

fds consult uk

Experts in Fire Engineering

t +44 (0)1322 387 411
e info@fdsuk.com

www.fdsconsultuk.com

Experts in Fire Engineering



fds consult uk

FDS Consult UK provides our clients with a holistic, creative & innovative approach to fire engineering, ensuring your design and concept can be realised whilst ensuring environmental and occupant safety and property protection.

About Us / 06
Consultancy Capabilities / 12
Our Services / 14
Computational Fluid Dynamics / 18

About Us

About Us

Group Values



Granville Harris
Director of Consultancy

FDS Consult UK offers innovative fire engineering solutions throughout the UK. Our Fire Engineers provide our clients with professional advice throughout the design, construction and use of a building. Decades of expertise allow us to recommend the best possible solution to individual projects. Our commitment is to helping clients achieve their design ambitions while creating safer environments.

Highly qualified, dedicated, and experienced, our expert fire engineers have a wide range of skills and an impressive array of backgrounds.

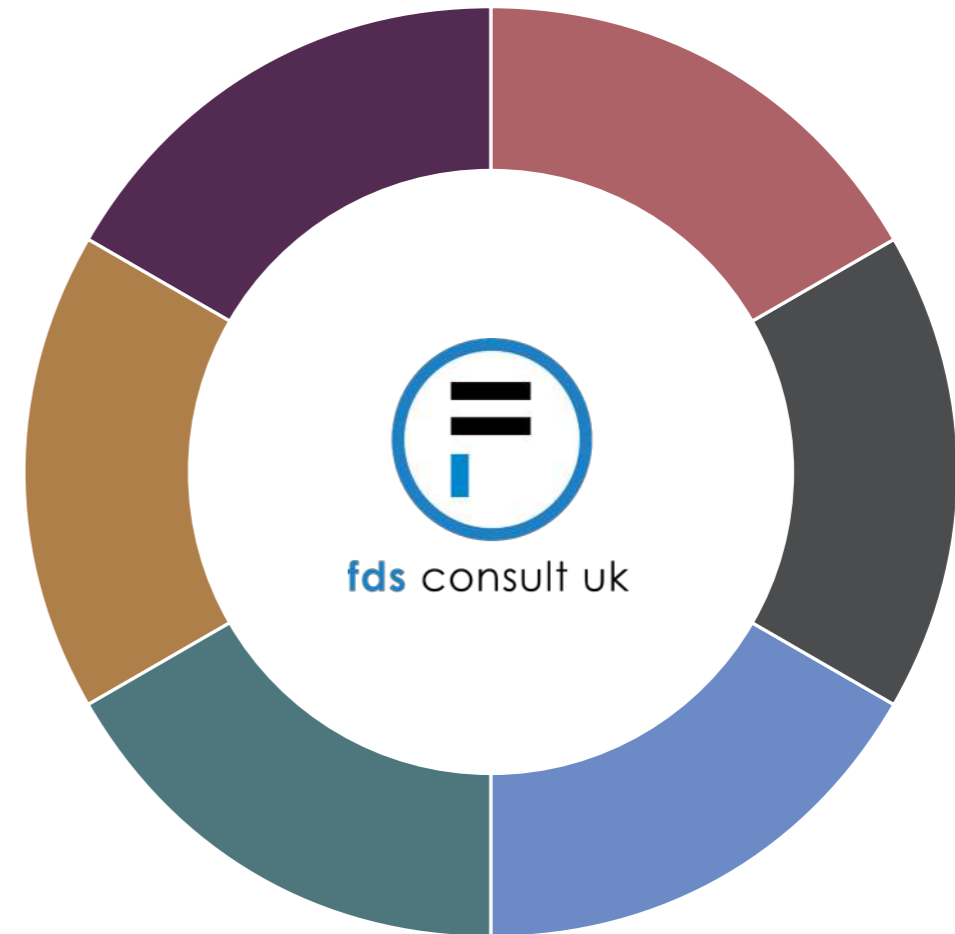
Our can-do approach to working with a building and integrating the fire strategy with both the architect's vision and the client's brief allows you to optimise cost and build times and benefit from our conventional approach to fire engineering.

Our Fire Engineers will make sure they

find out everything there is to know about your building, its aesthetics, its function, its surroundings, its context in the local built environment, and its end users.

They will work with your team to provide fire engineering solutions that work with your building and offer support and guidance wherever it's needed.

Our people are our most valuable asset – they can be yours too.



Capability
Bespoke solutions: fire strategies, CFD modelling, gateway support

Range
Extensive knowledge of fire safety ensures best possible solution for every project

Competence
Industry authority delivering innovation-driven solutions based on in-depth experience

Trust
Proven expertise and market leadership in reliable and effective fire safety solutions

Support
Fire safety solutions that are reinforced by support and guidance wherever it's needed

Value
Intelligent, value-engineered strategies providing cost-efficient solutions

About Us

Our Accreditations & Certifications



Our Insurances

From Concept to Completion

At FDS Consult UK, our comprehensive insurance cover is more than a requirement, it's a commitment to protecting our clients, their projects, and everyone involved.

We hold a robust suite of insurances that provide reassurance at every stage of your project:

Professional Indemnity – Protects you against risks associated with design, consultancy, and technical advice. It ensures that if anything doesn't perform as intended, you're covered.

Employers' Liability – Guarantees that our team is fully protected while working on your site, giving you confidence in safe, compliant project delivery.

Public Liability – Covers any unforeseen incidents involving third parties or property, ensuring your project – and reputation – are safeguarded.

Products Liability – Provides protection related to the systems and components

we supply, giving you peace of mind that installed products meet performance and safety expectations.

Contract Works Insurance – Protects the works in progress, covering against damage or loss during the build phase so your project stays on track.

What does this mean for our clients?

Reduced risk. Protected investment.

Complete confidence that you're working with a partner who takes responsibility seriously, from design through to delivery and beyond.



About Us

Why Choose

Technical excellence is where it starts but we go further. As well as making people safer, we also work to ensure that clients have complete confidence in the solutions we develop to meet the challenges of their particular buildings and locations.

Maximising Safety

Our primary role is a technical one: to use our expertise and detailed knowledge of fire safety systems to make people safer.

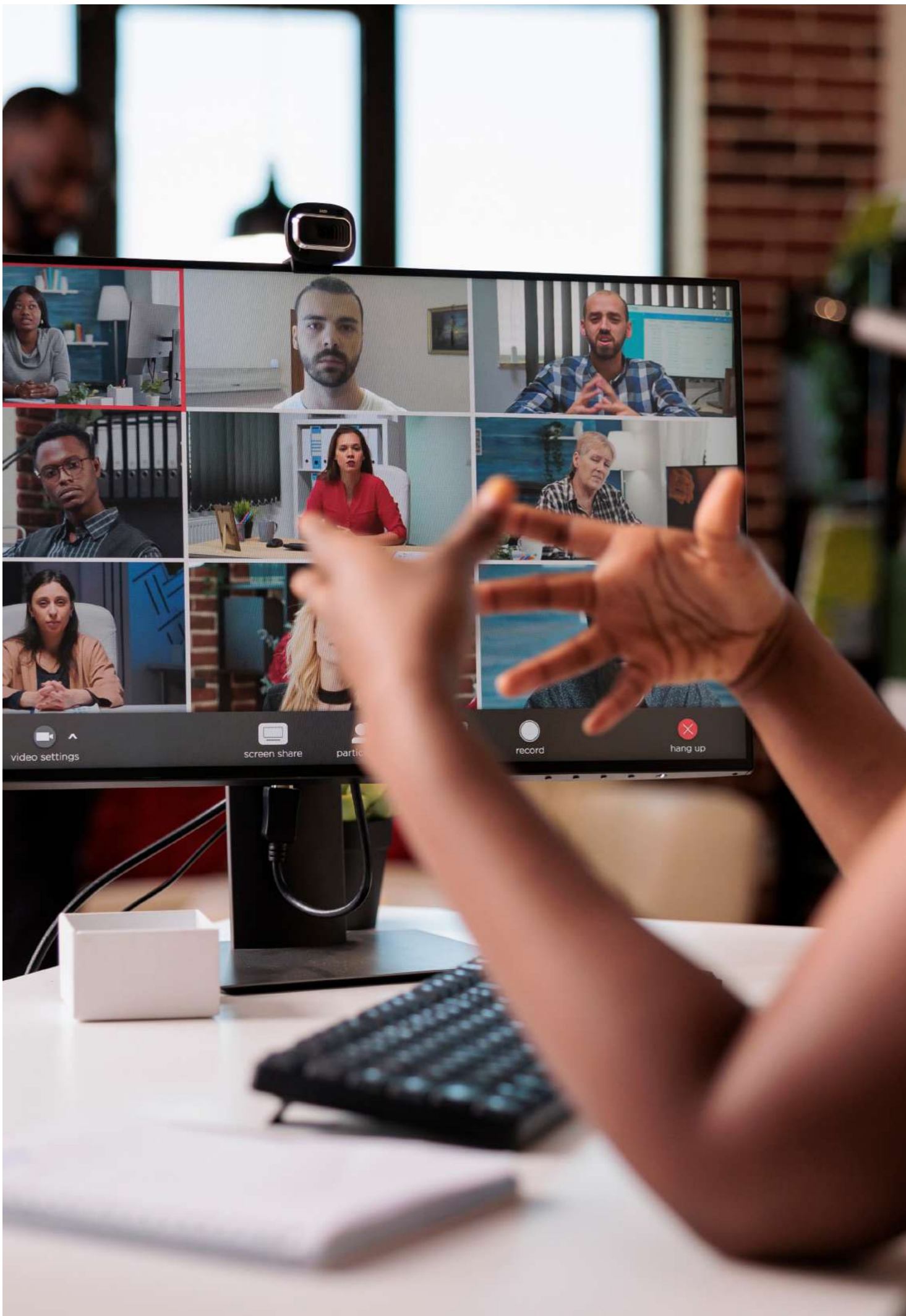
We work holistically with buildings to find fire safety engineering solutions that enhance safety while remaining true to initial design concepts. As fire consultants, we ensure that our solutions are practical for a buildings intended use. This is supported by our expertise, which span across a wide range of sectors and underpinned by a thorough understanding of the latest fire codes and building regulations, ensuring a reliable and fully compliant system with swift and issue-free approval.

We have garnered a long list of loyal clients that trust us to deliver results.

Expertise Backed Service

Choose FDS Consult UK and you'll find our service characterised by attention to detail and a partnered approach. At every stage of a project, we will happily explain the details so you are kept informed throughout. Our solutions-focused fire engineers will work with you to ensure that you benefit from the most efficient, cost effective solution possible, without ever compromising on safety.

Our fully qualified team of fire engineers will work with approving authorities to ensure they are satisfied with the system. This includes providing demonstrations of the performance where required.



FDS Consult UK Consultancy Capabilities

At FDS we employ a team of highly qualified and hugely experienced fire engineering consultants. These experts work with architects, contractors and developers to provide truly creative solutions that integrate perfectly with the wider building design.

We take a bespoke approach to every project. Our expert, fire engineering consultants have the in-depth technical knowledge to provide the best solution for each project regardless of the requirements, and bring a level of creative thinking that you probably would not expect. We consider buildings holistically to find fire engineering solutions that enhance safety while remaining true to initial design concepts.

Our consultancy division allows us to adapt fire strategies if the details of the project change with the knowledge to facilitate variations without compromising the design or safety.

The close integration between our consultancy and installation teams is unique in the market and allows a more efficient process – avoiding delays to the project. Our consultants have delivered innovative solutions for developments in a wide range of sectors including healthcare, education, hospitality, airports and residential.

One of the most important considerations for any building is compliance with standards and regulations such as Approved Document B. We work alongside developers, contractors and end clients to help demonstrate that the installed solution meets or even surpasses the required level of safety to achieve a fast and hassle-free approval for the scheme.

Planning Gateway One, Two & Three

Our Services



Granville Harris
Director of Consultancy

gharris@fdsuk.com
[07483 947 108](tel:07483947108)



Kayla Green
Operations Manager

kgreen@fdsuk.com
[07483 947 066](tel:07483947066)

Planning Gateway One

- Fire Statements
- Planning Gateway Support
- Fire Safety Reviews & Audits

Planning Gateway Two

- CFD Modelling
- Fire Management Strategy
- Third-Party Peer Reviews
- Fire & Emergency Files
- Submissions for Building Safety Regulator

Planning Gateway Three

- Fire Risk Assessment
- EWS Survey
- Retrospective Fire Strategy
- As-Built Fire Strategy
- Building Safety Case Report

FDS Consult UK

Our Services

Our team works alongside Developers, Contractors, and design teams to provide clear, practical guidance from concept through to delivery. Our fire engineering expertise, extensive project experience, and advanced digital design technologies, help you make informed decisions early – reducing risk, improving coordination, and strengthening the route to approval.

Early input helps us optimise layouts and performance, including supporting efficient solutions like mechanical smoke ventilation to enhance smoke clearance, reduce shaft sizes, and protect internal space.

Combined with a bespoke fire strategy, this can unlock greater design flexibility and maximise usable space. By aligning compliance from the outset, we also support a smoother approvals process – including Gateway 2 approval where required – reducing redesign risk, protecting timelines, and improving cost certainty. Our services include:

Fire Strategy – tailored strategies that align fire safety, design ambition and regulatory requirements

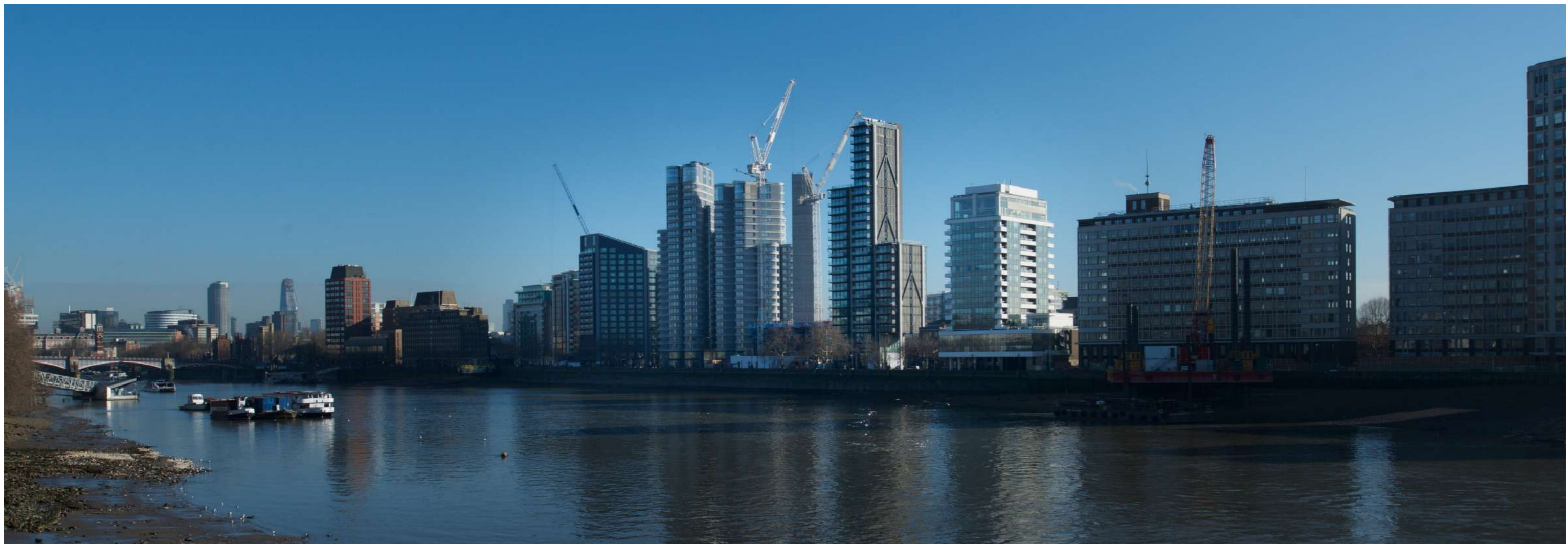
Fire Statements – clear, planning-ready documentation that supports design proposals and compliance

Planning Gateway Support – guidance and technical input to help you navigate approvals with confidence

EWS1 FIEW – confirms the fire safety of a building's external wall system, primarily to support mortgage lending and property valuation decisions.

Fire Risk Appraisal of External Walls – also known as PAS9980 provides a structured fire risk assessment that evaluates the fire performance of a building's external wall system.

Independent Third-Party CFD Reviews – objective review and verification to strengthen designs and reduce risk



FDS CFD

Computational Fluid Dynamics Modelling

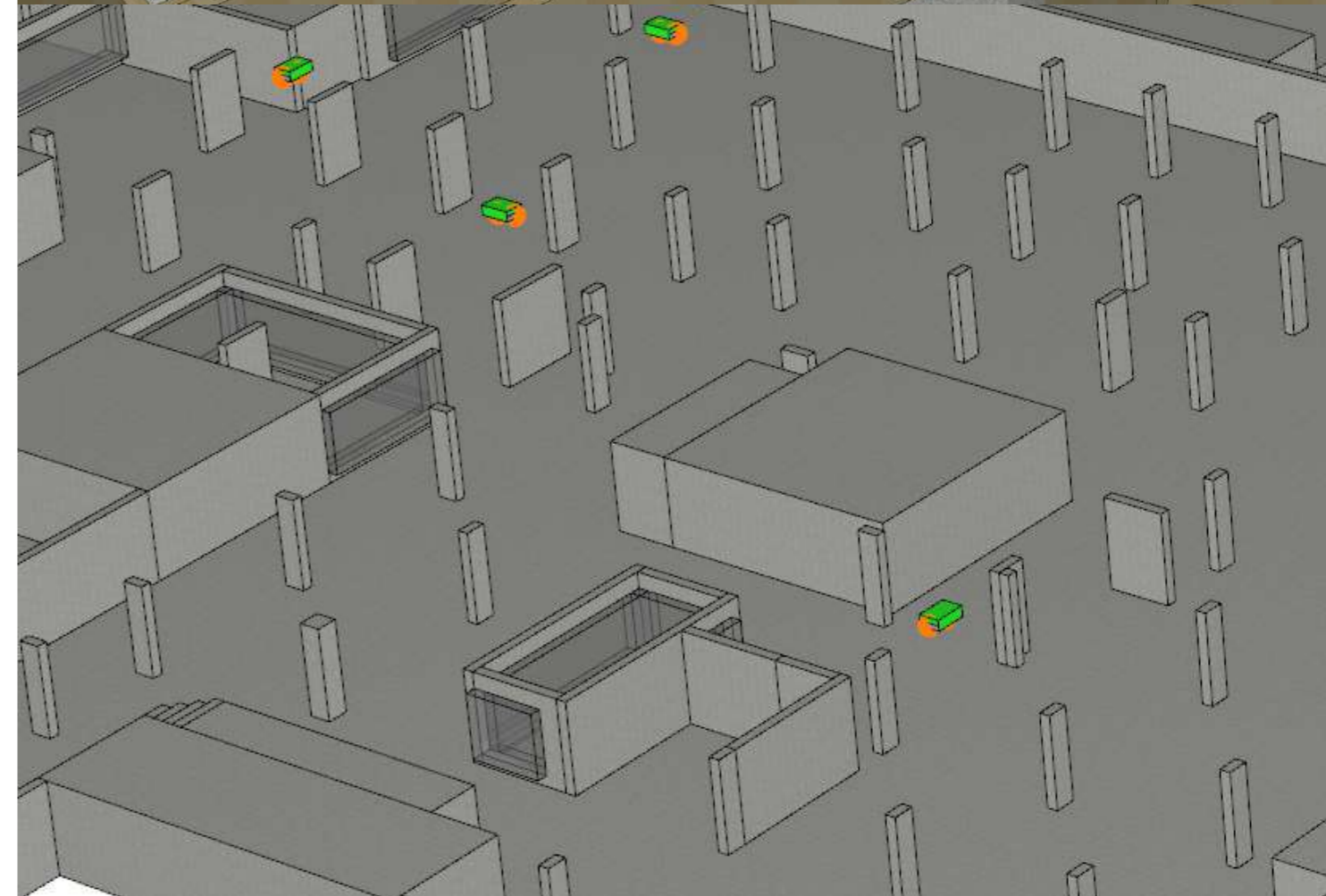
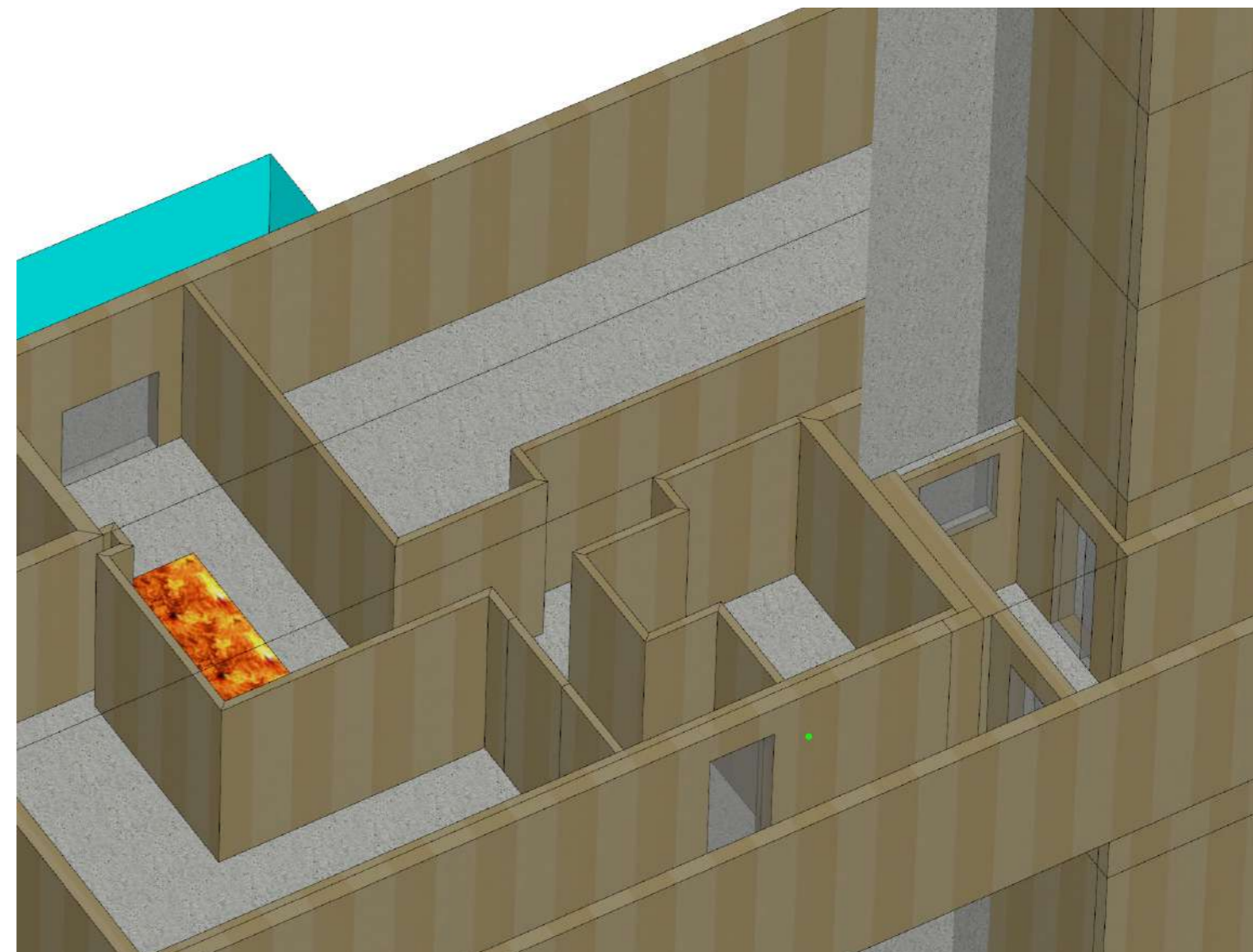
Computational Fluid Dynamics Modelling (CFD) is a specialist design tool we use to validate and optimise smoke ventilation performance in complex buildings. It enables us to simulate smoke movement, airflow patterns and fire conditions within a development, so we can assess system behaviour in detail and confirm the design will perform as intended.

CFD is particularly valuable where a fire-engineered solution is proposed that sits outside prescriptive guidance or where the design requires additional technical justification. Our team translates the modelling outputs into clear, professional reports suitable for submission to the Building Safety Regulator and Building Control, supporting the project through the approvals process, including Gateway 2 where required.

CFD modelling goes beyond simple rules of thumb by showing how smoke accumulates, how temperature and visibility change over time, and where pressure differentials may develop in complex environments such as open atria, tunnels and interconnected floors. This level of insight supports the development of robust fire strategies and helps demonstrate how proposed systems – such as smoke ventilation and pressurisation – will perform under real fire conditions.

CFD is increasingly used to support performance-based fire design where prescriptive guidance alone doesn't address the complexity of a building or its intended use. It provides evidence that safety objectives – such as maintaining tenable conditions for evacuation – are met, and enables designers to justify decisions where engineered approaches differ from standard regulatory paths.

Our CFD services include performance-based smoke modelling, providing detailed simulation of smoke movement, temperature, visibility and tenability to validate engineered fire strategies. We produce comprehensive reports to support Gateway 2 and Building Safety Regulator submissions, ensuring designs are evidence-led and approval-ready. We also offer independent third-party peer reviews of external CFD models, verifying methodology and conclusions to strengthen compliance, reduce risk and provide additional assurance to clients and approving authorities.



“FDS were instrumental in ensuring we met the tough and seemingly impossible deadline set for us. Their ability to adapt, work efficiently under pressure and support the team has made a significant impact.”

Project Manager on Kings Road Park Project / Editquest