

The Corium® Cladding System



Corium is the brick cladding system brand of Wienerberger Ltd.

Corium,
a true
innovation.



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What is Corium?

Corium is a unique brick cladding system 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.

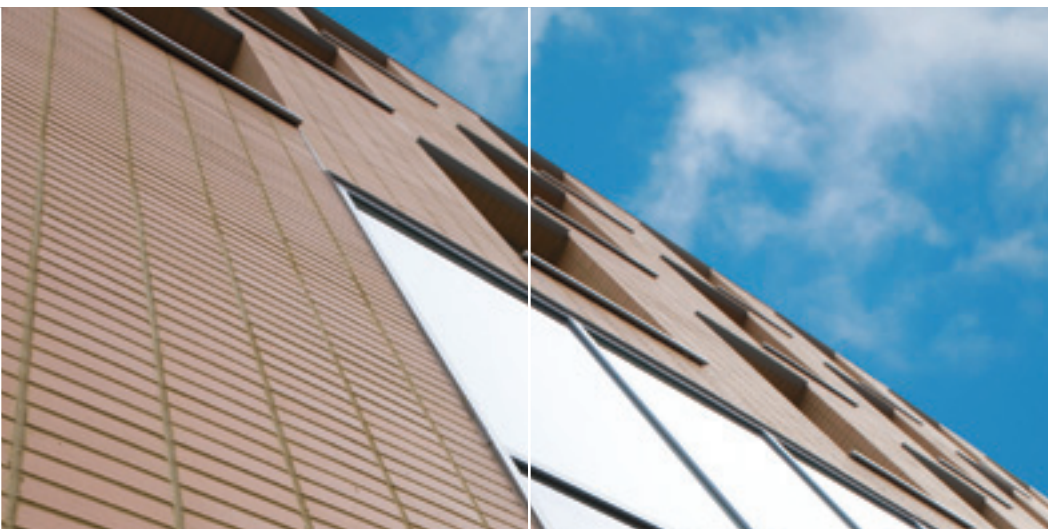
The revolutionary Corium system comprises genuine brick tiles, specially designed to fix mechanically to an HPS200 galvanised steel backing section. These profiled sections are mounted in rows onto the backing structure and the brick tiles are clipped into place.

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

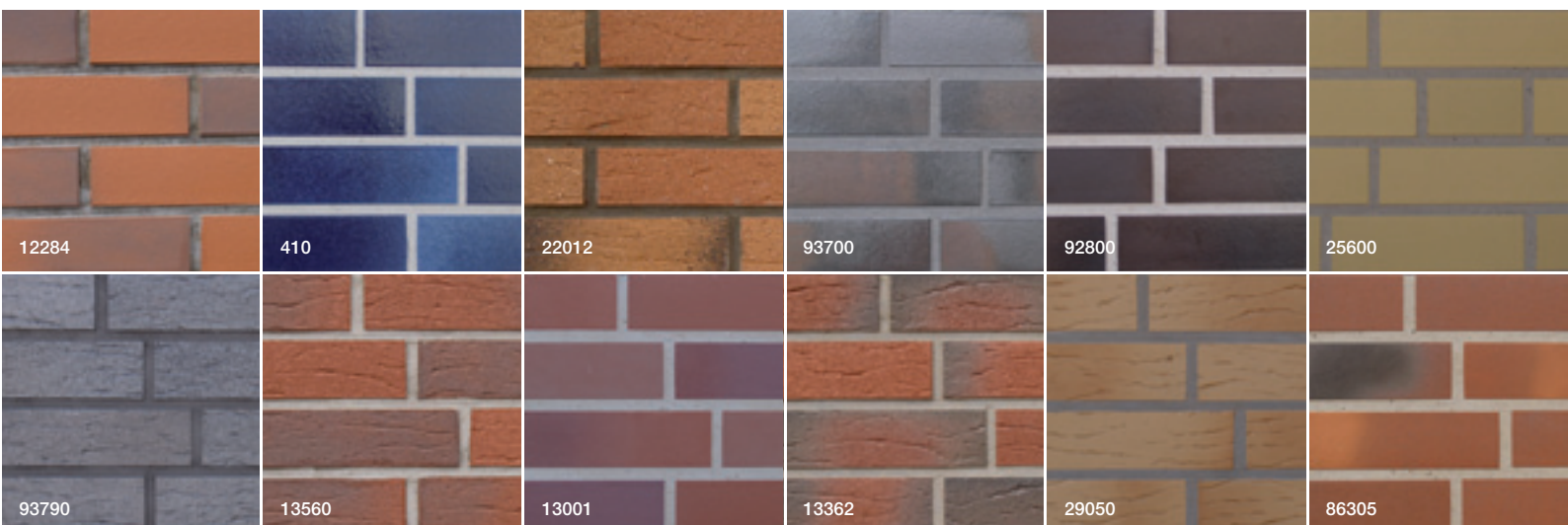
BRE Certificate 082/01 covers Corium's performance, airtightness and weather resistance along with thermal, acoustic, fire and impact resistance characteristics. Please contact us for your copy.

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

Limitless
possibilities.



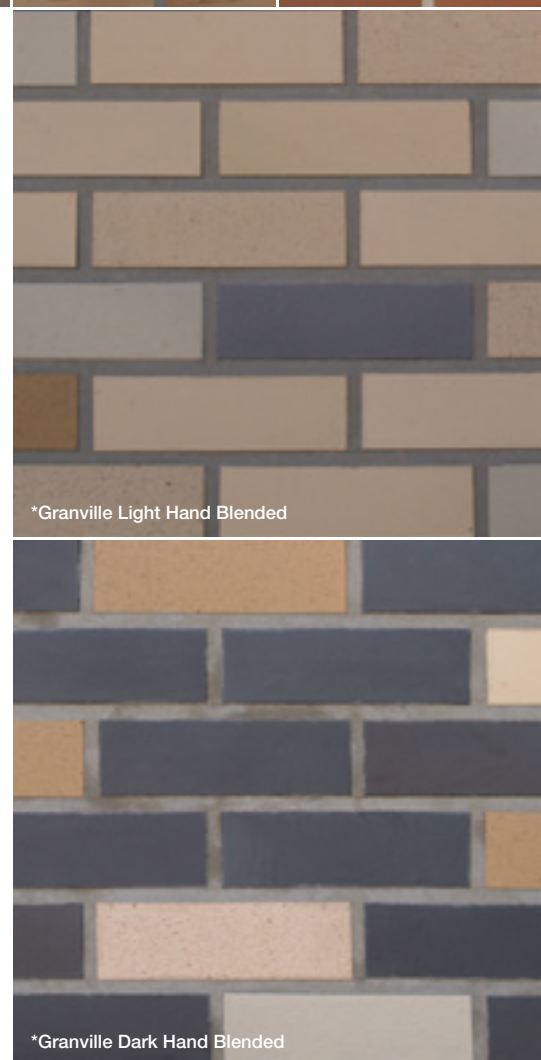
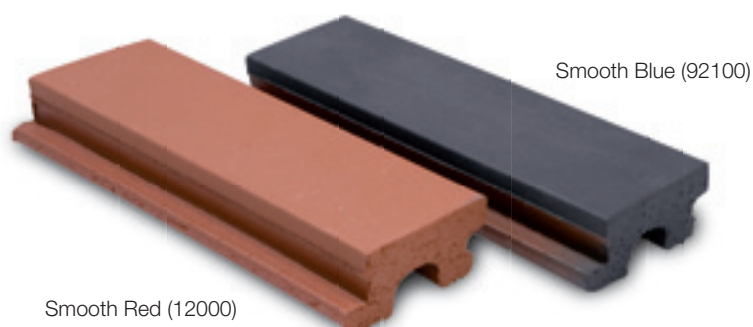
- Note:**
1. Please use the reference numbers for initial sample selection
 2. To ensure excellent size consistency and a secure fit onto the rails, Corium tiles are produced with a red body. Extremely durable colours or glazes are fixed into the surface during firing at over 1000°C
 3. Due to the limitations of the printing process you are advised to obtain product samples prior to purchase



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

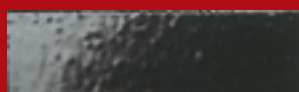
Colourful
additions.



Glazed Tiles



Gold Glazed



Black Glazed



White Glazed



Terracotta Glazed



Copper Glazed



Dark Green Glazed



Green Glazed



Lime Glazed



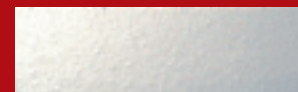
Gunmetal Glazed



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.1 One piece -
External return brick-tile (LH or RH)



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



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



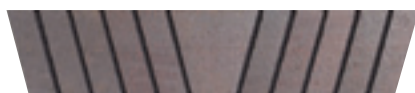
CM.3 Soldier brick-tile



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.

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 19-23 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. Mortar is typically 1:1:6, cement:lime:sand mix applied using a pump system. Pre-bagged Easipoint Historic KL 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

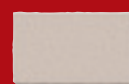
We offer a comprehensive CAD backed design advisory service to help ensure your vision becomes reality.

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.

The Easipoint Historic KL Range

The Easipoint range of advanced high specification mortars is especially formulated for Corium.



EA255 Light Grey



EA250 Sandstone



EA262 Bathstone



EA264 Light Brown



EA265 Mid Brown



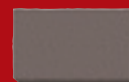
EA254 Dark Brown



EA263 Brick Red



EA266 Dark Red



EA256 Mid Grey



EA257 Dark Grey

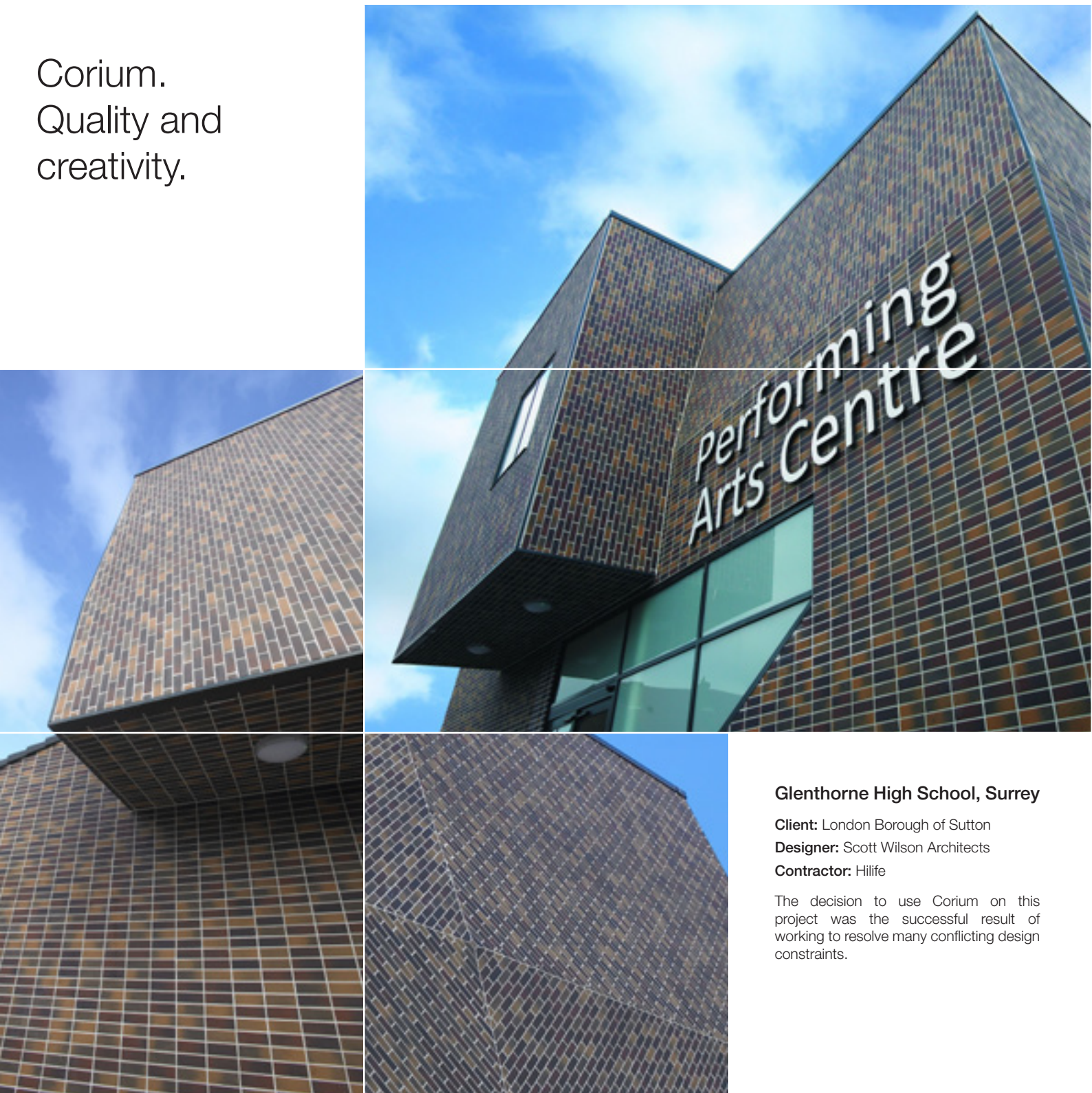


CORIUM

The installation process eliminates the need for bricklayers on site



Corium.
Quality and
creativity.



Glenythorne High School, Surrey

Client: London Borough of Sutton

Designer: Scott Wilson Architects

Contractor: Hillife

The decision to use Corium on this project was the successful result of working to resolve many conflicting design constraints.



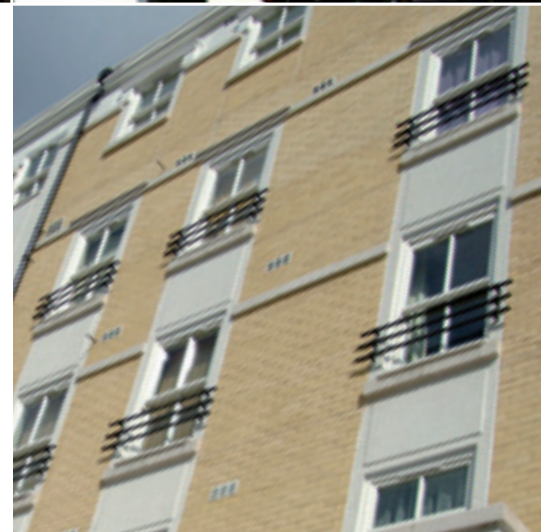
Finborough Road, London

Client: St James Group Ltd for
Notting Hill Housing Trust

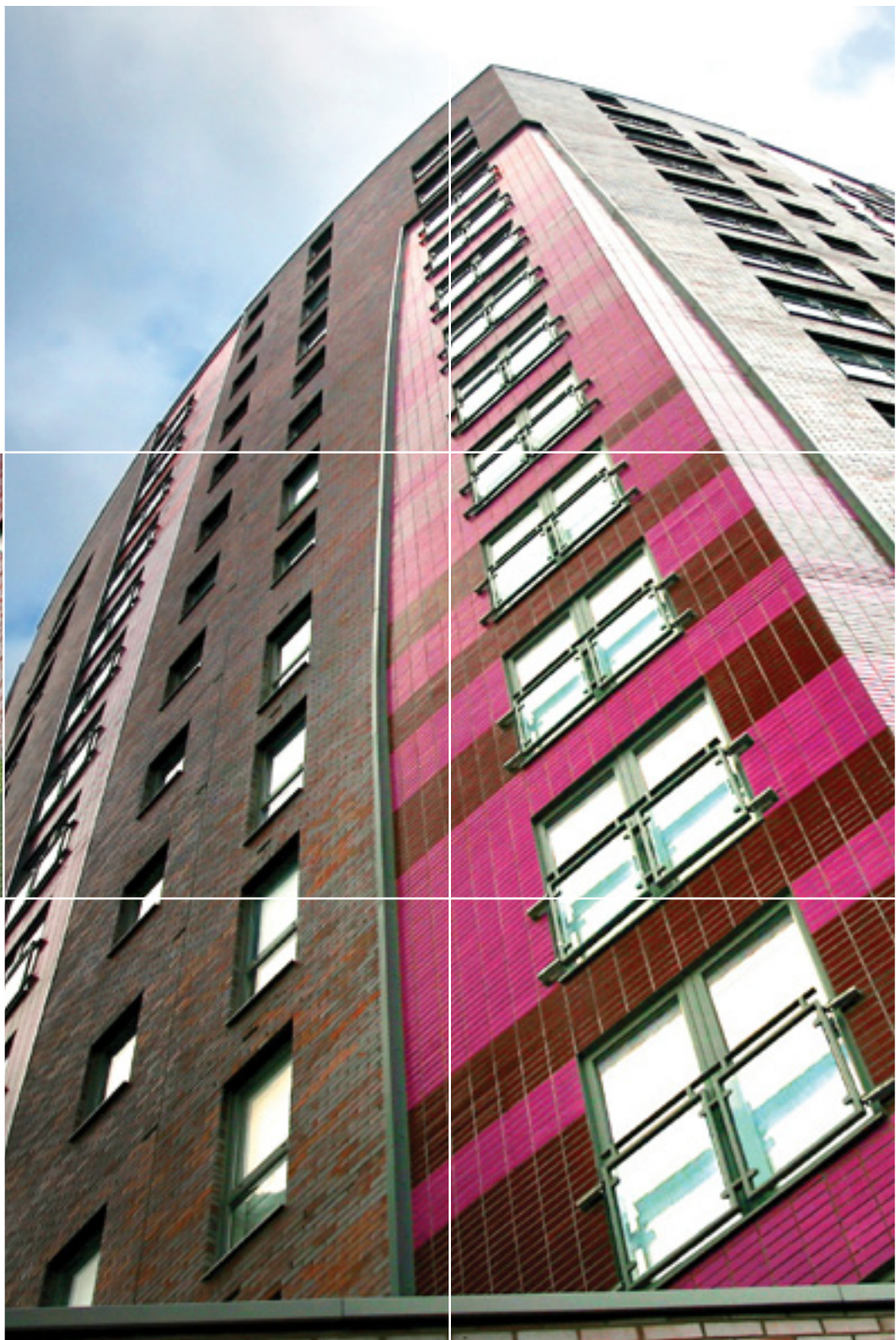
Designer: Charter Consultant Architects

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.



Echo Central, Leeds

Client: Rushbond Group/Barratt and David Wilson Homes Yorkshire West

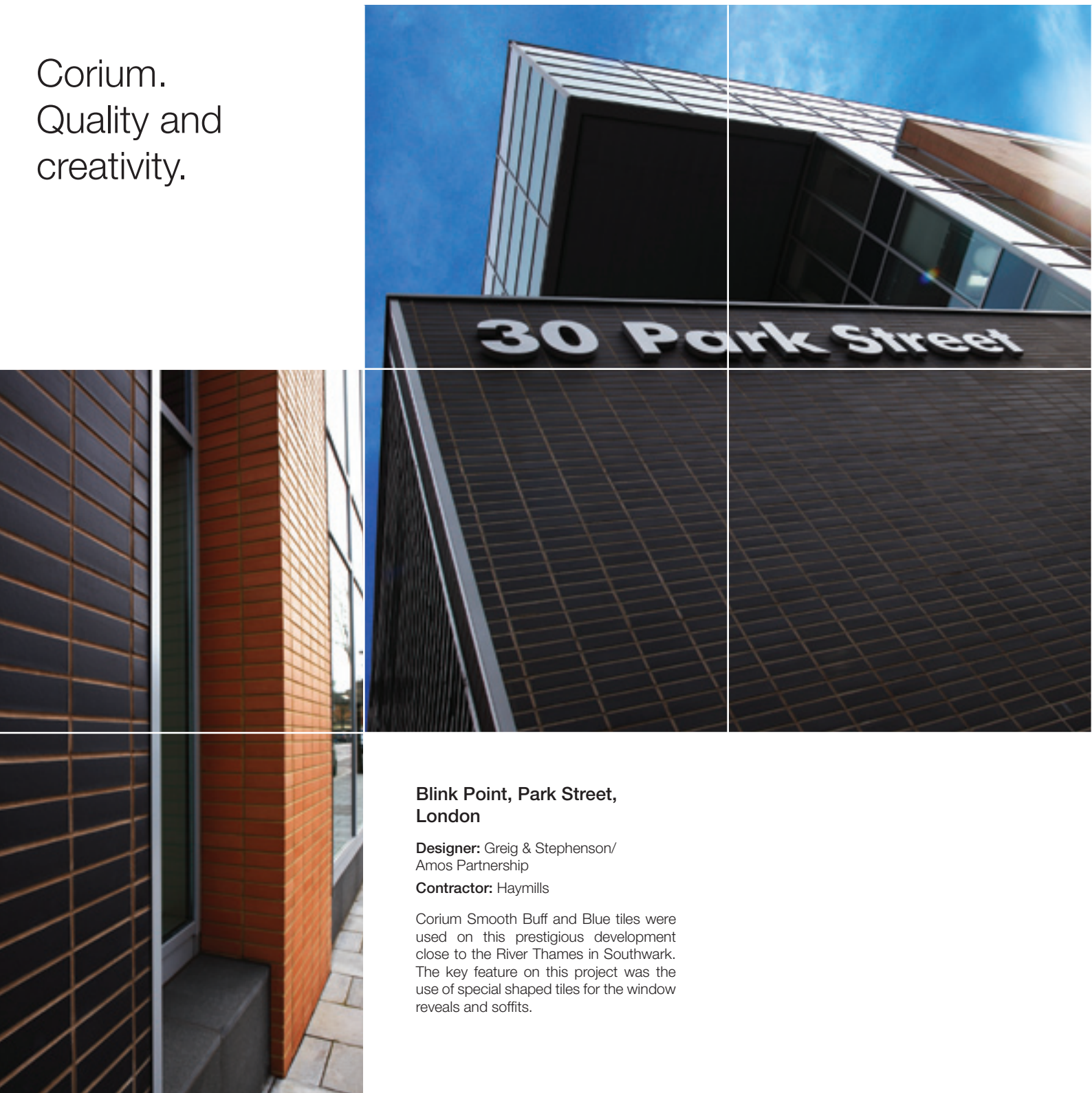
Designer: DLA Architecture

Contractor: GB Building Solutions

The façades of these buildings were designed to create a high impact in Leeds city centre. The architect required 4 different RAL colours on each of these 2 high rise developments. The corium tiles were glazed to match the RAL colours selected.



Corium.
Quality and
creativity.



**Blink Point, Park Street,
London**

Designer: Greig & Stephenson/
Amos Partnership

Contractor: Haymills

Corium Smooth Buff and Blue tiles were used on this prestigious development close to the River Thames in Southwark. The key feature on this project was the use of special shaped tiles for the window reveals and soffits.



Burdett Road, London

Client: London Green Developments

Designer: Carey Jones

Contractor: London Green Developments

Corium's ability to match existing brickwork combined with its lightweight and speed of installation was ideal for this project in E14.

Corium.
Quality and
creativity.



Great Western Quarter, Brentford

Client: Barratt Homes

Designer: Assael Architecture

Contractor: Barratt Homes

Corium's ability to simulate stone masonry using large format tiles, combined with Smooth Blue standard format tiles has created these clean and impressive elevations. A thin and high performance solution was required for this project.

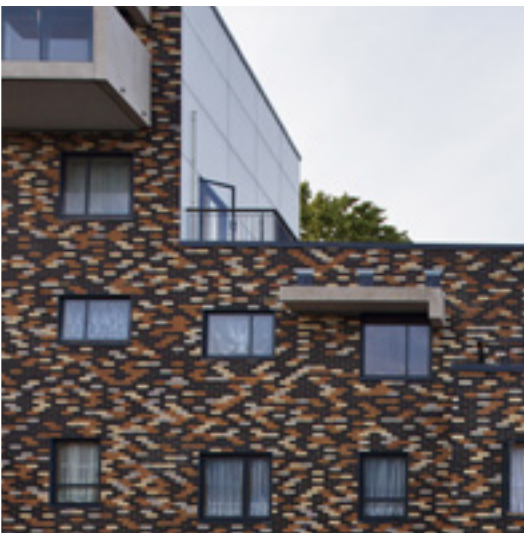
St Mary Magdelene Academy, London

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.



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.

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.



Off site
manufacturing.



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



Parry Bowen Ltd - Hurst Street, Liverpool,
unitised aluminium framed panels
manufactured to $\pm 1\text{mm}$ tolerance

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.

Technical Information

Supply and Fix

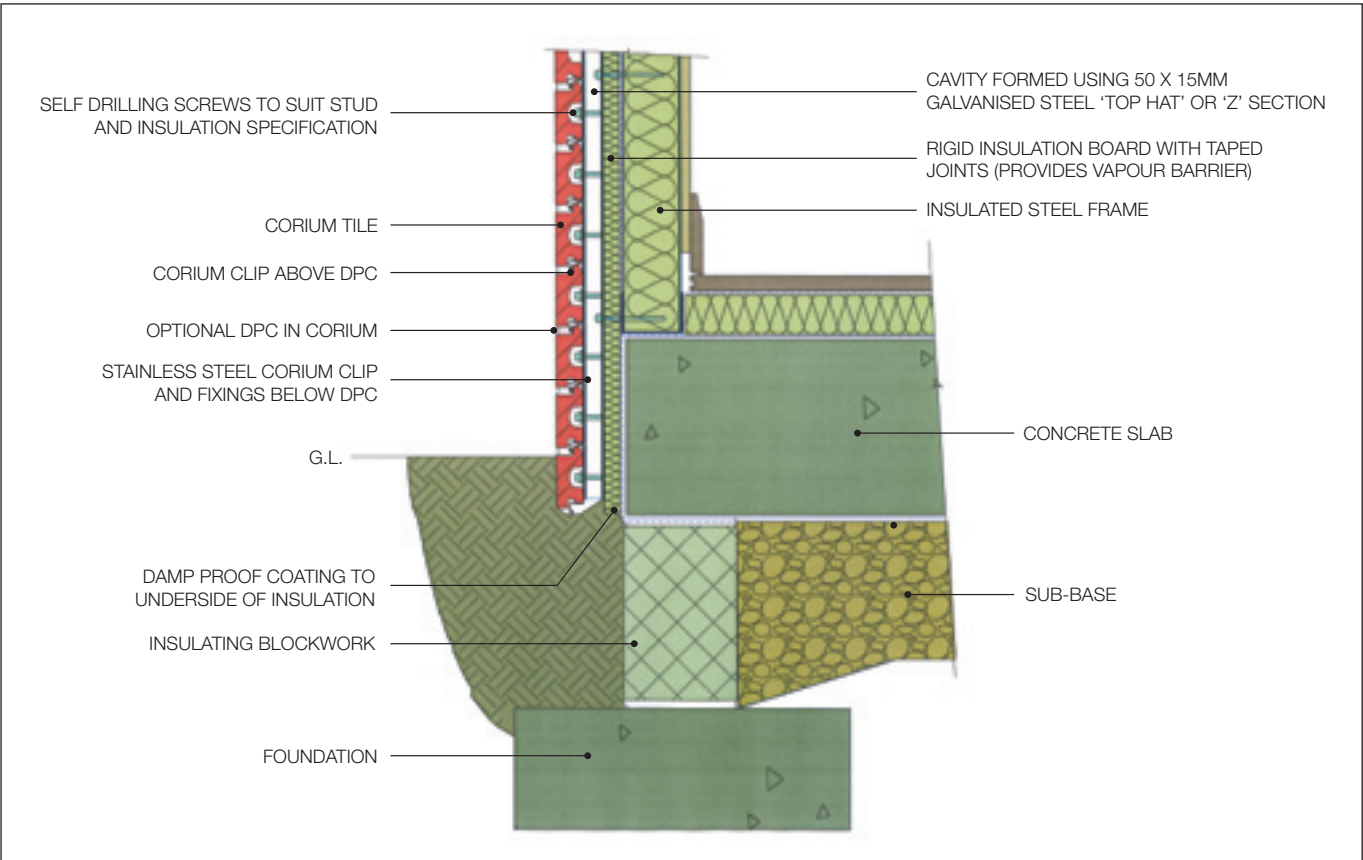
Corium Approved Installers provide nationwide coverage. On a suitable structure which has support at a maximum of 600mm centres, the Corium installer will fix the support rails, clip in the tiles and finish the joints with a pumped mortar. Prices are based on the initial budget estimate, which would 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 (UEAtc 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 from our support team.

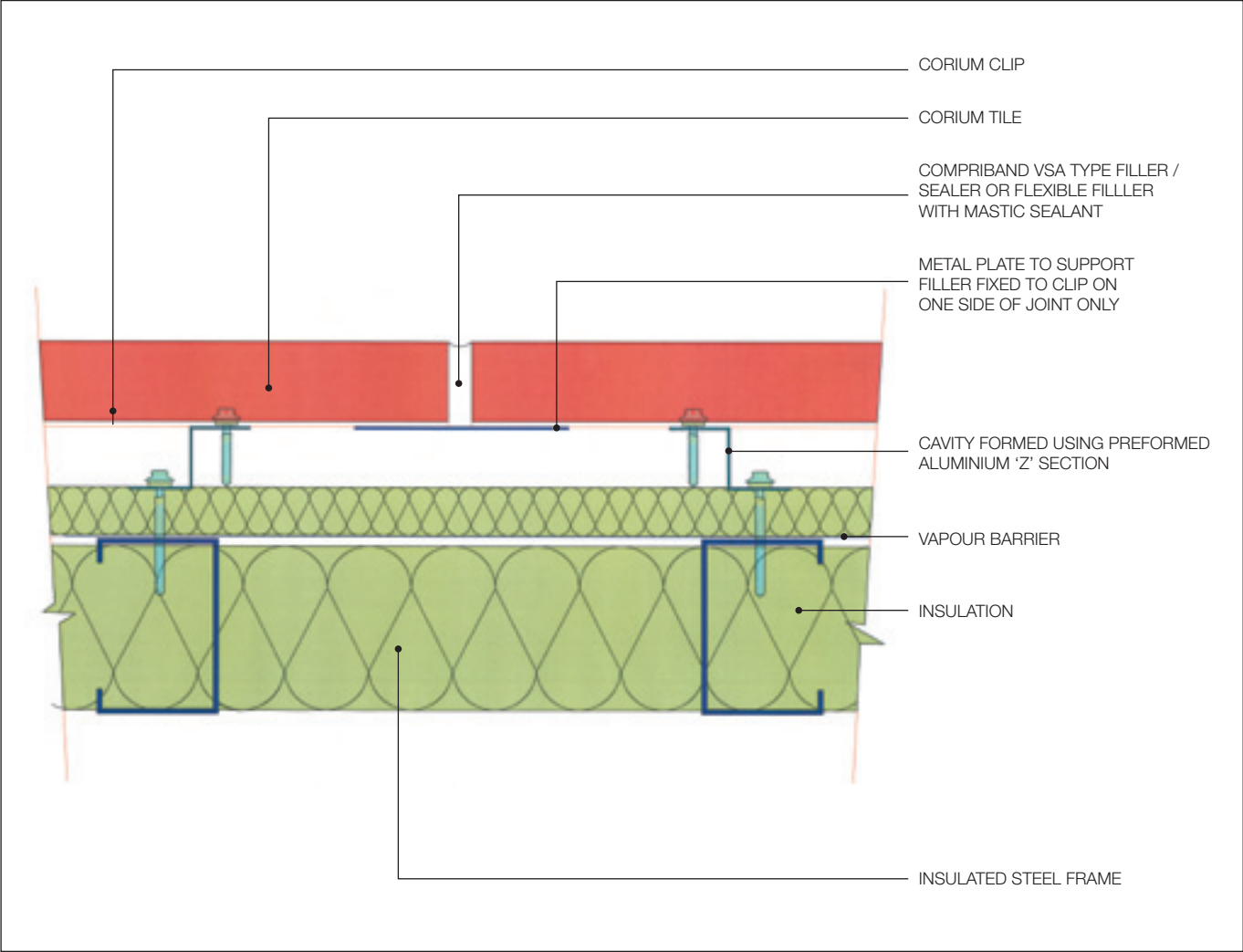
NB: Corium tiles and rails are manufactured to the highest standards as detailed in the BRE Certificate and the Approved Installers Information Pack - held by all Approved Installers. Design and installation matters are handled by the project design team with the assistance of the main contractor and 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

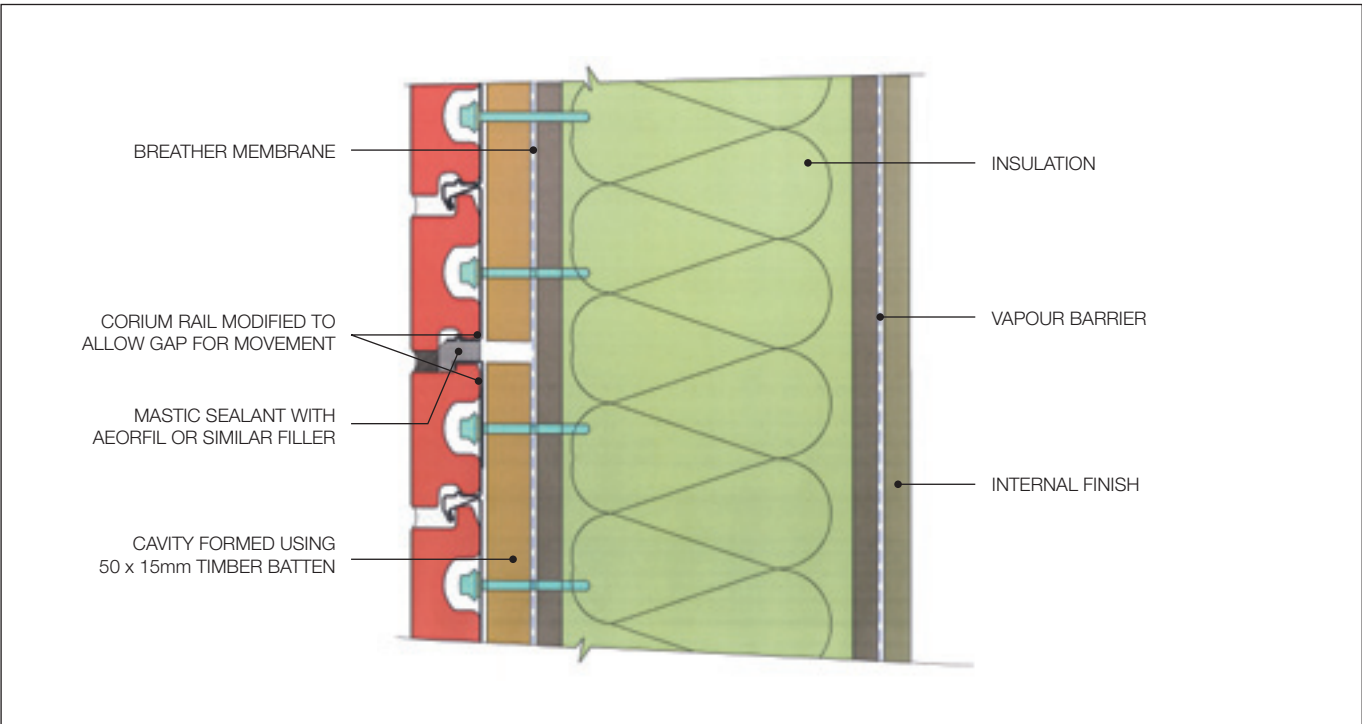


Technical Information

Steel Frame Vertical Movement Joint Plan

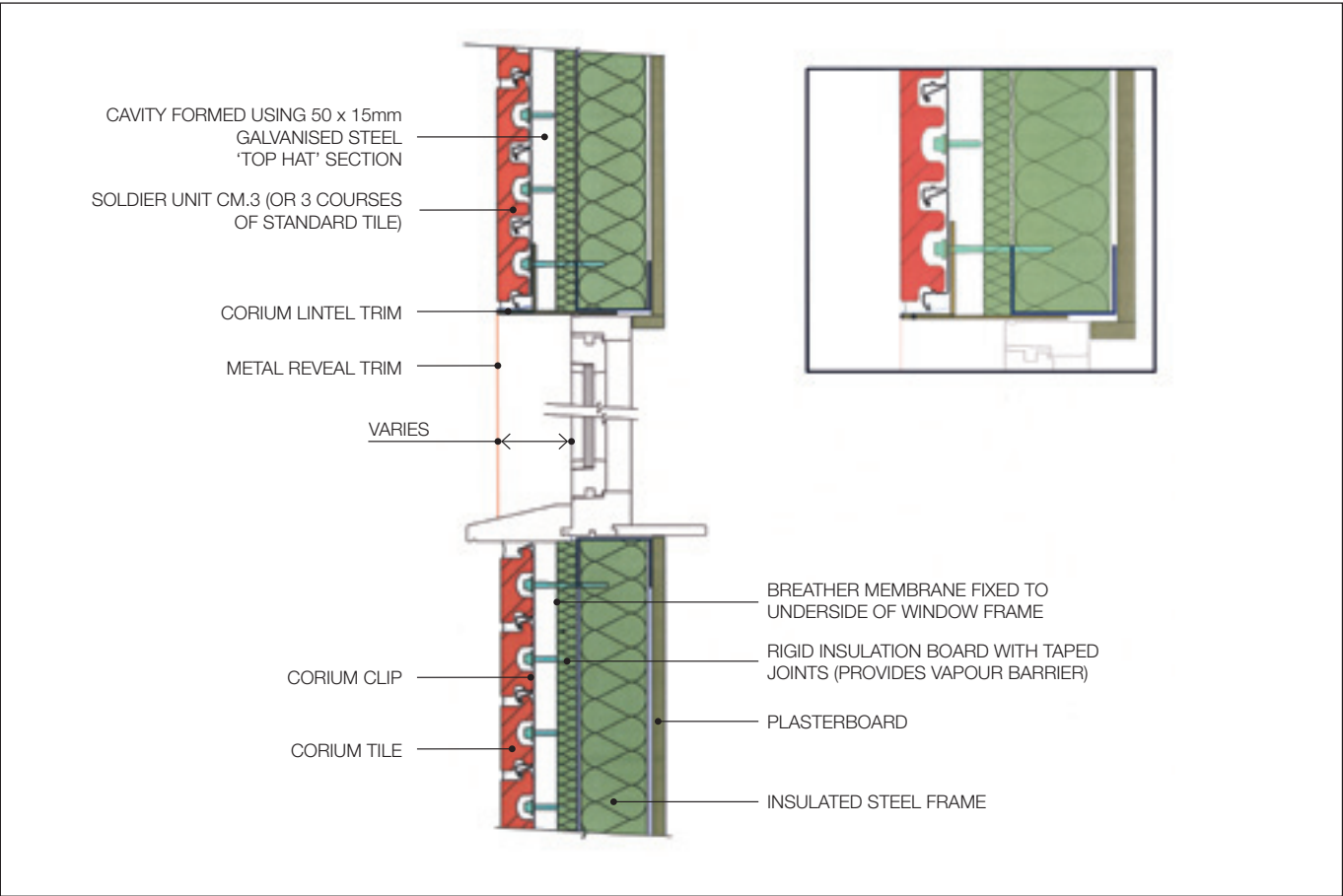


Timber Frame Horizontal Movement Joint Section

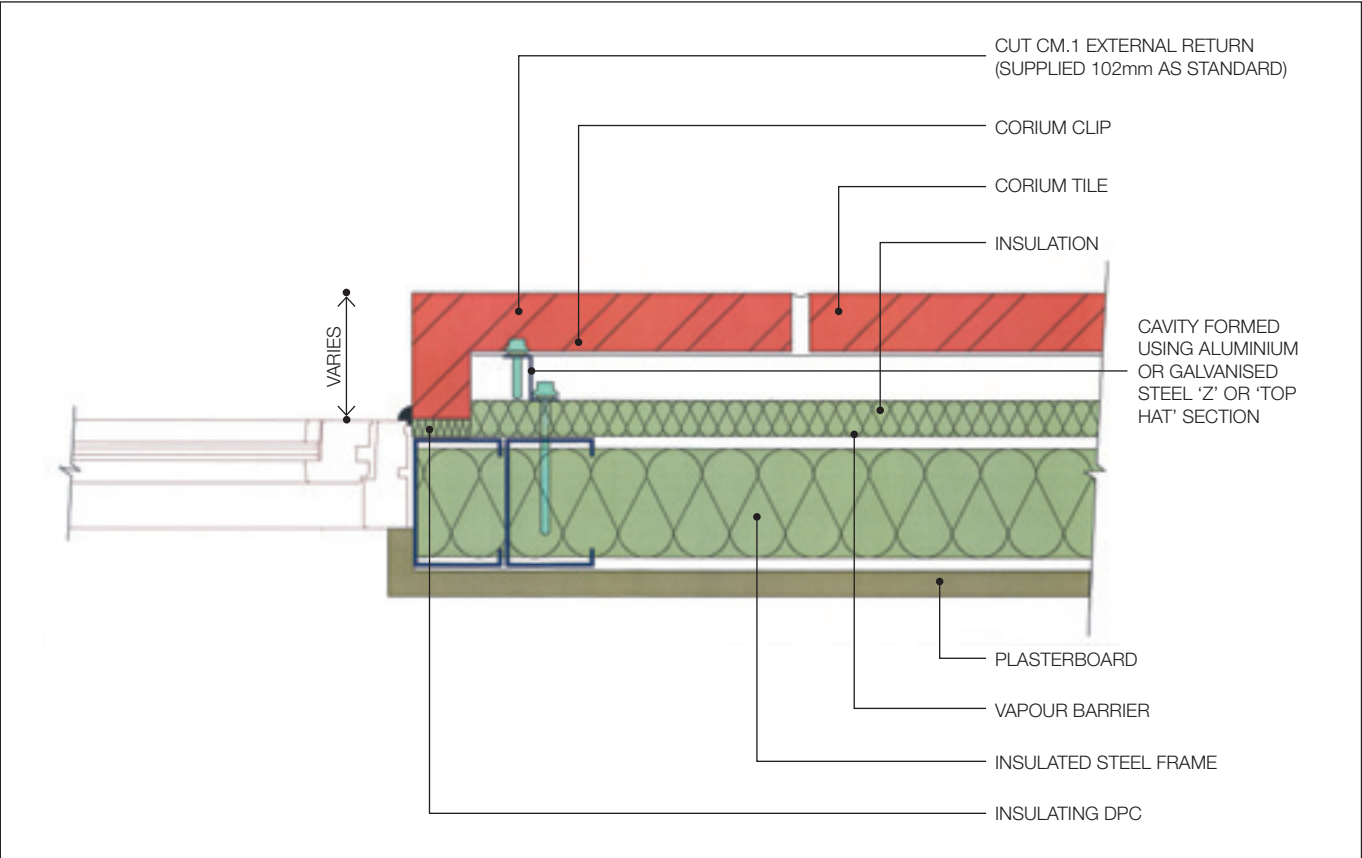


Technical Information

Steel Frame Window Section - Trimmed Reveal

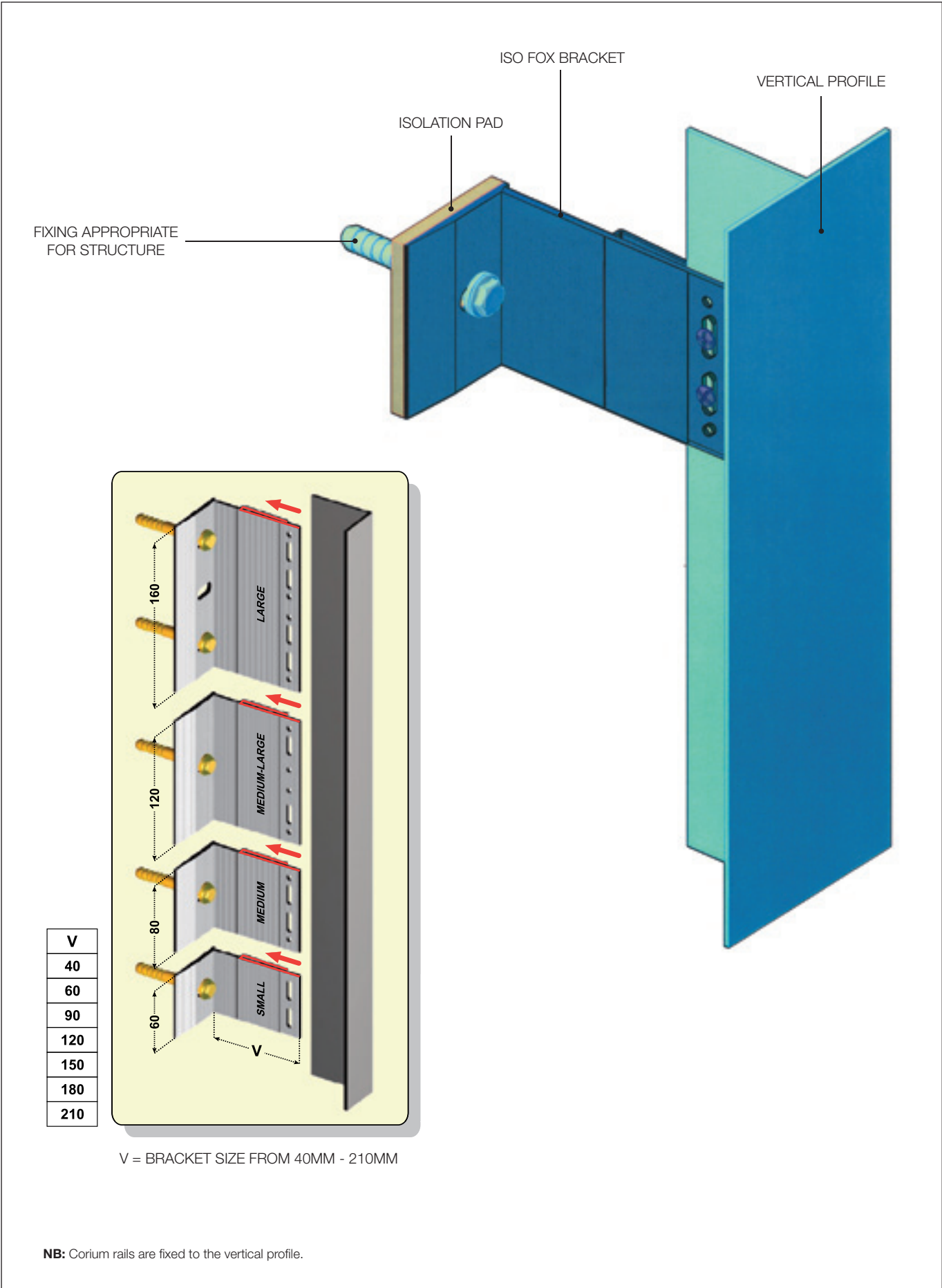


Steel Frame Window Plan - Tiled Reveal



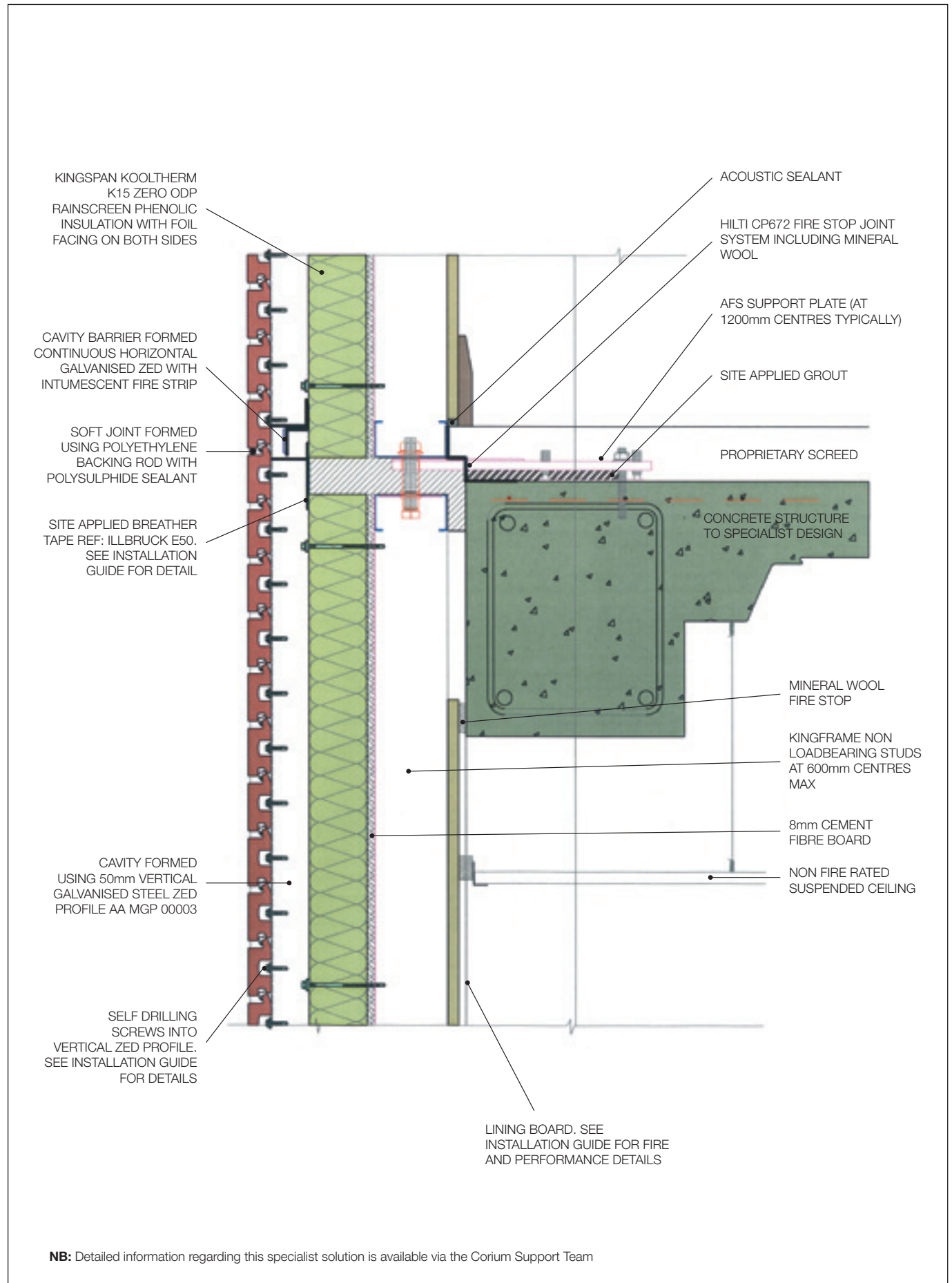
Technical Information

Eurofox Helping Hand System (Aluminium)



Technical Information

Kingspan Offsite Façade System - Typical Detail





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