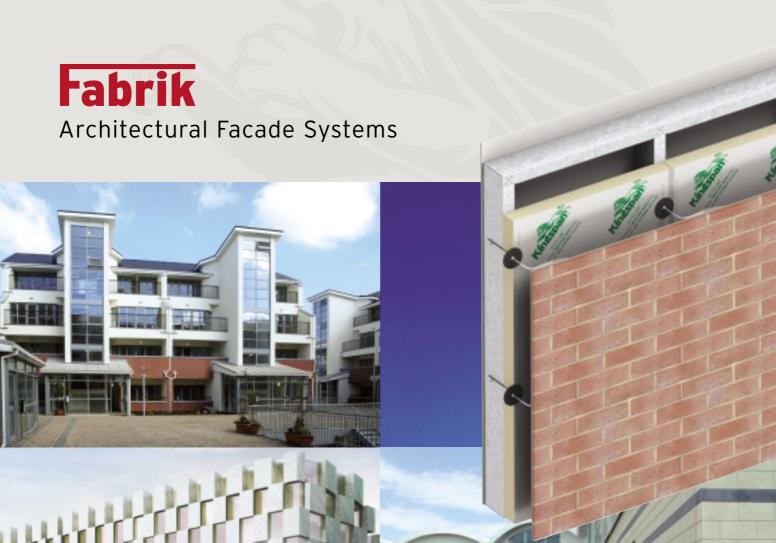
Off-Site









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Fabrik Facade Systems

Kingspan has opened up a totally new dimension in building facade design, with their innovative Fabrik unitised through-wall rainscreen systems, whose formats, textures, colours and finishes offer designers a wide array of traditional or contemporary surface combinations.

This provides the designer with the opportunity to create signature buildings with aesthetic appeal, whilst reaping the benefits of one of the most high performance construction materials available.

Fabrik facades are made from a composite material mix, comprising a cement and silica sand matrix reinforced with chemical resistant glass fibres, to produce a high compressive strength, lightweight concrete with enhanced tensile and flexural properties and other high performance characteristics.

The material does not burn and will not rot or corrode. The installed system is extremely robust, and provides a high degree of fire, ultra-violet, weather, chemical and impact resistance combined with long term durability in excess of 60 years.

Fabrik facade panels comprise a high strength material, with an external facing surface that is polished or sand blasted to provide colours and textures which match natural materials. Fabrik facade panels are connected to a Kingframe system with stainless steel anchors.

Fabrik facade panels are manufactured to high tolerances which guarantee best fit. Fabrik panels are supplied complete with connection brackets suitable for fixing to steel or concrete main structures. All panels are tailored to project specific requirements and are available up to maximum dimensions of 6000mm x 4000mm.

Fabrik systems easily incorporate, windows, doors, balconies, brise soleil, other architectural features and any type of internal linings.

Applications

Fabrik facade systems are suitable for application on to steel, concrete or timber framed buildings up to any height. Additionally, the system is ideal for dado wall applications.

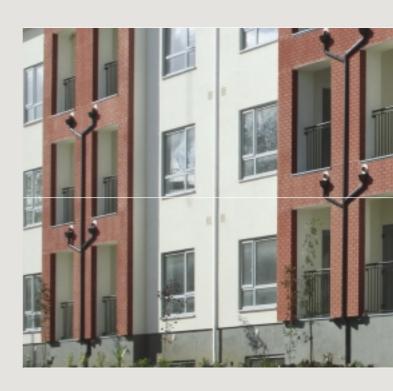
The system can be connected to the main structure in three ways:

- face-fixed;
- · recessed; or
- spandrel

Testing, Accreditation & Approvals

The Fabrik system has been fully tested and certified by the Building Research Establishment (BRE). Additionally, it is approved by NHBC and Zurich Insurance (UK), and the DOE and HomeBond (Ireland) for mortgagability and insurability.

The system conforms with all relevant Building Regulations, Standards, Codes and 'best practice' guidance.







"Fabrik MMC systems provide cost, quality and programme certainty"



Fabrik Facades

Cost, Programme & Quality Certainty

Clients demand sustainable, rapid, high quality construction methods that provide fast track build, early project completion and handover to maximise business income stream. Kingspan Fabrik as a modern method of construction (MMC) delivers on all these objectives.

Quality Assurance

Fabrik facade systems are manufactured to rigorous quality standards, in state-of-the-art manufacturing facilities certified by the Glass Reinforced Concrete Association (GRCA). Our accredited quality management systems and procedures ensure first time quality and lifetime 'in-service' performance and durability in excess of 60 years.

Kingspan Fabrik Design & Solutions Bureau

Kingspan Fabrik Design & Solutions Bureau is available to provide an immediate response to installers, designers and engineers on any project.

Tel: +353 (0) 41 988 4800 Fax: +353 (0) 41 988 4801 Email: info@kingspanfabrik.com kingspanfabrik.com





Fabrik Range

Fabrik panels are available in a vast range of external formats, textures and colours, which match natural materials. They feature either a sand blasted or polished finish, including:

- Brick
- Stone (including sandstone, Portland, granite)
- Fair-face concrete
- Smooth render
- Textured render
- Hung slate and tile
- Terracotta (small, medium and large format)
- Patterned
- Project bespoke finishes are available

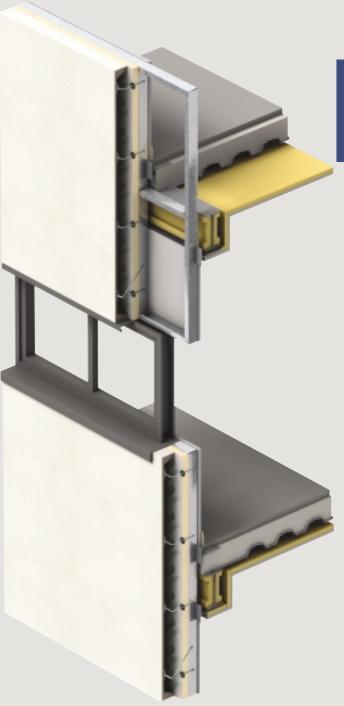


Face-fixed Facade, Steel (or Concrete)
Main Structure, up to any height



Recessed Facade, Concrete (or Steel) Main Structure, up to any height Spandrel Facade, Concrete (or Steel) Main Structure, up to any height







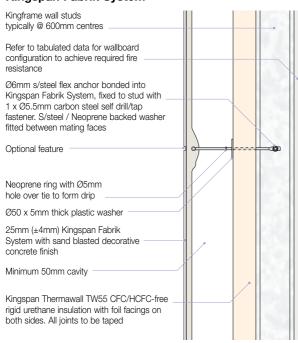


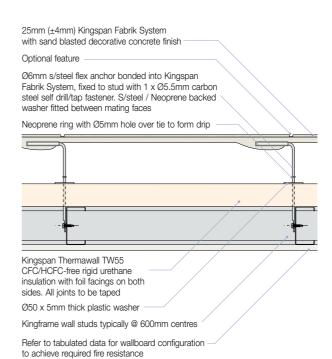
System Ferformance Data									
				Thermal		Fire Performance			
System Ref	Stud Depth (mm)	System Weight * (kg/m²)	U-Value (W/m²K)	Insulation Thickness (mm)	Airtightness (m³/h/m² @600Pa)	Insulation (mins)	Integrity (mins)	Reaction to Fire	
FS-C-FAB-35a FS-C-FAB-35b FS-C-FAB-35c FS-C-FAB-35d FS-C-FAB-35f FS-C-FAB-35g	100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150	71.62 84.62 76.37 86.37 86.12 90.87 86.62	0.35 0.35 0.35 0.35 0.35 0.35 0.35	35 35 35 35 35 35 35 35	<5 <5 <5 <5 <5 <5 <5 <5	30 60 30 30 60 60	30 60 30 30 60 60	Class '0'	
FS-C-FAB-30a FS-C-FAB-30b FS-C-FAB-30c FS-C-FAB-30d FS-C-FAB-30f FS-C-FAB-30g	100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150	71.95 84.95 76.70 86.70 86.45 91.10 86.95	0.30 0.30 0.30 0.30 0.30 0.30 0.30	45 45 45 45 45 45 45	<5 <5 <5 <5 <5 <5 <5 <5	30 60 30 30 60 60	30 60 30 30 60 60	Class '0'	
FS-C-FAB-25a FS-C-FAB-25b FS-C-FAB-25c FS-C-FAB-25d FS-C-FAB-25f FS-C-FAB-25g	100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150	72.43 83.43 77.28 87.28 86.93 91.58 87.43	0.25 0.25 0.25 0.25 0.25 0.25 0.25	60 60 60 60 60 60	<5 <5 <5 <5 <5 <5 <5	30 60 30 30 60 60	30 60 30 30 60 60	Class '0'	
FS-C-FAB-20a FS-C-FAB-20b FS-C-FAB-20c FS-C-FAB-20d FS-C-FAB-20e FS-C-FAB-20f FS-C-FAB-20g	100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150 100, 125, 150	73.23 84.23 78.08 89.08 87.73 92.38 88.23	0.20 0.20 0.20 0.20 0.20 0.20 0.20	85 85 85 85 85 85 85	<5 <5 <5 <5 <5 <5 <5 <5	30 60 30 30 60 60	30 60 30 30 60 60	Class '0'	

Notes: 1. * Weight/m² based on stud size 150 x 50 x 10 x 1.6 and includes internal linings.
2. Durability to BS 5234: Parts 1 & 2 1992.
3. Nominal thickness of Fabrik System GRC is 25mm.

Performance Data

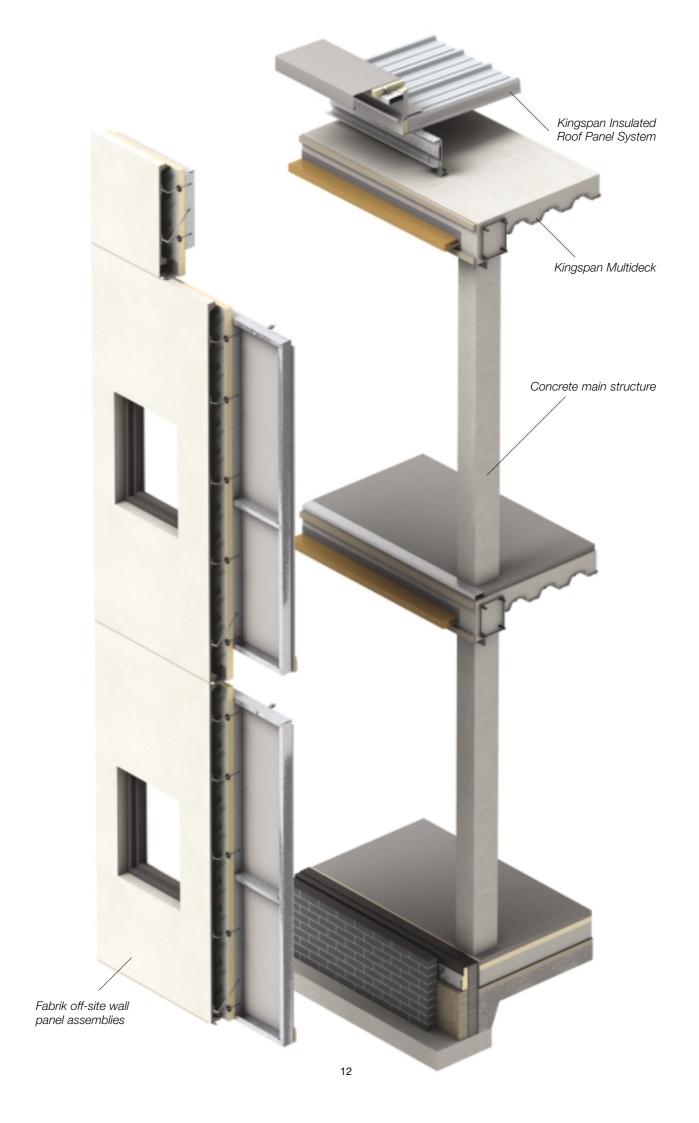
Kingspan Fabrik System





Acous	tic		Internal Linings					
Inter Stud Layer	D2m, nt, w (dB)	Cavity (mm)	Primary Type	Thickness (mm)	Secondar Type	ry Thickness (mm)	Impact Durability	Lifetime Durability (years)
None None None None None None	51 53 52 54 52 53 54	Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50	Gypsum Board Gypsum Board Fermacell Fermacell Gypsum Fireline Fermacell Gypsum Soundblock	15.0 12.5 12.5 12.5 12.5 12.5 15.0	None Gypsum Plank None Gypsum Board Gypsum Plank Gypsum Plank Gypsum Soundblock	n/a 19.0 n/a 15.0 19.0 19.0	Medium Severe Severe Severe Severe Severe	60+ 60+ 60+ 60+ 60+ 60+
None None None None None None	51 53 52 54 52 53 54	Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50	Gypsum Board Gypsum Board Fermacell Fermacell Gypsum Fireline Fermacell Gypsum Soundblock	15.0 12.5 12.5 12.5 12.5 12.5 15.0	None Gypsum Plank None Gypsum Board Gypsum Plank Gypsum Plank Gypsum Soundblock	n/a 19.0 n/a 15.0 19.0 19.0	Medium Severe Severe Severe Severe Severe	60+ 60+ 60+ 60+ 60+ 60+ 60+
None None None None None None	51 53 52 54 52 53 54	Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50	Gypsum Board Gypsum Board Fermacell Fermacell Gypsum Fireline Fermacell Gypsum Soundblock	15.0 12.5 12.5 12.5 12.5 12.5 15.0	None Gypsum Plank None Gypsum Board Gypsum Plank Gypsum Plank Gypsum Soundblock	n/a 19.0 n/a 15.0 19.0 19.0	Medium Severe Severe Severe Severe Severe	60+ 60+ 60+ 60+ 60+ 60+
None None None None None None	51 53 52 54 52 53 54	Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50 Min. 50	Gypsum Board Gypsum Board Fermacell Fermacell Gypsum Fireline Fermacell Gypsum Soundblock	15.0 12.5 12.5 12.5 12.5 12.5 15.0	None Gypsum Plank None Gypsum Board Gypsum Plank Gypsum Plank Gypsum Soundblock	n/a 19.0 n/a 15.0 19.0 19.0	Medium Severe Severe Severe Severe Severe	60+ 60+ 60+ 60+ 60+ 60+





Technical Specification

Construction

Kingspan Fabrik System

Fabrik facade panels are made from a composite material mix, comprising a cement and silica sand matrix reinforced with chemical resistant glass fibres, to produce a high compressive strength, lightweight concrete with enhanced tensile and flexural properties and other high performance characteristics.

The material does not burn and will not rot or corrode. The installed system is extremely robust, and provides a high degree of fire, ultra-violet, weather, chemical and impact resistance combined with long term durability (60+ years).

Fabrik panels comprise 12-15mm thick high strength material, with a 6-8mm external facing surface that is polished or sand blasted to give colours and textures which match natural materials. Fabrik facade panels are connected to the Kingframe system with 6mm diameter stainless steel flex anchors. The flex anchors spaced at 600mm centres provide resistance to lateral loadings. The external face is vertically supported with 8mm diameter stainless steel gravity anchors connected to the Kingframe system.

The stainless steel flex and gravity anchors are bonded into the Fabrik facade panel and fix directly to the Kingframe studs without compromising the thermal performance of the insulation. EPDM washers provide thermal separation of the stainless steel anchors from the Kingframe.

Dimensions: Fabrik panels are available up to maximum dimensions of 6000mm and height of 4000mm.

Manufacturing flexibility of Fabrik allows designers to incorporate apertures and details for windows, doors, balconies, brise soleil, horizontal or vertical interface junctions, corners and other architectural features.

Durability: Fabrik facades have a lifetime durability in excess of 60 years when designed and installed to Kingspan Fabrik specification and recommendations.



Insulation

Kingspan Thermawall TW55 CFC/HCFC-free insulation board is manufactured from closed cell rigid urethane insulation core, and incorporates foil facings on both sides which are highly resistant to the transmission of water vapour.

Insulation is installed so the steel frame is totally enclosed within the internal environment of the building, thus avoiding any condensation, cold-bridging or mould problems. Insulation boards are fixed to the frames with sides and ends tightly butted together to ensure certainty of insulation and thermal continuity.

Additionally, insulation board joints are factory taped using high strength 75mm wide aluminium foil tape which guarantees a high level of airtightness.

Thermal U-value calculations for the as-built Fabrik wall assembly are based upon the European Standard calculation method, BS/I.S. EN ISO 6946: 1997 (Building components and building elements: Thermal resistance and thermal transmittance. Calculation method).

Kingspan Thermawall TW55 CFC/HCFC-free rigid urethane insulation board is directly fixed to the Kingframe with the specified nylon tube washer fixings.

Fire Resistance

Kingspan Thermawall TW55 CFC/HCFC-free rigid urethane insulation board has a Class 1 fire rating when tested to BS 476: Part 7: 1997 (Surface Spread of Flame Test).



Technical Specification

Kingframe Facade Framing

Galvanised, cold formed stud and track sections that are factory manufactured and assembled to form bespoke unitised wall frame assemblies.

The head and base sections are reinforced at structural connection points, where necessary. In addition, handling and lifting points are incorporated for subsequent lifting of the completed frame unit assembly.

Where necessary, flush lateral bracings are incorporated into the frame unit to resist bending and twisting under handling and 'in service' loads.

Kingframe units incorporate main structure connection points, openings for windows and doors, and other feature details. Other horizontal/vertical, head, cill and internal/external corner junctions and interfaces are integrated at design, manufacture and assembly of the frame units.





* Kingspan 'flush-faced' connection method - patent applied for.

Kingframe units are assembled using self drill/tap fasteners and high strength rivets. Stud and track connections feature a unique Flush-faced™, 'self-jigging' connection which ensures dimensional accuracy and provision of a completely flat surface for the installation of internal linings. This prevents the potential for any 'read-through' to the inner lining surface and finishes during the building's lifetime.

Vertical studs are generally located at 600mm centres to accommodate the Fabrik facade and the installation of internal linings.

Building Service Distribution Highways

Fabrik frame units are manufactured, assembled and supplied incorporating project specific building service penetrations within the web of the stud and track for routing plumbing and electrical services (power, voice and data). Grommets* are used where there is risk of biometallic contact.

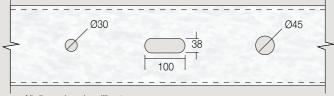
* Grommets Ltd
Tel: 01273 493355 Fax: 01273 493388 www.grommets.co.uk
Chesterfield Injection Moulding Services
Tel/Fax: 01246 473337 www.c-i-m-s.co.uk

Tolerances

Fabrik facade units are manufactured, assembled and supplied to a width, height and squareness tolerance of ±3.0mm for frames up to 5000mm, and a tolerance of ±4.0mm for frames of 5001mm to 10000mm.

Service Highway Distribution Penetration Options

Service highway distribution holes can be positioned at any point along the section length and across the web, dependent on web size. Contact Kingspan Fabrik Design & Solutions Bureau for advice.



All dimensions in millimetres.

Design

Fabrik facade units are designed to comply with BS 5950 Part 5: 1998 and BS 6399: Parts 1 & 2: 1997 Code of practice for dead, imposed and wind loadings for buildings. The design criteria is based upon allowable deflections due to wind loading.

Materials

All sections and profiles are manufactured from steel to BS EN 10147 Grade S390 GD, pre-galvanised with G275 coating and have a guaranteed minimum yield strength of 390 N/mm².

Durability

Galvanised steel Kingframe units have a lifetime durability in excess of 60 years when designed and installed to Kingspan Off-Site specification and recommendations.

Fasteners

Self drill/tap type fasteners are zinc plated with an organic coating. High strength steel rivets are zinc plated.

Internal Linings

Kingspan Fabrik facade panels are suitable for the application of any type of single or multi-layered internal lining methods for example, blockwork, plasterboard, fire linings, acoustic linings, cellulose fibre reinforced linings, 0.7mm steel or other specialist linings. Reference should be made to internal lining manufacturers recommendations regarding application, specification, performance and installation.

Building Regulations, Standards, Codes & Certification

Kingspan Fabrik Systems conform to the following Building Regulations and Standards:

- Developed and tested in conjunction with BRE
 for certification details contact Kingspan Fabrik
- Energy Performance of Buildings Directive
- Approved Document A: Structure (England & Wales)
- Approved Document B: Fire (England & Wales)
- Approved Document E: Resistance to the Passage of Sound (England & Wales)
- Approved Document F: Ventilation (England & Wales)
- Approved Document Parts L1 and L2:
 Conservation of Fuel & Power (England & Wales)
- Code for Sustainable Homes (December 2006)
- BRE Green Guide
- NHBC
- Council of Mortgage Lenders (CML)
- DfES Building Bulletin (BB93) Acoustic Design of Schools
- NHS Estates Technical Memorandum (HTM) 2045
- Building Standard Part D: Structural Fire Precautions (Scotland)
- Building Standard Part H: Resistance to the Transmission of Sound (Scotland)
- Building Standard Part J: Conservation of Fuel & Power (Scotland)
- DOE (Northern Ireland)
- HomeBond (Republic of Ireland)
- Technical Guidance Document Part A: Structure (Republic of Ireland)
- Technical Guidance Document Part B: Fire Safety (Republic of Ireland)
- Technical Guidance Document Part D: Materials
 & Workmanship (Republic of Ireland)
- Technical Guidance Document Part E: Sound (Republic of Ireland)
- Technical Guidance Document Part F: Ventilation (Republic of Ireland)
- Technical Guidance Document Part L: Conservation of Fuel & Energy (Republic of Ireland)



nssPlus Specification

NBS Clauses completed to show various facade systems

Rainscreen construction - Kingspan Fabrik Systems

H92 Rainscreen Cladding 120 Rainscreen Cladding

Kingspan Fabrik Facade System

Kingspan Fabrik Ltd, a division of Kingspan, manufacture and assemble framing systems designed for use on low, medium and high-rise steel and concrete framed buildings. Consult Kingspan Fabrik technical literature for details. As the Fabrik Facade Systems can be designed to suit individual requirements, the following headings should be completed to allow Kingspan Fabrik to complete the design and specification and it is recommended that they are consulted early in the design process.

120 Rainscreen Cladding: (Insert location eg. to Facade).

Primary support structure: (Insert details).

Rainscreen cladding system:

Manufacturer: Kingspan Fabrik Ltd, The Brickworks, Grangegeeth, Slane,

County Meath, Ireland.

Tel: 00 353 41 988 4800 Fax: 00 353 41 988 4801

Email: info@kingspanfabrik.com www.kingspanfabrik.com

Type: Kingspan Fabrik Facade Panels.

Rainscreen panel:

Manufacturer: Kingspan Fabrik Ltd, The Brickworks, Grangegeeth, Slane,

County Meath, Ireland.

Tel: 00 353 41 988 4800 Fax: 00 353 41 988 4801

Email: info@kingspanfabrik.com www.kingspanfabrik.com

Product reference: Kingspan Fabrik Facade Panels.

Material: External high quality aggregate facing on glass reinforced concrete (GRC) backing mix.

Thickness: Fabrik facade panel 18-23mm (comprising external facing, in range of finishes, 6-8mm thick nonstructural. Internal GRC backing minimum 12-15mm thick.). Overall complete build-up thickness (ie, Fabrik facade, cavity, insulation and Kingframe) is flexible depending on application, required insulation thickness and wind loadings, etc. Typical total system thickness will range from 220-340mm.

Finish/Colour: Kingspan Fabrik panels incorporate a vast range of formats, textures, colours and finishes, either sand blasted or polished, including: Brick, Stone (incl. sandstone, Portland, granite), Fair-face concrete, Smooth Render, Textured Render, Hung Slate & Tile, Terracotta (small, medium and large format), High Pressure Laminate (HPL), Timber and other bespoke finishes.

Fasteners/Connections: Fabrik facade panels are connected to the Kingframe studs with 6mm diameter stainless steel flex anchors. Flex anchors spaced at 600mm centres provide resistance to lateral loadings. The external face is vertically supported with 8mm diameter stainless steel gravity anchors connected to the Kingframe studs.

Number and location: 600mm centres.

Joint type: Sealed joint.

Joint width: Minimum 10mm.

Air gap: Minimum 20 mm.

Secondary support/framing system: Not required.

Backing wall: Kingspan Fabrik Ltd, The Brickworks, Grangegeeth, Slane,

County Meath, Ireland.

Tel: 00 353 41 988 4800 Fax: 00 353 41 988 4801

Email: info@kingspanfabrik.com www.kingspanfabrik.com

System reference: Kingspan Fabrik Facade Panels.

Type: Single storey, Multi-storey, Spandrel or Dado.

Position: Recessed or Face-fixed.

Height: (Insert details).

Structural performance:

Strength grade to BS 5234-2: (Insert requirements).

Air pressure and deflection: (Insert requirements).

Fire resistance of complete partition assembly to BS 476-20 and -22, and BS EN 1364-1:

Integrity/insulation: (Insert requirements).

Sound insulation of complete partition assembly: Weighted sound reduction index Rw (minimum) to BS EN ISO 717-1: (Insert requirements).

Acoustic and fire compartmentation and space separation requirements: (Insert details).

Internal linings: Drylining Systems as NBS K10. All types of internal lining systems, including plasterboard, cellulose board and other specialist fire or acoustic performance materials.

Thermal insulation: Kingspan Thermawall TW55 CFC/HCFC-free rigid urethane insulation board as clause 776.

Accessories: (Insert details).

Incorporated components: (Insert details).

Other requirements: (Insert details).

776 Thermal Insulation

Kingspan Thermawall TW55 CFC/HCFC-free rigid urethane insulation board with a rigid urethane insulation core of typical density 32 kg/m² with low emissivity composite foil facings on both sides.

Board size: Typically to suit storey height dimension x 1200mm width.

Thickness: 35, 45, 60 and 85mm. The boards achieve a thermal conductivity of 0.022-0.023 W/m.K.

It is recommended that the guidance give in H92 regarding fire and acoustic performance and the use of cavity barriers is taken into consideration when designing the facade layout. Consult Kingspan Insulation's technical literature for details and guidance.

Material: Rigid urethane insulation core with composite foil facings on both sides.

Manufacturer: Kingspan Insulation Ltd, Pembridge, Leominster, Herefordshire HR6 9LA.
Tel: 0870 8508555 Fax: 0870 8508666.
Email: literature.uk@insulation.kingspan.com

www.insulation.kingspan.com

Product reference: Kingspan Thermawall TW55 CFC/HCFC-free rigid urethane insulation board.

Thickness: (Insert details). See performance data sheet.

Installation: Insulation is factory installed so that the facade frame is totally enclosed within the internal environment of the building, thus eliminating any condensation, moisture ingress, cold-bridging or mould problems. Insulation boards are fixed to the facade frames with sides and ends tightly butted together to ensure certainty of insulation and thermal continuity.

Insulation board sides and ends are factory taped using high strength 75mm wide aluminium foil tape which guarantees a high level of airtightness and on-site weather resistance robustness during the on-site period prior to installation of the exterior facade finish.

Kingspan Fabrik Systems can incorporate a range of windows, doors and brise soleil systems. These should be specified in the following NBS Sections:

Windows:

NorDan UK Ltd – NBS L10/210. A range of wood casement, horizontal and vertical sliding and tilt and turn windows.

Technal – NBS L10/330. A range of aluminium casement, horizontal and vertical sliding and tilt and turn windows.

REHAU – NBS L10/350. A range of PVC-U casement, horizontal and vertical sliding and tilt and turn windows.

VELFAC Ltd – NBS L10/400. A range of aluminium and wood composite windows available in casement, horizontal and vertical sliding and tilt and turn format.

Doors:

LS Longdon (Leaderflush) – NBS L20/420. A range of panelled and boarded wood doorsets.

Technal – NBS L20/480. A range of aluminium doorsets.

Brise Soleil:

Levolux Ltd – NBS L10/670. A range of products that are designed to control light, heat and glare.

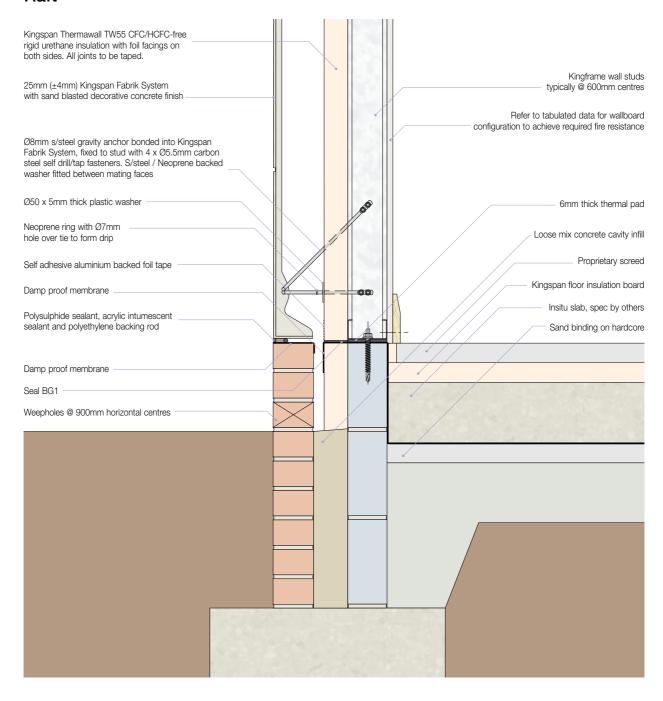
Technal – NBS L10/670. A range of products that are designed to control light, heat and glare.

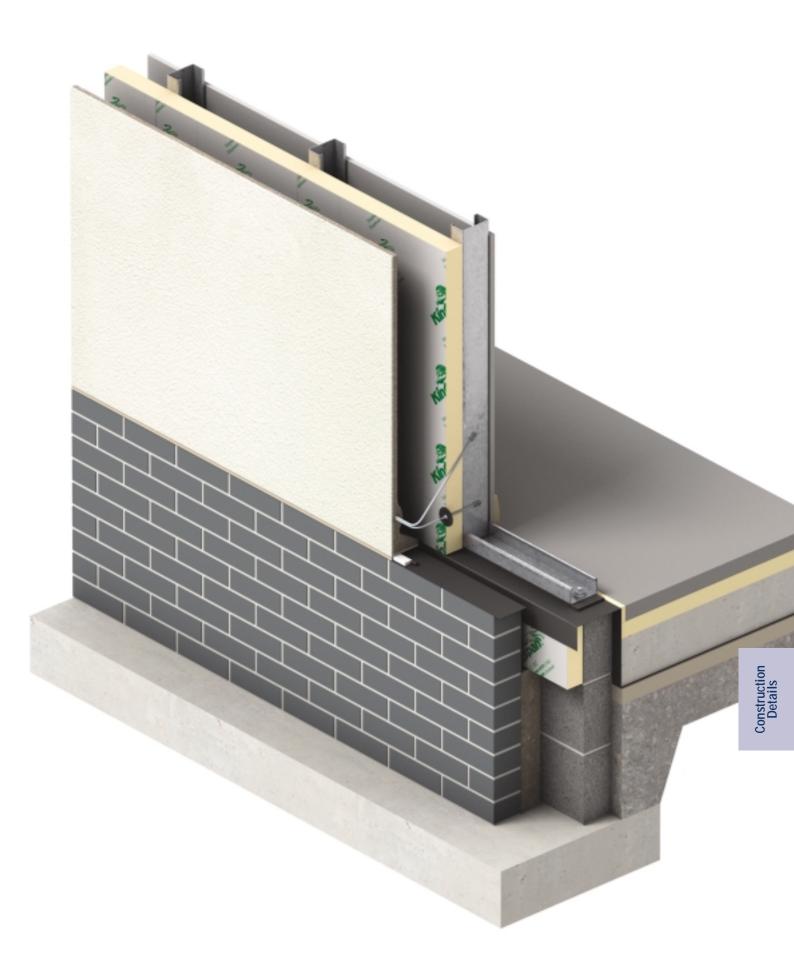
When specifying windows, doors and brise soleil, it is important to consult with the individual manufacturer for recommendations and details early in the design process.



Foundation Detail

Raft

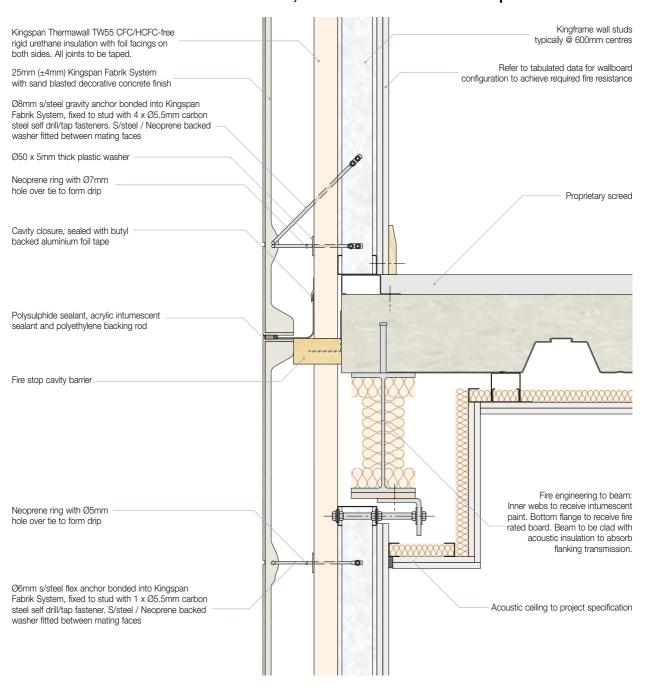




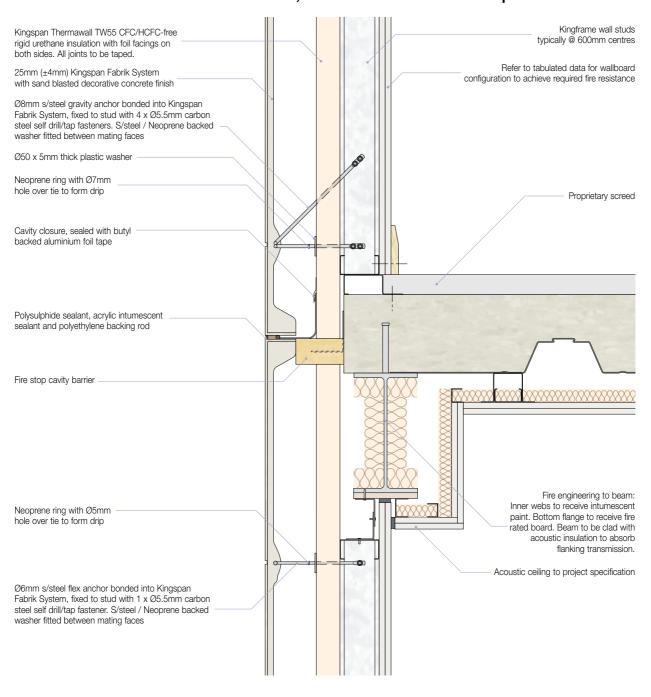


Intermediate Floor Details

Steel Recessed: Intermediate Floor, Insitu Cast - Part E Compliant



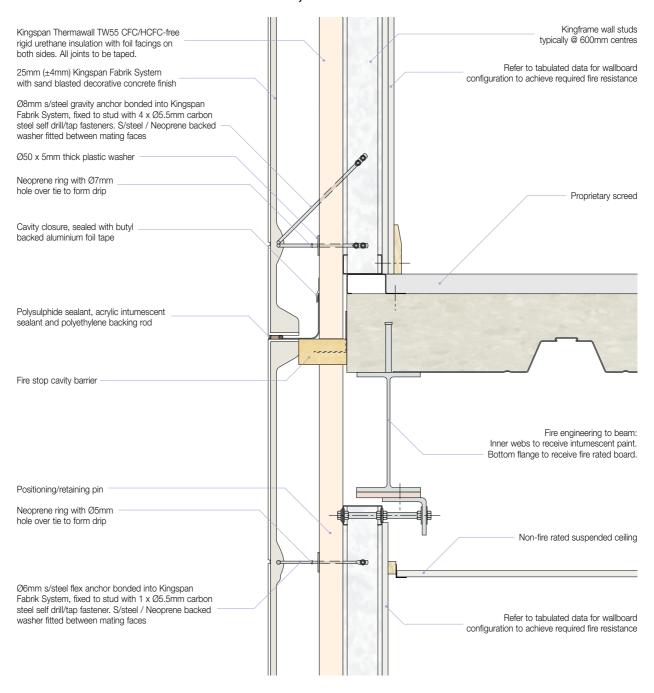
Steel Recessed: Intermediate Floor, Insitu Cast - Part E Compliant



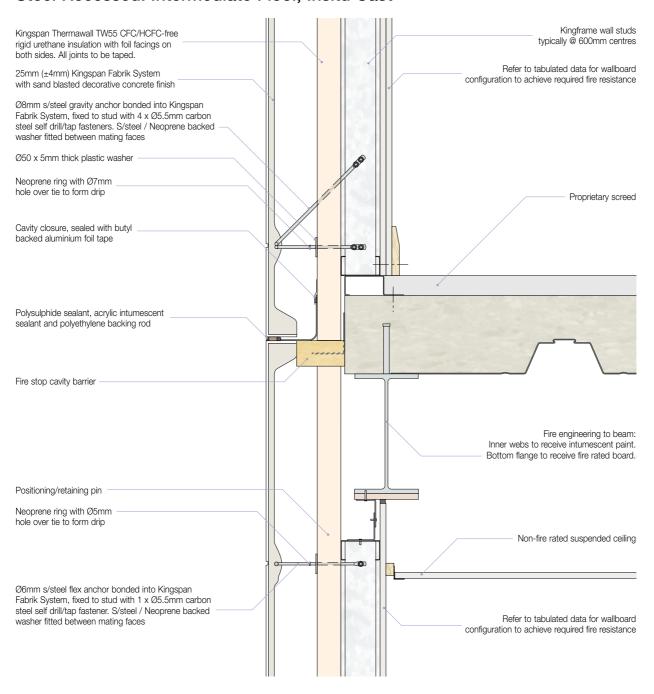


Intermediate Floor Details

Steel Recessed: Intermediate Floor, Insitu Cast



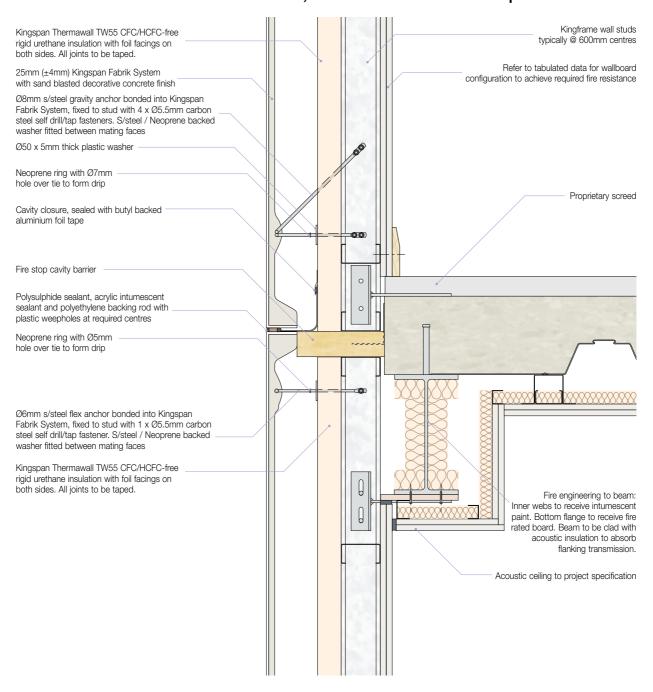
Steel Recessed: Intermediate Floor, Insitu Cast



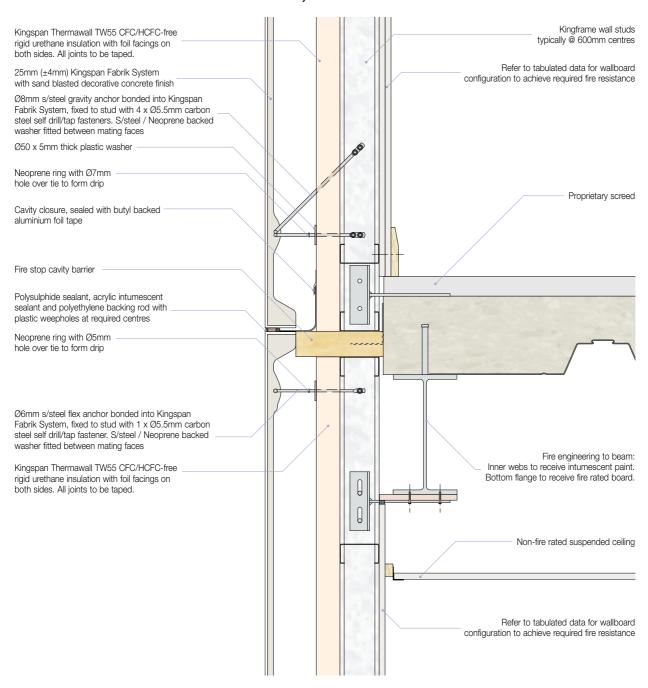


Intermediate Floor Details

Steel Face-fixed: Intermediate Floor, Insitu Cast - Part E Compliant



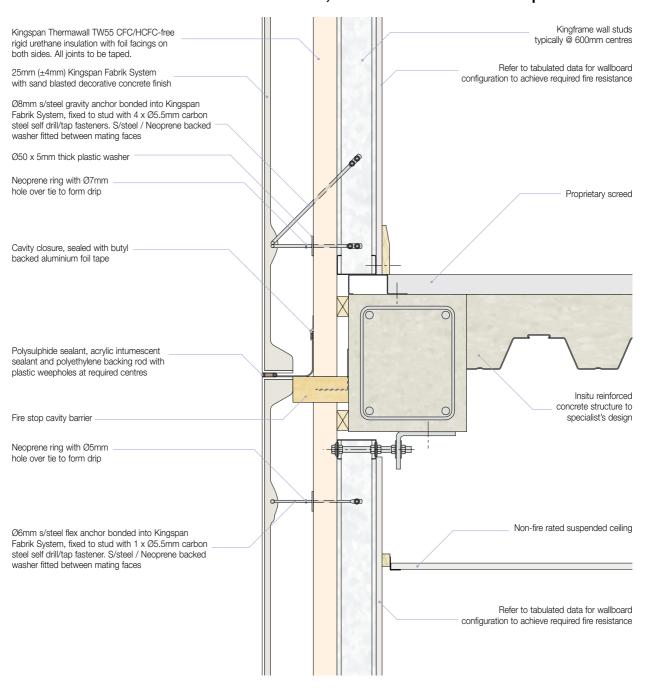
Steel Face-fixed: Intermediate Floor, Insitu Cast

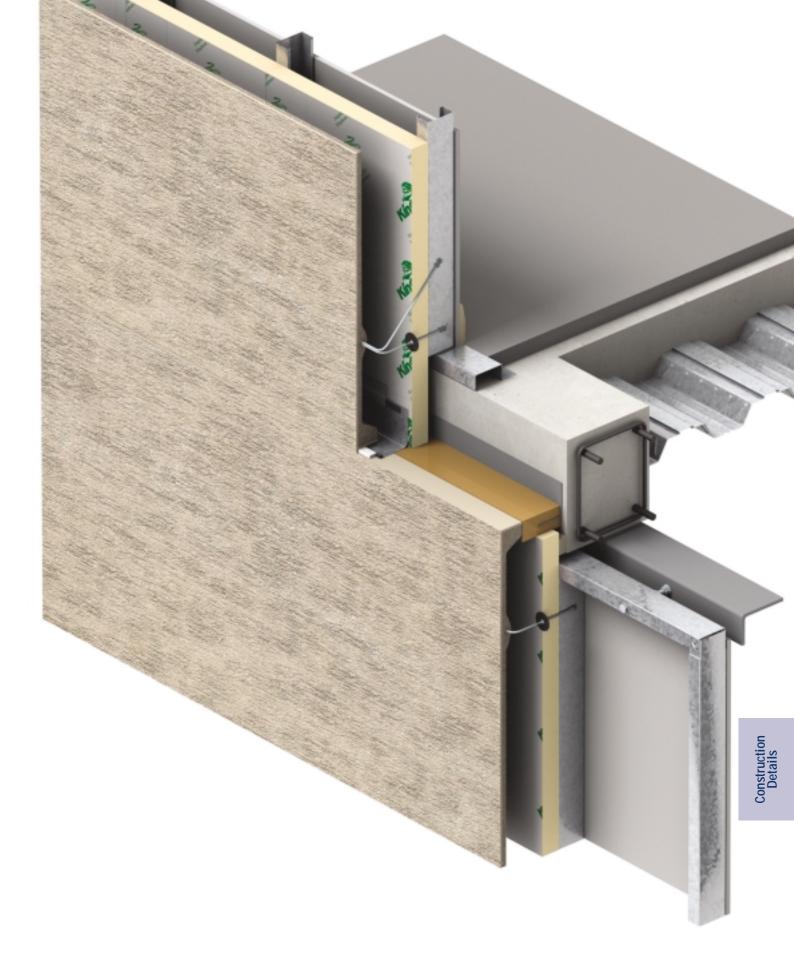




Intermediate Floor Details

Concrete Recessed: Intermediate Floor, Insitu Cast - Part E Compliant

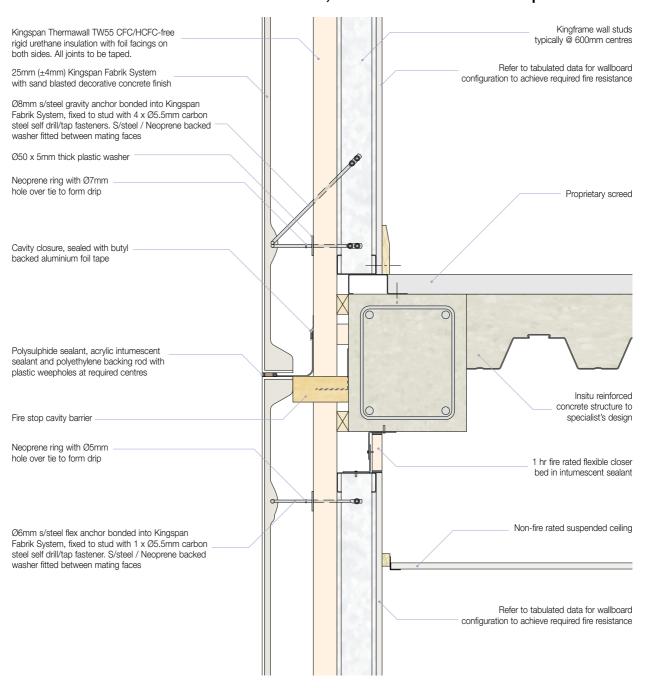




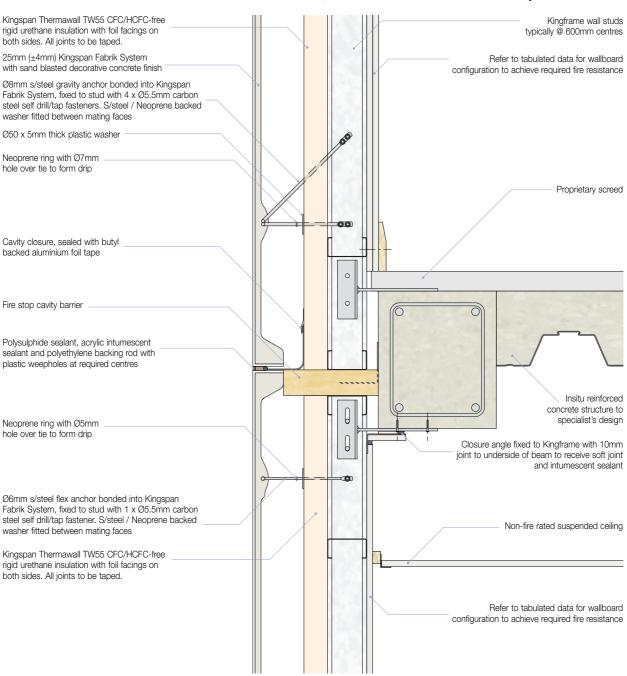


Intermediate Floor Details

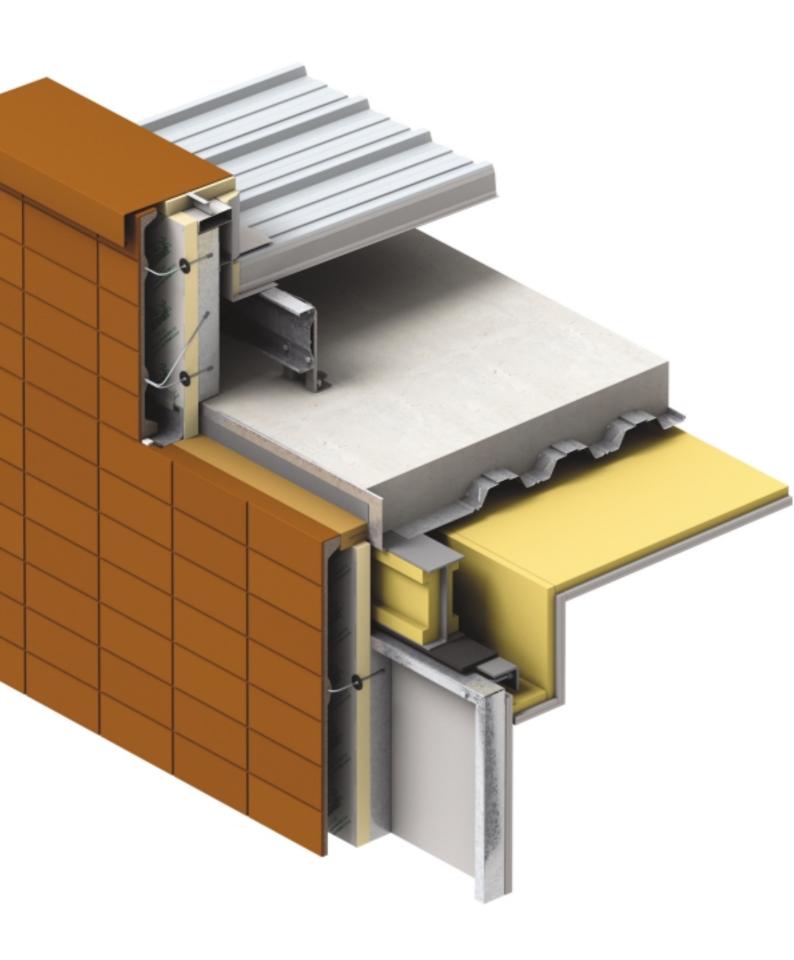
Concrete Recessed: Intermediate Floor, Insitu Cast - Part E Compliant



Concrete Face-fixed: Intermediate Floor, Insitu Cast - Part E Compliant

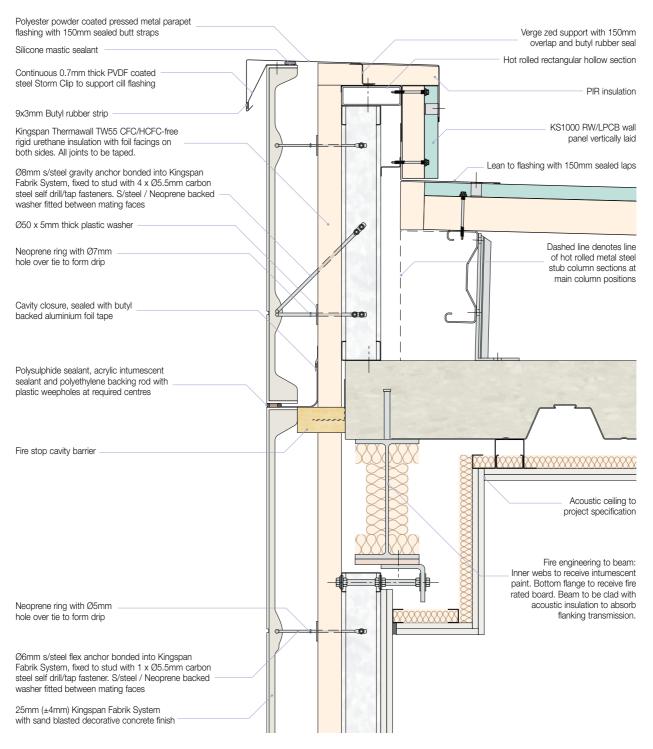






Eaves Details

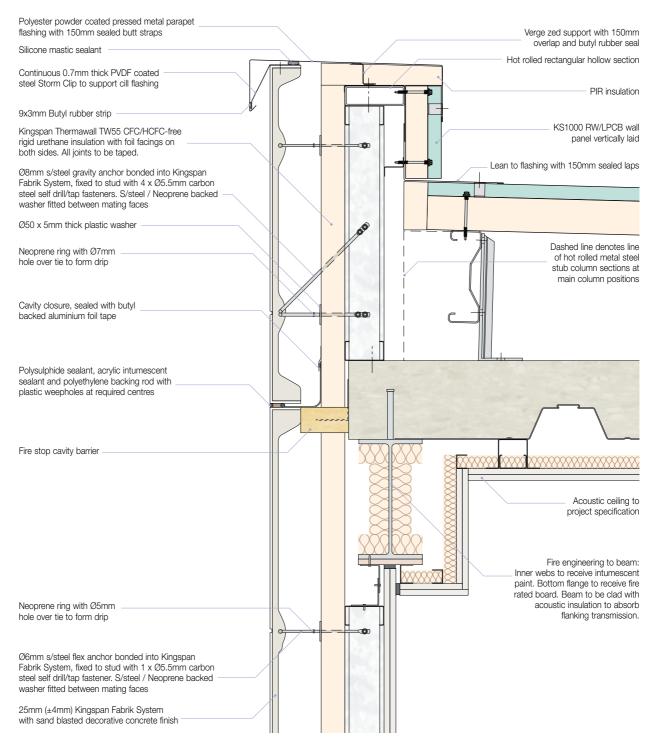
Steel Recessed: Parapet Eaves, Concrete Deck



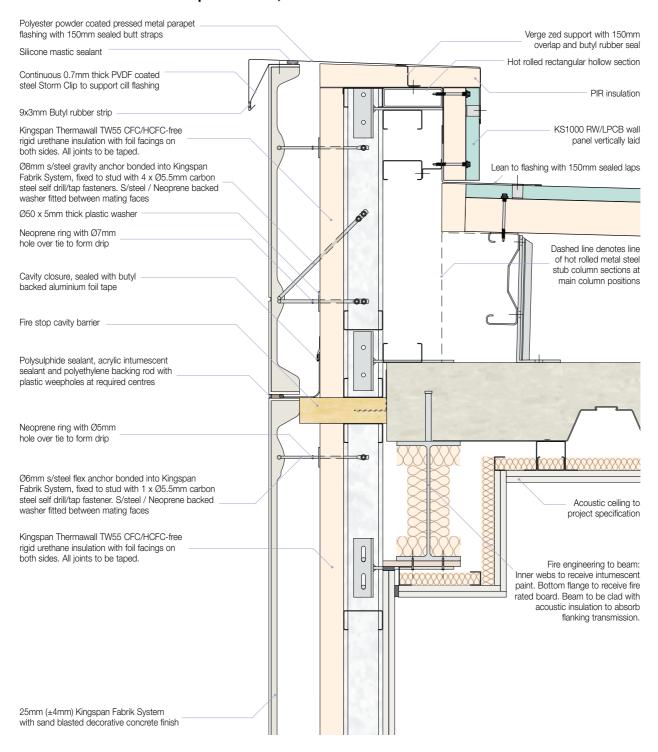


Eaves Details

Steel Recessed: Parapet Eaves, Concrete Deck



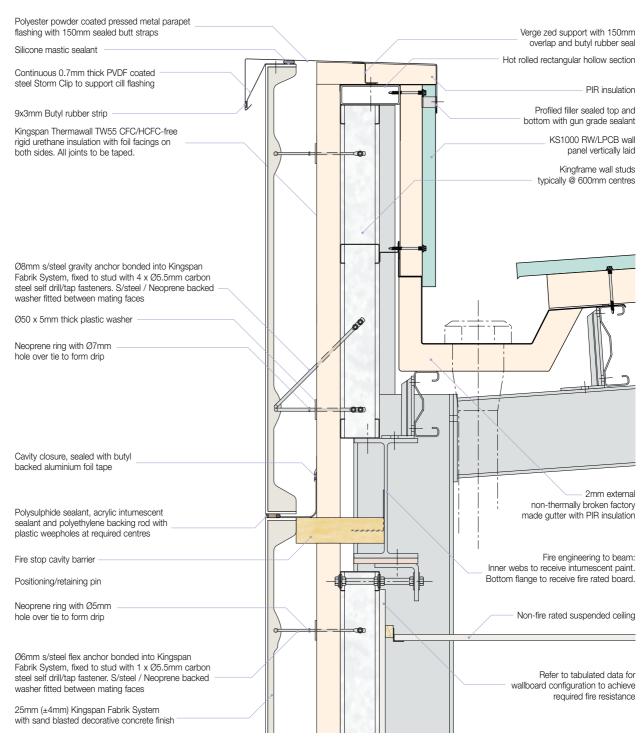
Steel Face-fixed: Parapet Eaves, Concrete Deck

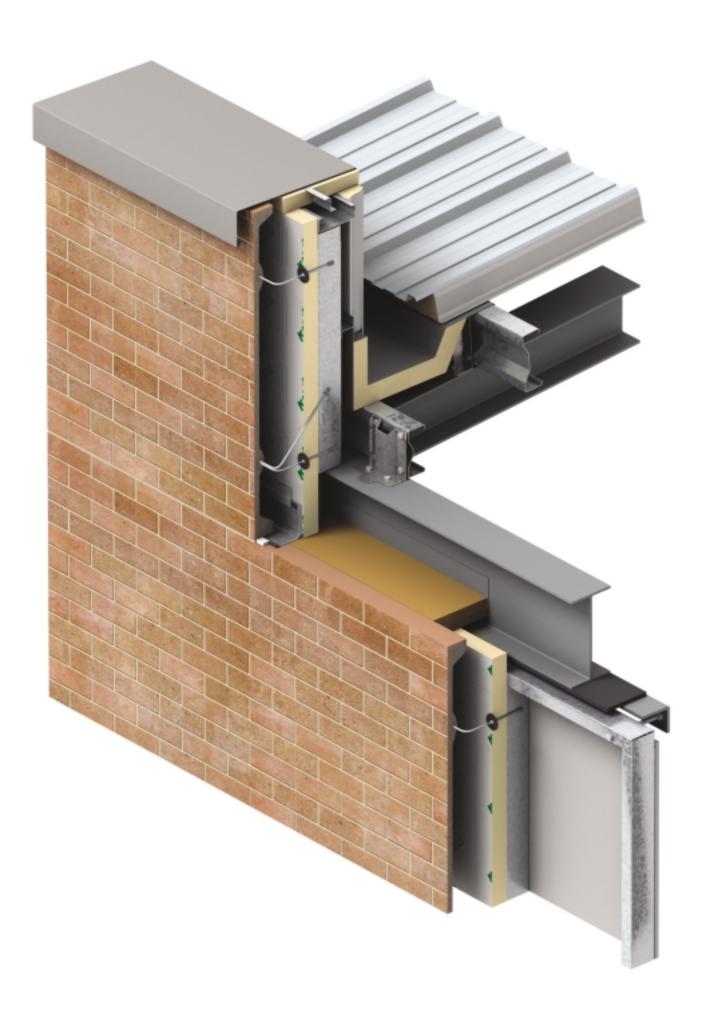




Eaves Details

Steel Recessed: Parapet Eaves, Portal Frame

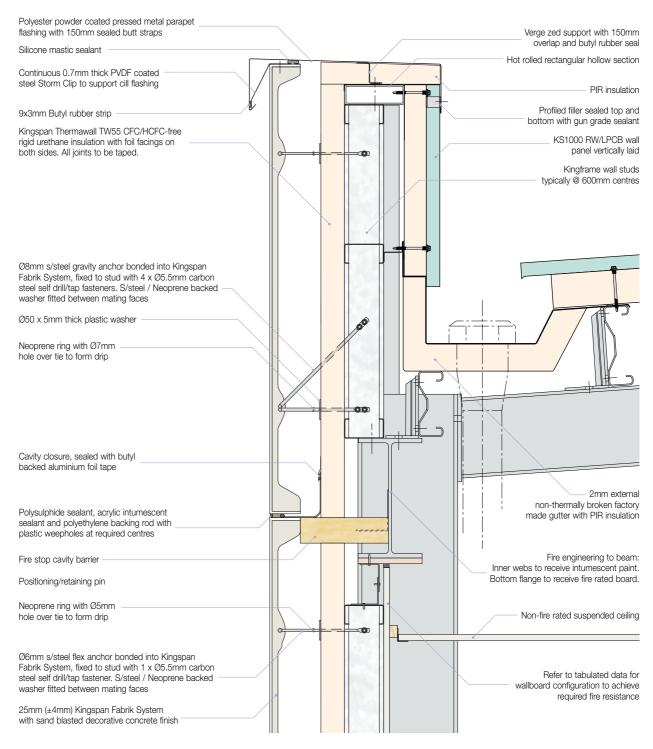




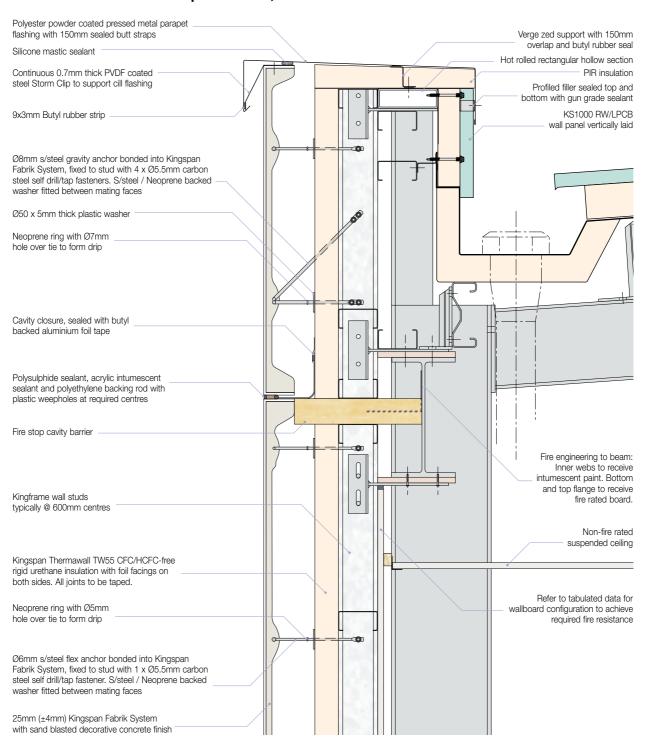


Eaves Details

Steel Recessed: Parapet Eaves, Portal Frame



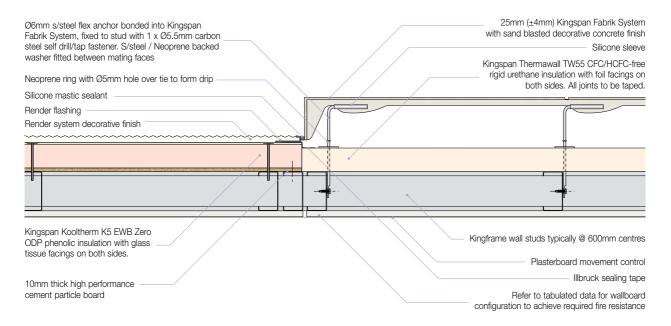
Steel Face-fixed: Parapet Eaves, Portal Frame



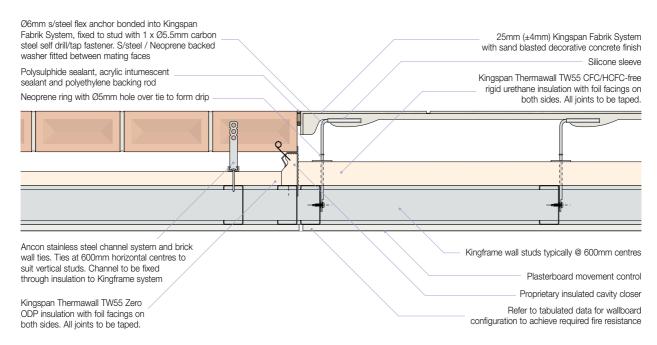


Horizontal Abutment Details

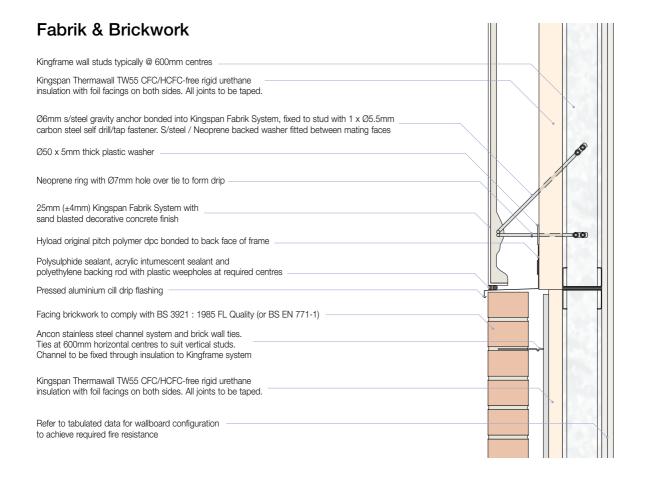
Fabrik & Recessed Direct Insulated Render



Fabrik & Brickwork

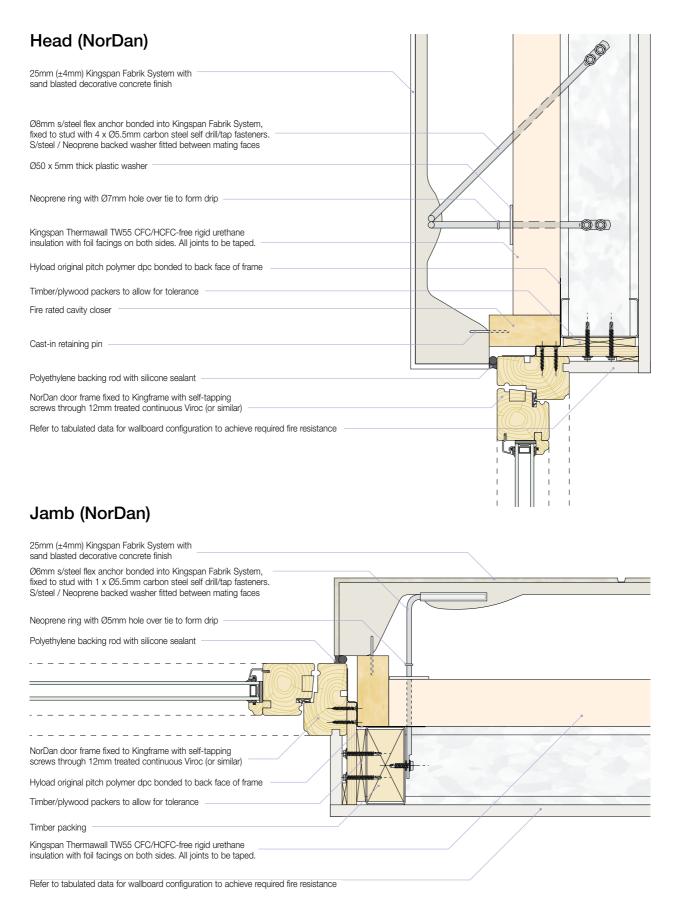


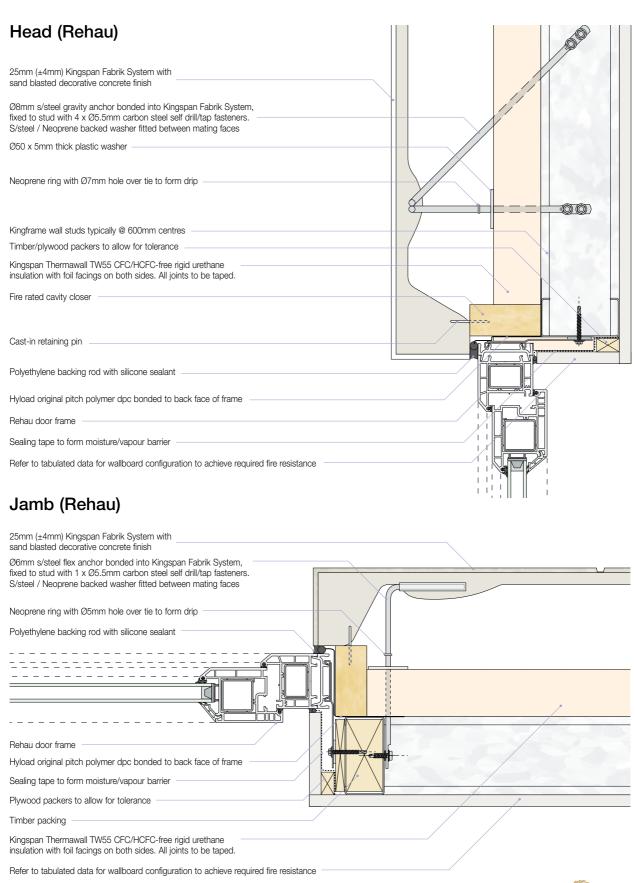
Vertical Abutment Detail





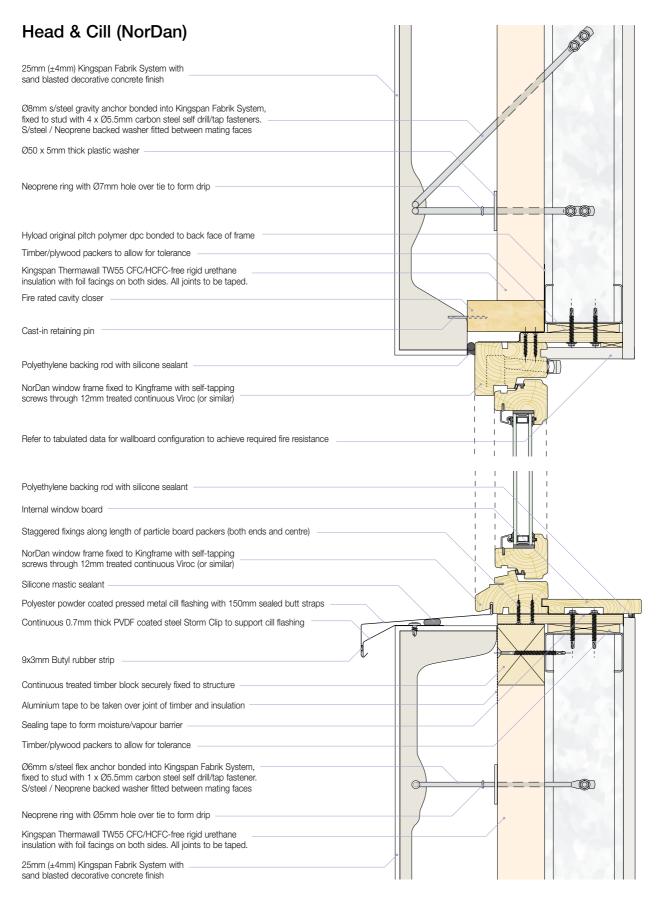
Door Details



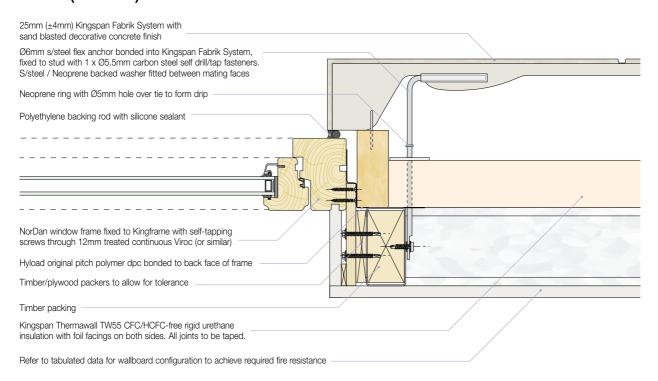




Window Details

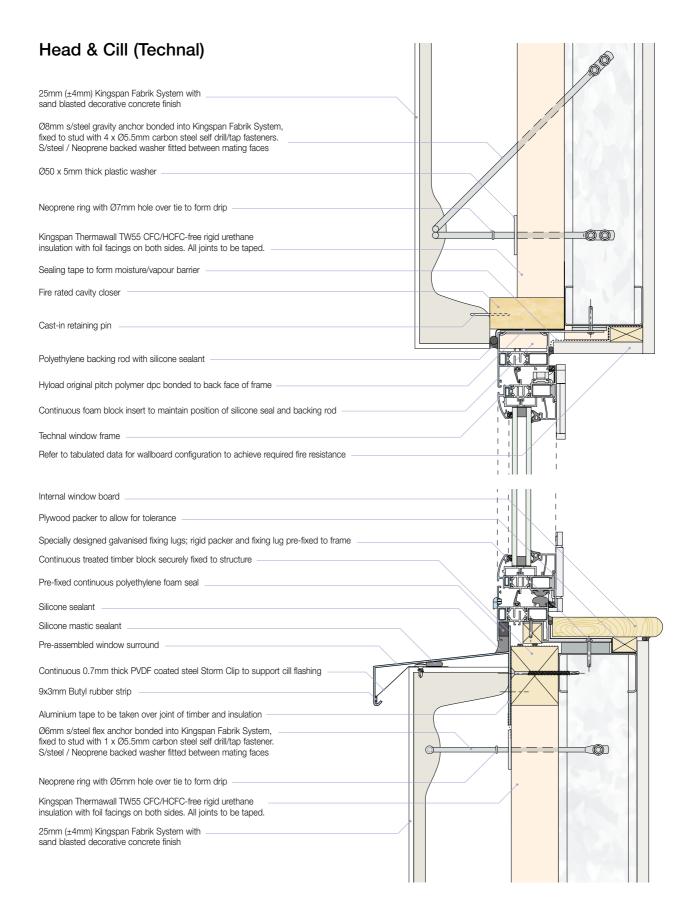


Jamb (NorDan)

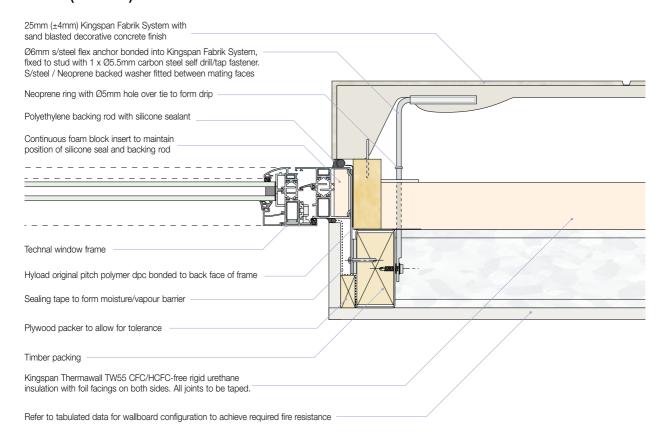




Window Details

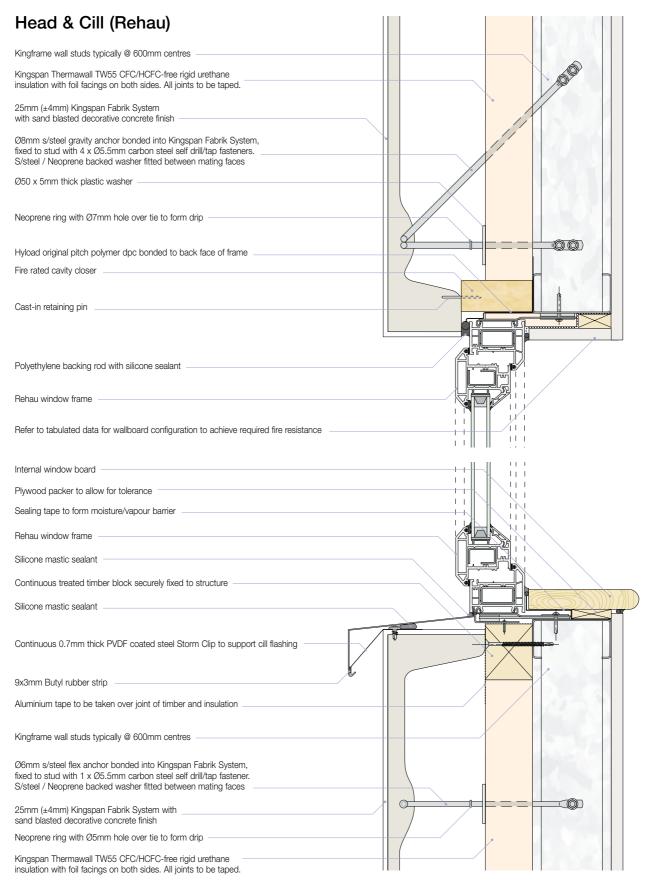


Jamb (Technal)

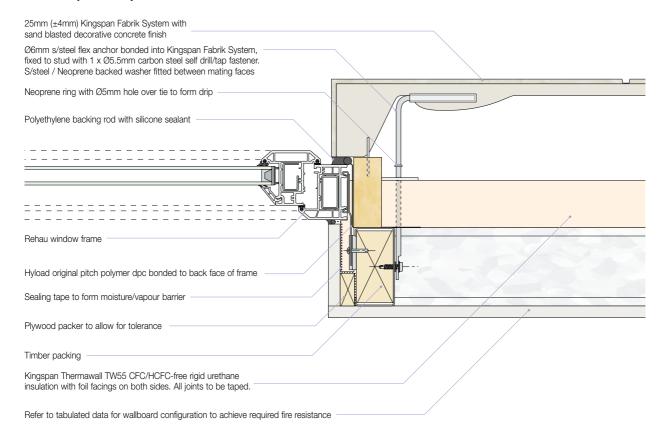




Window Details

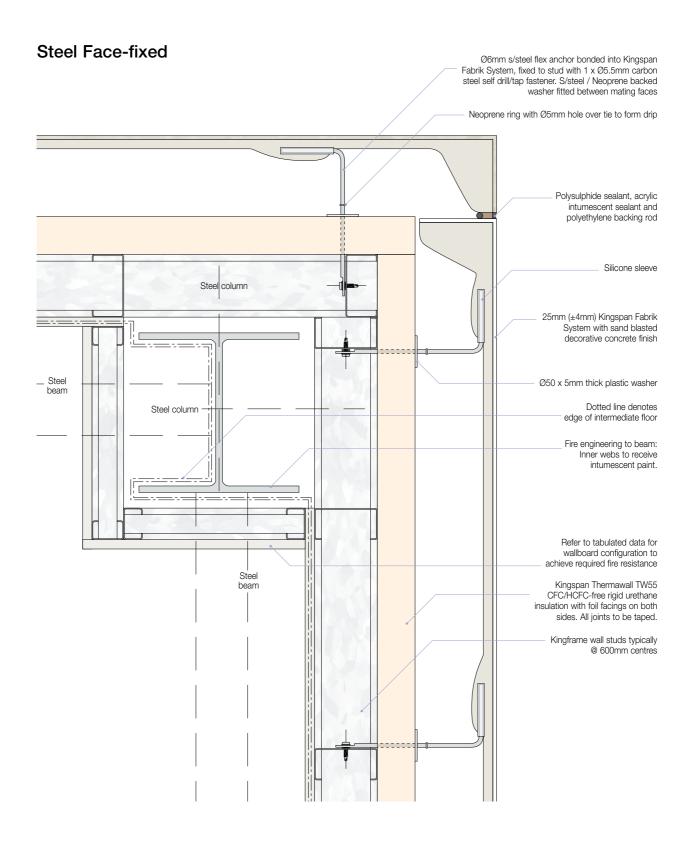


Jamb (Rehau)





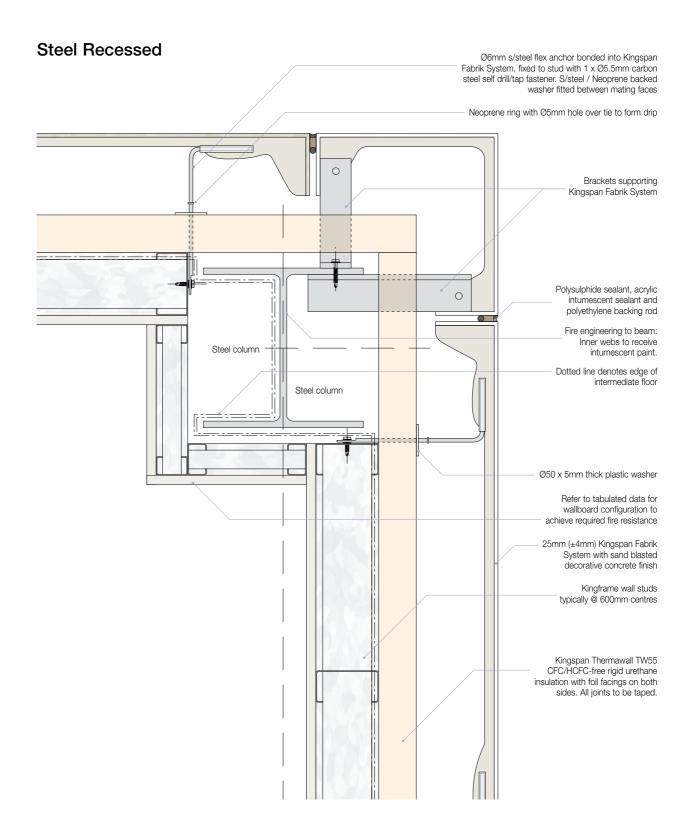
External Corner Details

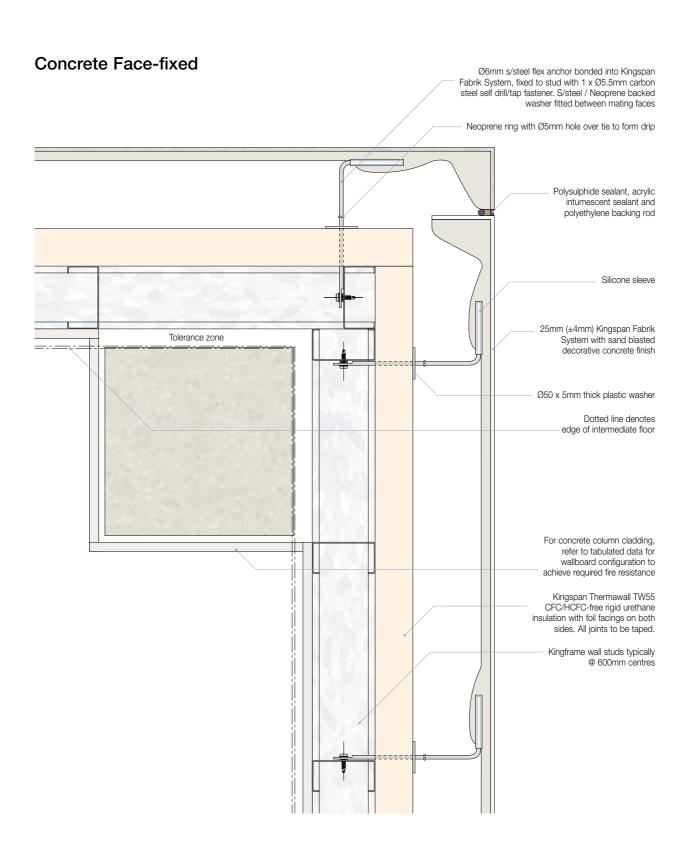






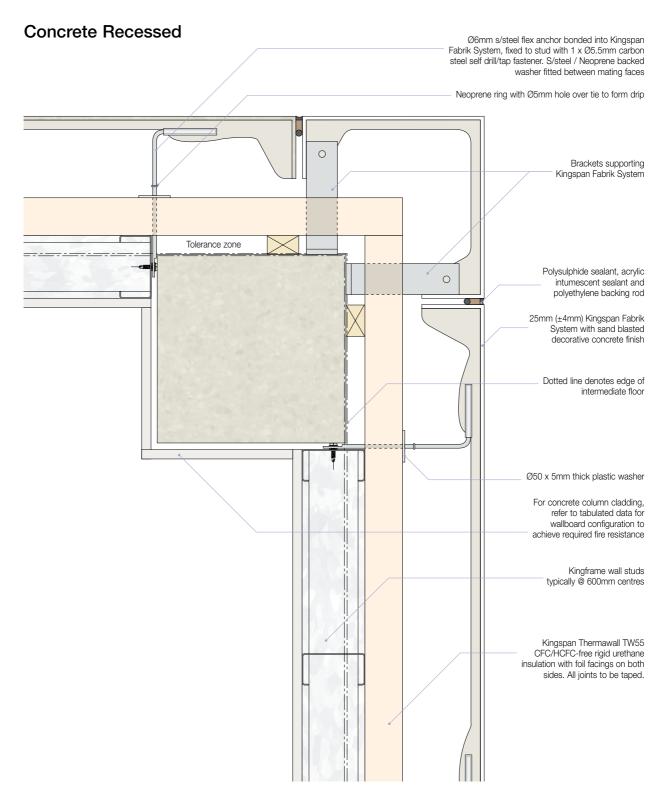
External Corner Details



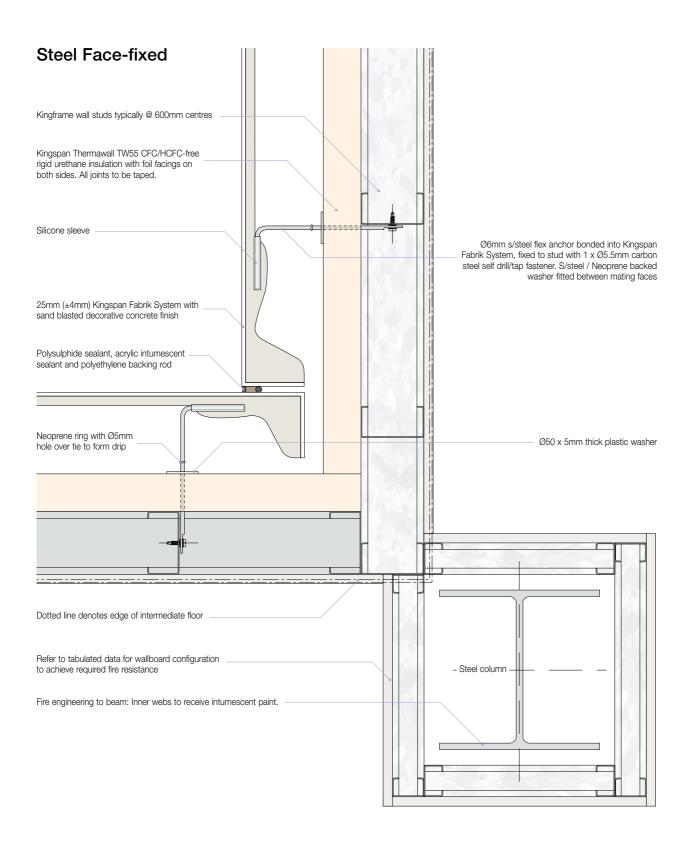




External Corner Details

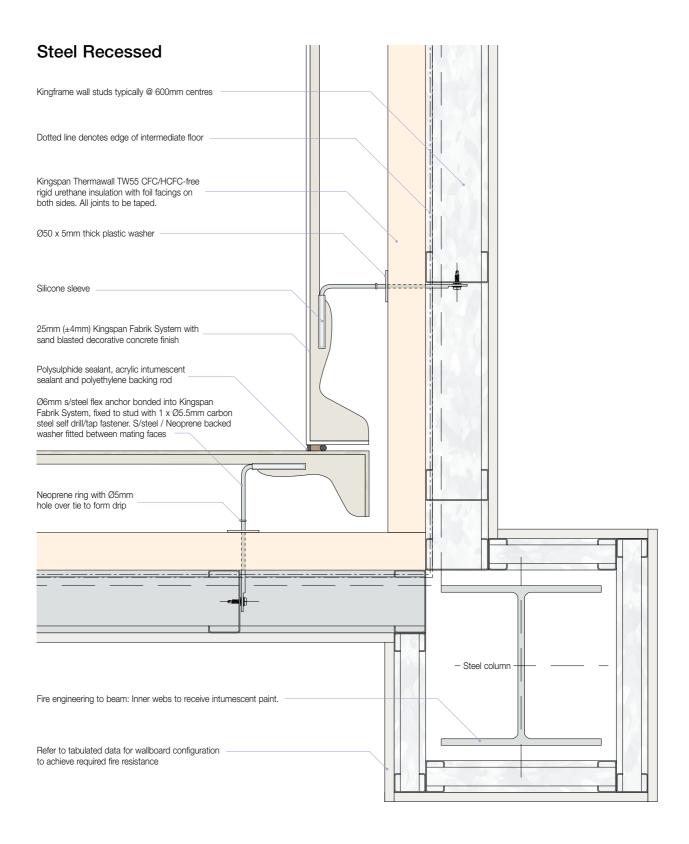


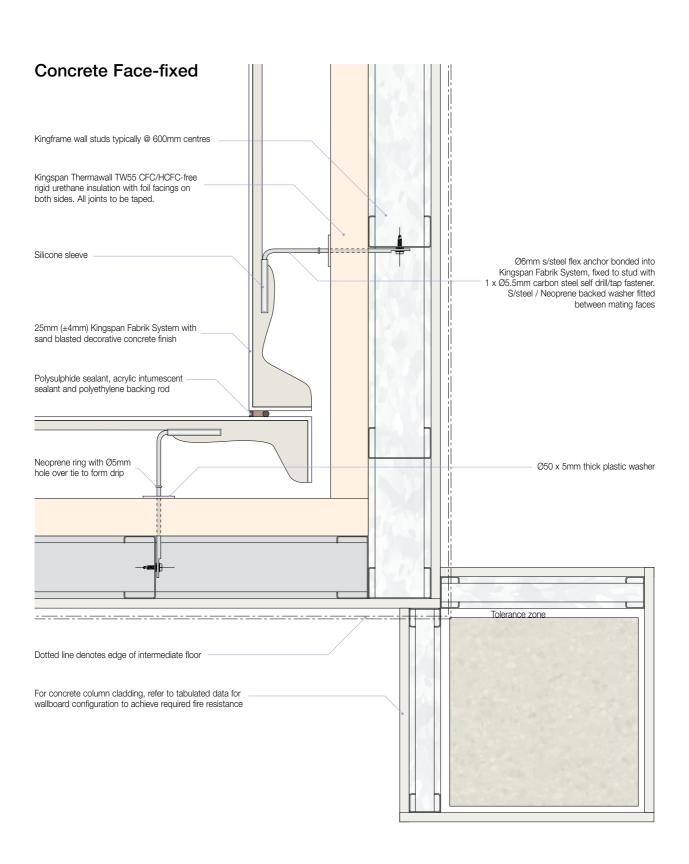
Internal Corner Details





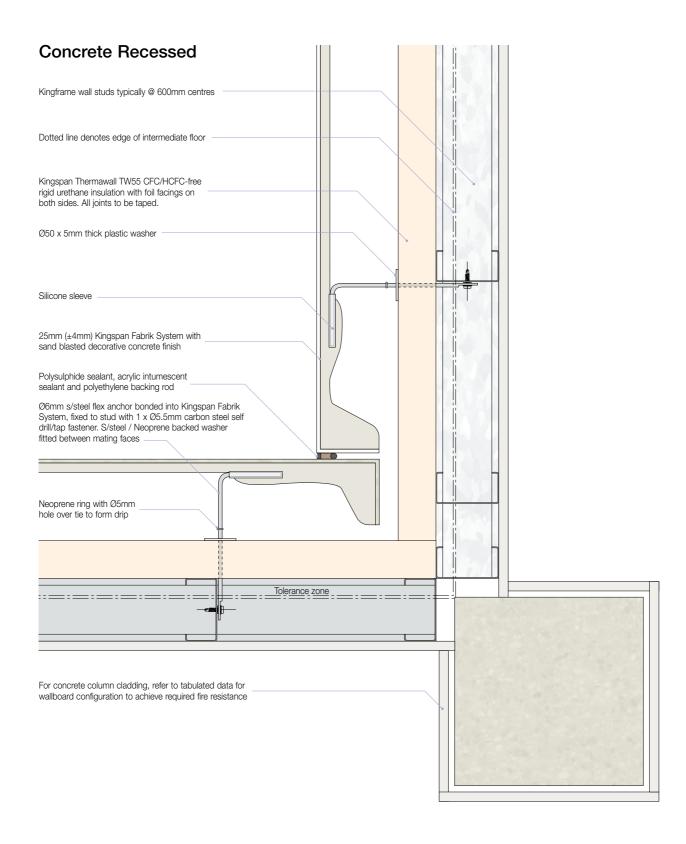
Internal Corner Details

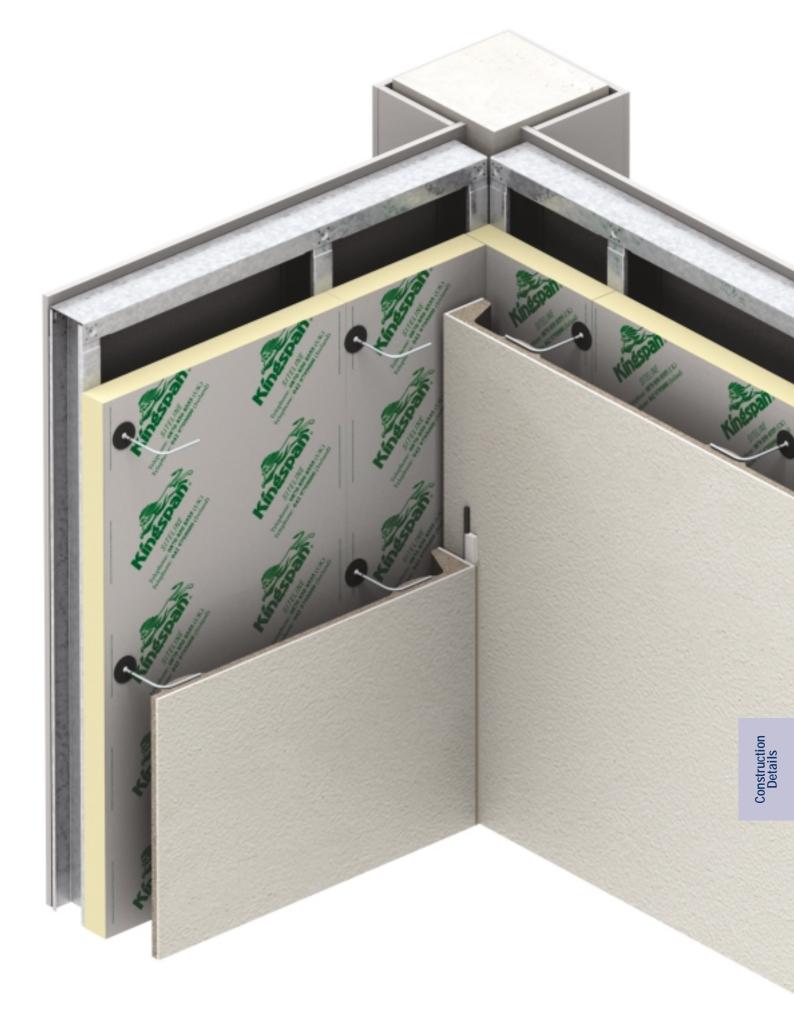






Internal Corner Details







Delivery & Site Installation

Site Delivery

Kingspan Fabrik provides a site delivery service using low-loading trailers, that incorporate racking, that allow vertical transportation of the unitised assemblies.





This facilitates immediate off-loading, location and connection of the units on to the building mainframe in a single operation. Safety tested and approved factory-fitted lifting eyes are attached to the unitised frames.

An additional benefit of this type of delivery is the elimination of packaging materials, making this a sustainable, 'zero-waste' method.

Site Installation

Fabrik use a network of Approved Installers, who are responsible for the site installation of the delivered unitised assemblies.

These Approved Installers, are fully trained and supported by Fabrik to ensure consistent high standards of performance, site safety and installation.

Site Installation Method Statements are developed on a project specific basis in co-operation with the client and the design and construction teams.







Kingspan Off-Site Product Range

Fabrik Facade Systems



Residential



Retail



Leisure & Hotel



Education & Healthcare

Kingframe Architectural Facade Systems



Conventional Construction



Render Systems



Ventilated Rainscreen Systems



Insulated Panel Systems

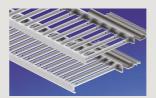
Structural & Framing Systems



Framing Sections



Wall Framing



Roof & Floor Systems



Kingframe Building System

Structural Products



Multibeam
Britain's No.1 cladding support system combining maximum

efficiency with cost effectiveness



Multideck
High performance, profiled,
galvanised steel floor decking for
use in the construction of
composite floor slabs



Multichannel
A range of pre-engineered, cold formed structural channel sections



Roof System
Innovative roof system providing
a pre-engineered solution for
over-roofing all types of flat roofs on
industrial, educational, health, leisure
and residential buildings



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