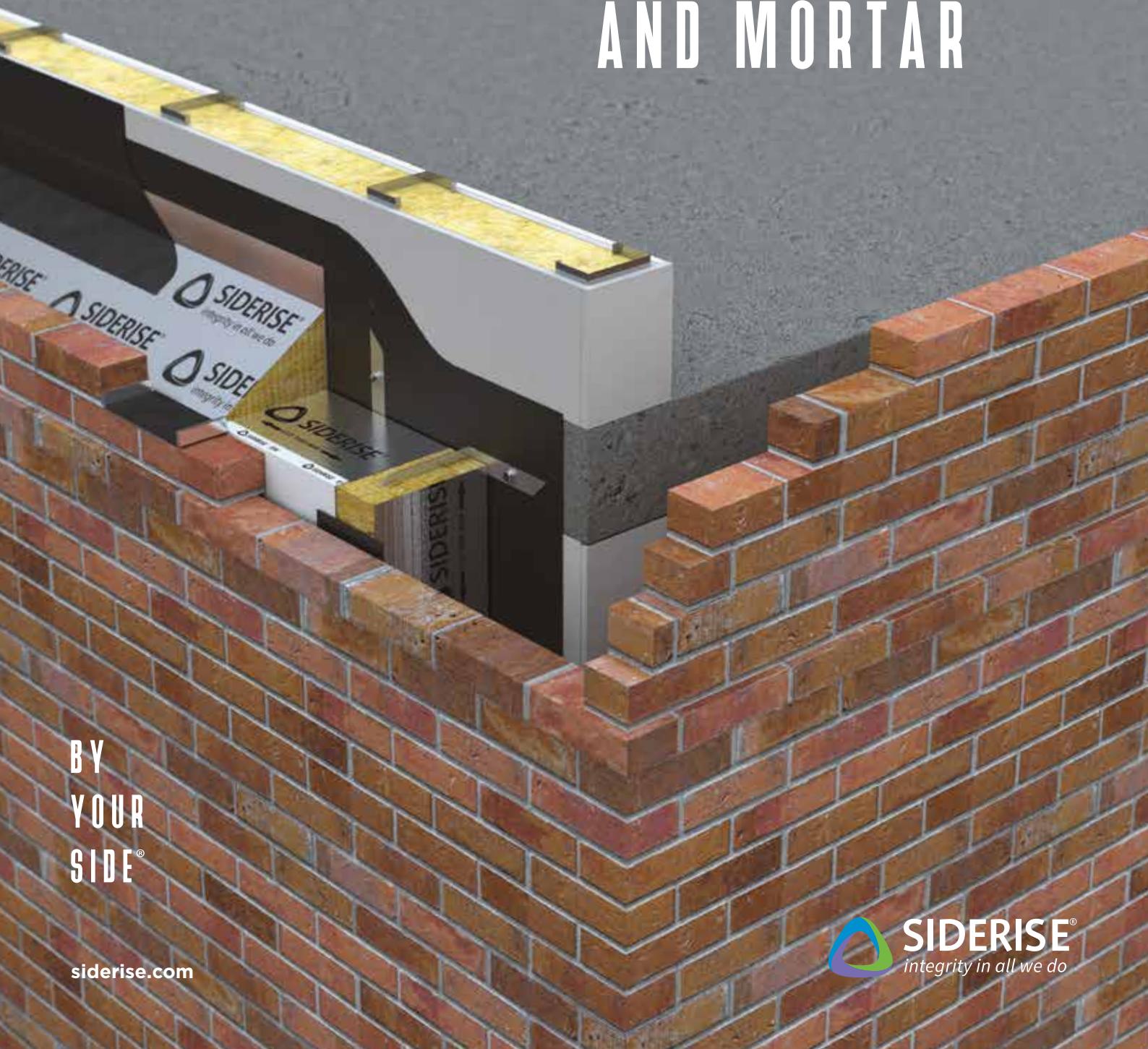


WE'VE PUT
OUR EXPERTISE
INTO BRICKS
AND MORTAR



BY
YOUR
SIDE®

siderise.com

 **SIDERISE®**
integrity in all we do

INTRODUCTION

With their durable finish and classic aesthetic, masonry materials have been used for centuries. However, with increasingly strict regulations around fire and building safety, there is a clear need for solutions that have been specifically engineered and tested for masonry facades. Our range of passive fire solutions for masonry allow architects, fire engineers and contractors to meet the fire safety requirements of their projects simply, without compromises.



ABOUT SIDERISE

With over 45 years' experience, Siderise passive fire and acoustic insulation systems provide high-performance solutions to create beautiful, protected buildings without compromise.

Siderise's role throughout its contribution to building projects worldwide, places technical, accredited and third party-certified product performance at the very heart of its passive fire products and solutions. Our responsibility to optimum safety in façade and curtain wall structures begins in the collaboration of building concept and design. We have the technical expertise and insight to understand what's required to build a safer building, and we will work with you to ensure that your projects are designed and built with integrity.

This is delivered on a project basis through 3 core principles:

Insight

- We work collaboratively with the project team to gain a clear understanding of the building and its specific requirements, using this information to develop a solution which can resolve challenging details, optimise fire performance, and create safe and beautiful buildings.
- We empower designers and contractors to expand their own insight into issues surrounding fire safety, with a range of CPD and installer training opportunities.

Ingenuity

- Our technical team are problem solvers, working by the side of stakeholders to find the bespoke solutions they need and identify potential issues early on, preventing unnecessary outlay of time and money, and contributing to safer buildings.

Integrity

- We put our products through numerous third party verified fire tests for both products and complete systems, to provide reassurance that they can help you to meet any regulatory demands and that they will perform as expected in the event of a fire.
- We make these certifications and test data, along with any other key product information freely available in comprehensive Technical Files.
- To support quality installation and traceable information, we have developed a simple to use inspection and reporting app that makes it easy to record the progress and quality of installation, carry out audits, and identify and address any issues. It also offers a visual record of hidden elements of a construction once the build is complete.

Learn more at www.siderise.com/by-your-side

WHY IS SIDERISE PUTTING ITS EXPERTISE INTO BRICKS AND MORTAR?

Masonry is a popular facade choice all over the world. We not only rely on its inherent fire resistance, noise-reducing capabilities, and ability to withstand harsh weather conditions, but also enjoy the rich palette of tones and textures it offers. From the outside, masonry appears to be a straightforward construction. However, when we look behind the outer layer of bricks, they are more complex than they seem.

Potential Risks

To prevent moisture penetrating through to internal spaces, it is necessary to build masonry facades with an inner and outer leaf, creating a cavity in between. Whilst beneficial for preventing damp and creating space for insulation, these voids can cause serious issues in a fire. They can act as a chimney, allowing flames, heat, and smoke to spread into different building compartments.

Within this cavity, there are several different materials whose interactions need to also be considered. This has become increasingly complex over time with the growing use of quick-to-construct steel framing systems (SFS), rather than traditional blockwork for the inner leaf.

There are also several design elements specific to masonry facades which, if not considered properly, could cause serious fire risk issues. This includes decorative offset bricks, creating an inconsistent cavity depth, or projecting balconies that have historically lacked a standard tested approach for firestopping.

Expert solutions

Drawing on our vast experience and knowledge of facades, we have developed a suite of passive fire solutions for masonry constructions which address all these issues. Each of these products have been developed and thoroughly tested to match the ethos that surrounds modern masonry construction – from speed of build to providing a proven reliable and robust solution for buildings made to last.



- 1 Inner leaf
(main structural wall e.g. SFS, blockwork, precast concrete)
- 2 Weatherproofing membranes
- 3 Insulation and cavity barriers
- 4 DPCs and weep vents
- 5 Masonry wall
- 6 CT Cavity Tray

MARKETS

Applications

This range of passive fire products has been developed specifically for masonry facades, covering all kinds of brick and stonework, including brick slips and render systems. This makes them suitable for a whole range of low to high rise projects in sectors including:

- Residential
- Commercial
- Education
- Public Sector

Regions

From its head office in the UK, Siderise operates globally with distribution partners across Europe, Asia Pacific, and the Middle East & India. For more information and to contact your local sales representative, visit: www.siderise.com/about-us/siderise-global



PRODUCTS



SIDERISE EW

External Wall System

Comprising of a range of simple-to-install cavity barriers and firestops, Siderise EW system is designed to seal off cavities within external masonry facades to provide an effective and compliant fire, acoustic and thermal barrier

The standard range has been optimised to include options of materials that are cost-effectively matched to suit the specific performance criteria for all fire stopping requirements.

Additionally, the products have excellent sound reduction qualities which can be used to combat unwanted noise via flanking transmission.

These products represent an ideal combination of fully qualified performance, practical installation and cost effectiveness.

- Fire Resistance: EI 30 & EI 120
- Sound reduction: up to 25dB (Rw)
- Integral smoke barrier
- Resilient to accommodate site tolerances without cutting
- Certified 3rd Party Approval



SIDERISE EWI

External Wall Intumescent System

The Siderise EWI System is an enhanced system of cavity barriers and firestops which contain integral intumescent material. This expands when exposed to high heat to seal irregular cavities, such as those created by protruding or sunken brickwork, providing an effective and compliant fire barrier for external walls incorporating decorative features.

Designed for both masonry inner leaf and steel frame system (SFS) constructions. The leading edge is encapsulated in a white weather resistant polymer film.

EWI is a horizontal barrier used in conjunction with EW Vertical barriers.

- Fire Resistance: EI 30 & EI 120
- Integral intumescent
- Up to 25mm voids/decorative features accommodated





SIDERISE BB BALCONY BRACKET

Balcony Bracket

Designed to provide a simple, tested solution to the complexities of fire stopping around balcony brackets in masonry constructions. Siderise BB provides a rapid solution to a complex detail and allows continuity of cavity compartmentation when abutted either side by Siderise Cavity Barriers and Fire Stops.

Siderise BB is available in two primary forms with the following minimum clearances:

- Siderise BB-CB - 55mm above the connector and 55mm below
- Siderise BB-FB - 15mm above the connector and 50mm below.

Siderise BB-CB comprises a low resin content stone wool insulation core which is pre-compressed internally to form a resilient strip. The material is faced with a reinforced aluminium foil which is an effective smoke barrier. Siderise BB-CB balcony bracket kit comprises of 4 pre-cut interlocking sections that encapsulate the balcony bracket connection.

Siderise BB-FB comprises of a high-density stone wool insulation, the material is faced with a reinforced aluminium foil which is an effective smoke barrier. Siderise BB-FB balcony bracket kit comprises of sections of pre-cut insulation that are then assembled on site to encapsulate the balcony bracket connection.



- Siderise BB has been tested to EN 1363-1:2012 (WF 409690) and achieved over 2hrs fire performance - 120 minutes Integrity/ 120 Insulation (EI 120)
- Pre-cut for complex details
- Custom profiles to order



SIDERISE CT CAVITY TRAY

CT Cavity Tray

Combining a robust yet flexible aluminium cavity tray with integral non-combustible insulation, the Siderise Cavity Tray is a single-component, fully tested solution engineered to provide reliable weatherproofing within masonry cavities.

The Siderise Cavity Tray has been created specifically to provide a comprehensive, compliant solution for masonry facades. Unlike similar products on the market, it comprises of a flexible aluminium cavity tray with integral non-combustible insulation, creating a single-component solution that is simple to specify and install.

- Classified A2-s1, d0 to EN 13501-1
- Robust and durable
- Speed of installation – single pre-insulated design, fast and simple, removes the need to chamfer the lower insulation
- Simple jointing with Siderise CT jointing tape plus Black DPM, no additional sealants or wet adhesive
- No hot works or power tools required
- All corners cut on site – no offsite manufacturing of bespoke corners
- Easily accommodates site tolerances and general building movement





10 Woodberry Down Block B, London

WOODBERRY DOWN BLOCK B, LONDON

Siderise has provided a proven range of cavity barriers and an innovative new balcony bracket for a residential building located within a new sustainable community in north London.

A landmark 64-acre regeneration project taking shape near Finsbury Park, Woodbury Down will feature over 5500 new homes and community facilities whilst maintaining a sustainable approach to development. Working with Berkeley Homes and façade contractor Swift Brickwork on Block B of the development, Siderise provided a range of fire compartmentation solutions including both the EW cavity barrier for masonry walls and the new BB-CB Balcony Bracket – a ready-to-fit cavity barrier solution offering 2 hours fire resistance, which addresses the complex detailing where a balcony interacts with the building envelope, and allows for simple abutting of the EW products to provide continuity of the cavity barriers.

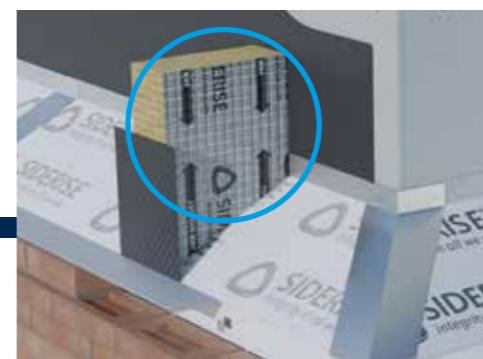
The ongoing and long-term collaboration with Berkeley Homes led to Siderise recommending both the EW

cavity barrier to seal the gap between the inside of the floor slabs and the exterior brick façade, and also the new BB-CB balcony bracket - cavity barrier, the first time this innovation has been installed in balcony applications.

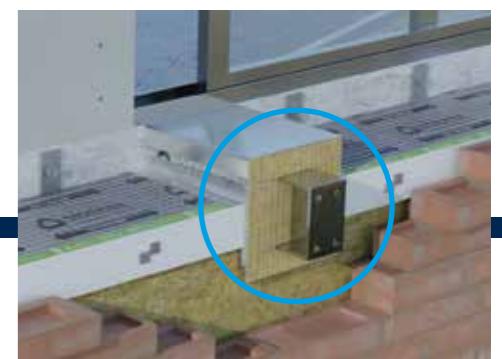
Siderise developed the innovative ready-to-fit BB-CB solution for balcony applications in order to speed-up the installation and provide a tested fire compartmentation solution for an area where high workmanship skills were required.

In addition to the bespoke technical support and guidance provided throughout the project, the Siderise Inspection App offered the developer an efficient way to effectively inspect, record and seamlessly audit the quality of their installation work on this residential building throughout the contract. By capturing the relevant information on a standard smartphone or tablet device, Swift Brickwork was able to highlight any issues in need of a resolution and ensure 100% quality assurance on the installation of the cavity barrier system.

Products used



EW | Cavity Barriers and
Firestops for Masonry
External Walls



BB-CB | Balcony Bracket –
Cavity Barrier

11 Woodberry Down Block B, London

BY YOUR SIDE®

Siderise Insulation

Passive fire solutions for the building envelope

United Kingdom

Siderise Group, Forge Industrial Estate,
Maesteg, UK, CF34 0AY
T: +44 (0) 1656 730833 | F: +44 (0) 1656 812509

Middle East & India

Siderise Middle East Fz LLC, Office 132,
Al Shafar Investment Building,
Al Quoz Industrial Area 1, Dubai, UA
T: +971 (0) 4 580 4999

Asia Pacific

Siderise (Asia Pacific) Pte. Ltd. 80 Robinson Road,
#02-00 Singapore 068898
T: +65-963 19310

www.siderise.com

