MECHNEX
ENGINEERING & CONTRACTING

FIRE FIGHTING · FIRE ALARM · LIFE SAFETY

Protecting people, property and business.

Fire Protection Systems Profile · 2026

AN AL-RIFAI GROUP COMPANY KINGDOM OF SAUDI ARABIA



ABOUT THIS PROFILE

Fire and life-safety systems, from design to maintenance.

MECHNEX designs, supplies, installs and maintains fire fighting and fire alarm systems for buildings and facilities in every region of the Kingdom.

Every system is engineered to NFPA standards and the Saudi Fire Code, submitted for Civil Defense approval, tested on site and handed over with full documentation.

Fire Fighting | Fire Alarm | Special Hazards | Civil Defense Approvals



FIRE SYSTEMS AT A GLANCE

Fire protection, at scale.

100+

Clients served

Banks, industry, retail, healthcare and education

13

Regions covered

Every administrative region of the Kingdom

8

System types

From sprinklers and pumps to detection and evacuation

18

Fire safety brands

International and Saudi manufacturers

Specialised fire protection engineers and technicians

DESIGN · SUPPLY · INSTALL · MAINTAIN

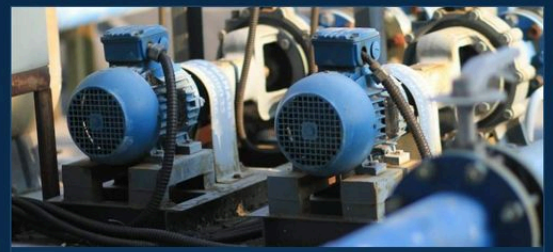
WHAT WE DELIVER

Eight fire protection systems under one contract.



01

Sprinkler systems



02

Fire pumps



03

Hydrants & hose reels



04

Fire hoses & stations



05

Fire alarm & detection



06

Voice evacuation



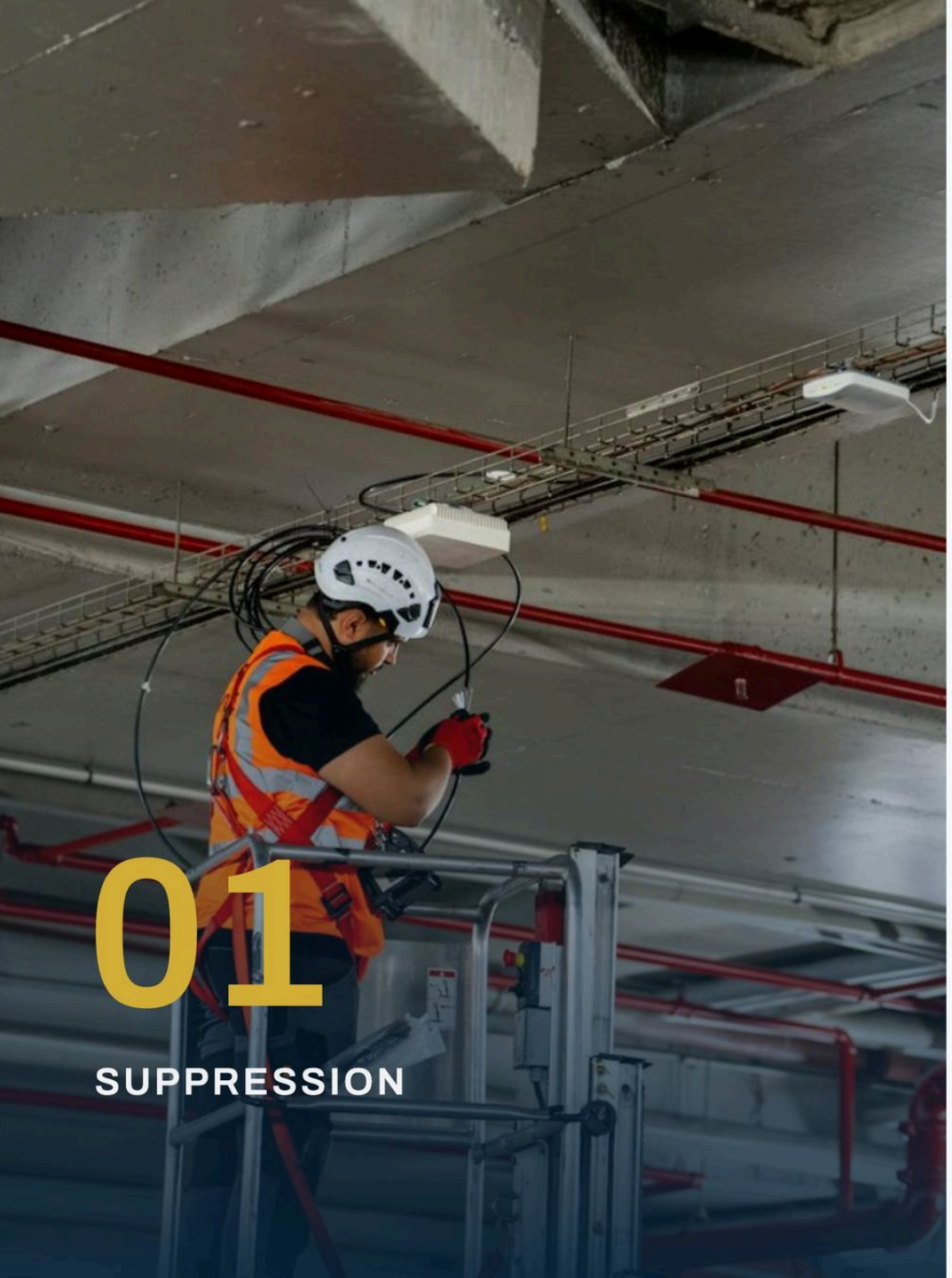
07

Valves & accessories



08

Fire extinguishers



01

SUPPRESSION

WATER-BASED SYSTEMS

Sprinkler & Suppression Systems

Automatic sprinkler and special-hazard systems, hydraulically calculated for each building and hazard class.

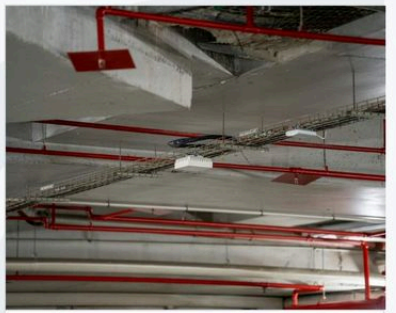
- Wet and dry pipe sprinklers
- Deluge and pre-action
- Foam systems
- Clean-agent and CO2
- Kitchen hood suppression
- Hydraulic calculations



Sprinkler assembly



Valve and gauge



Sprinkler pipework



02

PUMPS & HYDRANTS

WATER SUPPLY

Fire Pumps, Hydrants & Hose Reels

Reliable fire water supply: listed pump sets, controllers, hydrant networks and hose reel systems.

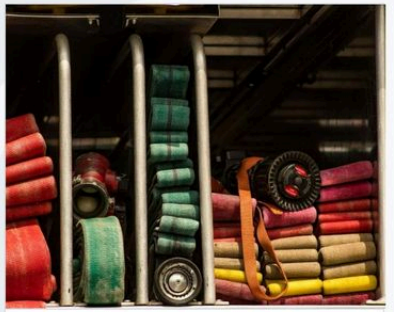
- UL/FM fire pump sets
- Jockey pumps and controllers
- External hydrant networks
- Landing valves and standpipes
- Hose reel cabinets
- Flow and pressure testing



Pump sets



Fire hydrant



Hose stations



03

DETECTION

FIRE ALARM

Fire Alarm & Detection Systems

Early detection, alarm and evacuation, from device layout to commissioning and cause-and-effect testing.

- Addressable and conventional
- Smoke, heat and multi-sensor
- Voice evacuation
- Emergency lighting
- Networked panels
- Interfaces to lifts and HVAC



Manual call point



Smoke detector



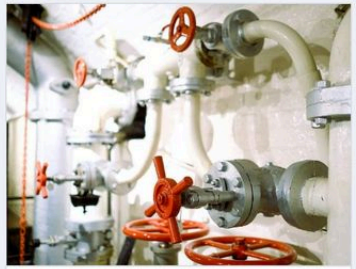
Alarm sounder

EQUIPMENT WE SUPPLY

Listed equipment from recognised manufacturers.



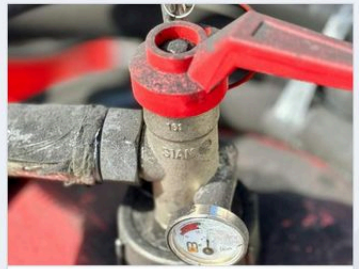
Sprinkler head



Control valves



Valve sets



Valve & gauge



Fire hydrant



Fire hoses



Hose stations



Extinguisher



Extinguisher points



Call point



Strobe sounder



Smoke detector

CODES & STANDARDS

Designed and installed to recognised standards.

Standard	Scope
NFPA 13	Installation of sprinkler systems
NFPA 14	Standpipe and hose systems
NFPA 20	Stationary fire pumps
NFPA 72	Fire alarm and signalling
NFPA 10	Portable fire extinguishers
NFPA 11 / 2001	Foam and clean-agent systems
SBC 801	Saudi Fire Code

FROM START TO HANDOVER

Six steps from survey to Civil Defense handover.

01

Survey & Scope

Site survey, hazard review and scope.

02

Design

Shop drawings and hydraulic calculations.

03

Approvals

Submittals to the consultant and Civil Defense.

04

Supply

UL / FM listed equipment.

05

Install & Test

Hydrostatic, flow and alarm tests.

06

Handover

As-built drawings, training and certificates.

One point of contact, from survey to handover.

DESIGN · SUPPLY · INSTALL · MAINTAIN

SCOPE OF CAPABILITY

Full life-cycle delivery for every system.

System	Design	Supply	Install	Test & Commission	Maintain
Sprinkler systems	✓	✓	✓	✓	✓
Fire pumps	✓	✓	✓	✓	✓
Hydrants & hose reels	✓	✓	✓	✓	✓
Foam & clean agent	✓	✓	✓	✓	✓
Fire alarm & detection	✓	✓	✓	✓	✓
Voice evacuation	✓	✓	✓	✓	✓



KINGDOM-WIDE COVERAGE

Fire protection in every region of the Kingdom.

Teams operating from Riyadh, Jeddah, Madinah, Taif and Jazan deliver and maintain fire protection systems across all 13 regions.

OPERATING CITIES

- Riyadh
- Jeddah
- Madinah
- Taif
- Jazan

SECTORS WE SERVE

Built for the buildings our clients run.

01

Banking & Offices

Sprinklers, alarm and extinguishers for branches and head offices.

02

Retail & Malls

Full coverage for large public floor areas.

03

Industry & Factories

Foam, hydrants and pumps for higher-hazard sites.

04

Warehouses & Logistics

In-rack sprinklers and hydrant networks.

05

Healthcare

Life-safety systems for hospitals and clinics.

06

Education & Hospitality

Alarm, evacuation and suppression for schools and hotels.

Every system designed around how the building is used.

SURVEY · DESIGN · INSTALL · MAINTAIN

BRANDS WE SUPPLY & INSTALL

Fire safety manufacturers we supply and install.

Honeywell

SimplexGrinnell

ESSER by Honeywell

GENT by Honeywell

COOPER

VES Fire Detection Systems

Context Plus

tyco

ANSUL Innovative Fire Solutions

FirePro.

SFFECO

SPS

Safety Hi-Tech

GIACOMINI Water E-Motion

JAECO Al-Jazera Factory

INTERPIPE

HEBA

LIFECO

OUR CLIENTS

Trusted by 100+ clients across the Kingdom.



ONE COMPANY, EVERY SERVICE

Part of an integrated MEP contractor.

Fire protection is one of six services MECHNEX delivers. Clients who need security, HVAC, electrical, plumbing or maintenance get them from the same team, under one contract.

01
Fire Protection

02
CCTV & Security

03
HVAC & Ductwork

04
Electrical Works

05
Plumbing Works

06
Maintenance & O&M

Ask for the MECHNEX main company profile, or the profile of any service above.

WHY MECHNEX

Why clients trust us with fire safety.

01

Specialist team

Engineers and technicians dedicated to fire and life safety.

02

Approval-ready

Designs prepared for consultant and Civil Defense approval.

03

Listed equipment

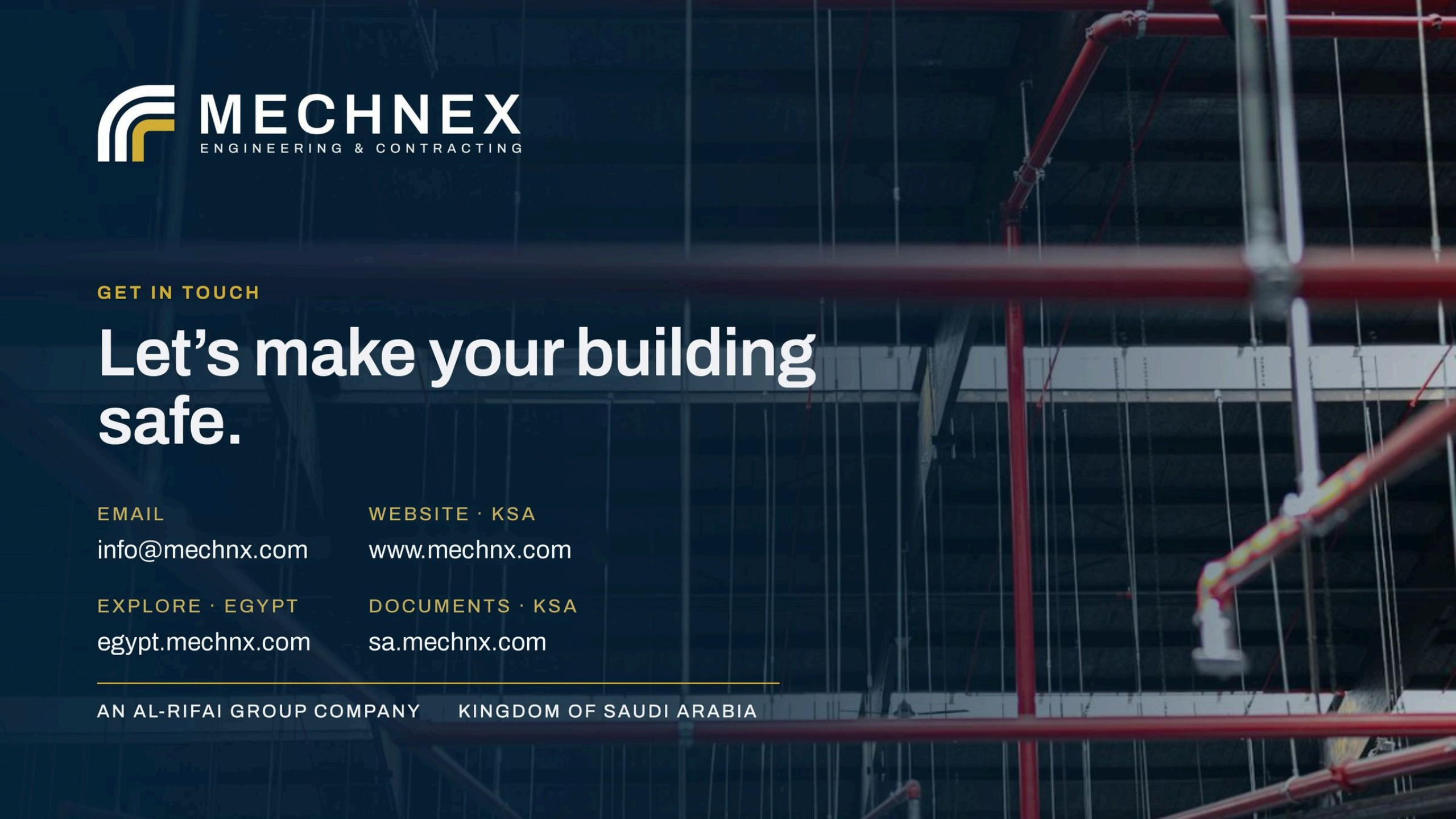
UL / FM listed systems from recognised brands.

04

Life-cycle care

Testing and maintenance after handover.

TRUSTED BY



MECHNEX
ENGINEERING & CONTRACTING

GET IN TOUCH

Let’s make your building safe.

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