

SOUTH AFRICAN FIRE PROTECTION

F.R.S (PTY)LTD

FIRE RISK SYSTEMS (PTY) LTD

AUTOMATED
FIRE PROTECTION

FIRE PROTECTION INSTALLATION | MAINTENANCE

Fire protection design, installation, commissioning and maintenance for high-risk and mission-critical facilities across South Africa.

DESIGN | SUPPLY | INSTALLATION | COMMISSIONING | MAINTENANCE

- OPERATING SINCE 2015
- NATIONAL SERVICE COVERAGE
- CIDB REGISTERED

Protecting people. Protecting operations.

WWW.FRSSA.CO.ZA

WHO WE ARE

Fire protection, engineered for real operations

Fire Risk Systems (Pty) Ltd is a South African fire protection engineering and contracting company. Since 2015, Fire Risk Systems has helped clients assess risk, design practical systems, manage installation and keep protection ready for service. We work in demanding environments where the safety of people, continuity of production and protection of critical assets matter every day.



FRS FIELD SERVICE

2015	~50	12	SA
Operating since	Permanent team members	Service vehicles	National service coverage

PROTECTION THAT KEEPS INDUSTRY MOVING

One accountable partner

Coordinated support from initial site assessment through installation, commissioning and ongoing care.

Engineering-led delivery

Project teams supported by ECSA-registered engineers and experienced technical personnel.

Practical site capability

A national service model backed by project management, supervisors, technicians and field vehicles.

Protection that stays ready

Planned maintenance, corrective work, impairment control and clear digital service records.

WHERE WE WORK

Regional presence. National reach.

Fire Risk Systems combines regional service hubs with national project and maintenance coverage. The highlighted points identify our principal regional bases.



REGIONAL SERVICE HUBS

01 WESTERN CAPE
Cape Town

02 NORTH WEST
Rustenburg

03 GAUTENG
Johannesburg head office

04 KWAZULU-NATAL
Richards Bay

NATIONAL SERVICE COVERAGE

Regional hubs support projects, installation and ongoing maintenance across South Africa.

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SERVICE VEHICLES

OUR PEOPLE

The team behind the work

Led by Managing Director Lee Mulla, Fire Risk Systems brings together operations and engineering, finance and administration, construction, technical service, quality and SHE. Registered ASIB and NFPA designers provide specialist design support where project requirements call for it.



LEE MULLA
MANAGING DIRECTOR



ANGELA DOS SANTOS
ADMINISTRATION MANAGER



CAROLINE BUX
FINANCE MANAGER



DEAN NORD
ASIB AND NFPA DESIGNER



DENZIL TODD
QUALITY MANAGER



GILBERT MACHELE
OPERATIONS MANAGER, ECSA REGISTERED ENGINEER



KAGISO MOTSUENYANE
CONSTRUCTION MANAGER



LIONEL PRETORIUS
SHE MANAGER



VIKTOR SCHIPPANI
TECHNICAL MANAGER, DETECTION AND GAS

HOW WE WORK

From concept to continuous care

Fire Risk Systems brings assessment, design, project delivery and aftercare together in one coordinated fire-protection lifecycle. Each stage is shaped around the site hazard, operating conditions and project requirements.



01 DESIGN AND CONSULTING

Hydraulic calculations, risk and storage analyses, fire plans and rationales; sprinkler, foam, gas, aspiration and detection design; project scopes, audits and drawings.

02 PROJECT MANAGEMENT

Set objectives, scope, deliverables, milestones and programme; manage constraints and interfaces; coordinate handover files, data sheets and sign-off.

03 NEW INSTALLATIONS

Detection, aspiration, sprinkler, gas and foam systems; conveyor, transformer and warehouse protection; fire doors, pumps and water tanks.

04 MAINTENANCE CONTRACTS

Operator training, room-integrity testing, inspections, system repairs, sprinkler, gas, pump and door maintenance, plus 24-hour call-out support.

DEFINED SCOPE • QUALITY CONTROLS • COMMISSIONING • DOCUMENTED HANDOVER

FIRE PROTECTION SERVICES

Complete systems. Joined-up protection.

Fire Risk Systems delivers fire protection design, installation, testing and maintenance across connected life-safety and asset-protection systems. Each solution is developed around the facility, hazard and operating requirements.

01 Detection and alarms

Conventional and addressable fire detection, alarm systems, aspirating smoke detection and linear heat detection.

02 Sprinklers and deluge

Wet, dry, pre-action, in-rack and deluge systems for plants, warehouses, conveyors and process areas.

03 Gas suppression

Clean-agent and inert-gas systems for suitable enclosed hazards, with calculations and room integrity testing.

04 Pumps and water

Fire pump sets, tanks, hydrants, hose reels, water reticulation and flow testing.

05 Passive fire protection

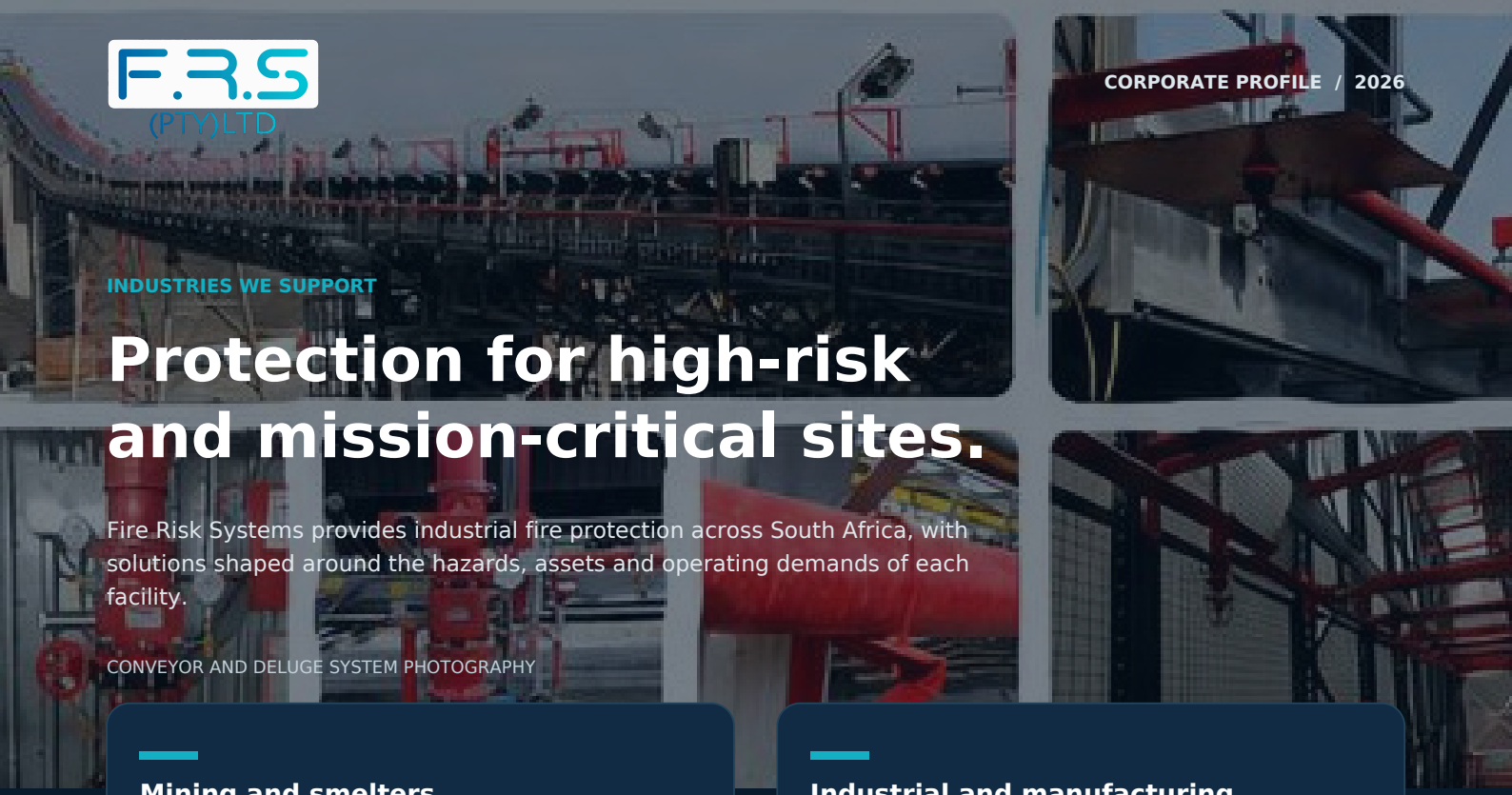
Fire doors, fire stopping and protective treatments for cables, structures and critical infrastructure.

06 Equipment and response

Portable fire equipment, inspection and servicing, fault finding and urgent corrective support.

SPECIALIST SERVICES

Fire risk assessments | Fire system design | Compliance audits | Gas calculations | Room integrity testing | Testing and commissioning | Routine and non-routine maintenance



INDUSTRIES WE SUPPORT

Protection for high-risk and mission-critical sites.

Fire Risk Systems provides industrial fire protection across South Africa, with solutions shaped around the hazards, assets and operating demands of each facility.

CONVEYOR AND DELUGE SYSTEM PHOTOGRAPHY

Mining and smelters

Conveyors, substations, process plants, workshops and critical buildings.

Industrial and manufacturing

Integrated protection for production lines, utilities and high-value assets.

Food and beverage

Phased upgrades and service planning that work around live production.

Warehousing and logistics

Detection, sprinklers, pumps and deluge for storage and distribution sites.

Data centres

Detection and clean-agent suppression for critical rooms and support spaces.

Energy and utilities

Fire protection for generation, distribution and infrastructure assets.

Commercial portfolios

Consistent audits, maintenance and reporting across multiple sites.

ONE PARTNER. NATIONAL COVERAGE.

Site-focused delivery backed by coordinated project, installation and maintenance teams.

SELECTED PROJECT EXPERIENCE

Trusted on complex sites

Fire Risk Systems has delivered and supported fire protection scopes across mining, smelting, manufacturing, food and beverage, utilities and commercial facilities. The examples below show the range of systems coordinated across client environments.



FRS PROJECT PHOTOGRAPH
Inert-gas suppression cylinder bank

VALTERRA PLATINUM | MORTIMER SMELTER

Conveyor and smelter area protection, fire detection, linear heat detection, gas suppression and fire-water reticulation.

RCL FOODS

Phased integrated upgrades across detection, gas suppression, fire doors, sprinklers, pumps and deluge, supported by ongoing maintenance.

ESKOM

Multi-site fire protection scopes covering gas suppression, detection, fire doors, sprinkler systems and fire pumps.

SIBANYE STILLWATER

Conveyor protection, fire detection and gas suppression across complex mining environments.

PG BISON

Fire detection, gas suppression and fire-door projects, supported by site servicing experience.

AB INBEV / SAB

FYREBOX(TM) plug-and-play fire notification deployed across distribution facilities.

SELECTED CLIENT EXPERIENCE

Anglo American | De Beers | Unilever | Impala Platinum | OUTsurance | Isanti Glass

CREDENTIALS AND COMPLIANCE

Clear credentials. Responsible design.

Fire Risk Systems combines registered contractor capability, engineering support and specialist design partnerships. Company credentials and individual professional registrations are stated separately so clients can see who holds each qualification.

CIDB

Registered contractor

ECSA

Project engineering delivered with ECSA-registered engineers

PROUDLY SOUTH AFRICAN

Registered Proudly South African business

B-BBEE LEVEL 1

Black female empowered company

SAQCC FIRE

Fire personnel registered by applicable category

SPECIALIST DESIGN

Fire Risk Systems works with registered ASIB and NFPA designers where project requirements call for specialist design input.

SANS REFERENCE STANDARDS

South African design references include SANS 10139 for fire detection and alarms, SANS 10287 for automatic sprinklers, SANS 10400 for building fire safety and SANS 14520 for gaseous fire-extinguishing systems. Other applicable SANS requirements are included where required by the project.

DESIGN BASIS

Client, insurer and authority criteria are confirmed at the outset, including NFPA requirements where specified.

QUALITY FROM PLANNING THROUGH HANDOVER

- Project-specific inspection and test plans, hold points and quality records.
- Product traceability, installation checks and coordinated interface reviews.
- Testing, commissioning, defect close-out and complete handover documentation.

NATIONAL COVERAGE AND AFTERCARE

Protection that lasts beyond handover

Fire Risk Systems supports clients through routine maintenance, non-routine repairs, inspections, impairment management, room integrity testing and digital service reporting. Our service teams help clients understand system condition, prioritise defects and keep a clear record of actions across their sites.

FIRE SYSTEM MAINTENANCE

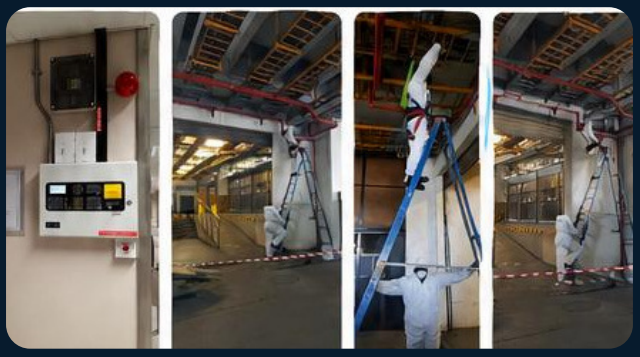
- Planned inspections and preventive servicing.
- Fault finding, corrective repairs and remedial quotations.
- Impairment recording, escalation and close-out.
- Room integrity testing and commissioning support.
- Digital reports with findings, photos and follow-up actions.

FRS OPERATING FOOTPRINT

Fire Risk Systems provides fire protection services nationally, supported by local teams and coordinated delivery.

JOHANNESBURG	Head office
NORTH WEST	Rustenburg
WESTERN CAPE	Cape Town
RICHARDS BAY	KwaZulu-Natal

A CONNECTED SERVICE RECORD



Selected FRS passive fire protection work.

Audit Assist supports QR-based inspection workflows, photo capture and traceable service reporting for clients who want a clearer view of site condition and outstanding actions.

TALK TO FIRE RISK SYSTEMS

Start with a site assessment.

Tell us about your facility, system or project. We will discuss the risk, scope and practical next steps.

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FREE SITE ASSESSMENT