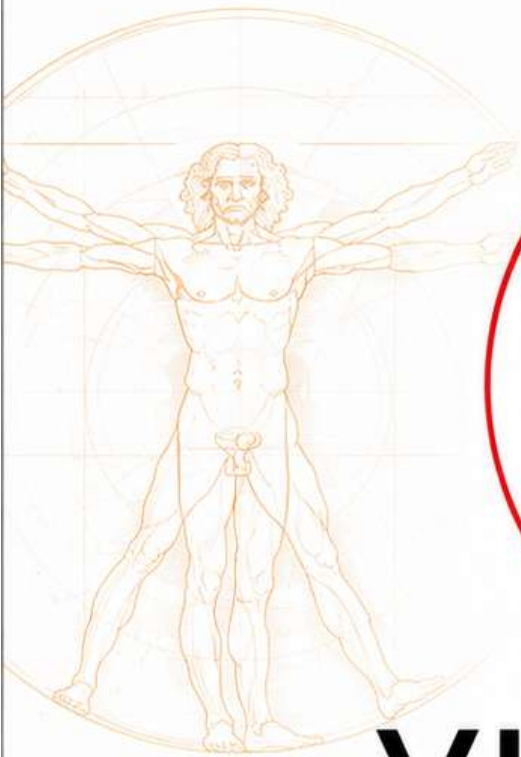




VITRUVIUS

FIRE SAFETY CONSULTING

FZ-LLC

Engineering Safer Environments Through
Fire, **Life Safety** and **Risk Intelligence**



FIRE
ENGINEERING



LIFE SAFETY
SOLUTIONS



RISK &
RESILIENCE



CRITICAL
INFRASTRUCTURE



COMPLIANCE &
ADVISORY

GUARDIANS OF SAFETY, ARCHITECTS OF PROTECTION

WHO WE ARE

ENGINEERING SAFETY BEYOND COMPLIANCE

At Vitruvius Fire Safety Consulting, we believe that fire and life safety engineering is about far more than compliance with codes and regulations. It is about protecting people, preserving critical assets, enabling operational resilience, and creating environments where occupants can live, work, travel, and thrive with confidence.

Founded on the principles of innovation, technical excellence, and practical engineering, Vitruvius provides specialist fire engineering, life safety, risk, and resilience consulting services across the Middle East, Central Asia, and India.

Our approach combines international best practices, performance-based engineering methodologies, and deep understanding of regional regulatory frameworks to deliver solutions that are both technically robust and commercially practical.

From airports and transportation infrastructure to high-rise developments, industrial facilities, hospitality destinations, healthcare facilities, and mixed-use communities, we help clients navigate complex fire and life safety challenges throughout the project lifecycle.



AIRPORTS



RAIL & METRO



HIGH-RISE DEVELOPMENTS



TUNNELS



INDUSTRIAL & ENERGY

OUR PHILOSOPHY

SAFETY BY DESIGN. PERFORMANCE BY ENGINEERING.

We believe that the most effective fire and life safety solutions are achieved when **safety considerations** are integrated into the design process from the earliest stages of a project.

By combining engineering analysis, risk assessment, computational modelling, and practical industry experience, we support our clients in developing solutions that enhance safety, improve functionality, and deliver long-term value.



OUR MISSION

To engineer safer environments through innovative fire, life safety, and risk solutions that protect people, assets, operations, and communities.



FIRE ENGINEERING

Performance-based fire strategies, code compliance, fire protection systems, CFD modelling, evacuation analysis, and authority approvals.



RISK & RESILIENCE

Fire risk assessments, explosion risk studies, quantitative risk assessments, emergency planning, and operational safety reviews.



CRITICAL INFRASTRUCTURE

Airports, metro systems, tunnels, transportation hubs, industrial facilities, logistics developments, and complex infrastructure projects.



INTERNATIONAL PRESENCE

Serving the Middle East, Central Asia and India.



MULTI-SECTOR EXPERTISE

Airports, rail, tunnels, high-rise developments, hospitality, industrial and critical infrastructure.



EXPERIENCED LEADERSHIP

Led by professionals with extensive international fire engineering and life safety experience.



PERFORMANCE FOCUSED

Engineering solutions beyond prescriptive compliance.



INDEPENDENT ADVISORY

Practical, objective and client-focused solutions.

GUARDIANS OF SAFETY, ARCHITECTS OF PROTECTION

WHY VITRUVIUS FIRE?

ENGINEERING CONFIDENCE. DELIVERING RESILIENCE.

In today's complex built environment, fire and life safety challenges extend far beyond code compliance. Clients require solutions that balance safety, operational functionality, commercial objectives, sustainability, and regulatory requirements.

Vitruvius Fire combines international experience, engineering innovation, and practical industry knowledge to deliver solutions that protect people, assets, operations, and long-term project value.



FIRE ENGINEERING

Performance Beyond
Prescriptive Compliance



We develop fire and life safety strategies that address complex design challenges through engineering analysis and performance-based methodologies.

KEY SERVICES

- Fire Strategy Development
- Performance-Based Design
- CFD Smoke Modelling
- Evacuation Analysis
- Fire Protection Design
- Authority Compliance Support

VALUE TO CLIENTS

- ✓ Optimised designs
- ✓ Reduced project constraints
- ✓ Enhanced safety outcomes
- ✓ Regulatory compliance



RISK & RESILIENCE

Understanding Risk.
Protecting Operations.



We support clients in identifying, assessing, and mitigating fire, explosion, and operational risks across a wide range of developments and critical facilities.

KEY SERVICES

- Fire Risk Assessments
- Fire & Explosion Risk Assessment (FERA)
- Quantitative Risk Assessment (QRA)
- Emergency Response Planning
- Asset Condition Assessments
- Operational Safety Reviews

VALUE TO CLIENTS

- ✓ Reduced operational risk
- ✓ Improved resilience
- ✓ Better decision making
- ✓ Enhanced business continuity



CRITICAL INFRASTRUCTURE

Safeguarding
Essential Assets.



Vitruvius Fire provides specialist advisory services for complex infrastructure projects where safety, reliability, and operational continuity are critical.

SECTORS

- Airports
- Metro Systems
- Rail Infrastructure
- Tunnels
- Industrial Facilities
- Logistics & Transportation Hubs

VALUE TO CLIENTS

- ✓ Specialist expertise
- ✓ Infrastructure-focused solutions
- ✓ Multi-disciplinary coordination
- ✓ Long-term asset protection

“

We do not simply interpret codes.
We apply **engineering judgment, risk intelligence, and practical experience**
to create safer and more resilient environments.

”

WHY CLIENTS CHOOSE VITRUVIUS FIRE



INDEPENDENT ADVICE

Unbiased, objective
and in your best
interest.



SENIOR-LEVEL INVOLVEMENT

Direct access to
experienced
professionals.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions
tailored to project-specific
challenges.



CRITICAL INFRASTRUCTURE EXPERTISE

Proven capability in complex
and high-risk environments.



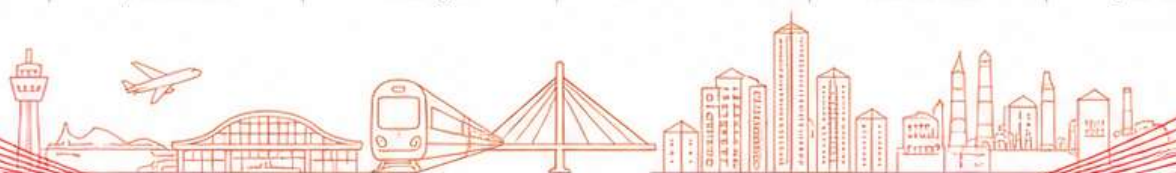
INTERNATIONAL EXPERIENCE

Experience across the
Middle East, Central
Asia and India.



CLIENT-FOCUSED DELIVERY

Responsive, reliable
and committed to
your success.



OUR SERVICES

Comprehensive Fire Engineering, Life Safety and Risk Advisory Services

Vitruvius Fire provides specialist consulting services across the full lifecycle of developments, infrastructure projects, industrial facilities, and operational assets.

Our multidisciplinary expertise enables us to support clients from concept planning through design, construction, commissioning, operation, and asset management.



1. FIRE ENGINEERING

Performance-Based Safety Solutions

We develop innovative fire engineering solutions that achieve compliance while supporting architectural intent, operational functionality, and commercial objectives.

- Fire Strategy Development
- Performance-Based Design
- Fire & Life Safety Compliance Reviews
- Alternative Solutions
- Authority Approvals Support
- Fire Engineering Peer Reviews



2. FIRE PROTECTION SYSTEMS

Active Fire Protection Design

Specialist design and review of fire protection systems to international and local standards.

- Sprinkler Systems
- Hydrant Systems
- Water Mist Systems
- Foam Suppression Systems
- Clean Agent Systems
- Fire Detection & Alarm Systems
- Smoke Control Systems
- Fire Water Storage & Pumping Systems

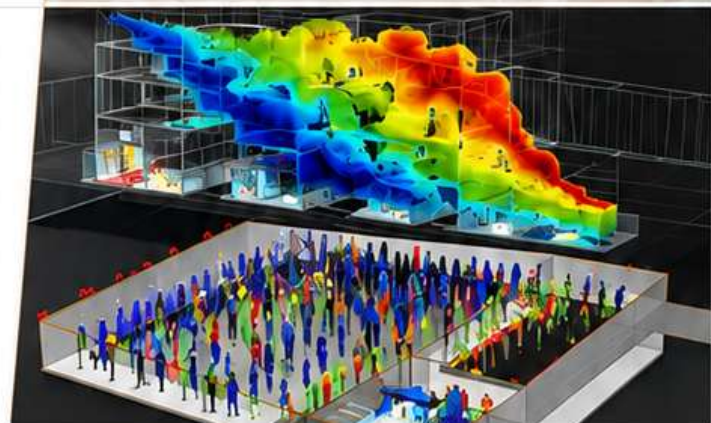


3. CFD & EGRESS MODELLING

Advanced Computational Analysis

Engineering simulation tools used to evaluate fire behaviour, smoke movement, and occupant evacuation performance.

- CFD Smoke Modelling
- Smoke Control Analysis
- Evacuation Modelling
- Pedestrian Movement Analysis
- Tenability Assessment
- Performance-Based Design Verification



SPECIALIST CAPABILITY AREAS



Airports &
Aviation Facilities



Metro & Rail
Infrastructure



Tunnels &
Underground
Facilities



Data
Centres



Energy &
Industrial
Facilities



Hydrogen &
Emerging
Technologies



Mixed-Use &
High-Rise
Developments



4. RISK & RESILIENCE

Understanding Risk. Improving Resilience.

Assessment and mitigation of fire, explosion, and operational risks affecting people, assets, and business continuity.

- Fire Risk Assessments
- Fire & Explosion Risk Assessment (FERA)
- Quantitative Risk Assessment (QRA)
- Hazard Identification Studies
- Emergency Response Planning
- Business Continuity Support



5. INSPECTIONS & AUDITS

Independent Technical Assurance

Assessment of existing facilities and systems to verify compliance, functionality, and operational readiness.

- Fire Safety Audits
- Asset Condition Assessments
- Existing Building Evaluations
- Due Diligence Reviews
- Regulatory Compliance Audits
- Fire System Inspections



6. TRAINING & ADVISORY

Building Knowledge and Capability

Supporting clients through technical training, workshops, and specialist advisory services.

- Fire Safety Awareness Training
- Emergency Response Training
- Technical Workshops
- Authority Compliance Guidance
- Operational Preparedness Reviews
- Expert Witness & Specialist Advisory Services

SUPPORTING PROJECTS FROM CONCEPT TO OPERATIONS



CONCEPT



DESIGN



CONSTRUCTION



COMMISSIONING



OPERATION



ASSET
MANAGEMENT

SECTOR EXPERTISE

SPECIALIST FIRE ENGINEERING, LIFE SAFETY & RISK ADVISORY ACROSS DIVERSE SECTORS

Vitruvius Fire supports clients across a broad range of industries and asset types, delivering tailored solutions that address the unique operational, regulatory, and safety challenges associated with each sector.



1. AIRPORTS & AVIATION

Protecting Critical Transportation Infrastructure

Airports present some of the most complex fire and life safety challenges, requiring seamless integration of passenger safety, operational continuity, security requirements, and regulatory compliance.

TYPICAL SERVICES

- Airport Fire Strategies
- Terminal Building Fire Engineering
- Smoke Management
- CFD Modelling
- Evacuation Analysis
- Asset Condition Assessments

REPRESENTATIVE EXPERIENCE

- International Airport Developments
- Airport Asset Assessment Programs
- Terminal Expansions
- Airside Support Facilities



2. METRO & RAIL

Engineering Safety for High-Capacity Transit Systems

Specialist expertise supporting metro, rail, station, depot, and transportation infrastructure projects.

TYPICAL SERVICES

- Station Fire Strategies
- Tunnel Safety Reviews
- Smoke Control Systems

REPRESENTATIVE EXPERIENCE

- Evacuation Assessments
- Authority Compliance Support



3. TUNNELS & UNDERGROUND FACILITIES

Managing Risk in Confined Environments

Fire and smoke events within tunnels present unique challenges requiring specialist engineering analysis and emergency planning.

TYPICAL SERVICES

- Tunnel Fire Safety Strategies
- Smoke Modelling
- Emergency Response Planning

REPRESENTATIVE EXPERIENCE

- Ventilation Assessments
- Performance-Based Design



4. COMMERCIAL & MIXED-USE DEVELOPMENTS

Creating Safe, Functional and Efficient Environments

Supporting architects, developers, and design teams in delivering complex developments while maintaining safety and design intent.

TYPICAL SERVICES

- Fire Engineering Strategies
- Life Safety Compliance
- Smoke Control Design

REPRESENTATIVE EXPERIENCE

- Performance-Based Solutions
- Design Review & Coordination

SECTORS WE SUPPORT



AIRPORTS



METRO & RAIL



TUNNELS



COMMERCIAL



HOSPITALITY



RESIDENTIAL



INDUSTRIAL



ENERGY



5. HOSPITALITY & LEISURE

Delivering Safe and Memorable Experiences

Hotels, resorts, entertainment venues, and destination developments requiring integrated life safety solutions and operational resilience.

TYPICAL SERVICES

- Fire Safety Strategies
- Life Safety Compliance
- Smoke Control Systems

FOCUS AREAS

- Emergency Planning
- Fire Protection Design
- Operational Risk Support



6. RESIDENTIAL & HIGH-RISE DEVELOPMENTS

Engineering Safety for Vertical Communities

Fire engineering solutions for residential towers, mixed-use communities, and large-scale urban developments.

TYPICAL SERVICES

- Fire Strategies
- Smoke Control
- Means of Escape Assessments

FOCUS AREAS

- Refuge Strategy Development
- Fire Protection Design Reviews
- Authority Approvals Support



7. INDUSTRIAL & LOGISTICS

Protecting Assets. Ensuring Business Continuity.

Supporting manufacturing facilities, warehouses, logistics hubs, and industrial operations where asset protection and business continuity are critical.

TYPICAL SERVICES

- Fire Risk Assessments
- Fire Protection Design
- Hazard Analysis

FOCUS AREAS

- Emergency Planning
- Operational Safety Reviews
- Compliance & Due Diligence



8. ENERGY & EMERGING TECHNOLOGIES

Supporting a Safer Energy Future

Specialist support for high-hazard facilities and emerging technologies that are shaping the future of energy.

FOCUS AREAS

- Fuel Storage Facilities
- Hydrogen Applications
- Battery Energy Storage Systems (BESS)

FOCUS AREAS

- Renewable Energy Facilities
- Utility Infrastructure
- Process & Chemical Plants



EXPERIENCE ACROSS THE ENTIRE BUILT ENVIRONMENT

From international airports and transportation infrastructure to high-rise developments, industrial facilities, and emerging energy technologies, Vitruvius Fire delivers practical, performance-based solutions tailored to each sector's unique challenges.



AIRPORTS



METRO & RAIL



TUNNELS



COMMERCIAL



HOSPITALITY



RESIDENTIAL



INDUSTRIAL



ENERGY

FOUNDER PROFILE

Vinay Deshpande

FOUNDER & MANAGING DIRECTOR

“ Over 37 years of international experience in fire safety, fire protection systems, risk management, and critical infrastructure.



PROVEN LEADER

Designed and delivered fire safety solutions for some of the most complex and high-profile projects across the Middle East, South Asia and beyond.



TECHNICAL EXPERTISE

Fire protection system design, code compliance, project management and authority liaison across international standards including NFPA, BS, UAE Fire Code, SBC and NBC India.



EXTENSIVE PORTFOLIO

Airports, mixed-use towers, petrochemical facilities, theme parks, high-rise developments and critical infrastructure projects.



THOUGHT LEADER

Active speaker at major fire safety conferences and contributor to professional fire safety groups and industry forums.



MISSION

To simplify fire safety challenges and deliver cost-effective, practical, and buildable solutions that ensure compliance, safety and operational resilience.



KEY EXPERTISE



Fire Engineering & Life Safety Strategy



Performance-Based Design



CFD & Evacuation Modelling



Fire Risk Assessments (QRA, FERA)



Smoke Management



Authority Approvals & Compliance



Critical Infrastructure & Mega Projects

“

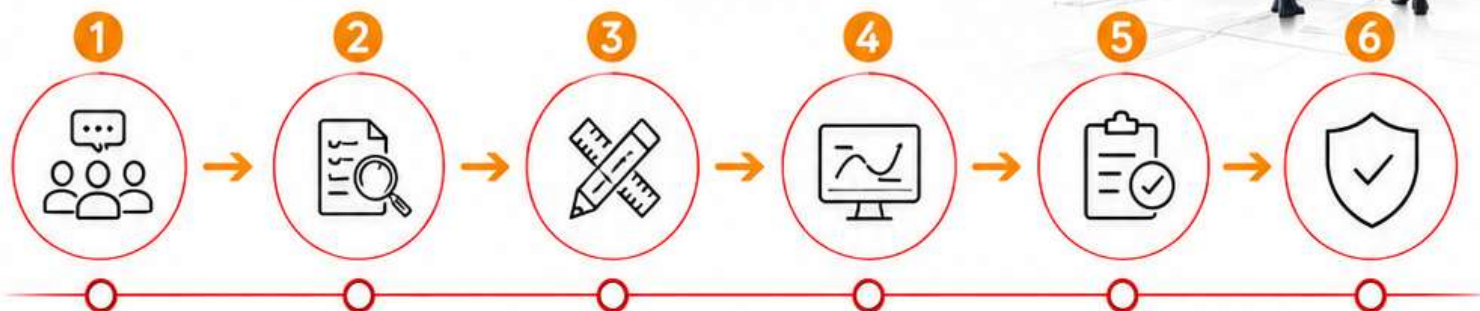
Passionate about engineering excellence and life safety, I envision a future where fire protection is seamlessly integrated into innovation—creating **resilient, sustainable** and **intelligent** built environments.

”

OUR APPROACH

ENGINEERING CONFIDENCE THROUGH A STRUCTURED PROCESS

Our proven methodology ensures fire and life safety solutions are practical, performance-based and aligned with project goals from concept to operation.



UNDERSTAND

We begin by understanding project objectives, stakeholder expectations, operational requirements, regulatory obligations and key risks.

ACTIVITIES

- Project brief review
- Stakeholder workshops
- Regulatory review
- Risk identification



ANALYSE

Detailed evaluation of applicable codes, performance objectives and project constraints.

ACTIVITIES

- Code compliance review
- Gap analysis
- Hazard identification
- Design review



ENGINEER

Development of practical and buildable fire engineering solutions.

ACTIVITIES

- Fire strategies
- Fire protection design
- Smoke management strategies
- Alternative solutions



VALIDATE

Verification of design performance using recognised engineering methodologies.

ACTIVITIES

- CFD modelling
- Evacuation modelling
- QRA / FERA
- Performance assessments



DELIVER

Supporting implementation and regulatory approvals.

ACTIVITIES

- Authority submissions
- Technical reviews
- Construction support
- Site inspections



ASSURE

Ensuring operational readiness and long-term resilience.

ACTIVITIES

- Fire safety audits
- Asset assessments
- Emergency planning
- Operational reviews



From concept development to operational assurance, Vitruvius Fire delivers **practical, performance-based solutions** that balance **safety, compliance, functionality** and **commercial objectives**.



SAFETY
FOCUSED



RISK
INTELLIGENT



PRACTICAL
SOLUTIONS



VALUE
DRIVEN





FOCUS AREA

LUXURY HOTELS

FIRE & LIFE SAFETY ASSURANCE

Protecting Guests. Empowering Operations. Preserving Excellence.

Luxury hotels are high-occupancy, high-expectation environments with complex layouts, premium guest experiences and extensive support facilities. Continuous operational changes, event loads, kitchens, spas, back-of-house areas and technical systems can introduce new fire and life safety risks.

Vitruvius Fire provides independent fire engineering assurance to ensure your hotel remains safe, compliant and resilient—today, tomorrow and for years to come.

KEY FIRE & LIFE SAFETY RISKS IN LUXURY HOTELS



HIGH OCCUPANT
LOAD INCLUDING
GUESTS & STAFF



HIGH FIRE LOAD IN
KITCHENS, LAUNDRY,
STORAGE & BACK OF
HOUSE AREAS



EVENTS, BANQUETS
& TEMPORARY
SETUPS



COMPLEX ROOM
CONFIGURATIONS &
EXTENDED MEANS
OF ESCAPE



ELECTRICAL LOAD,
KITCHENS, EV CHARGING
& TECHNICAL SYSTEMS



SYSTEM RELIABILITY,
MAINTENANCE &
MANAGEMENT
OVERSIGHT

OUR FIRE ENGINEERING ASSURANCE SERVICES



FIRE LOAD & OCCUPANCY RISK REASSESSMENT

Evaluate current fire load, occupant load, event scenarios and operational activities against the approved design basis.



HYDRAULIC ADEQUACY & FIRE-WATER SYSTEM REVIEW

Verify fire-water demand, storage, pumps, hydrants, sprinklers and pressure/flow at critical and remote locations.



COMPREHENSIVE FIRE & LIFE SAFETY RISK ASSESSMENT

Holistic risk assessment covering means of escape, compartmentation, active systems, smoke control, detection, emergency power and other life safety provisions.



FIRE SAFETY MANAGEMENT OF CHANGE (MOC)

Review and manage changes in layouts, tenant fit-outs, event setups, kitchens, LPG, EV charging, storage and fire protection systems.



APPROVED DESIGN vs. ACTUAL GAP ASSESSMENT

Compare approved design and as-built/operational conditions to identify deviations and compile a Fire Safety Gap Register.



CFD, SMOKE MOVEMENT & EGRESS SIMULATION

Advanced modelling to evaluate smoke behaviour, tenability, visibility and evacuation performance in complex scenarios.



EMERGENCY RESPONSE & FIRE SAFETY MANAGEMENT REVIEW

Assess emergency plans, response procedures, staff training, drills, coordination and interface with local fire services.



PERFORMANCE-BASED DESIGN & REMEDIATION STRATEGIES

Develop engineered solutions and upgrade strategies tailored to hotel-specific risks and operational continuity.

OUR APPROACH

1

UNDERSTAND

Understand your hotel operations, guest experience standards and safety objectives.



2

ASSESS

Collect data, review documents, conduct site walks, testing and analysis.



3

ANALYZE

Identify risks, gaps and performance deficiencies using advanced tools.



4

RECOMMEND

Prioritize recommendations and practical, cost-effective solutions.



5

ASSURE

Support implementation, verification and ongoing assurance.



VALUE TO HOTEL OWNERS & OPERATORS

- ✓ Ensures life safety of guests, staff and visitors
- ✓ Maintains brand reputation and guest confidence
- ✓ Ensures compliance with statutory & insurance requirements
- ✓ Reduces fire risks, downtime and potential business losses
- ✓ Supports operational continuity during events and peak seasons
- ✓ Strengthens investor, lender and stakeholder confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Serving the Middle East,
Central Asia and India.



MULTI-SECTOR EXPERTISE

Hotels, resorts, airports,
malls, hospitals, high-rises
and more.



INDEPENDENT ADVICE

Unbiased, risk-focused
and aligned with your
best interests.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions
tailored to complex
challenges.



EXPERIENCED LEADERSHIP

Led by professionals with
extensive fire engineering
expertise.



CLIENT-FOCUSED DELIVERY

Responsive, reliable
and committed to
your success.



VITRUVIUS FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY



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FOCUS AREA

HIGH-RISE COMMERCIAL BUILDINGS

FIRE & LIFE SAFETY ASSURANCE

Engineering Resilience. Protecting People, Assets and Business Continuity.

High-rise commercial buildings are complex environments with high occupant density, vertical evacuation challenges, sophisticated building systems and critical business operations. Even small changes in use, layout or systems can significantly impact life safety and continuity.

Vitruvius Fire provides independent fire engineering assurance to ensure your high-rise remains safe, compliant and resilient—today, tomorrow and in the future.



VITRUVIUS
FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY



KEY FIRE & LIFE SAFETY RISKS IN HIGH-RISE COMMERCIAL BUILDINGS



HIGH OCCUPANT
DENSITY & VERTICAL
EVACUATION
CHALLENGES



FIRE LOAD FROM
OFFICES, STORAGE,
PANTRIES & TECHNICAL
SPACES



ELEVATORS &
FIRE-FIGHTER LIFTS
AVAILABILITY &
RELIABILITY



SMOKE MOVEMENT
IN ATRIA, SHAFTS
& COMPLEX
COMPARTMENTS



ELECTRICAL LOAD,
EMERGENCY POWER
& CRITICAL SYSTEM
INTEGRATION



SYSTEM RELIABILITY,
MAINTENANCE &
MANAGEMENT
OVERSIGHT

OUR FIRE ENGINEERING ASSURANCE SERVICES



FIRE LOAD & OCCUPANCY RISK REASSESSMENT
Evaluate current fire load, occupant load, tenant activities and operational changes against the approved design basis.



HYDRAULIC ADEQUACY & FIRE-WATER SYSTEM REVIEW
Verify fire-water demand, storage, pumps, hydrants, sprinklers and pressure/flow at critical and remote locations.



COMPREHENSIVE FIRE & LIFE SAFETY RISK ASSESSMENT
Holistic risk assessment covering means of escape, compartments, active systems, smoke control, detection, emergency power and other life safety provisions.



FIRE SAFETY MANAGEMENT OF CHANGE (MOC)
Review and manage changes in layouts, tenancies, systems, electrical load, EV charging, storage and fire protection systems.



APPROVED DESIGN vs. ACTUAL GAP ASSESSMENT
Compare approved design and as-built/operational conditions to identify deviations and compile a Fire Safety Gap Register.



CFD, SMOKE MOVEMENT & EGRESS SIMULATION
Advanced modelling to evaluate smoke behaviour, tenability, visibility and evacuation performance in complex scenarios.



EMERGENCY RESPONSE & FIRE SAFETY MANAGEMENT REVIEW
Assess emergency plans, response procedures, staff training, drills, and interface with local fire services.



PERFORMANCE-BASED DESIGN & REMEDIATION STRATEGIES
Develop engineered solutions and upgrade strategies tailored to high-rise specific risks and operational continuity.

OUR APPROACH

1

UNDERSTAND

- Understand your building operations, tenancies, systems and safety objectives.



2

ASSESS

- Collect data, review documents, conduct site walks, testing and analysis.



3

ANALYZE

- Identify risks, gaps and performance deficiencies using advanced tools.



4

RECOMMEND

- Prioritize recommendations and practical, cost-effective solutions.



5

ASSURE

- Support implementation, verification and ongoing assurance.



VALUE TO BUILDING OWNERS & OPERATORS

- Ensures life safety of occupants, staff and visitors
- Maintains operational continuity and protects revenue
- Ensures compliance with statutory & insurance requirements
- Reduces fire & operational risks and potential business losses
- Supports asset value, tenant confidence and brand reputation
- Strengthens investor, lender and stakeholder confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Serving the Middle East,
Central Asia and India.



MULTI-SECTOR EXPERTISE

Airports, rail, towers,
hospitals, malls, industrial
and more.



INDEPENDENT ADVICE

Unbiased, risk-focused
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Engineering solutions
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HOSPITALS

FIRE & LIFE SAFETY ASSURANCE

Protecting Lives. Enabling Care. Ensuring Continuity.

Hospitals are complex, 24/7 mission-critical environments with vulnerable occupants, life-support systems, hazardous areas and high operational dependency.

Any fire or smoke incident can threaten patient safety, interrupt essential services and impact the community.

Vitruvius Fire provides independent fire engineering assurance to help hospitals remain safe, compliant and operationally resilient—today, tomorrow and always.

KEY FIRE & LIFE SAFETY RISKS IN HOSPITALS



VULNERABLE
OCCUPANTS &
PATIENT MOBILITY



HIGH FIRE LOAD IN
LINEN, STORAGE,
PHARMACY &
SUPPORT AREAS



LIFE SUPPORT &
CRITICAL MEDICAL
EQUIPMENT
DEPENDENCY



COMPLEX EVACUATION
FOR BED-RIDDEN &
ASSISTED PATIENTS



ELECTRICAL SYSTEMS,
GENERATORS &
EMERGENCY POWER
RELIABILITY



INFECTION CONTROL,
HAZARDOUS AREAS &
MEDICAL GAS SYSTEMS
INTEGRATION

OUR FIRE ENGINEERING ASSURANCE SERVICES



FIRE LOAD & OCCUPANCY RISK REASSESSMENT

Evaluate fire load, occupancy, functions, and hazardous contents against the approved design basis.



HYDRAULIC ADEQUACY & FIRE-WATER SYSTEM REVIEW

Verify fire-water demand, storage, pumps, hydrants, sprinklers and pressure/flow at critical and remote locations.



COMPREHENSIVE FIRE & LIFE SAFETY RISK ASSESSMENT

Holistic assessment of means of escape, compartments, active systems, smoke control, detection, emergency power, medical gas areas, and fire fighter safety.



FIRE SAFETY MANAGEMENT OF CHANGE (MOC)

Review and manage changes to layouts, departments, equipment, medical gas, electrical, and fire protection systems.



APPROVED DESIGN vs. ACTUAL GAP ASSESSMENT

Compare approved design and as-built/operational conditions to identify deviations and compile a Fire Safety Gap Register.



CFD, SMOKE MOVEMENT & EGRESS SIMULATION

Advanced modelling to evaluate smoke movement, tenability, visibility and evacuation performance in critical scenarios.



EMERGENCY RESPONSE & FIRE SAFETY MANAGEMENT REVIEW

Assess emergency plans, response procedures, staff training, drills, and coordination with local fire services.



PERFORMANCE-BASED DESIGN & REMEDIATION STRATEGIES

Develop engineered solutions and upgrade strategies tailored to hospital-specific risks and operational continuity.

OUR APPROACH

1

UNDERSTAND

Understand your hospital operations, critical services and safety objectives.



2

ASSESS

Collect data, conduct site walks, testing and analysis.



3

ANALYZE

Identify risks, gaps and performance deficiencies using advanced tools.



4

RECOMMEND

Prioritize recommendations and practical, cost-effective solutions.



5

ASSURE

Support implementation, verification and ongoing assurance.



VALUE TO HOSPITAL OWNERS & OPERATORS

- ✓ Ensures life safety of patients, staff and visitors
- ✓ Maintains continuity of critical healthcare services
- ✓ Ensures compliance with authorities & insurance requirements
- ✓ Reduces fire risks and potential business interruption
- ✓ Strengthens trust, reputation and community confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Serving the Middle East,
Central Asia and India.



MULTI-SECTOR EXPERTISE

Hospitals, airports, malls,
hotels, high-rises, industrial
and infrastructure.



INDEPENDENT ADVICE

Unbiased, risk-focused
and aligned with your
best interests.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions
tailored to complex
challenges.



EXPERIENCED LEADERSHIP

Led by professionals with
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CLIENT-FOCUSED DELIVERY

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FOCUS AREA

MAJOR SHOPPING MALLS

FIRE & LIFE SAFETY ASSURANCE

Engineering Safer Environments. Protecting People, Assets and Brand Reputation.

Shopping malls are complex, high-occupancy environments with dynamic tenant mix, high fire load, large atria and extensive public spaces. Continuous changes in occupancy, layouts, kitchens, electrical loads and retail activities can introduce new fire and life safety risks.

Vitruvius Fire provides independent fire engineering assurance to ensure your mall remains safe, compliant and resilient—today, tomorrow and in the future.



VITRUVIUS FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY



KEY FIRE & LIFE SAFETY RISKS IN MALLS



HIGH OCCUPANT
LOAD & COMPLEX
EVACUATION



HIGH FIRE LOAD
FROM RETAIL,
FOOD COURTS
& STORAGE



ATRIUMS & OPEN
SPACES DRIVING
SMOKE SPREAD
RISK



FREQUENT TENANT
CHANGES &
LAYOUT
MODIFICATIONS



ELECTRICAL LOAD,
KITCHENS &
EV CHARGING
INTEGRATION



SYSTEM RELIABILITY,
MAINTENANCE &
MANAGEMENT
OVERSIGHT

OUR FIRE ENGINEERING ASSURANCE SERVICES



FIRE LOAD & OCCUPANCY RISK REASSESSMENT

Evaluate current fire load, occupant load, tenant activities and hazardous contents against original design basis.



HYDRAULIC ADEQUACY & FIRE-WATER SYSTEM REVIEW

Verify fire-water demand, storage, pumps, hydrants, sprinklers and actual flow/pressure performance at critical and remote locations.



COMPREHENSIVE FIRE & LIFE SAFETY RISK ASSESSMENT

Holistic risk assessment covering means of escape, compartments, active systems, smoke control, detection, emergency power, life safety and firefighter safety.



FIRE SAFETY MANAGEMENT OF CHANGE (MOC)

Review and manage changes in occupancy, layouts, tenants, kitchens, LPG, EV charging, storage, and fire protection systems.



APPROVED DESIGN vs. ACTUAL GAP ASSESSMENT

Compare approved design with current as-built conditions to identify deviations and compile a Fire Safety Gap Register with priorities.



CFD, SMOKE MOVEMENT & EGRESS SIMULATION

Advanced modelling to evaluate smoke behaviour, tenability, visibility and evacuation performance in complex scenarios.



EMERGENCY RESPONSE & FIRE SAFETY MANAGEMENT REVIEW

Assess fire safety management systems, emergency plans, staff training, drills and coordination with local fire services.



PERFORMANCE-BASED DESIGN & REMEDIATION STRATEGIES

Develop engineered solutions and upgrade strategies tailored to mall-specific risks and operational continuity.

OUR APPROACH

1

UNDERSTAND

Understand your mall, operations, tenants and fire safety objectives.



2

ASSESS

Comprehensive data collection, site walks, testing and analysis.



3

ANALYZE

Identify risks, gaps and performance deficiencies using advanced tools.



4

RECOMMEND

Prioritized recommendations and practical, cost-effective solutions.



5

ASSURE

Support implementation, verification and ongoing assurance.



VALUE TO MALL OWNERS & OPERATORS

- ✓ Enhances life safety for occupants, staff and visitors
- ✓ Ensures compliance with statutory & insurance requirements
- ✓ Reduces fire & operational risks and potential business losses
- ✓ Supports business continuity and brand protection
- ✓ Strengthens investor, tenant and public confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Serving the Middle East,
Central Asia and India.



MULTI-SECTOR EXPERTISE

Malls, hotels, high-rises,
hospitals, airports,
industrial & more.



INDEPENDENT ADVICE

Unbiased, risk-focused
and aligned with
your best interests.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions
tailored to complex
challenges.



EXPERIENCED LEADERSHIP

Led by professionals
with extensive fire
engineering expertise.



CLIENT-FOCUSED DELIVERY

Responsive, reliable
and committed to
your success.



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FOCUS AREA

MIXED-USE DEVELOPMENTS

FIRE & LIFE SAFETY ASSURANCE

One Vision. Multiple Uses. Integrated Safety.

Mixed-use developments combine multiple occupancies—retail, offices, residential, hospitality, entertainment and parking—within shared structures and infrastructure.

The interaction between different use types, varied occupant profiles and complex interfaces can create unique fire and life safety risks that require specialist engineering insight.

Vitruvius Fire provides independent fire engineering assurance to ensure your mixed-use development is safe, compliant and resilient—today, tomorrow and in the future.



**VITRUVIUS
FIRE**

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY



KEY FIRE & LIFE SAFETY RISKS IN MIXED-USE DEVELOPMENTS



**COMPLEX OCCUPANCY
INTERFACES &
VARIED OCCUPANT
BEHAVIOUR**



**HIGH FIRE LOAD
FROM RETAIL,
FOOD COURTS,
KITCHENS & STORAGE**



**VERTICAL & HORIZONTAL
EVACUATION
COORDINATION
CHALLENGES**



**BASEMENT PARKING,
EV CHARGING &
RAMP FIRE
SCENARIOS**



**SMOKE MOVEMENT
ACROSS ATRIA,
VOID SPACES &
TRANSFERS**



**ELECTRICAL LOAD,
EMERGENCY POWER &
CRITICAL SYSTEM
INTEGRATION**



**SYSTEM RELIABILITY,
MAINTENANCE &
MANAGEMENT
OVERSIGHT**

OUR FIRE ENGINEERING ASSURANCE SERVICES



FIRE LOAD & OCCUPANCY RISK REASSESSMENT

Evaluate fire load, occupant load, tenant mix, activities and operational changes against approved design basis.



HYDRAULIC ADEQUACY & FIRE-WATER SYSTEM REVIEW

Verify fire-water demand, storage, pumps, hydrants, sprinklers and pressure/flow at critical and remote locations.



COMPREHENSIVE FIRE & LIFE SAFETY RISK ASSESSMENT

Holistic risk assessment covering means of escape, compartments, active systems, smoke control, detection, emergency power and other life safety provisions.



FIRE SAFETY MANAGEMENT OF CHANGE (MOC)

Review and manage changes in layouts, tenancies, systems, occupancy, EV charging, storage and fire protection systems.



APPROVED DESIGN vs. ACTUAL GAP ASSESSMENT

Compare approved design and as-built/operational conditions to identify deviations and compile a Fire Safety Gap Register.



CFD, SMOKE MOVEMENT & EGRESS SIMULATION

Advanced modelling to evaluate smoke behaviour, tenability, visibility and evacuation performance in complex scenarios.



EMERGENCY RESPONSE & FIRE SAFETY MANAGEMENT REVIEW

Assess emergency plans, response procedures, staff training, drills, and coordination with local fire services.



PERFORMANCE-BASED DESIGN & REMEDIATION STRATEGIES

Develop engineered solutions and upgrade strategies tailored to mixed-use specific risks and operational continuity.

OUR APPROACH

1

UNDERSTAND

- Understand your development, tenants, operations, assets and safety objectives.



2

ASSESS

- Collect data, review documents, conduct site walks, testing and analysis.



3

ANALYZE

- Identify risks, gaps and performance deficiencies using advanced tools.



4

RECOMMEND

- Prioritize recommendations and practical, cost-effective solutions.



5

ASSURE

- Support implementation, verification and ongoing assurance.



VALUE TO DEVELOPERS & OPERATORS

- Ensures life safety of occupants, staff and visitors
- Maintains operational continuity across all use areas
- Ensures compliance with statutory & insurance requirements
- Reduces fire & operational risks and potential business losses
- Supports asset value, reputation and stakeholder confidence
- Strengthens investor, lender and client confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Serving the Middle East,
Central Asia and India.



MULTI-SECTOR EXPERTISE

Malls, hotels, offices,
residential, airports,
industrial & more.



INDEPENDENT ADVICE

Unbiased, risk-focused
and aligned with your
best interests.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions
tailored to complex
challenges.



EXPERIENCED LEADERSHIP

Led by professionals with
extensive fire engineering
expertise.



CLIENT-FOCUSED DELIVERY

Responsive, reliable
and committed to
your success.



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VITRUVIUS FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY

DESIGN & ENGINEERING OF FIRE & LIFE SAFETY FOR LARGE SPORTS COMPLEXES & STADIA

SAFE VENUES. SECURE CROWDS. SEAMLESS EXPERIENCES.

From iconic stadia to multi-sport arenas and athletic villages, we deliver integrated fire and life safety engineering that protects people, preserves operations and ensures compliance with international standards and authority requirements.

UNIQUE FIRE & LIFE SAFETY CHALLENGES



VERY HIGH
OCCUPANT LOAD &
DYNAMIC EVENTS



COMPLEX EGRESS
& EVACUATION
SCENARIOS



LARGE OPEN
SPACES &
ROOF STRUCTURES



INTEGRATION WITH MEP,
STRUCTURE & EVENT
OPERATIONS



OPERATIONAL
CONTINUITY &
BUSINESS IMPACT



COMPLIANCE WITH
LOCAL & INTERNATIONAL
REGULATIONS

OUR FIRE ENGINEERING ASSURANCE SERVICES



PERFORMANCE-BASED FIRE SAFETY DESIGN
Risk-informed design solutions to achieve life safety objectives beyond prescriptive compliance.



EGRESS & EVACUATION ENGINEERING
Advanced modelling, crowd dynamics, evacuation time estimations and wayfinding strategies.



SMOKE MANAGEMENT & CONTROL
Natural, mechanical and hybrid smoke control solutions for stands, concourses, back-of-house and atria.



FIRE PROTECTION SYSTEMS DESIGN
Sprinkler, water mist, deluge, special hazard systems, hydrants, foam and detection & alarm systems.



MEP & ELECTRICAL SAFETY DESIGN
Emergency power, lighting, lighting protection, electrical load management and fire pump systems.



FIRE LIFE SAFETY STRATEGY & DOCUMENTATION
Fire strategy reports, safety cases, FEB/FER, FSMP, O&M manuals and compliance documentation.



AUTHORITY LIAISON & APPROVAL SUPPORT
Coordination with AHJs, code authorities and stakeholders to secure timely approvals.

OUR ENGINEERING APPROACH

1

UNDERSTAND

Understand project vision, operations, occupancy and stakeholder objectives.



2

ASSESS

Assess risks, collect data and benchmark against best practices.



3

ANALYZE

Analyse performance through engineering tools and scenario modelling.



4

DECOMMEND

Develop integrated fire & life safety solutions aligned with architecture and operations.



5

DELIVER & ASSURE

Support implementation, commissioning, verification and ongoing assurance.



VALUE TO STADIUM OWNERS & OPERATORS

- ✓ Protects lives of spectators, staff and athletes
- ✓ Ensures safe and efficient evacuation in any scenario
- ✓ Meets regulatory and insurance requirements
- ✓ Enhances operational continuity and event readiness
- ✓ Strengthens reputation and public confidence



WHY CLIENTS CHOOSE VITRUVIUS FIRE



INTERNATIONAL EXPERIENCE

Delivering projects across the Middle East, Central Asia and India.



SPECIFICATION EXPERTISE

Deep knowledge of stadia, arenas and large event venues.



INDEPENDENT ADVICE

Unbiased, risk-focused and aligned with your best interests.



PERFORMANCE-BASED SOLUTIONS

Engineering solutions tailored to complex challenges.



EXPERIENCED LEADERSHIP

Led by professionals with extensive fire engineering expertise.



CLIENT-FOCUSED DELIVERY

Responsive, reliable and committed to your success.



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VITRUVIUS FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY

AIRPORT FUEL FARM & HYDRANT SYSTEMS

FIRE PROTECTION ENGINEERING • PROCESS SAFETY • RISK & RESILIENCE

Engineering Safe Fuel Infrastructure for
Critical Aviation Operations



WHO WE SUPPORT



INTERNATIONAL
AIRPORTS



GREENFIELD
AIRPORTS



AIRPORT
EXPANSIONS



FUEL FARM
OPERATORS



EPC
CONTRACTORS

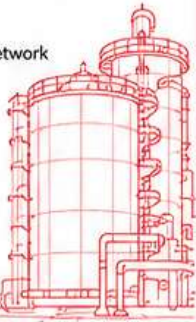


AVIATION
AUTHORITIES



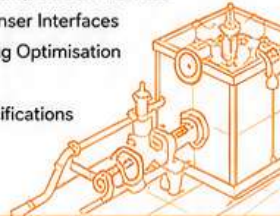
FIRE PROTECTION ENGINEERING

- Fire Protection Philosophy
- Design Basis Report
- Fire Water Demand Assessment
- Fire Water Storage
- Fire Pump Stations
- Underground Fire Water Network
- Foam Systems
- Hydrant Systems
- Monitor Systems
- Deluge Systems
- Fire Alarm & Gas Detection
- Cause & Effect Matrix
- Hydraulic Calculations
- IFC Detailed Engineering



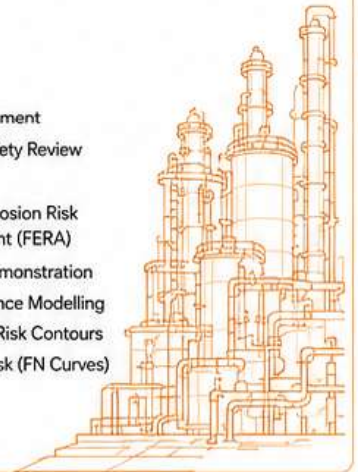
AIRPORT FUEL HYDRANT ENGINEERING

- Hydrant Pipeline Network Design
- Hydraulic Network Analysis
- Pressure Loss Assessment
- Surge Analysis
- Valve Station Design
- Hydrant Pit Layouts
- Isolation Philosophy
- Fuel Hydrant Pump Station Interface
- Hydrant Dispenser Interfaces
- Pipeline Routing Optimisation
- IFC Drawings
- Technical Specifications



PROCESS SAFETY & RISK ENGINEERING

- HAZID
- HAZOP
- LOPA
- SIL Assessment
- Design Safety Review
- QRA
- Fire & Explosion Risk Assessment (FERA)
- ALARP Demonstration
- Consequence Modelling
- Individual Risk Contours
- Societal Risk (FN Curves)



SOFTWARE CAPABILITY

- ✓ DNV SAFETI
- ✓ DNV PHAST
- ✓ Hydraulic Calculation Software
- ✓ AutoCAD
- ✓ Bluebeam
- Consequence Modelling
- Individual Risk Assessment
- Fire & Explosion Analysis
- Thermal Radiation
- Explosion Overpressure
- ALARP Demonstration

WHY VITRUVIUS FIRE?



AIRPORT
INFRASTRUCTURE
EXPERIENCE



INTERNATIONAL
FIRE ENGINEERING
EXPERTISE



INDEPENDENT
CONSULTANCY



PERFORMANCE-
BASED
DESIGN



PROCESS SAFETY
INTEGRATION



COMPLETE
ENGINEERING
FROM CONCEPT
TO IFC

TYPICAL DELIVERABLES



Fire Protection
Philosophy



Design Basis
Report



Fire Water
Demand Report



Hydraulic
Calculations



Equipment
Datasheets



Technical
Specifications



Material
Take-Off



Bill of
Quantities



IFC
Drawings



QRA
Report



HAZOP
Report



Risk
Contours

CODES & STANDARDS

Designs undertaken in accordance with:



ENERGY
INSTITUTE
(EI)



JIG
(Joint
Inspection Group)

API
(American
Petroleum
Institute)

IEC
61508

IEC
61511

PROJECT LIFECYCLE



CONCEPT



FEED



DETAILED
DESIGN



CONSTRUCTION



COMMISSIONING



OPERATION

Vitruvius supports you at every stage of your project.



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VITRUVIUS FIRE

FIRE ENGINEERING | LIFE SAFETY | RISK ADVISORY

PROCESS SAFETY & FIRE PROTECTION ENGINEERING

Science. Risk Intelligence. Practical Engineering.

End-to-end engineering solutions to identify, evaluate and mitigate process hazards and deliver robust, code-compliant fire protection systems for industrial and infrastructure projects.



WHO WE SUPPORT



Oil & Gas



Petrochemicals



Aviation
Infrastructure



Power & Energy



Refining &
Terminals



Manufacturing
& Industrial



Hydrogen &
New Energy



Infrastructure
& Mega Projects



PROCESS SAFETY ENGINEERING

- ✓ Process Hazard Analysis (PHA)
- ✓ HAZID Workshops
- ✓ HAZOP Studies
- ✓ Layer of Protection Analysis (LOPA)
- ✓ Safety Integrity Level (SIL) Assessment
- ✓ SIF Review & Validation
- ✓ Quantitative Risk Assessment (QRA)
- ✓ Consequence Modelling
- ✓ Fire & Explosion Risk Assessment
- ✓ Toxic Dispersion Analysis
- ✓ ALARP Demonstration
- ✓ Design Safety Review
- ✓ Hazard Register & Risk Workshops



FIRE PROTECTION ENGINEERING

- ✓ Fire Protection Philosophy & Design Basis
- ✓ Fire Water Engineering (Storage, Pumps, Networks)
- ✓ Hydrant, Sprinkler, Deluge, Monitor & Foam Systems
- ✓ Water Spray & Clean Agent Systems
- ✓ Fire Detection, Alarm & Gas Detection
- ✓ Cause & Effect Matrix
- ✓ Emergency Shutdown Interfaces
- ✓ Equipment Engineering
- ✓ Hydraulic Analysis & Optimisation
- ✓ Technical Specifications
- ✓ IFC Drawings & Documentation



RISK MODELLING & SAFETY ANALYTICS

- ✓ Quantitative Risk Assessment (QRA)
- ✓ Fire & Explosion Modelling
- ✓ Thermal Radiation Analysis
- ✓ Explosion Overpressure Analysis
- ✓ Toxic Gas Dispersion Modelling
- ✓ Individual Risk Contours
- ✓ Societal Risk (FN Curves)
- ✓ Hydraulic Network Analysis
- ✓ What-if & Sensitivity Studies
- ✓ Performance-Based Engineering

SOFTWARE CAPABILITY



DNV
PHAST



DNV
SAFETI



FDS



PyroSim



PATHFINDER



LEGION



REVIT



HASS

WHY VITRUVIUS FIRE?



Independent
Engineering
Expertise



International
Project
Experience



Risk-Based
Decision
Making



Performance-
Based
Design



Practical
& Buildable
Solutions



End-to-End
Engineering
Support

TYPICAL DELIVERABLES



Reports



Drawings
(IFC)



Calculations



Databases



Technical
Specifications



MTO & BOQ



Risk
Assessment



Workshop
Outputs

CODES & STANDARDS



NFPA



API



IEC



CPS



ISO



FM

And applicable local statutory requirements

PROJECT LIFECYCLE



CONCEPT



FEED



DETAILED DESIGN



CONSTRUCTION



COMMISSIONING



OPERATION

Vitruvius supports you at
every stage of your project.



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Nyati County, Pune, India, 411060

GLOBAL REACH

DELIVERING FIRE ENGINEERING EXCELLENCE ACROSS KEY MARKETS

Vitruvius Fire delivers performance-based fire engineering and life safety solutions across diverse geographies and sectors.



OUR GLOBAL FOOTPRINT



7+

COUNTRIES

Across Middle East,
Central Asia & India



**LANDMARK
PROJECT EXPERIENCE**

Airports, metros,
tunnels, high-rise and
hospitality developments*



37+

YEARS

FOUNDER EXPERIENCE

International fire
engineering leadership



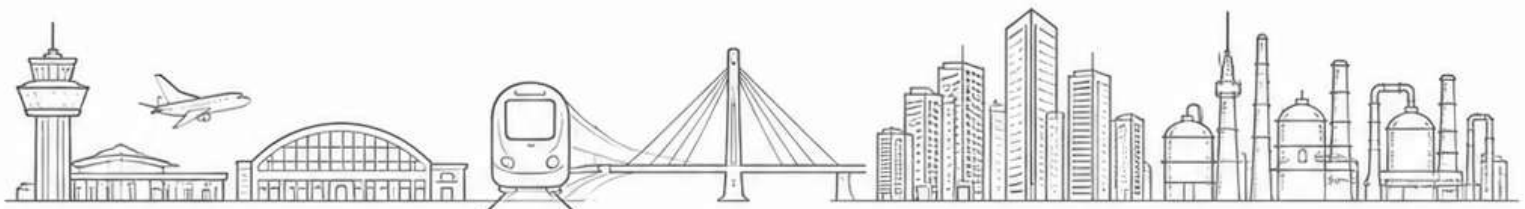
100+

YEARS

**COMBINED TEAM
EXPERIENCE**

Collective expertise
across multiple sectors

* Representative project experience shown throughout this brochure reflects projects undertaken by Vitruvius Fire personnel during their professional careers, including while employed by leading international fire engineering and multidisciplinary consultancies.





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OUR SECTORS



AVIATION



METRO & RAIL



TUNNELS



BUILDINGS



INDUSTRIAL



ENERGY

Appoint Vitruvius Fire as your fire engineering consultants and you can be assured that you will comply with your fire safety obligations during building design, construction and occupation.



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