Testing Framework Guide - Siderise RH Cavity Barrier for rainscreen applications

SIDERISE

Siderise RH Open State Cavity Barrier - horizontal application

Diagram illustrating the relationship between statutory and industry compliance guidance, classification standards and applicable cavity barrier testing methodologies in England and Wales

Compliance and acceptance of project-specific designs require a holistic review and clarification by the Project Design Team, with support from a qualified and competent Project Fire Engineer.

This framework is based on guidance in Approved Documents B (Fire safety) to outline relevant testing methodologies for open state cavity barriers used to the rear of rainscreen façade systems.

Where applicable, additional regulatory and industry guidance should also be reviewed. e.g. CWCT TN116.

The Project Fire Engineer is to demonstrate how open State cavity barriers fulfil the functional requirements of the building regulations

Specialist technical guidance developed by industry body ASFP is widely adopted for this purpose.

Building Regulations, 2010, Schedule 1, Part B Requirements B3 (Internal fire spread) and B4 (External fire spread)

Approved Documents B (Fire safety) Volumes 1 & 2, 2019 + 2020, 2022, 2025 amendments

Association for Specialist Fire Protection (ASFP) Red Book Firestopping Linear joint seals, penetration seals and cavity barriers, 4th Edition

Approved Documents B refer to ASFP Red Book for suitability of different applications and guidance on test methods.

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Details open state cavity barrier use, installation, performance and testing for rainscreen cladding.

BS EN 1364-6: 2025

Fire resistance tests for non-loadbearing elements Open-state cavity barriers.

BS EN 1364-6 is now a fully released test standard and has entered its transition period of being adopted. Typically, a change of product testing standard is five years.

Applicable to TGD 19: Following the Field of Direct Applications for interrupted insulation, the following hierarchy is to be used from best to worse: Best - stone wool, glass wool, phenolic, PIR, PUR, EPS – Worst.

ASFP Technical Guidance Document 19 (TGD 19)

Fire test method developed by ASFP for open state cavity barriers as they are not covered by EN 1366-4: 2021.

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Outlines the test configurations and fail criteria for testing of open state cavity barriers pending acceptance of prEN 1364-6 (Fire resistance tests for non-loadbearing elements – Open state cavity barriers), which has since been released as BS EN 1364-6 31 May 2025.

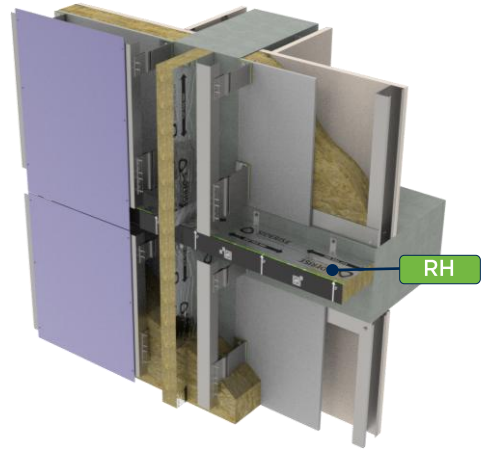
RH Open State Cavity Barrier

Third-party certification
IFCC 1712

Third-party certification remains the **primary** and most appropriate form of product verification confirming that underlying test evidence has been independently assessed and validated by accredited bodies and are publicly available via our website. In line with industry guidance (ASFP Advisory Note 34).

OSCI Open State Cassette Insert

OSCI is a stone wool insert used to infill the depth of profiled cladding and cassette panels to simplify detailing. Installed behind the panel and aligned with the Siderise RH Cavity Barrier, it functions as an insulation insert rather than a cavity barrier. As such, there is no dedicated product-level fire resistance test standard for OSCI, and it is not required to provide a fire resistance performance because the cladding cassette itself is not required to be fire-resisting.



Note;
Image shown is an indicative illustration only to demonstrate a typical rainscreen façade system arrangement.

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ASFP Technical Guidance Document TGD 19 is intended to determine the performance of the open state cavity barrier itself rather than the bounding substrates.

Primary testing and third-party certification is typically concrete to concrete.

The Project Design Team should clarify the overall design, including the bounding substrates.

Where available, Siderise can provide **supplementary** evidence to aid the Project Design Team in their holistic review e.g.

- Siderise cavity barriers used with a range of SFS wall build-ups / sheathing boards, CLT structure.
- Siderise RH with rail interface.
- Siderise RH with pipe penetration.
- Also consider the Siderise large-scale system test library (BS 8414-1, BS 8414-2, NFPA).

Large-scale test library

Compliance and acceptance | Framework | Siderise products Tested to standard | Not relevant to the given application | Explanatory Information | Third-party certification | Specialist guidance