

Fire Protection



HVAC / HIGH TEMPERATURE / INDUSTRIAL / FIRE PROTECTION



Kitsons, your trusted fire protection partner

When your business demands more than just a distributor, choose Kitsons for stock, support, and fire protection solutions that can't be beaten.

Since the late 1800s, our name's stood for two things: thermal insulation and an ongoing commitment to quality. Because Kitsons is a name you can trust.

More than a distributor

We're proud to be your local specialist with a national presence. Much more than a distributor, Kitsons not only guarantees the highest quality technical insulation products, suitable for a range of applications, but also subject-specific experience and logistics solutions applicable to a diverse range of sectors.

As a highly-valued industry partner, we work with a carefully curated network of manufacturers. Whether we're talking development and deployment or just seeing things from a new perspective, our industry experience enables us to offer impartial advice on the latest thermal insulation products and their technical applications.

Passive Fire Protection

Passive Fire Protection (PFP) plays a vital role in ensuring the safety of buildings and therefore people. Built into the structure of a building, PFP systems aim to slow or prevent the spread of fire by containing it to a single compartment within the building, therefore providing a safe means of escape and limiting damage.

Approved Document B (ADB) (Volumes 1 & 2) and British Standards (e.g. BS 9999, BS 9991) are among the design guidelines available to help interpret the regulatory requirements for PFP and assist in the development of an appropriate design.

These documents advise on 'common' building situations - in our vast experience in construction, we know that most projects end up being anything but 'common' and that's why we have our specialist fire protection team on hand to help support you with your passive fire protection needs.

Want to know more? Simply email enquiries@kitsonsts.co.uk or speak to one of our Fire Protection Specialists whose contact details can be found on page 12.



Our Expertise

Our dedicated team of Fire Protection Specialists are on a continuous developmental programme to ensure they remain up to date on the latest legislation and product advancements in the industry.

They will work with you, project by project, offering expert advice and guidance from the initial design meeting, through every stage of construction, conducting on site visits where required, until a projects completion.

Our aim is to source the right passive fire protection to reduce the risks and costs on your project.



Our Expertise in Action



Battersea Power Station

As a Grade II listed building, Battersea Power Station required bespoke engineering judgements to meet the fire strategy requirements of its conversion from a disused 1930's industrial build to a vibrant multipurpose complex.

It now features over 2 million sq ft of leisure, retail, offices and homes.



Liverpool Street Station

The Liverpool Street station of the Elizabeth Line, formerly known as 'Crossrail', offered some unique challenges in Passive Fire Protection (PFP) requirements due to the location being 34 metres below the heart of the City of London, and pressing timescales.

A large percentage of the construction was completed using offsite solutions and a Design for Manufacture and Assembly (DfMA) approach. Undeterred, our team were able to work with the contractors to source London Underground (LUL) compliant PFP and deliver on time to budget.



Alder Hey Childrens Hospital

Using the fire safety engineer's computational models we were able to provide the right PFP solutions for the award winning Alder Hey Children's Hospital with no compromise to its unique curved design.

Our Partnerships

Our specialist fire protection team are experienced in working with manufacturers, specifiers and fire engineers on complex building fire strategies and documents.

Working hand in hand with the leading manufacturers in this field, we are on hand to offer you technical support and guidance on all our products. Our partnerships with these manufacturers ensures we can confidently source products that offer the most suitable solution for the project.

Our Range

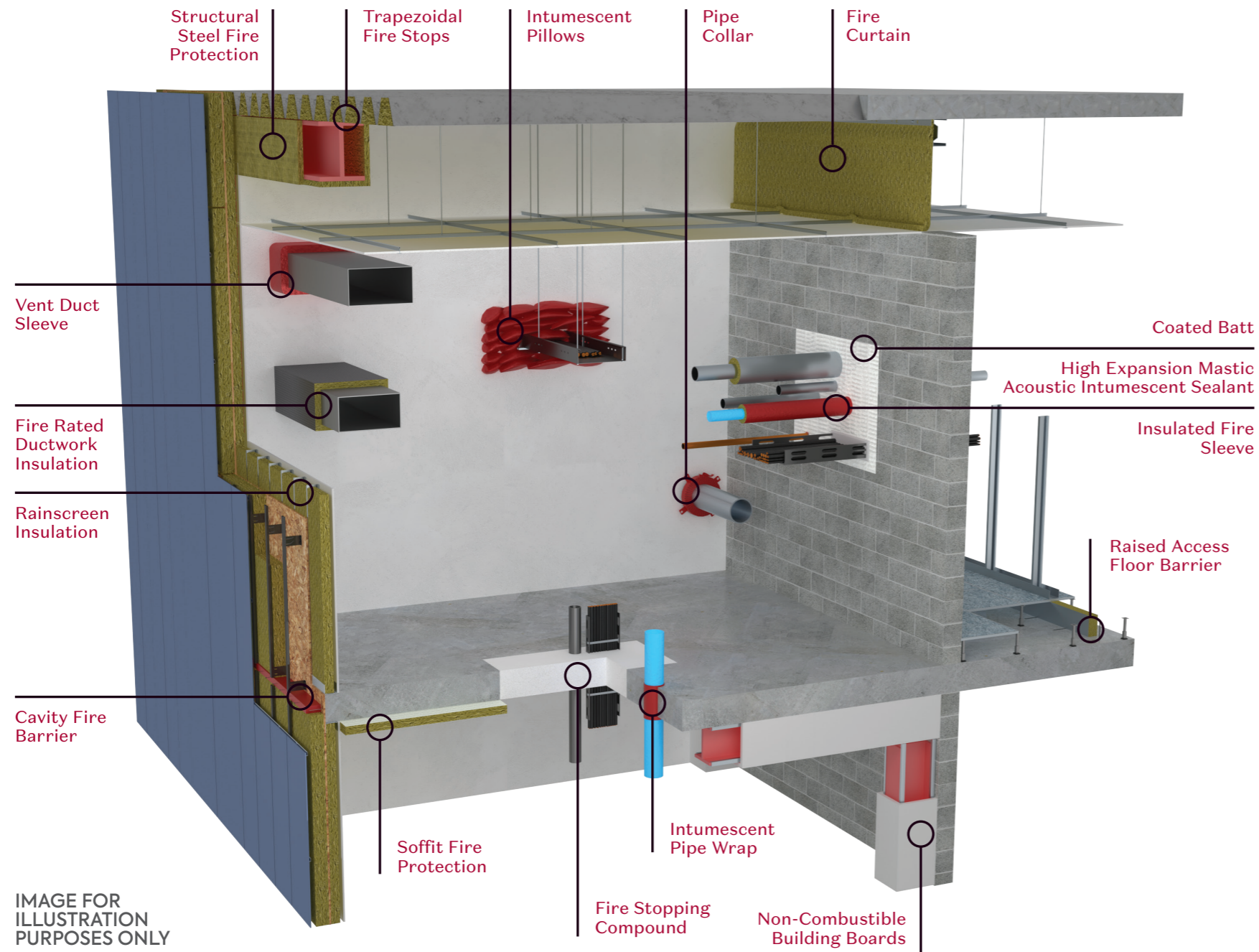
Our partnerships with the leading product manufacturers in fire protection and our unbiased, impartial approach means we have access to thousands of products so are able to find the perfect solution to meet the performance requirements of the project.



Our Solutions

Our team have many years of experience in meeting the Passive Fire Protection requirements of inspectors in low and high rise residential, office, schools, sports stadiums, large infrastructure projects and other high-risk or specialist buildings.

Working with the leading manufacturers of fire protection solutions, we are able to offer a full range of solutions for your project.



Fire Stopping

- Coated Batt
- Acoustic Intumescent Sealant
- Sealants & Ancillaries
- Pipe Collar
- Intumescent Pipe Wraps
- Linear Gap Seals
- Intumescent Pillows
- Fire Stopping Compound

Structural Steel Protection

- Fire Rated Boards
- Fixings

Building Envelope

- Open State Cavity Barriers
- Non Combustible Boards
- Non Vented Cavity Barriers

Fire Barrier

- Cavity Fire Barrier
- Fire Curtain
- Raised Access Floor Barrier
- Trapezoidal Fire Stops

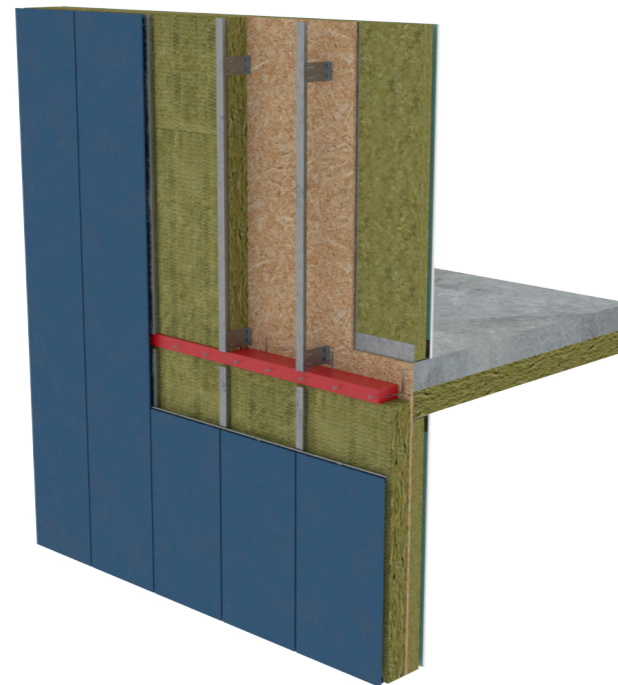
Product Range

We work with leading providers of Passive Fire Protection (PFP), this enables our Fire Protection Specialists to source bespoke solutions for projects, some of our key product areas include:

Building Envelope

Today's architectural design aesthetics require a cladding offering of more than just traditional looking brickwork. Whether your requirements are for high-performing rendered systems, through to comprehensive rainscreen systems, the building envelope can provide a line of defence against fire spread within and beyond a structure. It can contain fires within compartments, limiting their spread to other parts of the building and adjacent structures.

Thanks to our key supply partnerships we are able to assist in the specification and procurement of tested complete systems for every type of building, including commercial, high-rise, high-risk etc.



Structural Steel Protection

Whether your steel encasement requirements are for a frameless or metal framed structure, we are able to source the right solution for your project needs, encompassing fire protection to structural steel columns, beams and joists.

We have a full range of specialist fixings and accessories to help the install meet the standards required.

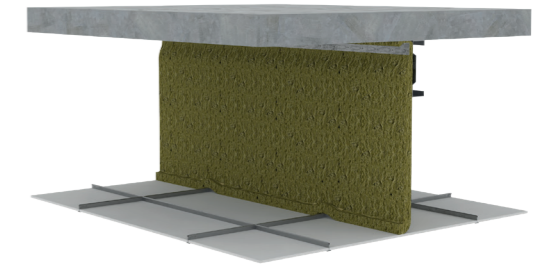


IMAGES FOR ILLUSTRATION PURPOSES ONLY

Fire Barrier

Fire barriers serve the crucial function of containing fires within a specific area, helping to prevent spread to other parts of the building, which can buy crucial time to evacuate safely and for effective firefighting efforts. These are installed vertically at every party wall and horizontally with every floor.

Our supply chain consisting of trusted manufacturers who produce high-quality fire barrier materials and components, ensures access to reliable products that have been rigorously tested and are certified for their performance in fire safety applications.



Fire Stopping

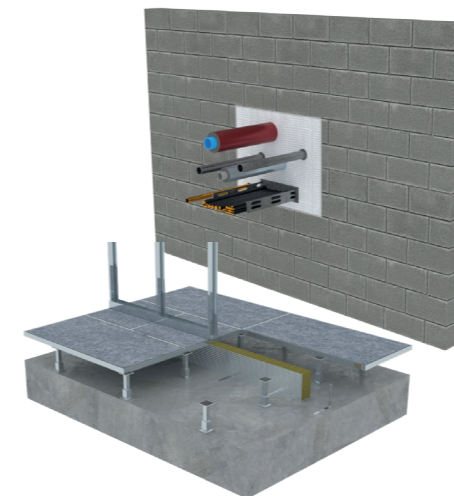
Fire stopping products are used to reinstate the fire performance of compartment walls, floors and ceilings, helping to prevent the passage of fire through concealed voids within a wall.

There are a wide variety of products, materials and methods used in fire stopping solutions that we are able to provide, giving you a tailored solution for your project needs.

Our standard solutions include fire sleeves and collars, sealants and gap fillers to protect voids, openings or penetrations for the delivery of services.

The range of intumescent and ablative solutions available can help achieve the compartmentation you need.

Our specialist suppliers and manufacturers produce solutions for various service penetrations and prevent the spread of smoke or flame within a building.



ASFP Guidance in the use of firestopping components from different manufacturers systems

Kitsons work in alignment with the ASFP's recommendations of not 'mixing and matching' components from different manufacturers, or different systems made by the same manufacturer, when installing firestopping.

While it may be tempting to use e.g. manufacturer A's mineral fibre batt with manufacturer B's adhesive, the combination is unlikely to have been tested and therefore may not perform in fire as intended.

If you have been told to use components from different manufacturers in a particular installation; can you get further advice as to their compatibility? In the absence of test evidence, the default answer is no. While it may be possible to get an assessment from a fire consultant or test/certification body to cover such an application, such an installation may not be covered by any of the manufacturers' warranties or after sales service.

The ASFP and Kitsons strongly recommend the use of third party certificated products. Such products will have a scope of application which will cover their use with other compatible components which may include products from other manufacturers.





Product Performance and Compliance

Complete peace of mind, when you need it most

At Kitsons, we aim to offer our customers complete peace of mind when working in complex and high pressure environments. That's why all our products...

- Meet legislative requirements
- Are fully traceable
- Come with legally compliant documentation

As part of SIG, our wider team of compliance specialists work in conjunction with and support suppliers to ensure all products meet essential regulatory compliance standards, including:

We have developed the project to encompass key assurances advised by our customers as follows:

- ✓ UKCA/CE Marking
- ✓ REACH
- ✓ Safety Data Sheets
- ✓ UKTR/EUTR
- ✓ Poisons & Explosives Precursors
- ✓ Psychoactive substances
- ✓ Modern Slavery
- ✓ Biocidal products regulation (BPR)
- ✓ Restriction of hazardous substance (RoHS)
- ✓ Conflict Minerals
- ✓ Nuclear sector accreditation

For a full list, visit sigassured.co.uk

SIG Assured will continue to evolve to meet new legislation and product changes.

We conduct rigorous assessments against regulatory standards, offer full product traceability, and are committed to working towards greater consumer confidence in product safety and compliance going forward.



Meeting legal requirements

Building regulations set minimum standards for life safety, while the statutory guidance documents such as the Approved Document B (England & Wales) and the Building Standards Technical Handbook (Scotland) provide guidance on how these standards can be met.

In England and Wales Approved Document B is split into two volumes: Volume 1 covers dwelling houses and Volume 2 covers all other buildings. These provide guidance on fire safety design, including the design of escape routes, fire performance of internal wall and ceiling linings, limits to compartment sizes and provisions for the fire service.

They also set minimum limits for reaction to fire and fire resistance for structural elements and construction products and materials. Reaction to fire requirements set limits for heat emission, ignitability, toxic gas and smoke emission, while fire resistance requirements define the period for which materials must withstand exposure to fire.

FIS Best Practice Guide

To assist in the design, specification and installation of building services penetrations to ensure fire compartmentation is maintained, five leading not-for-profit organisations have launched a Best Practice Design and Installation Guide, Firestopping of Service Penetrations.

For more information scan the QR code opposite.



Ensuring product competency

Kitsons are proud ASFP members and support the ASFP mission to raise standards and competence through training, testing, certification and quality of installation and maintenance.

As a distributor member, we promote the use of third-party certificated products and have agreed to comply with the Code of Practice for the supply, design, and installation of PFP products or systems.

Third party certification offers confidence for all in the supply chain that products are 'fit for purpose' and offers assurance that work undertaken will use appropriate materials which are correctly installed.

Third party certification schemes for installers include independent site inspections; full records of the installation; and the provision of a certificate of conformity for completed work. This ensures an auditable trail from the specialist that installed the relevant fire protection measure, back through to the product or systems manufacturer. All ASFP contractor members are third party certificated.

We are committed for our specialists to go through the relevant ASFP training programmes.



Contact your local Kitsons branch to find out more



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