



SUREBRICK

a **Forterra** innovation



THE NEXT GENERATION BRICK SLIP SYSTEM

SureBrick, a Forterra innovation, is the next generation brick slip system and the result of Forterra's commitment to modernising and improving building methods.

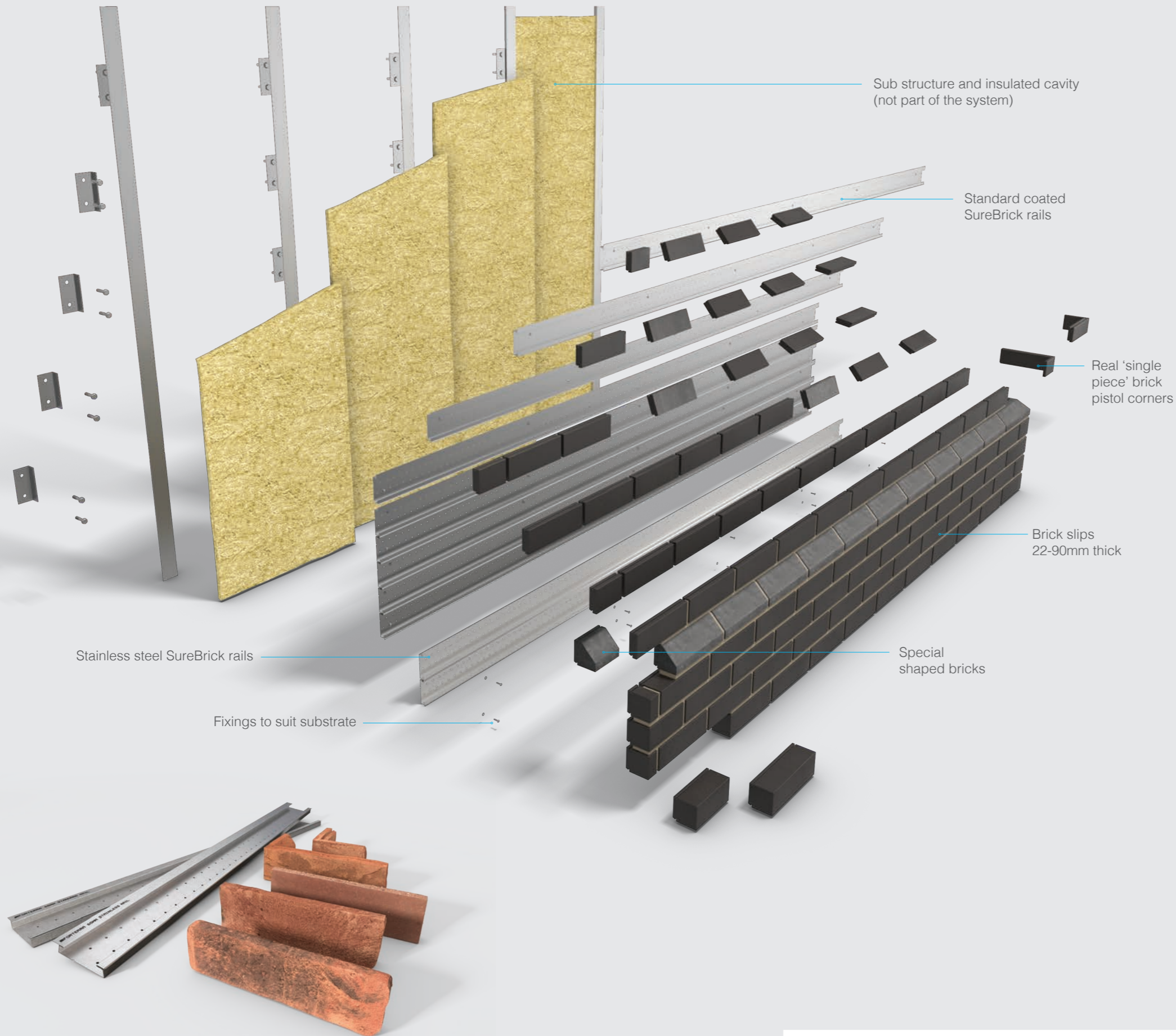


Offering all the benefits of a modern brick slip system but without architectural compromise, SureBrick is capable of delivering design-led projects in an efficient and cost-effective manner.

Lighter weight than traditional masonry, SureBrick is simple to install with no reliance on conventional bricklaying skills. It produces thinner walls so buildings can be better insulated delivering higher levels of thermal performance. It also facilitates a speedier build process than traditional methods, creating buildings that are wind and water-tight earlier in the build program.

SureBrick's enhanced choice of design and finish options means the system can deliver any required style and can be used in almost every conceivable building type and location.

**With a risk-free mechanical fix,
SureBrick is the most evolved
brick slip system available.**



THE SUREBRICK ADVANTAGE

SureBrick is the result of extensive market research and development, talking to architects, specifiers, installers and clients to fully understand today's requirements of a brick slip system.

ROBUST

The brick slips are mechanically retained, eradicating risks relating to poor installation.

RISK FREE

Our components are non-combustible and the system tested to A1 classification meaning the system complies with regulations and can be used in buildings of any height.

DESIGN COMPATIBLE

The system can accommodate any 65mm frost resistant (F2) brick, making it much easier to meet design specifications, match local brick types and meet planning requirements

UNLIMITED INDIVIDUALITY

It can easily incorporate traditional brick detailing to deliver an individual, architectural finish.

VERSATILE

It is suitable for use in all new build and refurbishment projects, including private and social housing, schools, hospitals, medium and high-rise buildings, panelised or volumetric modular construction.

FLEXIBLE

A highly flexible system that is easy to use and can be easily adjusted to accommodate brick coursing alignment and accommodate site tolerances.

COST EFFECTIVE

It is cost efficient, utilising the highest specification components for maximum performance and optimised value.

A FORTERRA INNOVATION

SureBrick comes with the highest level of service and support from Forterra, including design assistance, detailed project-specific costing, scheduling support, delivery, and installation training.

THE DESIGN ADVANTAGE

One of SureBrick's many outstanding features is its compatibility with a wide selection of brick types and finishes. The system can incorporate any 65mm-high F2 brick, produced by any manufacturer. This includes cut, extruded, soft mud, pressed or thrown bricks, or purpose made slips, offering thousands of design variances to suit your scheme's requirements.

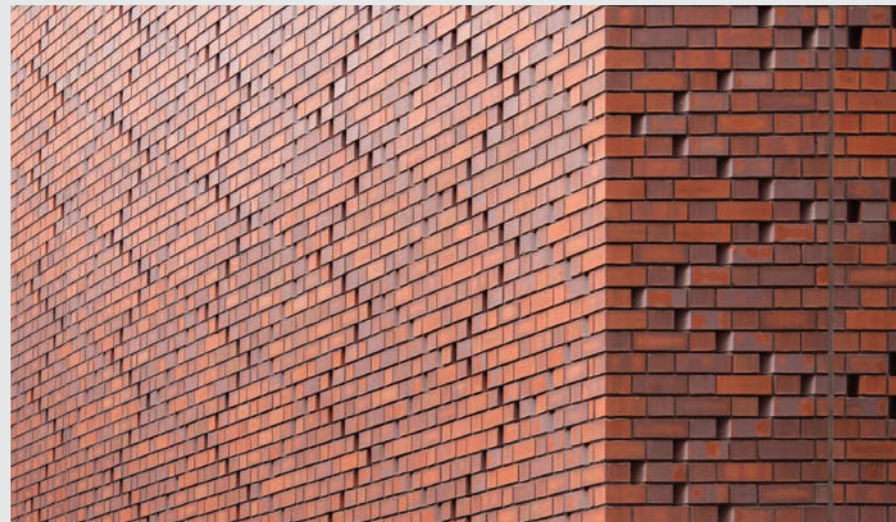
SureBrick's versatility means the system can be used in every conceivable building type and location.

This includes projects where bricks have to be matched with local brick types or existing buildings in the area, or projects where it will be used alongside traditional construction methods.

The SureBrick system has also been developed to enable architects and designers to incorporate traditional brick detailing in their projects, including any projection of up to 68mm, numerous bond patterns, plinth bricks and special lengths or shapes. With thicker brick slips it is even possible to finish using any standard mortar joint profile.

SureBrick is the first brick system available in the UK that can deliver complete architectural flexibility as standard, including:

- ✔ Soft mud bricks
- ✔ One piece corners
- ✔ Projections
- ✔ Shapes
- ✔ Detailing
- ✔ Bond patterns





THE ONSITE ADVANTAGE

SureBrick completely overcomes the problems associated with brick slip systems that rely on the use of adhesive onsite. With its risk free mechanical fix, SureBrick also eliminates any delays in installation due to weather conditions.

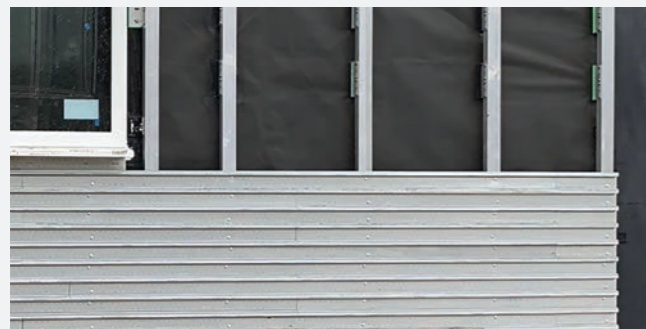
The simplicity of the system is further enhanced by the use of just four rail types, screws and profiled brick slips which when combined can deliver highly complex, beautiful, architectural facades without the need for highly trained bricklayers.

As part of a modern construction solution, SureBrick also brings significant advantages to the build programme allowing internal trades to proceed at the same time as the façade installation. This efficiency brings many advantages not only in terms of accurate and efficient build scheduling, it also reduces the need for costly access equipment and scaffolding.

SureBrick can be adjusted during installation to accommodate construction tolerances - up to 27mm/m of vertical adjustment is possible.

INSTALLATION

Installation training by Forterra's experienced technical team is offered ahead of the build date. All projects are assigned a dedicated contact to provide on-site support and advice.



For installation information and to watch our step-by-step video visit forterra.co.uk/surebrick



1 SureBrick can be fixed to many different backing wall types, including SFS, timber frame or concrete.

2 Interlocking rails are screwed to the structure, with fixing points at a maximum of 600mm centres.

3 Specially profiled bricks are then simply clipped or slid into place before finishing with pointing mortar.

4 Details such as corners and window interfaces are easily incorporated.

THE PERFORMANCE ADVANTAGE

RISK FREE

SureBrick's mechanical clipping system means that it is completely safe on site. The body of the brick is accurately profiled so that it clips into the metal rails which are mechanically fixed back to the supporting structure.

This approach also ensures SureBrick can be relied upon to deliver maximum performance for the lifetime of the building - backed by extensive testing.

TESTING

SureBrick has vast appeal for projects involving complex façade designs, and the testing has to reflect this reality. Where some systems have only tested a basic façade, SureBrick test certification incorporates numerous architectural system variances.

This rigorous and comprehensive testing includes:

Hygrothermal - Heat Rain Cycles

Hygrothermal - Heat Cold Cycles

Hygrothermal - Extended Freeze Thaw Cycles

Air-tightness

Weather-tightness

Fire - Material classification

Wind Load Resistance

Deflection - Serviceability & safety

Fixing - Pull-through rail, perpendicular and shear

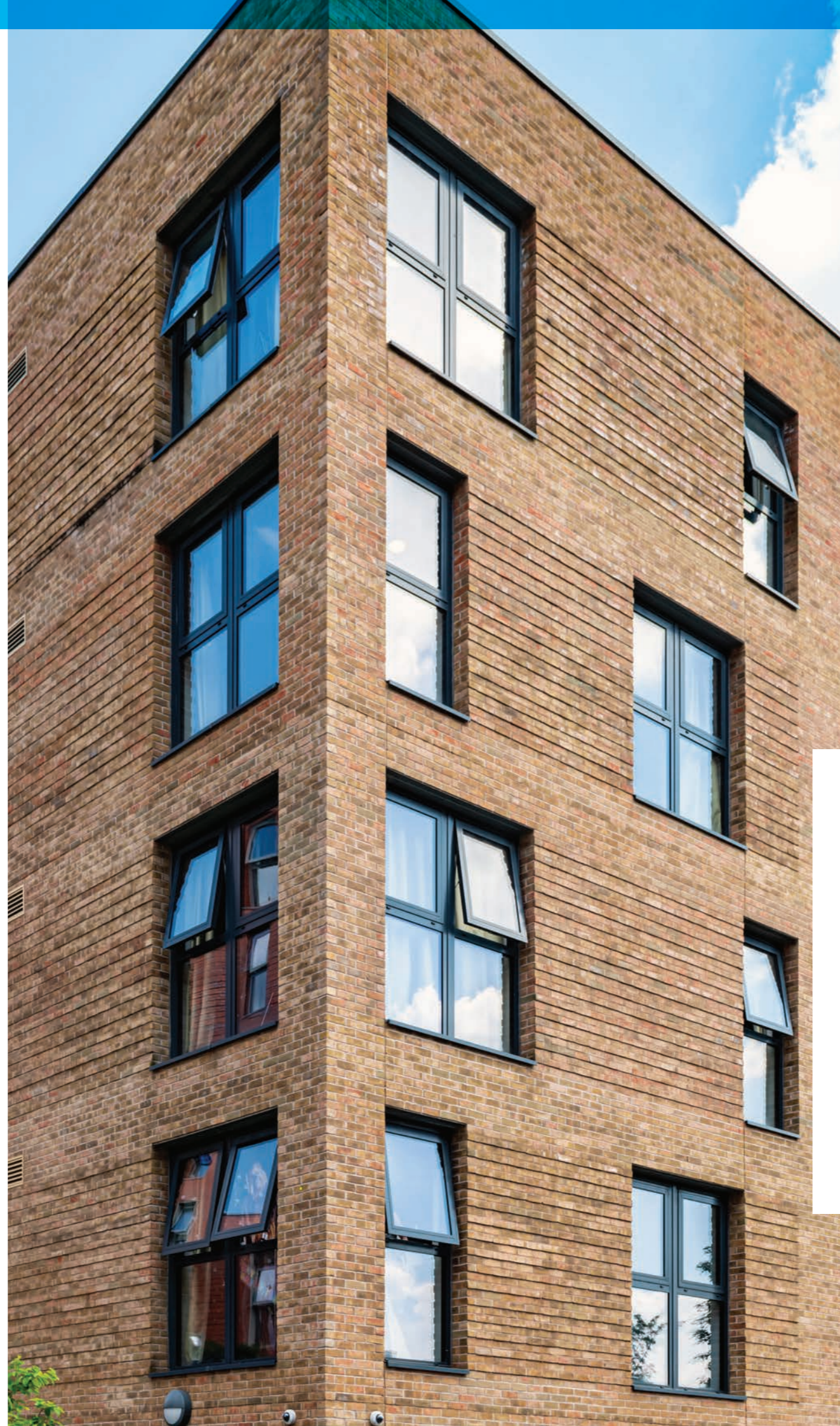
Brick - Pull-out of rail

Impact - Soft and hard body

Corrosion - Salt Fog Exposure

FIRE SAFE

The SureBrick system is tested and certified as **A1 non-combustible** meaning that the system is fire safe and there is no need for additional project specific testing.



Factor	Performance
System Weight*	55-70kg/m ²
Frost Resistance of Bricks	F2
Hygrothermal Weathering ETAG 034 & ETAG 017	No Defects
Weather-tightness EN12865	2400 Pa
Soft Body Impact Testing ISO 7892 (400 J)	No Defects
Hard Body Impact Testing ETAG 004 (10 J)	Pass [†]
Brick Pull-off ISO 7892	0.059 N/mm ^{2††}
Water Penetration (Dynamic) CWCT Section 7 (600 Pa)	Pass
Water Penetration (Hose) CWCT Section 9	Pass
Wind Resistance (Serviceability) CWCT Section 11	2400 Pa
Wind Resistance (Safety) CWCT Section 12	3600 Pa
Impact Resistance CWCT TN76	Cat B Class 3 [‡]
Corrosion (Salt Spray) BS EN ISO 9227 [§]	No Defects
Resistance of Retaining Tabs ETAG 034	1.99 kN**
Fixings Pull Through ETAG 034	5.66 kN**
Fixings Pull Through (shear) ETAG 034	2.48 kN**
Fire Classification EN 13501-1	A1

* Based on the system incorporating 22mm thick slips, including pointing.
[†] No defects were noted following the 3J tests with either brick. At 10J minor cracks were noted on some extruded bricks.
[‡] Additional 12 month accelerated salt solution testing has also been completed.
^{††} Minimum average performance recorded following weathering.
^{**} Minimum average performance recorded.
[§] Risk category low.



Forterra is a leading manufacturer of a diverse range of clay and concrete building products, used extensively within the construction sector, and employs over 1,900 people across 18 manufacturing facilities in the UK.

It is the second largest brick and aircrete block manufacturer in the country, and the only producer of the iconic London Brick. Other trusted brands from Forterra include Thermalite, Conbloc, Ecostock, Butterley, Cradley, Red Bank, Bison Precast, Jetfloor and Formpave.

forterra.co.uk

**FORTERRA ARE
MEMBERS OF:**

**modern
masonry**



**CENTRE FOR
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CLADDING
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The images shown in this brochure are representative of what can be achieved using SureBrick