

The Corium Cladding System



Corium,
a true
innovation.



Contents

The benefits of using Corium	3
Limitless possibilities	4
Colourful additions	6
The finishing touch	7
Easy to use. Simple to install	8
Corium. Quality and creativity	10
Technical information	18
Building for the future	23

What is Corium?

Corium is the unique brick cladding system from Wienerberger Ltd that combines the natural beauty of genuine brick with cost-effective fast-track installation. It offers a facing brick finish for projects where a cladding system is required rather than traditional masonry.

The revolutionary Corium system comprises genuine brick tiles, specially designed to fix mechanically to an HPS200 galvanised steel backing section. These profiled sections are mounted in rows onto the backing structure and the brick tiles are clipped into place.

This mechanical 'clipping' feature is unique to Corium and ensures a high strength façade whilst enabling some adjustment of tile position during installation.

An innovative and versatile solution, Corium brings exciting new colour and texture combinations to the construction industry.

Patented in the UK and Worldwide; and fully industry tested and approved, you can be assured of a strong, quality finish to your building project that will last many years.



Corium has UK and worldwide technical and patent approvals. GB Patent number 2331770



The Benefits of Using Corium

Strong and Durable

Corium is strong, with an HPS200 galvanised steel or Grade 304 stainless steel backing section (stainless steel below the DPC), and using frost resistant brick tiles, the system has an anticipated design life of 60 years in most applications.

Fast and Simple

Building with Corium can be up to three times faster than with traditional brickwork, and is quick and easy to install.

Versatile and Aesthetic

Available in bespoke colours and textures, Corium is designed to blend with or complement any new build or refurbishment project.

With a variety of sizes and a range of specials, Corium enables bespoke bonding patterns without compromising performance or build time.

Corium may be mounted at any angle to achieve more dynamic finishes, or even overhead to create soffits and ceilings. Mosaic and decorative patterns are easily achieved, adding an extra dimension to any project.

Cost Effective and Assured

Corium is suitable for use with a wide range of sub-structures, including concrete, timber-frame, structural steel, lightweight steel frames and masonry. Corium-clad buildings may also benefit from simpler, lower cost foundations.

BRE certified and industry tested, Corium is provided as a supply and fix solution through Approved Installers who quality check each installation before and after pointing to ensure customer satisfaction.

Key Features

- Unique, innovative system
- Real brick aesthetics
- Saves time and money
- Flexible, functional and imaginative
- Limitless colour range
- Extensive texture range
- Industry tested and BRE certified



Certificate 082/01

Designing with **Corium** can help to significantly reduce construction time

Limitless possibilities.



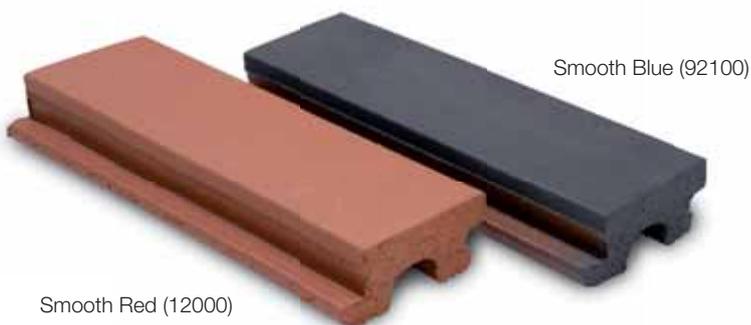
Note: 1. Please use the reference numbers for initial sample selection
 2. To ensure excellent size consistency and a secure fit onto the rails, Corium tiles are produced with a red body. Extremely durable colours or glazes are fixed into the surface during firing at over 1000°C



The unique Corium manufacturing process offers versatility and flexibility in construction design.

With bespoke colour and texture matching capabilities, from traditional brick finishes to precision look glazed options, Corium satisfies any aesthetic requirement. Creating 'high-tech' modern facades on new, prestigious buildings and blending with existing brickwork on renovation projects.

Corium also allows you to produce innovative, complex and precise bond patterns allowing stunning brickwork elevations to be brought to life quickly and easily.



*Factory hand blended options in any colour variation are available to order, depending on minimum quantity required

Colourful
additions.



Glazed Tiles



Gold Glazed



Black Glazed



White Glazed



Terracotta Glazed



Copper Glazed



Dark Green Glazed



Green Glazed



Lime Glazed



Gunmetal Glazed



Dark Blue Glazed



Blue Glazed



Silver Glazed



Yellow Glazed

Glazed Tile Options

We can offer a huge range of both matt and gloss glazed finishes. Please indicate the RAL Number when considering sample requests.

Large Format

The recent development and introduction of large format Corium tiles provides an attractive alternative to a brick façade.

Sizes up to 327 x 215mm can be manufactured for mortared applications and are available to order.

The finishing touch.



CM.1A Site bonded - External return brick-tile (LH or RH)



CM.2A Stop end brick-tile (LH or RH)



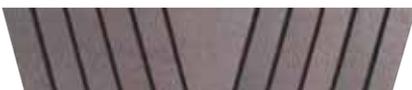
CM.3 Soldier brick-tile



CM.4 Air brick-tile

Special shapes

We offer an extensive range of special shapes to add the perfect finish to your walls, and are pleased to develop purpose-made return units if required.



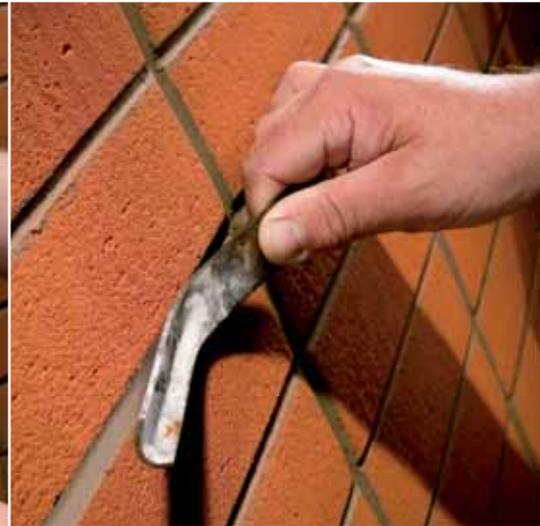
Blue Arch Set (also available in Red)

Arches

Flat arches are well within the scope of Corium. Our support team are happy to discuss your specific requirements.

Corium has UK and worldwide technical and patent approvals

Easy to use.
Simple
to install.



Use and Installation

Corium is installed by a nationwide network of Approved Installers who can fix Corium from mobile platforms, scissor lifts, mast climbers or traditional scaffolding.

Corium is also available as part of pre-fabricated solutions where manufacture under quality controlled, factory, conditions allows construction without delays due to adverse weather, reduced materials wastage and dramatically reduced site construction time. These panels are either lightweight steel frame or unitised aluminium systems and are available for larger scale projects where overall project cost savings can be realised.

Suitability

Corium is suitable for use with a wide variety of sub-structures including concrete, timber-frame, structural steel, lightweight steel frames and masonry. See pages 18-22 for technical information.

Installation

On a suitable structure, with vertical support at 600mm max centres, the Corium installer fixes the support rails, clips in the tiles and finishes the joints with pumped mortar.

Strength

Rows of profiled steel sections are fixed to the backing structure. Sections are designed to interlock vertically.

Speed

Corium brick-tiles are simply clipped into place. The clipping process ensures that consistent horizontal joints are achieved, whilst vertical joint spacing can be adjusted to suit design requirements.

Simplicity

Once all brick-tiles are installed and the quality approved, mortar is applied. The mortar is typically 1:1:6, cement:lime:sand mix applied using a pump system. Pre-bagged Corifix and Easipoint mortar is preferred as it has been developed specifically for the system and suits the characteristics of the tiles. The preferred joint profile is bucket-handle.

Design and Technical Support

We offer a comprehensive CAD backed design advisory service to help ensure your vision becomes reality.

The Corium team offer detailed technical, product and design advice on the use of the system and it's applications, and are always pleased to observe and comment on the Project Design Team's proposals.

For further information on our approved list of mortar suppliers please contact us.

Corifix

The Corifix range of advanced high specification mortars is especially formulated by TECROC Products Ltd for Corium



CFX01 Natural



CFX02 Sandstone



CFX03 Buff



CFX04 Light Brown



CFX05 Mid Brown



CFX06 Dark Brown



CFX07 Red



CFX08 Dark Red



CFX09 Grey



CFX10 Black

The installation process eliminates the need for bricklayers on site

Corium.
Quality and
creativity.



BUPA Hospital, Salisbury

Client: PKL Healthcare

Designer: PKL Healthcare

Contractor: PKL Healthcare

Corium was specified for its light weight and colour matching ability. A fast track project, to add additional wards, the modules were factory built and fully completed off site. Once assembled on site, they were clad in Corium to blend with the existing architecture and to satisfy planning requirements.





Finborough Road, London

Client: St James Group Ltd for Notting Hill Housing Trust

Designer: Charter Consultant Architects

Contractor: Gilmac Building Services

Corium was specified by the engineer for this timber framed project, for its light weight and ability to move with the shrinking timber frame. Movement Joints are provided at every floor.



Corium.
Quality and
creativity.



Irwell Quays, Manchester

Client: Country and
Metropolitan Homes PLC

Designer: Browne Smith Baker

Contractor: Laing O'Rourke Northern Ltd

The tallest Corium installation to date in the UK at 21 storeys high, required two brick finish elevations to satisfy planning requirements. Chosen for ease of procurement, installation and project management, the Corium system was installed and combined with other materials by one approved installer to create these multi-material façades.



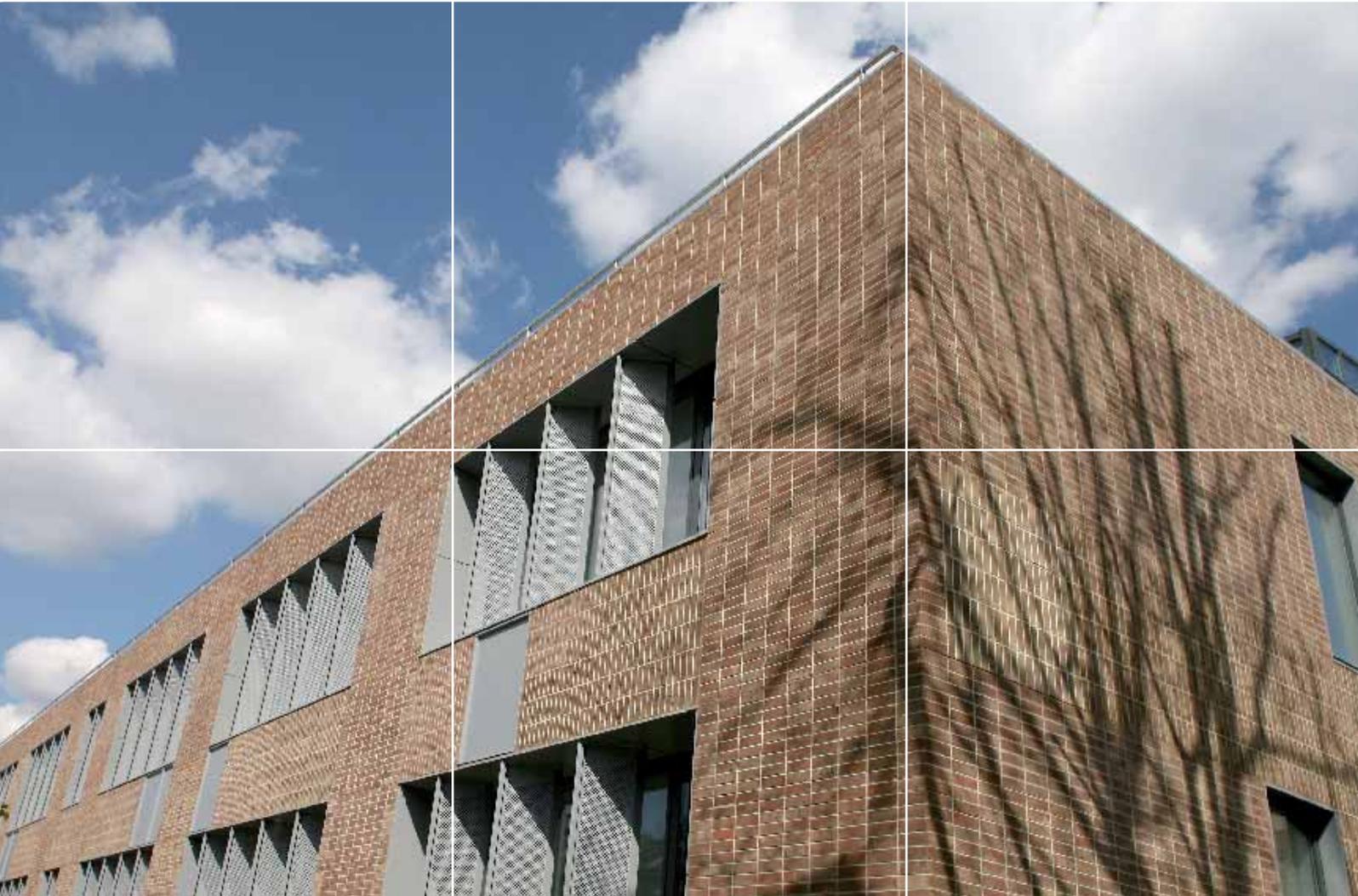
Paddington Academy, London

Client: United Learning Trust

Designer: Feilden Clegg
Bradley Architects

Contractor: Gleeson Building

This unique and innovative double skin façade required a brick finish for planning approval and Corium's light weight and speed of installation was ideal. The façade stands 600mm from the inner skin, creating a service zone within.



Corium.
Quality and
creativity.



Salisbury District Hospital, Wiltshire

Client: North Dorset NHS
Primary Care Trust

Designer: Chapman Taylor

Contractor: M J Gleeson

Corium's first PFI project. Initially specified to cover a new rooftop extension with colours specially developed to blend with the existing building, the client extended the project to include the adjacent multi-storey extension.



St Mary Magdelene Academy, London

Client: St Mary Magdelene Academy

Designer: Feilden Clegg Bradley Architects

Contractor: Mace Plus

Having used Corium with great effect at Paddington Academy, the architect specified Corium again for this impressive, stack bonded project. On this project Corium was used both inside and out.



Corium.
Quality and
creativity.



Granville New Homes, London

Client: Brent Council

Designer: Levitt Bernstein Architects

Contractor: D J Higgins

The architect required two elevational treatments for this development of award winning homes and found Corium's colour versatility to be ideal for this project. Bespoke light blend and dark blend colours ranging from cream through grey to blue, created a stunning finish to these residential homes.



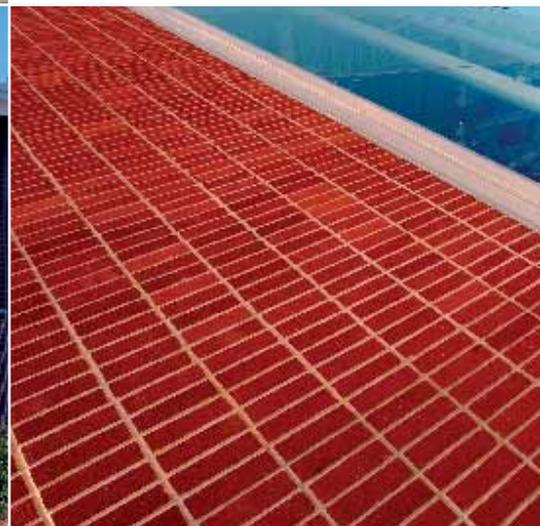
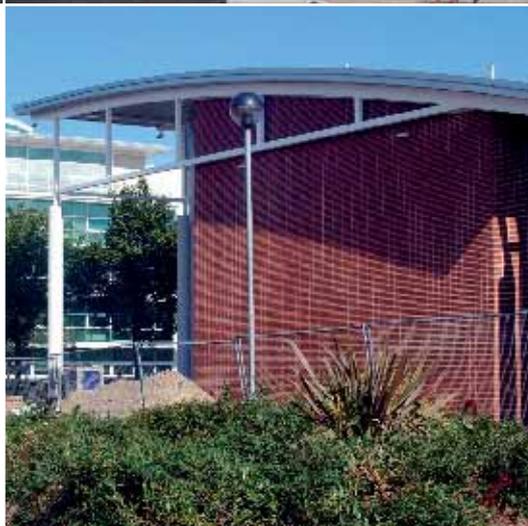
Teeside University Sports Centre

Client: University of Teesside

Designer: Dewjoc

Contractor: Allenbuild Northern Ltd

Corium's versatility of installation was perfect for this project, where scaffolding could not be used. The precise stack bond pattern of the façades was achieved quickly and easily from scissor lifts.





Woodfield Infant & Junior School, Wigan

Client: Wigan Metropolitan Borough Council

Designer: NPS North West Ltd

Contractor: F. Parkinson Ltd

Having used Corium previously, the designer chose it again for this project, the first in the UK to use three Corium colours within the same façade.



Southgate Development, Glasgow

Client: Westpoint Homes / Beechwood

Designer: Rosswood Architects

Contractor: Westpoint Homes

Corium was specified for ease of application alongside other materials to create these impressive multi-material façades.

Technical Information

Supply and Fix

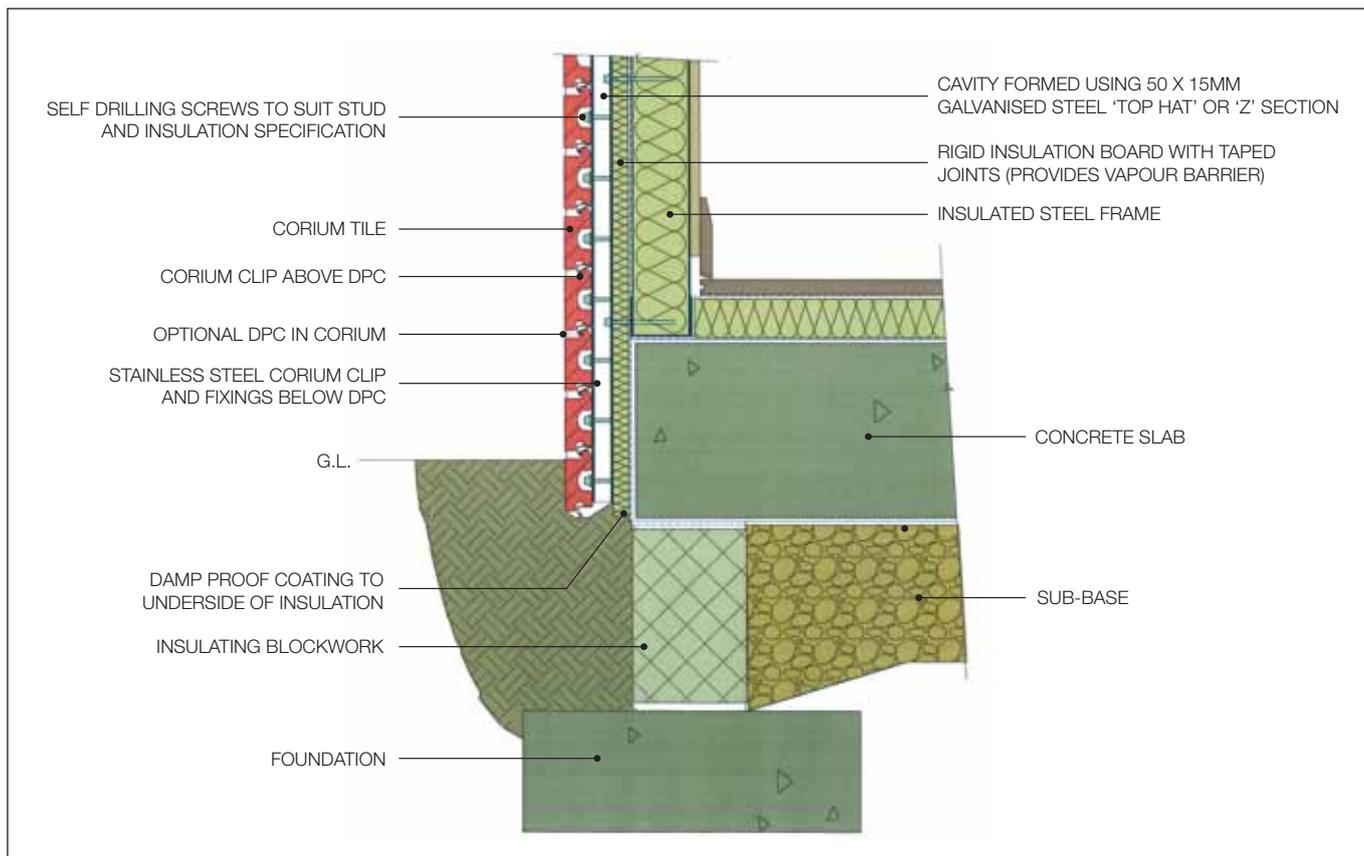
Corium Approved Installers provide nationwide coverage. On a suitable structure which has support at a maximum of 600mm centres, the Corium installer will fix the support rails, clip in the tiles and finish the joints with a pumped mortar. Prices are based on the initial budget estimate, which would be confirmed by our installer with the main contractor before the start on site. Although the budget estimate is often co-ordinated by Corium, the final contract negotiations would take place between the main contractor and the installer to simplify the procurement process.

PROPERTY	RESULT
Nominal weight of system including mortar	68 kg/m ²
Resistance to wind loading and wind driven rain (BS 6375)	Exposure Class 2000
Fire performance (Building Regulations performance classification)	Class 0 surfaces
Impact resistance (UEA ^{tc} MOAT 43: hard and soft bodies)	Class E3 (performance) Class E2 (safety)
Water vapour transmission resistance	8.5 MNs/g
Frost resistance of brick clay tiles (EN:771)	F,2
Racking deflection	System retains high integrity with structure deflections of h/300
Nominal tile face dimension	215 x 65mm
Tile size tolerance	Mean of 10 between 213 and 217mm

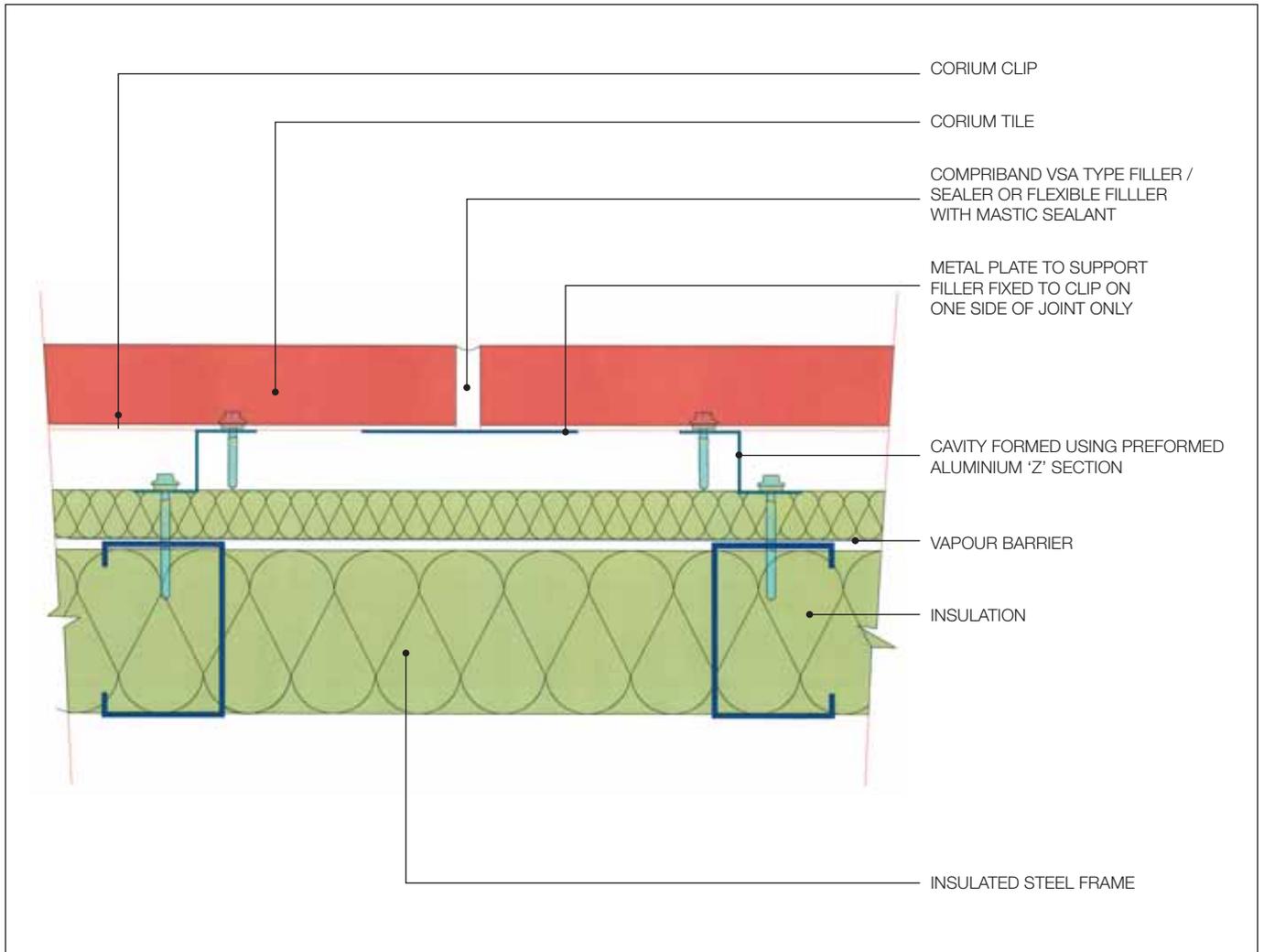
Corium is suitable for use with a wide variety of sub-structures including concrete, timber-frame, structural steel, lightweight steel frames and masonry. Extensive research has been undertaken to establish a range of stainless steel fixings suitable for different sub-structures. The exact type of fixing will be specified by the Corium Approved Installer on receipt of individual project information. Contact details for Approved Installers are available on our website or from our support team.

NB: Corium tiles and rails are manufactured to the highest standards as detailed in the BRE Certificate and the Approved Installers Information Pack - held by all Approved Installers. Design and installation matters are handled by the project design team with the assistance of the main contractor and installers. Therefore, the following typical Corium drawings are for information only and should not be used directly for any specific project.

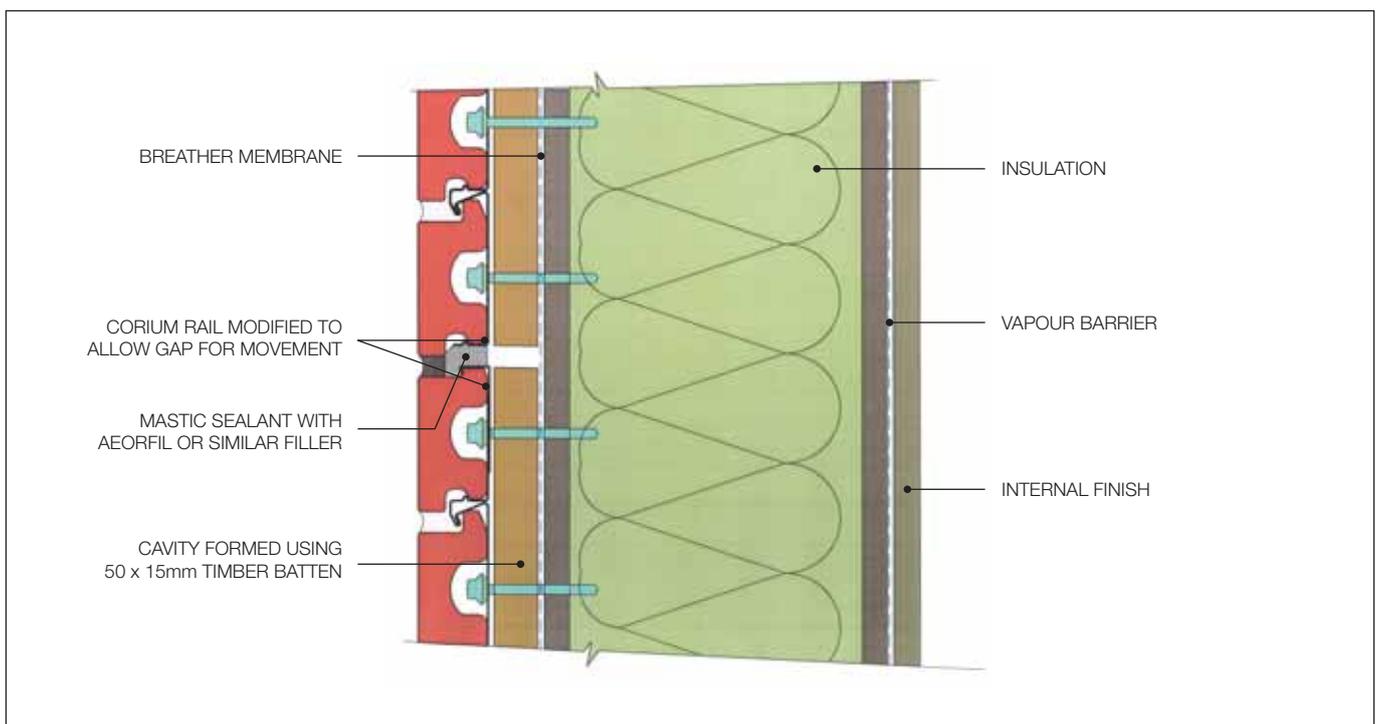
Steel Frame Foundation Section



Steel Frame Vertical Movement Joint Plan

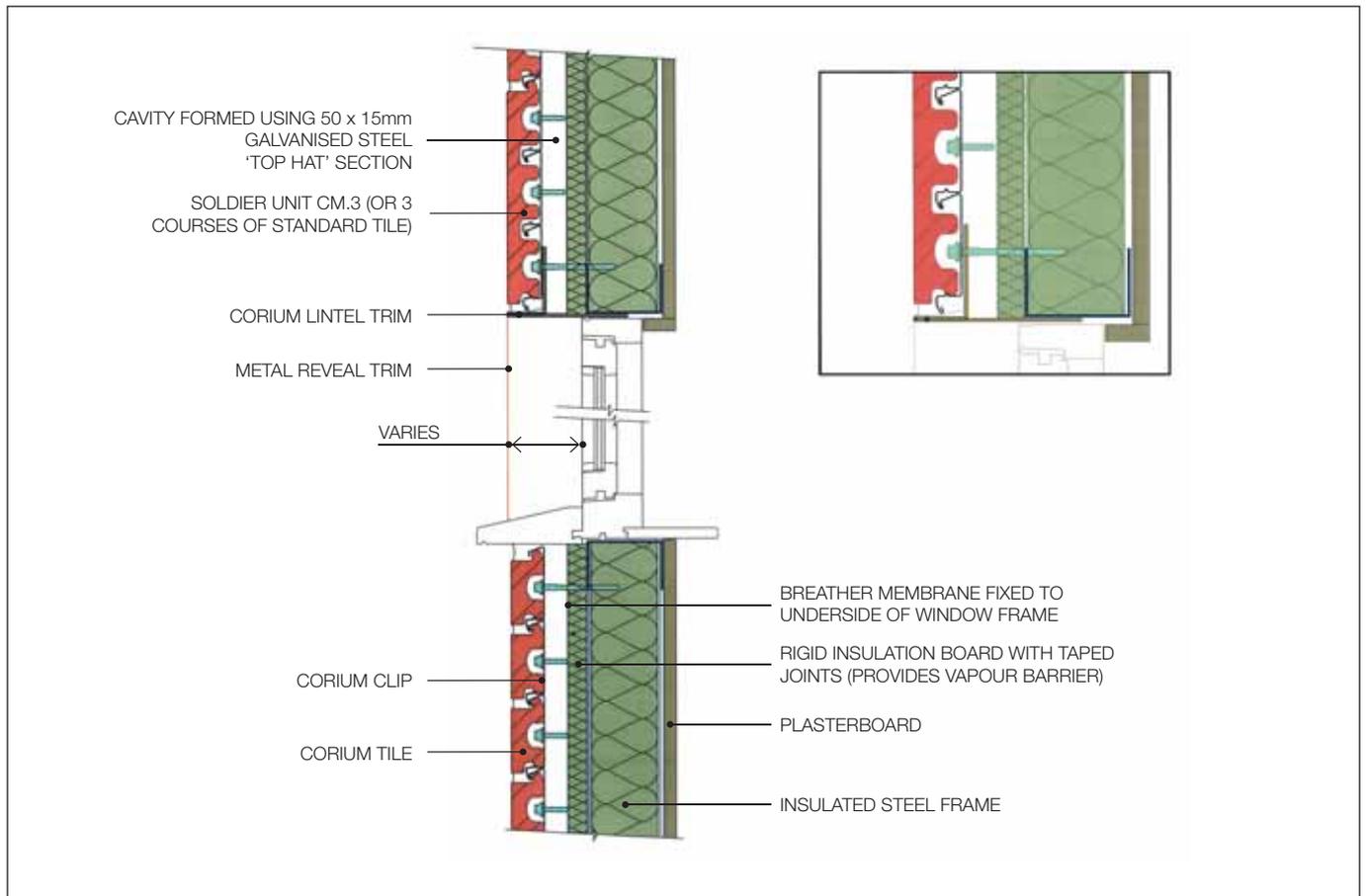


Timber Frame Horizontal Movement Joint Section

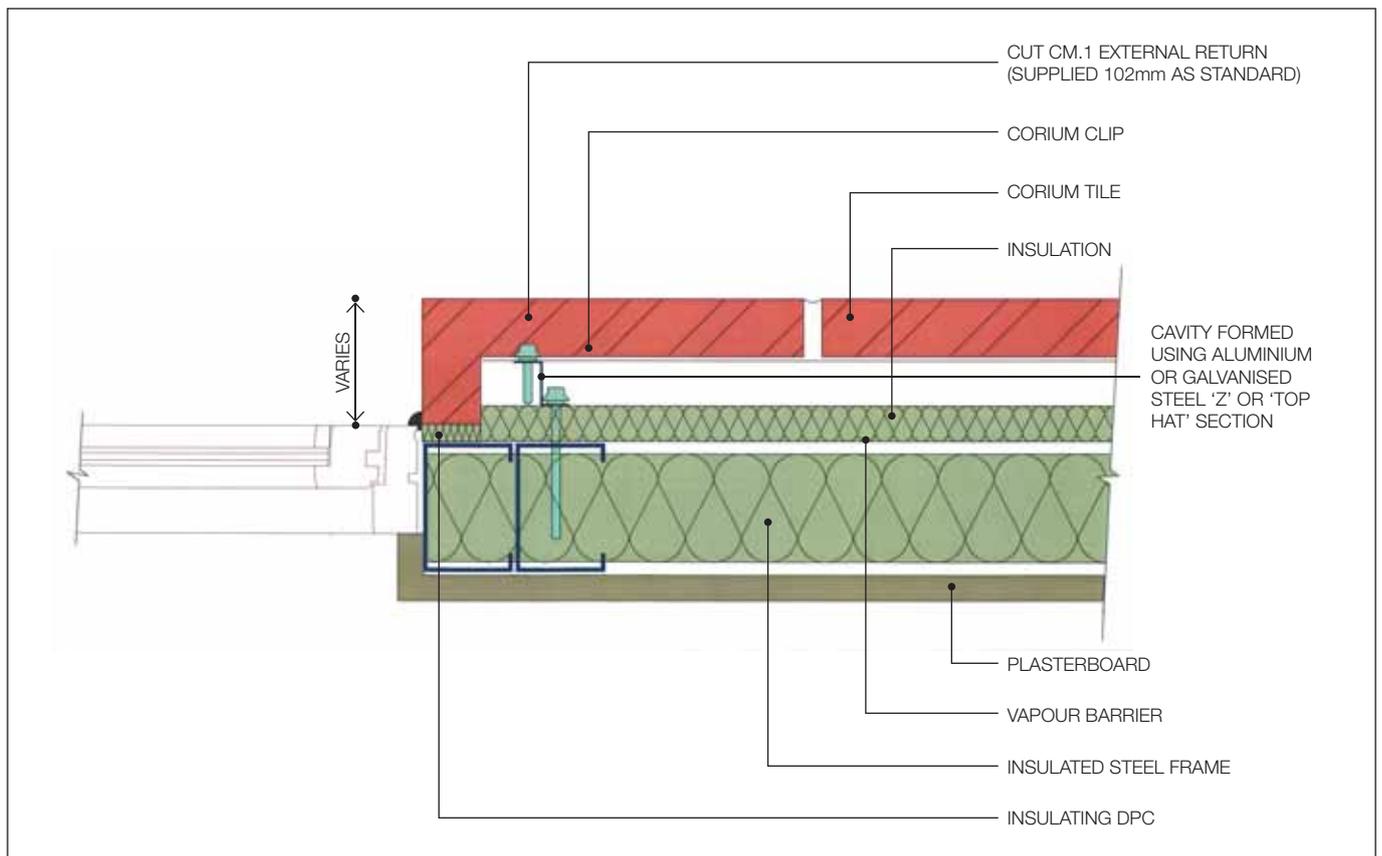


Technical Information

Steel Frame Window Section - Trimmed Reveal

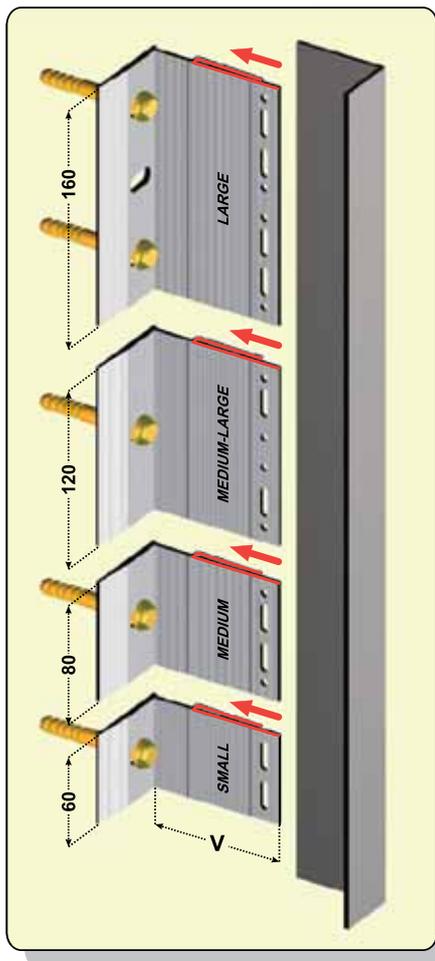
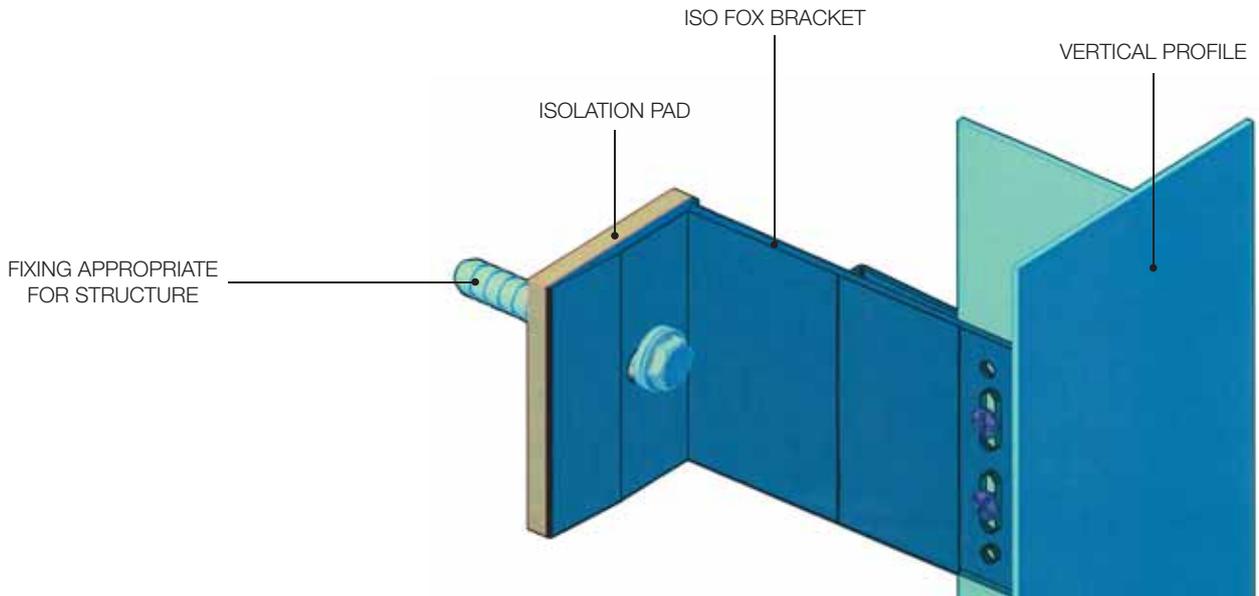


Steel Frame Window Plan - Tiled Reveal



Technical Information

Eurofox Helping Hand System (Aluminium)

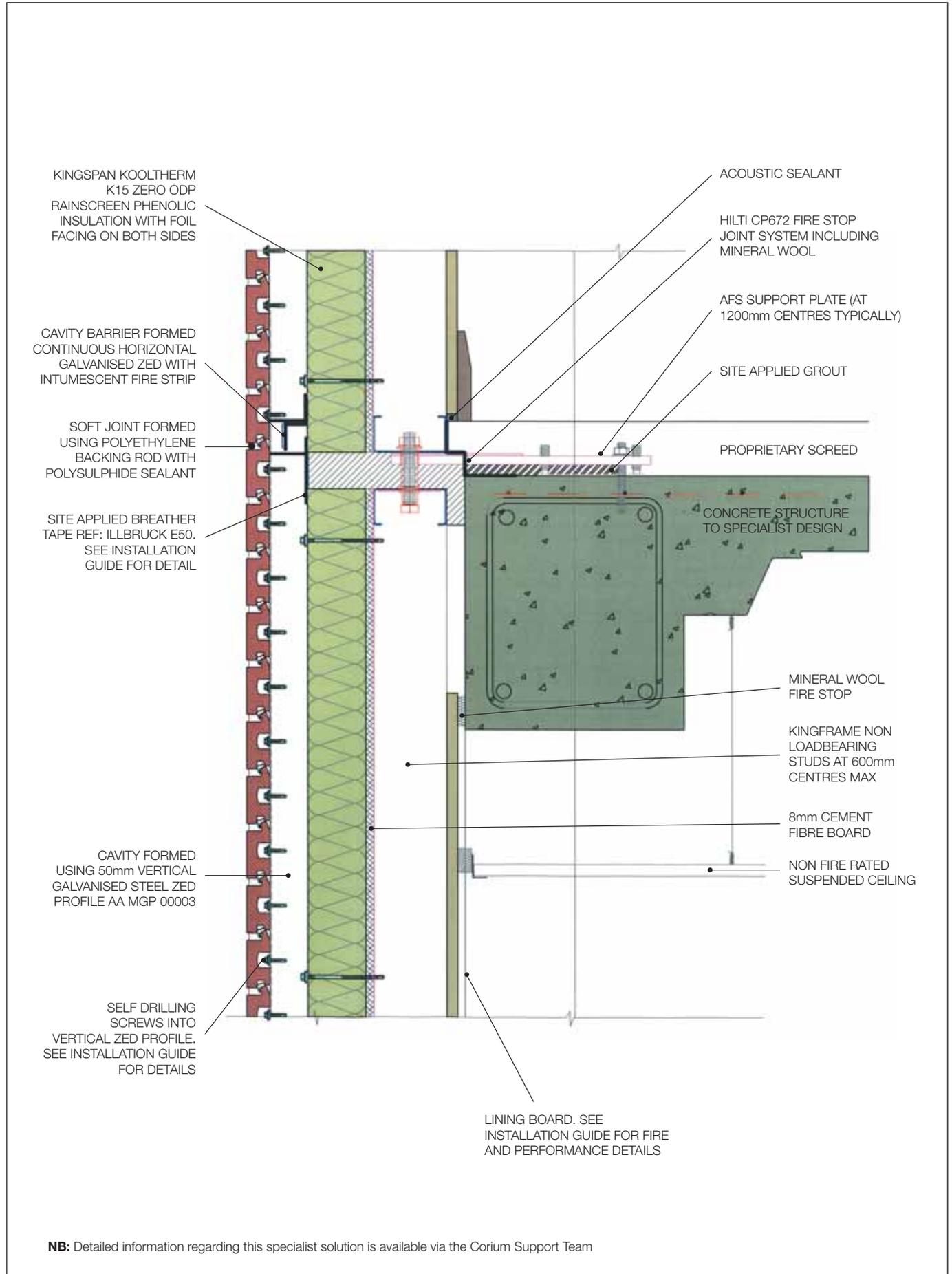


V = BRACKET SIZE FROM 40MM - 210MM

NB: Corium rails are fixed to the vertical profile.

Technical Information

Kingspan Offsite Façade System - Typical Detail



Corium. Building for the future.

Corium is a very exciting and proven product which is capable of further enhancement. The tile production method is flexible allowing a wide variety of sizes, tile texturing, bespoke colouring and bonding patterns. Complimentary cladding materials can be incorporated and are presently being developed.

Panels are able to be pre-fabricated by specialists off site, ready for speedy assembly on site, saving time and money.

Innovative ideas are always welcomed by the Corium team. Please contact us if you have a specific project concept in mind.

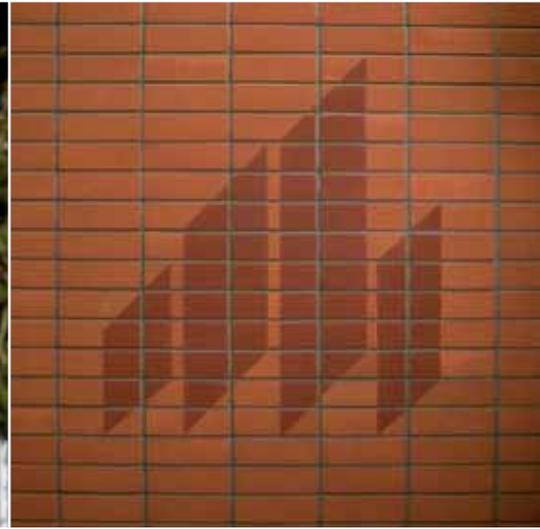
Parry Bowen Ltd - Hurst Street,
Liverpool, unitised aluminium
framed panels manufactured
to ± 1 mm tolerance



Kingspan - Mid Kent College, pre-fabricated light steel framed panels

Third Party Approved

BRE Certificate 082/01 covers Corium's performance, airtightness and weather resistance along with thermal, acoustic, fire and impact resistance characteristics. Please contact us for your copy.



Wienerberger Ltd

Wienerberger House
Brooks Drive
Cheadle Royal Business Park
Cheadle, Cheshire
SK8 3SA

0161 491 8200

Customer Service Centre
T 0845 303 2524
F 0844 555 5770

office@wienerberger.co.uk
www.brick.co.uk

Uniclass L513:P33	EPIC E239:X32
Cl/SfB (41)	Xg2