Testing Framework Guide - Siderise PC Cavity Barrier & Firestop for precast concrete cladding applications

SIDERISE

Siderise PC Cavity Barrier & Firestop - horizontal and vertical application

Diagram illustrating the relationship between statutory and industry compliance guidance, classification standards and applicable cavity barrier and firestop 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 cavity barriers and firestops used to the rear of precast concrete cladding.

Where applicable, additional regulatory and industry guidance should also be reviewed.

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

BS EN 13501-2: 2023 (Fire classification of construction products and building elements. Classification using data from fire resistance and / or smoke control tests, excluding ventilation services)

BS EN 1366-4: 2021 (Fire resistance tests for service installations – Linear joint seals)

BS 476-20: 1987 (Fire tests on building materials and structures - Method for determination of the fire resistance of elements of construction (general principles))

To be withdrawn September 2029.

Assessment

ASFP Advisory Note 17

Position paper on assessments and technical evaluations in lieu of fire testing.

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PFPF Guide to Undertaking Technical Assessments of Fire Performance.

EXAP

BS EN 1366-4: 2021 refers to BS EN 15882-4: 2012 for additional scope and extended field of application rules.

DIAP

Direct field of application rules to BS EN 1366-4: 2021.

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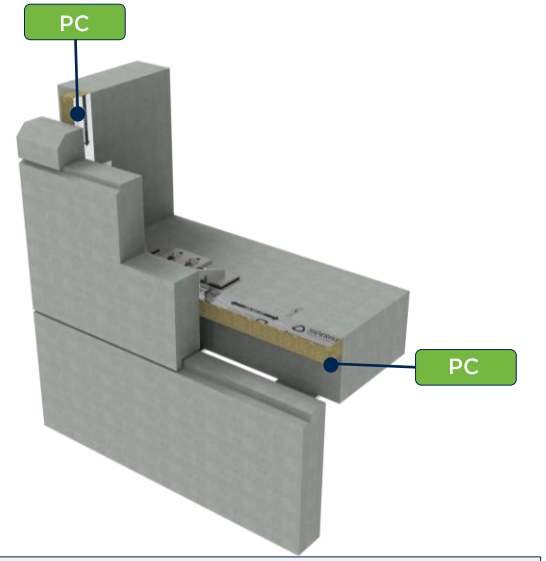
Listed product parameters as per PC-FS & PC-CB Technical Datasheet

PC-CB and PC-FS Cavity Barrier & Firestop

Functioning as both a horizontal and vertical linear joint seal

Third-party certification IFCC 2080

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).



Note;
Image shown is an indicative illustration only to demonstrate a typical precast concrete cladding façade arrangement.

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The EN 1366-4 test Standard is designed and intended to determine the performance of the linear joint seal itself (i.e. the cavity barrier or firestop), rather than the bounding substrates. Options to test with different substrates, directly in accordance with the standard, are limited.

Primary testing and third-party certification, directly in accordance with the standard, 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 / firestops used with a range of SFS wall build ups/ sheathing boards, CLT structure.
- Siderise PC with bracket interface.
- Siderise PC at end of flexible wall.

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