UKTC
A SOCOTEC COMPANY

OUR SERVICES

FIRE RESISTANCE TESTING | REACTION TO FIRE TESTING | TECHNICAL SERVICES | THIRD-PARTY CERTIFICATION

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A SOCOTEC COMPANY

OUR SERVICES BROCHURE

CONTENTS

SPEAK TO OUR TEAM OF EXPERTS

Our team consists of the brightest scientists, engineers, researchers and technicians from the built environment industry. We share a common goal – to enable greater protection of lives and assets – and are ready to help you.

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WE ARE **UKTC**

FIRE TESTING & CERTIFICATION SERVICES FOR CONSTRUCTION PRODUCTS & BUILDING MATERIALS

UKTC is a market-leading UKAS accredited fire testing laboratory and certification body. Established in 2020, UKTC empowers businesses to demonstrate their compliance with industry standards and regulations through reliable and efficient testing.

Our mission is to deliver accurate, efficient, and reliable testing and certification services. With state-of-the-art facilities and a team of highly skilled professionals, we provide comprehensive solutions that address the diverse needs of our clients across multiple industries.

ENABLING CONSTRUCTION PROFESSIONALS TO BUILD A SAFER WORLD.

TESTING

We offer fire resistance, reaction to fire, and other specialised tests to ensure product safety and compliance. Our advanced laboratories use cutting-edge technology to provide accurate and reliable results.

TECHNICAL

Our team provides product classification and extended field of application reports (EXAPs) to help manufacturers maximise the benefits of their test programmes.

CERTIFICATION

UKTC offers UKCA marking and third-party certification services. Our thorough and transparent process allows manufacturers to demonstrate compliance, quality and safety.

We are trusted by the UK's leading passive fire & construction product manufacturers.

UKAS TESTING 21542 · UKAS PRODUCT CERTIFICATION 21542 · egolf · ilac-MRA

TESTING SERVICES

We provide fire resistance, reaction to fire, and other specialised testing to ensure the safety and compliance of products. Our state of-the-art laboratories are equipped with the latest in testing technology to deliver precise and reliable results at pace.

FIRE RESISTANCE TESTING

The fire resistance of a product can be determined through a destructive fire test, designed to replicate the product's intended end-use or application.

UKTC offer a suite of UKAS accredited fire resistance testing options to both BS and EN standards.

ARE YOU A MANUFACTURER AND STILL RELYING ON BS 476 TEST EVIDENCE?

As the September 2029 deadline for the removal of BS 476 approaches, manufacturers will need a transition plan.

Our Technical Services team can complete a scoping analysis of your full product range, and deliver a clear test program for you to follow. Without a clear transition plan in place, you risk unnecessary testing and additional costs.

Visit p14 to learn more about our Technical Services.

TEST METHODS

Doorsets & Hardware
BS EN 1634–1:2014+A1:2018
BS 476–22:1987 § 6, 7 & 8

Walls & Partitions *(Load-bearing)*
BS EN 1365–1:2012
BS 476–21:1987 § 8

Walls & Partitions *(Non-load bearing)*
BS EN 1364–1:2015
BS 476–22:1987 § 5

Glazing Systems
BS EN 1364–1:2015
BS 476–22:1987 § 10

Linear Joint Seals
BS EN 1366–4:2021
EOTA: TR31–2019

Penetration Seals
BS EN 1366–3:2021

UKTC | OUR SERVICES

COMBINATION FURNACE

As part of a £2.5 million investment, UKTC can now offer both vertical and horizontal fire testing from it's UK based laboratory.

The expanded fire resistance service includes one of the UK's only combination furnaces, allowing manufacturers flexibility to test in either a:

- 3 × 3m Vertical Furnace Configuration
- 3 × 4m Vertical Furnace Configuration
- 3 × 5m Vertical Furnace Configuration
- 3 × 4m Horizontal Furnace Configuration

TEST METHODS

Walls & Partitions
BS EN 1364–1:2015 (up to 5 meters)

Ducts & Dampers
BS EN 1366–1/2/8/10

Floors (Load-bearing)
BS EN 1365–2:2014

Doorset Hardware – methods C & D
BS EN 1634–2:2008

Steel Protection / Encasement
BS EN 13381–4:2013

Floors (Non Load-bearing)
BS EN 1364–2:2018

FIRE RESISTANCE TEST JOURNEY

From booking your test date to receiving your final report, every step is designed to be clear, responsive, and reliable.

You work directly with our Technical Officers and the testing team throughout the process, giving you quick answers and full visibility.

Draft test reports are **delivered within 7 working days** of testing, helping you move forward without delay.

This approach keeps the process simple, reduces waiting time, and supports better decisions.

TESTING & SPECIMEN DETAILS

Immediately following the instruction to proceed with your test program, a Technical Officer and Surveyor will be assigned to your project. Your Technical Officer will be your main point of contact throughout your test journey.

SPECIMEN INSTALLATION

Installation can be carried out by UKTC or your own team. If you're in attendance, we have dedicated client offices for you to feel at home for the duration of your stay.

TESTING

The fire resistance test will be carried out by your dedicated Technical Officer on the agreed date. This can be viewed in-person or remotely and will be recorded.

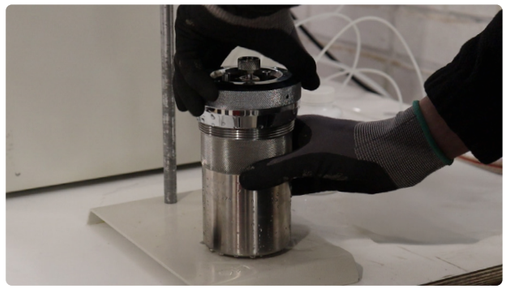
DRAFT REPORT DELIVERY

We deliver draft test reports within an industry-leading 7 working days, allowing you to respond to market demands without delay.

REACTION TO FIRE TESTING

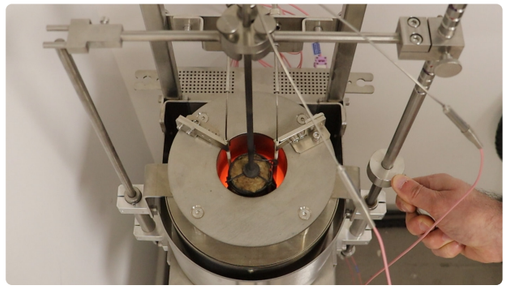
Reaction to fire testing is a process that measures how a building component reacts to fire and heat, and determines its ability to withstand high temperatures. This testing is crucial for ensuring the safety of building occupants and property.

To achieve a BS EN 13501–1 classification, a product will be subject to a series of tests to identify its reaction to fire.



BS EN ISO 1716:2018
CALORIFIC VALUE

This test determines the potential maximum contribution of a product to a fire by measuring the gross heat of combustion.

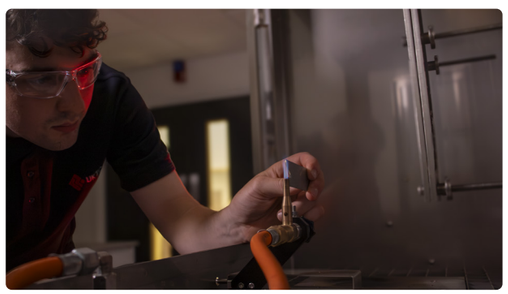


BS EN ISO 1182:2020
NON-COMBUSTIBILITY

This test identifies products that will not, or not significantly, contribute to fire, regardless of their end use.

BS EN 13823:2020
SINGLE BURNING ITEM

This procedure specifies a method of testing for determining the reaction to fire performance of construction products when exposed to thermal attack by a single burning item (SBI).



BS EN ISO 11925–2:2026
SMALL FLAME

This method specifies a test for determining the ignitability of products by a direct small-flame impingement under zero impressed irradiance using vertically oriented test specimens.

BS EN 13501–1 CLASSIFICATIONS

A reaction to fire classification demonstrates a product's reaction to fire for product stakeholders to quickly identify how the product should react when exposed to fire. This allows products to be correctly specified for their end use.

The table below highlights the test required to achieve a reaction to fire classification of A1 – F.

	A1	A2	B	C	D	E
BS EN ISO 1716 CALORIFIC VALUE	✓	✓*	✗	✗	✗	✗
BS EN ISO 1182 NON-COMBUSTIBILITY	✓	✓*	✗	✗	✗	✗
BS EN ISO 13823 SINGLE BURNING ITEM (SBI)	✗	✓	✓	✓	✓	✗
BS EN ISO 11925–2 SMALL FLAME	✗	✗	✓	✓	✓	✓

*can conduct either BS EN ISO 1716 or BS EN ISO 1182

LEARN HOW TO READ A REACTION TO FIRE CLASSIFICATION ON OUR WEBSITE.

SCAN THE QR CODE TO GET STARTED

TESTING

SUPPORTING TESTS

By providing supporting and complimentary accredited tests, manufacturers can benefit from testing one sample, in one location across the full spectrum of required tests.

SMOKE LEAKAGE TESTING

Our smoke leakage chamber allows us to provide comprehensive and accurate test results in an industry-leading time frame.

To evaluate smoke leakage at ambient temperatures, the test is conducted using our specially designed smoke leakage chamber that houses a partition to install the specimen. The chamber uses fans to control the pressure exerted and includes a pressure transducer, a flow meter and digital displays to record pressure and leakage rates throughout the test.

Leakage over the perimeter length of the opening element is used to determine the results. It is possible to evaluate both positive and negative pressures at ambient temperature.

Readings can be performed to BS EN 1634-3: 2004 or BS 476-31.1: 1983.

ACOUSTIC TESTING

To support our customers and minimise the costs associated with their test programs, we have invested in a purpose built sound transmission suite and acoustic laboratory. This allows manufacturers to test for fire, smoke, and acoustics in one location.

Acoustic testing measures how sound travels through building materials and construction systems. It provides a clear, measurable understanding of how effectively a product can reduce and control sound transmission.

Our laboratory testing is conducted in accordance with the BS EN ISO 10140 series, measuring:

Airborne Sound Insulation: how well a wall or partition stops voices, music or other airborne noise passing between spaces

Sound Absorption: how materials control echo and reverberation within rooms

These results help designers, manufacturers and developers demonstrate compliance with UK Building Regulations such as Approved Document E, which covers resistance to the passage of sound.

TECHNICAL SERVICES

Our technical services offer the opportunity for customers to demonstrate the enhanced quality and application of their products to their marketplace as well as maximise their test evidence applications.

SCOPING ANALYSIS

The purpose of the Scoping Analysis exercise is to maximise the coverage of your fire test evidence and minimise the number of tests required.

For many manufacturers, the solution to maximising scope coverage from testing will be an Extended Field of Application. A scoping analysis will plan the full journey from a client's 'wish list' through to the completion of an EXAP.

Let's take a look at the Scoping Analysis pathway...

DISCOVERY SESSION

Our technical experts will work with your team to define a "wish list" of configurations and components to be covered by your evidence. Existing evidence will be reviewed and used to identify gaps in your product coverage.

DEFINED SCOPE & TIMELINE

Following completion of the Scoping Analysis, our team will create a tailored recommended fire test program that will maximise your scope coverage in the least amount of tests.

FIRE TESTING

It is then the responsibility of the manufacturer to produce and complete the proposed fire resistance test program. Upon completion of the program the test reports can be submitted to our Technical Services team to create an EXAP.

EXTENDED FIELD OF APPLICATION

An Extended Field of Application, and subsequent classification reports, can be developed and issued following the receipt of all test evidence. The timeline for an EXAP is subject to the number of test reports and range of scope.

EXTENDED FIELD OF APPLICATION REPORTS (EXAP)

EXAP, or Extended Field of Application reports, are crucial to modern fire safety testing. With their ability to predict performance and extend application scopes, they streamline compliance with fire safety regulations and contribute significantly to the 'golden thread' of building performance evidence.

WHY EXAPS ARE CRUCIAL FOR PRODUCT MANUFACTURERS

Extended Field of Application Reports allow manufacturers of passive fire protection products to maximise the scope of their product. By using existing BS EN test evidence, manufacturers can minimise the need for further testing by using the extension rules set out within the EXAP standard.

As the industry moves towards the 2nd of September 2029 removal of BS 476, EXAPs will be key to manufacturers transitioning from BS 476 fire resistance test evidence to BS EN evidence.

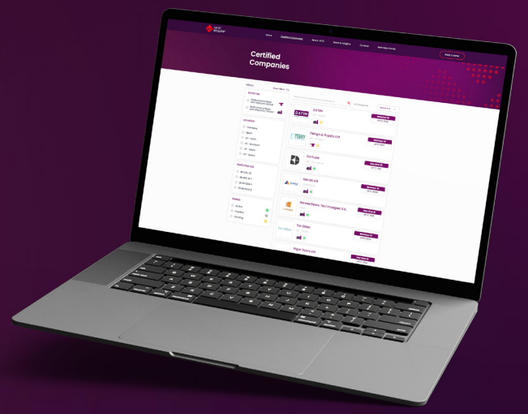
BS EN 15269-2	-	Hinged and pivoted steel doorsets.
BS EN 15269-3	-	Hinged and pivoted timber doorsets.
BS EN 15234-4	-	Glazed constructions.
BS EN 15269-5	-	Hinged and pivoted metal framed glazed doorsets and openable windows.
BS EN 15269-7	-	Steel sliding doorsets.
BS EN 15269-20	-	Doors, shutters, operable fabric curtains and openable windows.
BS EN 15254-3	-	Lightweight partitions.
BS EN 15254-7	-	Metal sandwich panel constructions.

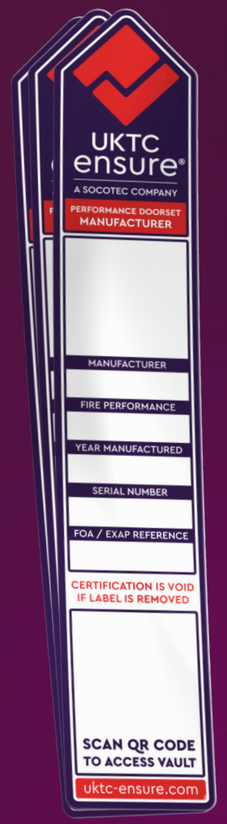
CERTIFICATION SERVICES

Our third-party certification is the first of its kind in the UK. UKTC ensure® offers manufacturers and service providers independent verification of the product whilst answering regulatory demand for clearer labelling, accountability and traceability.

WHAT IS UKTC ENSURE®

UKTC ensure® is a third-party certification scheme for passive fire protection products and installers, designed to eliminate ambiguity. By making certification conditional on the publication of supporting data (e.g. FoA reports, EXAPs, classification reports) and providing a secure, digital space as a single source of truth, UKTC ensure is the first third-party certification scheme that is fully aligned with the Golden Thread and answers the demands of regulatory stakeholders.





ANSWERING THE DEMANDS

UKTC ensure® was developed in response to the recommendations of the various reports in the wake of the Grenfell Tragedy. These key points along with the input of the UK's leading passive fire stakeholders has led to UKTC ensure® being the third-party certification of choice for organisations in the UK and Europe.

UNAMBIGUOUS PRODUCT INFORMATION

The UKTC ensure® label is a mark of independent verification of the quality of the certified products. It also acts as the first step in the golden thread.

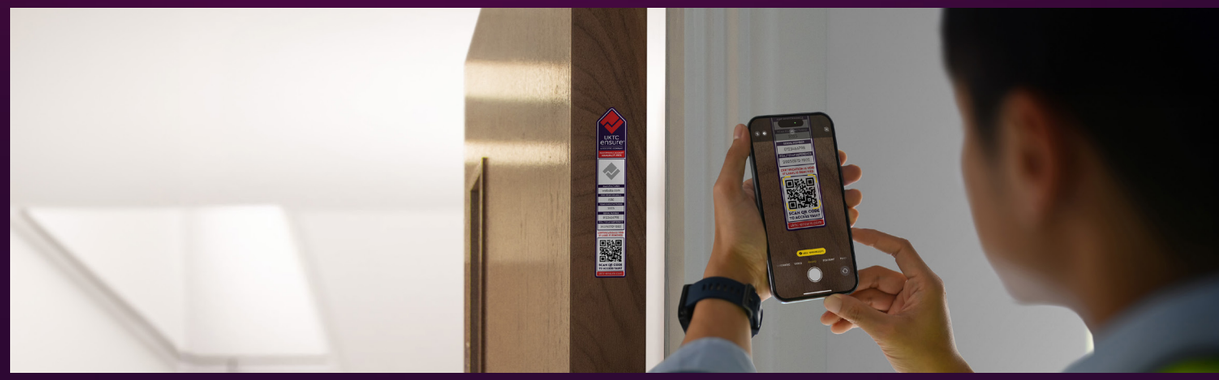
These tamper-resistant labels offer unambiguous information and a gateway to the UKTC ensure® vault, allowing access to vital safety information for stakeholders when they need it.

This safety-crucial information, is vital to the golden thread and demonstrates the organisation's commitment to accountability and transparency.

THE CERTIFICATION PROCESS

The UKTC ensure® certification process echoes the transparency that is at the core of its mission. Scheme rules and the certification process are publicly accessible, not hidden from scrutiny, to ensure stakeholders understand how manufacturers are assessed and certified...

- Products must be tested to harmonised or designated standards.
- Systems must be proven and compliant with relevant quality management accreditations.
- Field of Application or Extended Field of Application reports must be current, referenced, and published in full.
- Classification reports must reflect the tested construction, not extrapolated marketing claims.
- All documents are uploaded to the ensure Vault with version control and accessible to stakeholders.
- Certification decisions are made independently by UKTC under ISO 17065.



THE KEY DIFFERENCES

	UKTC ensure®	Legacy Schemes
Unbroken, transparent chain of evidence as recommended by the Paul Morrell & Anneliese Day Review (2023) for all safety-critical products.	✔	✖
Digital access to supporting documentation as mentioned in The Construction Products Reform Green Paper (2025).	✔	✖
Contributes to the digital framework for managing fire safety information throughout a product's lifecycle as outlined in BS 8644–1:2022.	✔	✖
Ensures evidence is digital, accessible, version-controlled, and linked to product marking as per The Golden Thread Report (BRAC, 2021)	✔	✖
Meets the recommendations of the UK Government's 2026 Review of Third-Party Certification Schemes	✔	✖

A SOCOTEC COMPANY

United Kingdom Testing & Certification was acquired by SOCOTEC UK & Ireland in 2025. The acquisition strengthens UKTC's position as the UK's fire testing partner of choice and opens the door to expanded capabilities, investment and long term growth.

SOCOTEC is the UK's leading provider of testing, inspection and compliance services with comprehensive solutions in the infrastructure, environment, building & real estate and advisory sectors.

What this Means for UKTC Customers

- You'll continue to work with the same friendly, knowledgeable team that you already know.
- There are no changes to our service model.
- You can expect the same industry-leading turnaround times that you've always received.

Following the acquisition of UKTC, SOCOTEC CEO Hervé Montjotin said:

The move aligns with SOCOTEC Group's global expertise in fire safety, with over 300 fire safety experts worldwide, allowing the UK operation to leverage internationally held knowledge and skillsets from across the company's presence in 27 countries. SOCOTEC's global fire and building safety portfolio includes specialised centres of excellence across Europe, the Middle East and the USA.

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INVESTING IN THE FUTURE OF FIRE TESTING.

(L – R)
Matthew Marriott, SOCOTEC UK & Ireland, CEO
Hervé Montjotin, SOCOTEC Group, CEO
Jim Clay, SOCOTEC UK & Ireland, Managing Director, Environmental Science
Andrew Hutchison, Operations Director, UKTC

A WORD FROM OUR OPERATIONS DIRECTOR, ANDREW HUTCHISON

> There's a fine margin between safety and tragedy. Our team work hard to ensure the safety of building occupants and assets through compliance.

We understand the paramount importance of safety in today's dynamic landscape and that's why businesses trust us to help them build a safer world.

Our dedicated team of experts work tirelessly to ensure that businesses can demonstrate that their products, processes and people are safe, quality and fit for purpose.

When you choose UKTC, you're partnering with a with a team dedicated to helping you succeed.

Andrew Hutchison
Operations Director
UKTC

SPEAK TO OUR TEAM OF EXPERTS

Our team consists of the brightest scientists, engineers, researchers and technicians from the built environment industry. We share a common goal – to enable greater protection of lives and assets – and are ready to help you.

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