MECHNEX
ENGINEERING & CONTRACTING

GENERAL PRE-QUALIFICATION · 2026

Technical Capability Statement

Fire Protection Systems

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

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

01 · OVERVIEW

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.

100+	13	8	18
Clients served	**Regions covered**	**System types**	**Fire safety brands**
Banks, industry, retail, healthcare and education	Every administrative region of the Kingdom	From sprinklers and pumps to detection and evacuation	International and Saudi manufacturers

Profile

ITEM	DETAIL
Company	MECHNEX Engineering & Contracting — an Al-Rifai Group company
Service line	Fire Protection Systems
Scope	Design · Supply · Install · Test & Commission · Maintain
Operating cities	Riyadh · Jeddah · Madinah · Taif · Jazan
Coverage	All 13 regions of the Kingdom
Clients served	100+ across banking, retail, industry, logistics, healthcare and education

Why MECHNEX

Specialist team
Engineers and technicians dedicated to fire and life safety.

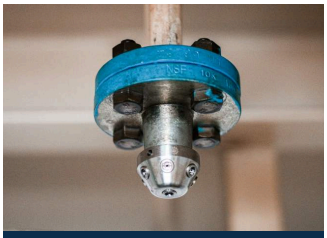
Approval-ready
Designs prepared for consultant and Civil Defense approval.

Listed equipment
UL / FM listed systems from recognised brands.

Life-cycle care
Testing and maintenance after handover.

02 · WHAT WE DELIVER

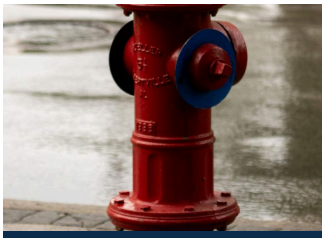
Eight fire protection systems under one contract.



01 Sprinkler systems



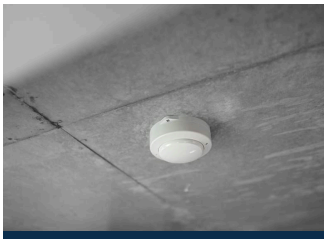
02 Fire pumps



03 Hydrants & hose reels



04 Fire hoses & stations



05 Fire alarm & detection



06 Voice evacuation



07 Valves & accessories

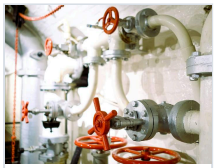


08 Fire extinguishers

Listed equipment from recognised manufacturers.



Sprinkler head



Control valves



Valve sets



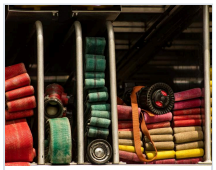
Valve & gauge



Fire hydrant



Fire hoses



Hose stations



Extinguisher



Extinguisher points



Call point



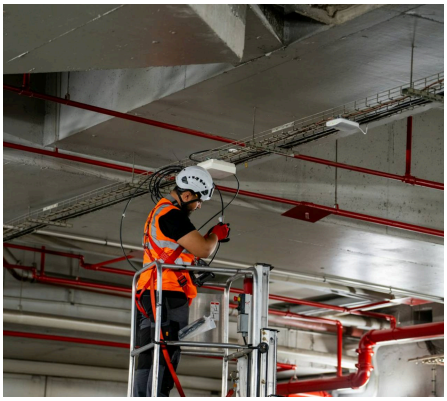
Strobe sounder



Smoke detector

03 · CAPABILITIES IN DETAIL

How we deliver each system.



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



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



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

04 · 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	✓	✓	✓	✓	✓

05 · 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

06 · DELIVERY PROCESS

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.

07 · TECHNICAL RESOURCES

A dedicated Fire Systems team.

FUNCTION	ROLES
Engineering	Fire protection and fire alarm engineers, hydraulic design
Projects	Project managers and site supervisors
Technical	Fire fighting, pump and fire alarm technicians
Estimation	Estimators and quantity surveyors
QHSE	Safety officers and QA/QC inspectors
Maintenance	Fire system service crews

Quality, health, safety & environment

Inspection & test plans
Witnessed tests and signed records on every project.

Approved materials
Submittals approved before procurement.

Site safety
Safety plan, toolbox talks and permit-to-work.

Continuous improvement
Corrective actions and lessons learned at close-out.

08 · MANUFACTURERS

Fire safety manufacturers we supply and install.

The final make follows the project's approved vendor list.

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

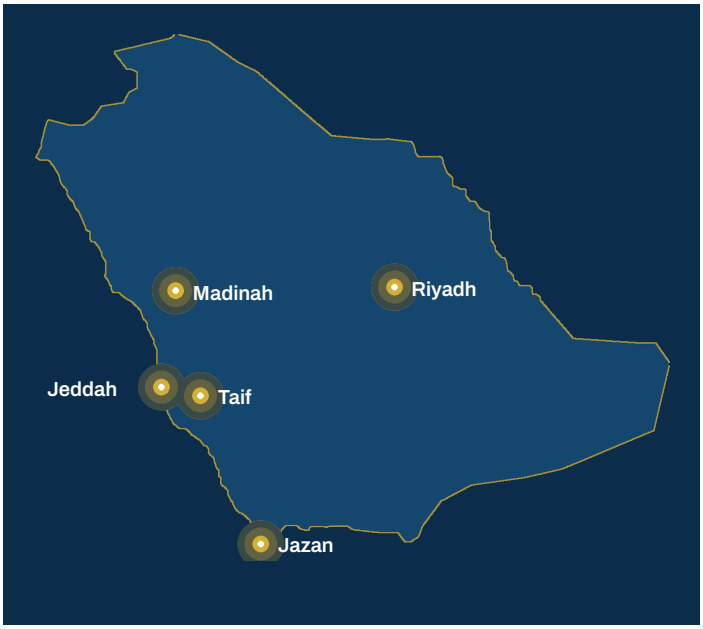
09 · SECTORS WE SERVE

Built for the buildings our clients run.

SECTOR	TYPICAL SCOPE
Banking & Offices	Sprinklers, alarm and extinguishers for branches and head offices.
Retail & Malls	Full coverage for large public floor areas.
Industry & Factories	Foam, hydrants and pumps for higher-hazard sites.
Warehouses & Logistics	In-rack sprinklers and hydrant networks.
Healthcare	Life-safety systems for hospitals and clinics.
Education & Hospitality	Alarm, evacuation and suppression for schools and hotels.

10 · 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.

Riyadh · Jeddah · Madinah · Taif · Jazan

11 · SELECTED CLIENTS

Trusted by 100+ clients across the Kingdom.

alrajhi bank · Bank Albilad · SNB الأهلي · Abdul Latif Jameel · TOYOTA · CHANGAN AUTO
Babgi · Saudi Binladin Group · اسمنت العربية Arabian Cement · Umm Al Qura Cement · LuLu · الطائف
عبد الصمد القرشي Abdul Samad al Qurashi · Jeddah Hilton · BOUDL HOTELS & RESORTS · فقيه أكواريوم Fakieh Aquarium · ناقل اكسبرس · مصنع ألف نون للرخام ALIF NOON MARBLE FACTORY
باك كير PACK CARE · علي كيفك ALI KAIFAK · مياه روز ROSE WATER · مياه سما SAMA WATER

References are available on request.

12 · 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**

13 · REGISTRATIONS & DOCUMENTS

Qualification documents.

MECHNEX holds the registrations and approvals required for its scope of work. Certified copies are submitted with the pre-qualification file or on request.

DOCUMENT	AVAILABILITY
Commercial Registration	On request
Civil Defense approval for fire & safety works	On request
Contractor classification	On request
VAT registration (ZATCA), Zakat and GOSI certificates	On request
Chamber of Commerce membership	On request
Saudi Council of Engineers registrations	On request
Manufacturer authorisation letters	On request

14 · CONTACT

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