



Test Report

The fire resistance performance of a Symmetric, Non-Load Bearing, Partition wall assembly when tested in accordance with BS EN 1364-1: 2015.

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Prepared For
Knauf UK GmbH
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Building safely with drylining:

Understanding fire classification reports and test reports

KNAUF

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***Product and
system testing:
A cornerstone to
building safety***

An assessment of the industry

The Construction Products Reform Green Paper 2025 proposes stricter UK regulations to improve safety, accountability, and traceability in the construction sector. The focus is on creating robust, transparent, and accountable systems that prioritises safety and public trust.



Key themes from the paper:

- 1 Product Requirements**
Mitigate and manage risk, by using safe products, that are installed in the correct manner.
- 2 Critical to Safe Construction**
Expectation that any 'critical to safe construction' products comply with a recognised standard, or third party verification scheme.
- 3 Third Party Certification**
Government proposal to introduce minimum requirements, applied to all 3rd party certification schemes.
- 4 Test Procedures, Research & Development**
Proposal that a national regulator must have the powers to mandate the disclosure of any information relating to the testing or R&D process it considers necessary in assuring that a product complies with the law.
- 5 Data Publication**
Establishment of a national construction library, for all product information, including test results.

“A significant amount of information and data is generated as part of the testing process to ensure our products and systems are safe for use. Test reports are highly technical so it’s important to understand what to look for, where to look for it and why it is critical to system performance”

Jimmy Collins
Head of Technical, Knauf UK & ROI

What data is available for products and systems?

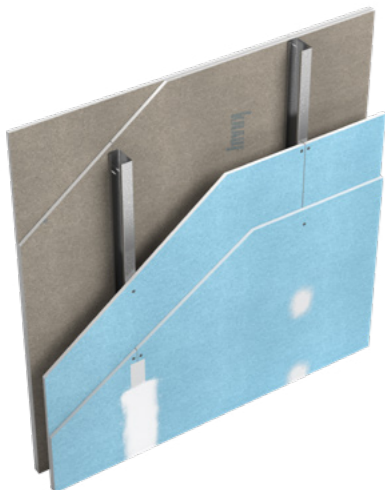
Construction product test data refers to the results of tests conducted on building materials, products and systems to assess their performance, safety, and compliance with relevant standards and regulations. Whilst products are thoroughly tested, how a system performs is critical as it is the integration of multiple products into one system to deliver performance.

Product



- Declaration Of Performance (UKCA / CE)
- Environmental Product Declarations (EPDs)
- Manufacturer Safety Data sheets (MSDS)
- Reaction to Fire (BS EN 13501-1)
- Product Data Sheet

System



- Fire resistance test report
- Fire classification report
- Acoustic sound insulation test report
- Stiffness
- Impact duty rating
- Installation guide
- System details



**ALL OUR NBS LISTED SYSTEMS
INCLUDE ASSOCIATED
TECHNICAL DOCUMENTS**

View on NBS →



Different system, different standards, different data

Fire Resistance Test and Fire Classification Reports are essential for proving that your systems can comply with the building regulation, approved documents and other technical legislation to ensure safety for all. These reports don't just validate compliance—they help provide assurance that the systems you design for your project are fit for purpose.

As a specifier of systems and materials critical to building safety, like drylining, it's vital you're equipped to interpret and act on test and classification reports. At Knauf, we're here to guide you through the details, giving you the tools to understand these reports and identify what matters most.

Understanding the key reports

Fire Test Reports for non-load bearing partition systems (BS EN 1364-1)

Data is recorded on the integrity (E), insulation (I) and stability of the system under fire conditions.

- Fire Classification Reports (BS EN 13501-2):**
 A step further, these reports translate fire resistance test findings into system classifications (e.g., EI 30 or EI 60) that offer a clear, standardised classification for a given system. These independent classifications are a requirement to comply with building regulations and Approved Documents.
- Why these matter:**
 The data from these reports directly informs your design and system choices.

At Knauf, we aim to ensure you have confidence in these reports, empowering you to make informed decisions for safety, compliance, and performance.





***Guiding you
through fire
test reports and
classifications***

Introducing the 5A's

Our 5A's are a simple and helpful guide to assessing fire test reports and classifications



Authenticity

Where was it tested?
Is the Test House UKAS accredited?



Age

When was the system tested?



Accuracy

What standard(s) was the system tested to?



Applicability

How applicable is the data to real-world installations and relevant EXAP standards?



Availability

Where can I access the information?

THE 5A's Authenticity

United Kingdom Accreditation Service (UKAS) is the UK's national accreditation body, recognised by the government to assess organisations that provide certification, testing, inspection, and calibration services. The importance of a UKAS-accredited facility lies in its ability to provide reliable, impartial, and internationally recognised results, which are critical in industries like construction, where safety, compliance, and performance are paramount.

As an example Approved Document B - England states:

"Tests and assessments should be carried out by organisations with the necessary expertise. For example, organisations listed as 'notified bodies' in accordance with the European Construction Products Regulation or laboratories accredited by the United Kingdom Accreditation Service (UKAS) for the relevant test standard can be assumed to have the necessary expertise."

Source: Approved Document B (England), Appendix B5



Knauf Pro Tip

Ensure the 'prepared for' section is aligned to the product manufacturer, and that the accreditation body is clearly visible.

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THE 5A's Age

The importance of reliable and up-to-date test reports cannot be overstated. These reports serve as critical proof of a system's relevance, compliance, and performance reliability.

As standards evolve and product formulations are refined, the validity of older test certifications can diminish, leaving a potential gap in performance data. That's why relying on up-to-date testing is key to ensuring your project meets today's safety and performance requirements.

How Knauf Ensures Your Peace of Mind

When it comes to fire resistance, Knauf can offer the following assurance:

- 97% of all Knauf systems claiming fire resistance properties have been rigorously tested and classified since 2023.
- 100% of Knauf's non-load bearing partition systems are now up-to-date with fire resistance testing and classifications as of 2023.



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1.5 Instruction to Test

The test was conducted on 23 April 2024 at the request of the Test Sponsor. The test was remotely witnessed by [redacted] a representative of the Test Sponsor.



Knauf Pro Tip

If you find a test report is more than five years old question its relevance with the manufacturer.

THE 5A's Accuracy

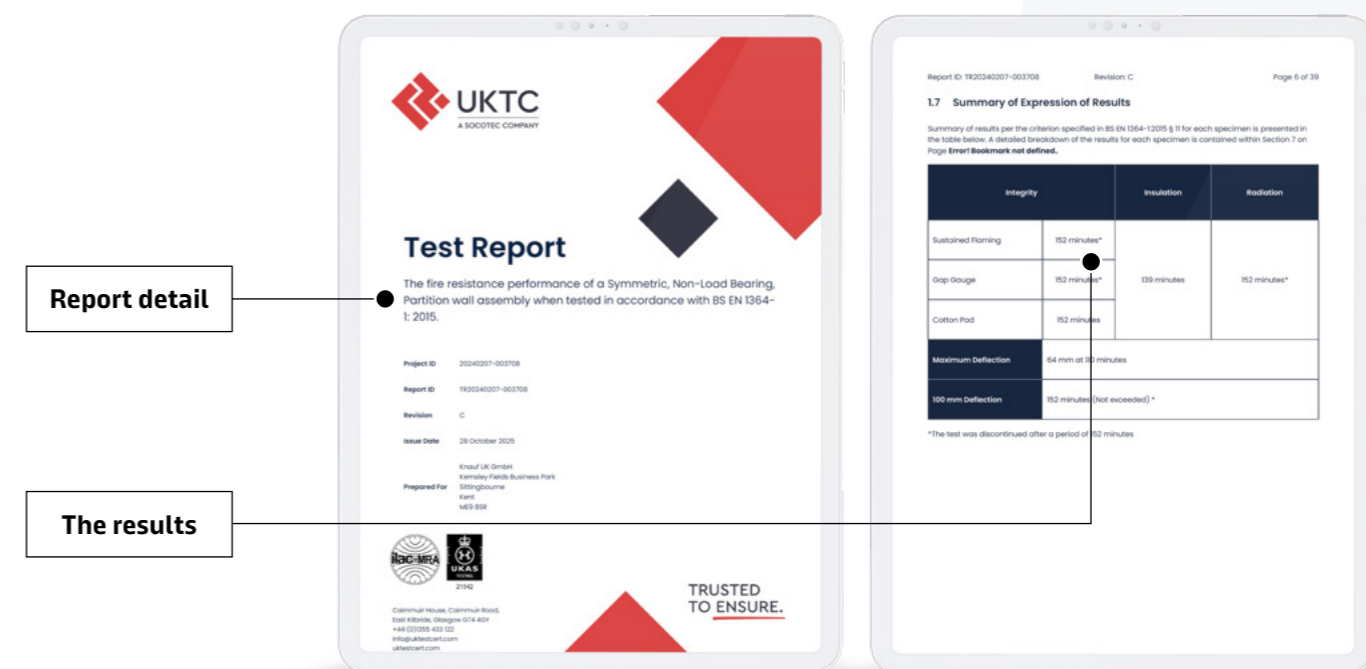


Knauf Pro Tip

Ensure the test standard used in the report, matches the requirements for your scheme.

It is important that the fire test and fire classification reports accurately reflect the requirements of your scheme and the requirements with which you are trying to comply.

With the removal of the BS series planned for 2029, testing and classifying your partition systems to the EN methodologies will help you to comply with Approved Document B (England).



Report detail

The results

	Integrity	Insulation	Radiation
Sustained Flaming	152 minutes*		
Gap Gauge	152 minutes*	139 minutes	152 minutes*
Cotton Pad	152 minutes		
Maximum Deflection	54 mm at 10 minutes		
100 mm Deflection	152 minutes (Not exceeded)*		

*The test was discontinued after a period of 152 minutes



Report detail

The results

	Sustained Flaming	Gap Gauge	Cotton Pad	Insulation (I)	Radiation (R)
Integrity (E)	152 minutes	152 minutes	152 minutes	139 minutes	152 minutes*
Insulation (I)				Exceeded maximum temperature criteria	g/FI
Radiation (R)	5 kW/m ²	10 kW/m ²	15 kW/m ²	20 kW/m ²	25 kW/m ²
Maximum Deflection	54 mm at 10 minutes				
100 mm Deflection	152 minutes (Not exceeded)				

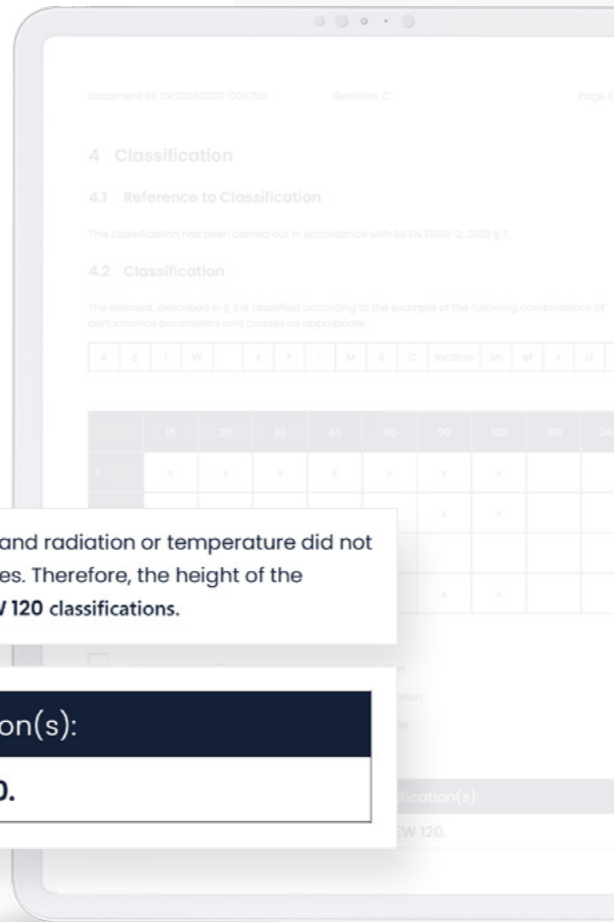
*The test was discontinued after a period of 152 minutes.

THE 5A's Accuracy

Knauf Pro Tip
Ensure your project requirements are aligned to the limitations of fire and extended heights in the reports.

Two other key areas of ensuring accuracy are the fire resistance classification, and extended heights.

Fire Resistance Classification: Ensure the detail of the results matches the stated final classification. In the example below, under test conditions, the system retained its structural performance for 152 minutes, whilst achieving over 120 minutes for system integrity (E) and insulation (I). Therefore, this system can be given a Classification of E, EI & EW 120.



The deflection did not exceed 100 mm for a period of 152 minutes and radiation or temperature did not exceed 6 kW/m² or 300°C respectively after a period of 146 minutes. Therefore, the height of the construction may be increased to 4 meters for **E 120, EI 120 and EW 120** classifications.

Fire Resistance Classification(s):
E 120, EI 120 and EW 120.

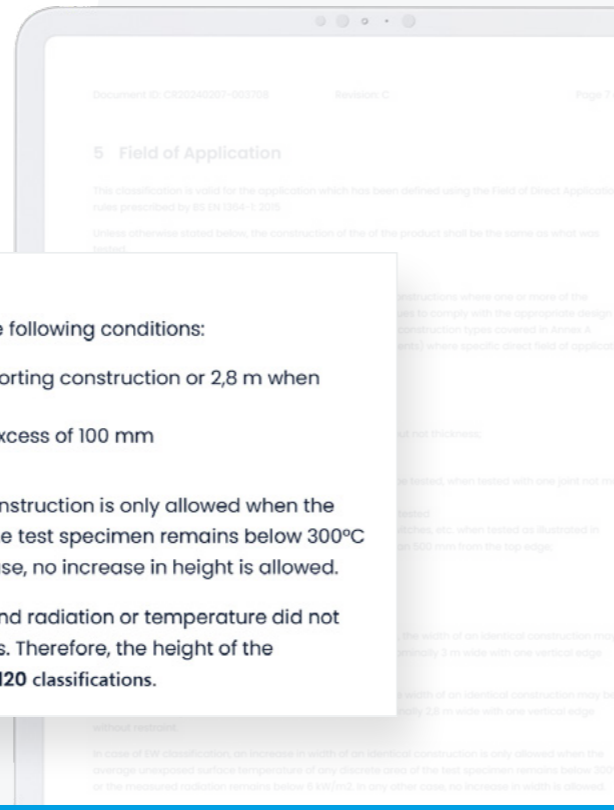
A fire classification report will also offer limitations on extending heights, exceeding these will compromise the performance of your system specification (use image below):

5.1.3 Extension of Height
The height of the construction may be increased by 1,0 m under the following conditions:

- minimum tested height is 3 m when tested without a supporting construction or 2,8 m when tested with a supporting construction
- the maximum deflection of the test specimen was not in excess of 100 mm
- the expansion allowances are increased pro-rata

In case of EW classification, an increase in height of an identical construction is only allowed when the average unexposed surface temperature of any discrete area of the test specimen remains below 300°C or the measured radiation remains below 6 kW/m². In any other case, no increase in height is allowed.

The deflection did not exceed 100 mm for a period of 152 minutes and radiation or temperature did not exceed 6 kW/m² or 300°C respectively after a period of 146 minutes. Therefore, the height of the construction may be increased to 4 meters for **E 120, EI 120 and EW 120** classifications.

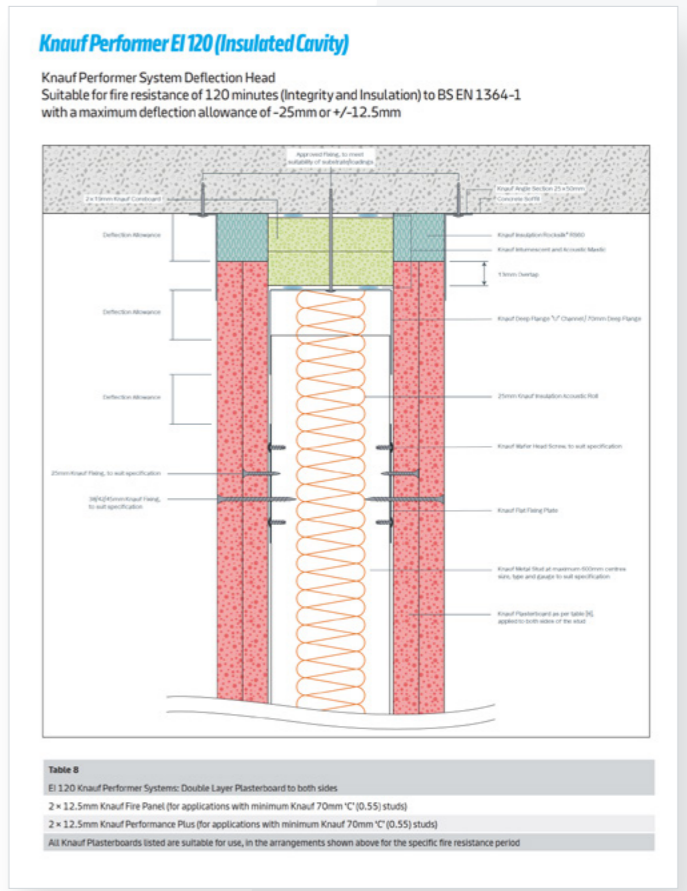


THE 5A's Applicability

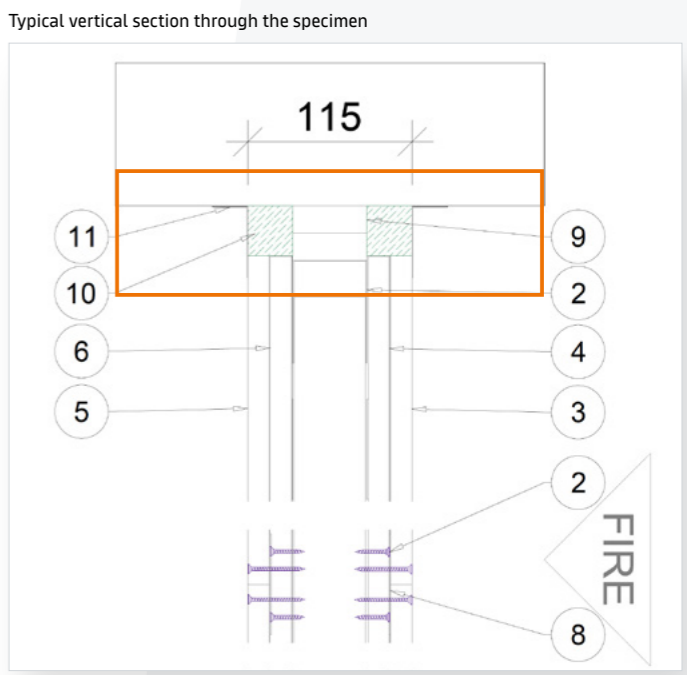
To achieve stated performance, it's crucial that the system arrangements tested in the rig reflect real-world scenarios. In other words, the test setup must match the exact application and performance requirements of the final site installation.

Partitions, linings, and shaft wall systems should always be tested with deflection head arrangements to ensure they can handle typical site conditions. By replicating these real-world scenarios during testing, you ensure that the system is truly fit for purpose.

If these elements aren't included within the test rig, you can't guarantee the same performance as when the system is actually in use. Without testing for as-designed and as-built conditions, there's a real risk of compromising system reliability—and ultimately, the safety and integrity of the building.

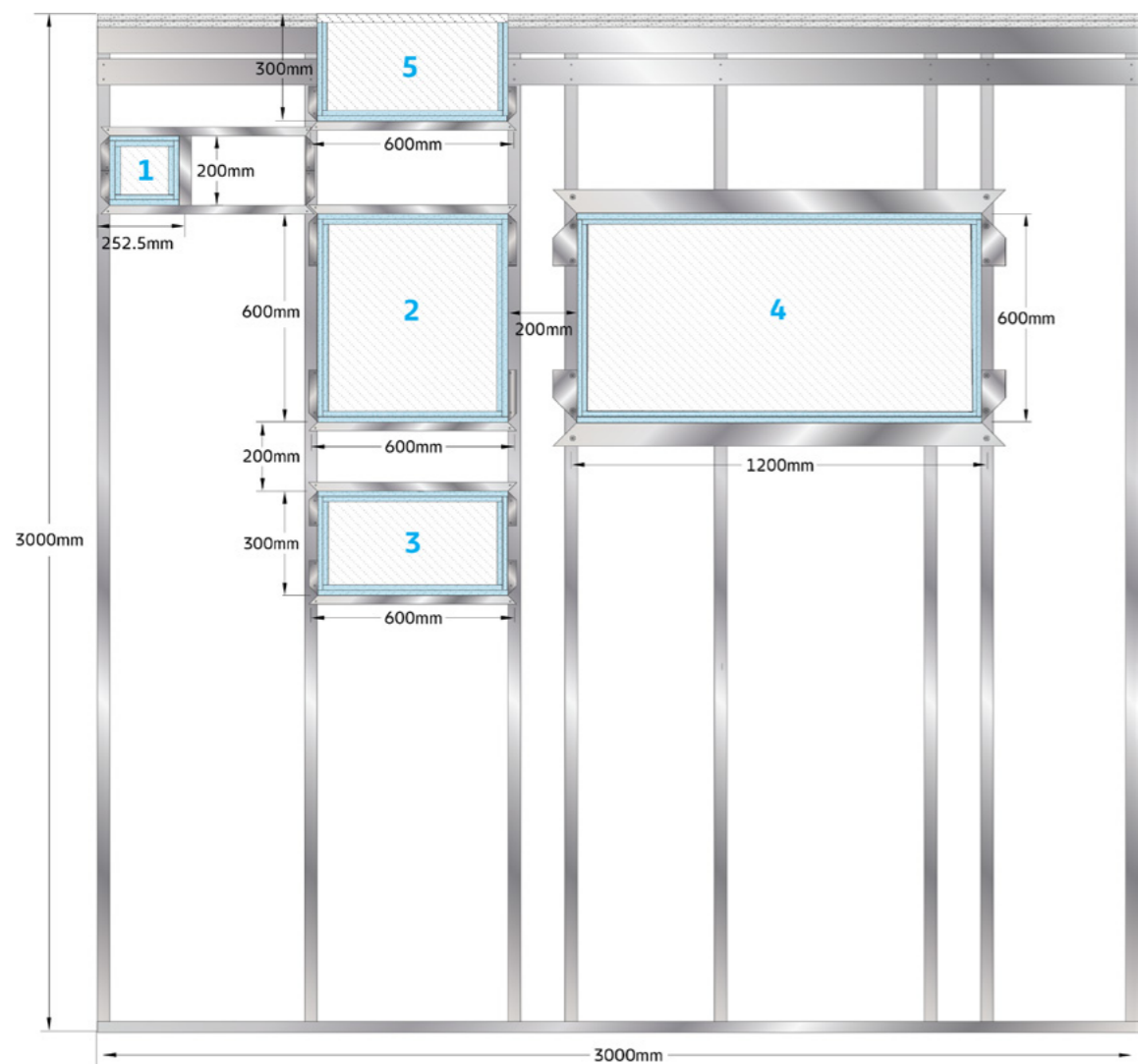


Knauf Pro Tip
Ensure your on site build matches the as tested arrangement.



THE 5A's Applicability

To address applicability for services and openings Knauf have produced a separate guide, and CPD, to explain our tested approach in this crucial area.



Our Service & Openings guidance document is now available, as well as a supporting CPD. Speak to your Knauf representative for more details or download it today.

[Download](#) →

THE 5A's Availability

We know that access to accurate product and system performance data is essential for precise and reliable specification writing. Transparency is key to ensuring compliance and delivering safe buildings.

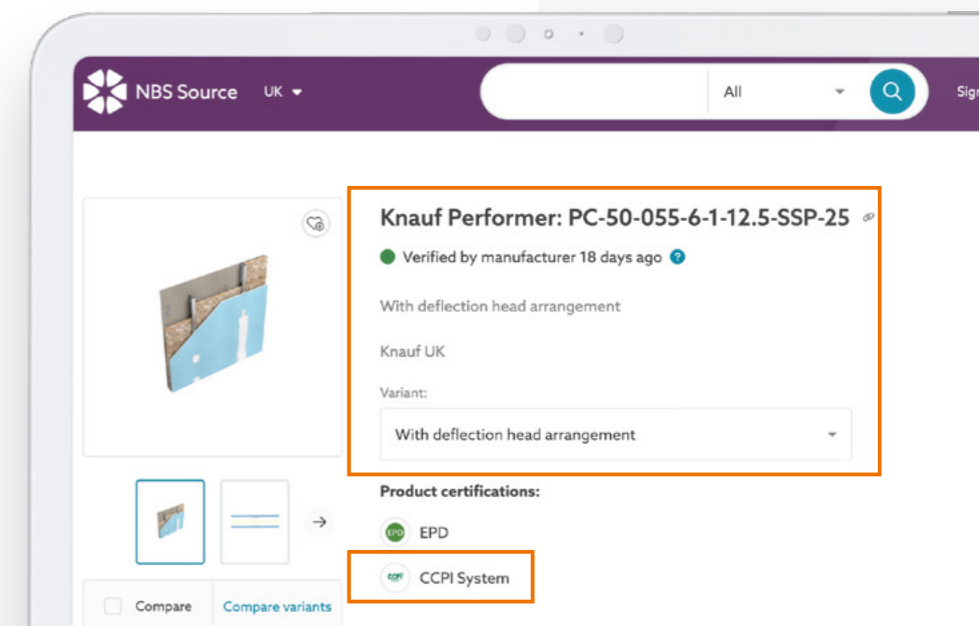
That's why, at Knauf, we've made it easy. All our fire test and fire classification reports are available on the NBS portal. You'll also find our Environmental Product Declarations, Safety Data Sheets and Product Data Sheets in the same place, ready for you to integrate directly into your specifications; the data you need on a platform you can trust.

Knauf Pro Tip

You don't need an NBS account to access our test reports on the platform. Alternatively, you can request any report directly from Knauf, just visit our website and use our [Contact Us](#) form



[View Knauf on NBS](#) →



Deflection head
For deflection head allowance of up to -25 mm or ±12.5 mm, use 2 x 19 mm Knauf Coreboard fillets.
Fire resistance
EI 30 tested in accordance with BS EN 1364-1.
Sound insulation
44 dB (Rw) when tested to BS EN 10140-2.

Description

The 5A's, a recap:



Authenticity

Approved Document B (England) advises that testing and assessments are conducted by a 'notified body' or by UKAS accredited laboratories to ensure that the necessary expertise has been consulted when undertaking the work.



Age

How long ago was the system tested? Can you safely assume that the products tested have remained the same in formulation and arrangement over that time period?



Accuracy

With the upcoming removal of the BS 476 series, it is important that systems are tested and classified to the relevant EN standards. Extension of heights in fire-resistant systems is a critical area.



Applicability

It is important to ensure that the system arrangement installed in the test rig matches the application and performance requirements for which you need it to perform.



Availability

All systems being promoted in the public domain must be supported by information, accessible to all wishing to specify that system.



With Knauf and our 5As, you have a trusted partner to support your specification





Why Knauf?

Build on us

As a global leader in construction materials, Knauf delivers high-performing systems to help build the spaces where we live, learn and care. With robust data, industry-leading technical support, and hands-on guidance, we help reduce risk, ensuring safe, compliant, and efficient builds.



Supporting you and your project every step of the way

Strong partnership drives success, so having quick access to specialist support is essential. You can always depend on our team of specialists to provide expert technical guidance and solid practical advice.



Project Specification Managers
Interior solutions expertise



Business Development Managers
Exterior solutions expertise



Project Technical Managers
Keeping project compliance on-track



Design Support Services
Drawings, calculations, and environmental considerations for external facade projects



Area Sales Managers
Track the project to distribution for pricing and on time in full scheduling



Online, on the phone or by email
The support you're after however you want it



Here to support you

Our local Knauf Project Specification Managers and Project Technical Managers are on hand to help and support throughout your project. For more information visit [knauf.com](https://www.knauf.com) or scan the QR code.

KNAUF



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