for structural and non-structural components.

Escape Routes and Signage

• Escape Routes:

- Multiple, unobstructed escape routes lead to safe assembly points, free from storage or furniture.
- Doors positioned appropriately relative to changes in level (per SANS 10400-T drawings).

• Signage:

 Illuminated or photoluminescent exit signs installed per SANS 1186-1, SANS 1186-3, SANS 1186-5, and SANS 1464-22.

• Evacuation Drills:

Conduct regular evacuation drills to familiarise employees with escape routes.

Maintenance and Inspections

Regular Inspections:

 Conduct periodic inspections of all fire equipment (extinguishers, hose reels, sprinklers, alarms) by certified technicians.

• Maintenance Schedules:

 Follow strict maintenance schedules for fixed and portable fire equipment to prevent inoperability.

• Municipal Compliance:



 Adhere to local municipal fire safety bylaws and submit to inspections by the chief fire officer.

Additional Considerations

Flammable Materials:

o Store flammable/hazardous substances appropriately, away from ignition sources.

• Staff Training:

 Train employees on the location of fire equipment, emergency procedures, and evacuation protocols.

Vegetation and Waste Control:

 Manage vegetation and combustible waste to prevent fire hazards, as per municipal by-laws.

Notes

- **Legal Consequences**: Non-compliance may result in fines, legal action, business closure, or denial of insurance claims.
- Local Authority Requirements: Consult local fire authorities for additional requirements or rational design submissions for complex systems.
- **SABS Standards Access**: Obtain full SANS 10400-T and related standards from the SABS store for detailed compliance guidelines.

For professional assistance, contact certified fire protection services, such as Lionise Group (fire@lionize.co.za), to ensure compliance.