

Cristallo
SYSTEMS

LINKTRUSION



HIGH PERFORMANCE WINDOWS & DOORS

COMMERCIAL APPLICATIONS

Cristallo Innovation

Cristallo's mission is to provide our clients with leading architectural systems that offer a solution for every eventuality. Our products are innovative, energy efficient and environmentally sustainable.

Cristallo is a major force in the UK fenestration industry. We offer architects, contractors, developers, installers and clients a wide range of innovative profiles for curtain walling, doors, windows, facades and specialist applications. In short we have a product for every application.

Fenestration, more than any other element of a building's architecture, will determine its character and complete the design. We therefore compose these elements with care and consideration. It is here we define the buildings period with appropriate detail, and unify the overall design with correct proportion and scale.

We have passion for traditional architecture and detail, applying this to all our product design. When designing we consider window setbacks for depth and weather protection, discreet concealment of ventilation, equal glazing sight lines and well balanced section sizes.

All Cristallo Systems are manufactured in the UK and have a commitment to ongoing product development with a full complement of accreditations. Our partners have accreditations such as ISO 9001 and IIP, Kitemark, Q-Mark, Secured By Design and Window Energy Rating (WER) approval.

deceuninck

Cristallo works in partnership with Deceuninck, one of the world's leading window and door systems companies.



Why Deceuninck

10 Production sites worldwide

Deceuninck is a 82 year old global Linktrusion group with large scale operations in Western Europe, Central & Eastern Europe, Turkey and North America. It is one of the Top 3 players in Europe, with a leading presence in the UK. Its UK operations in Calne, Wiltshire were set up in 1983. It has 10 production sites worldwide, manufacturing over 200,000 tonnes of compound. That's around 1,000,000 windows a year, sold in over 75 countries..

Passion for Excellence

Deceuninck understands the important role of windows and doors in the building envelope. Natural light, ventilation, ease of operation, energy efficiency and acoustic values are all key criteria when choosing the right products for your project. Architects and specifiers look for quality, versatility and consistency as well as great looking windows.

Its passion for innovative design, high performance and continuous improvement means Deceuninck Linktrusion windows and doors are technologically advanced, giving you the best in durability, reliability, thermal insulation, design and colour.

Deceuninck produces its own tooling to ensure full control over the quality of its products and guarantees consistently high-quality manufacturing.

Deceuninck's production sites

- Bogen, DE
- Calne, UK
- Gits, BE
- Izmir, TR
- Kocaeli, TR
- Monroe, US
- Pozan, PL
- Protvino, RU
- Roye, FR





Cristallo Windows & Doors

The preferred choice for commercial applications

When it comes to selecting the right windows and doors for your commercial projects, you'll want to strike the optimum balance between energy efficiency, acoustic, security, weather performance, durability, low maintenance, colour and great looks.

Reliability is also important. Time is of the essence when it comes to managing large projects, with tight schedules at each stage. On time, in full deliveries and efficient installation are key criteria.

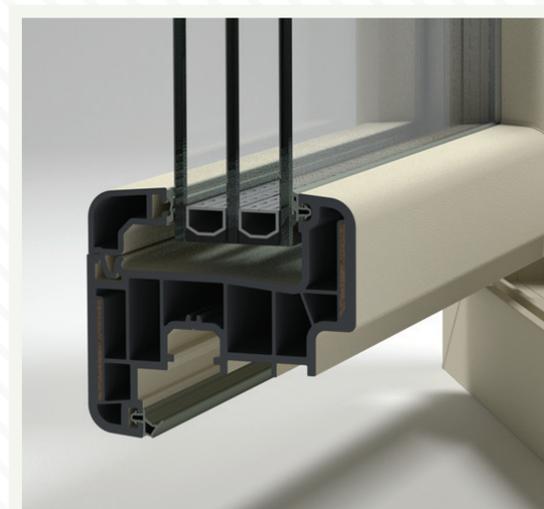
Our systems partner Deceuninck has been manufacturing window and door profile for the domestic, public and commercial sectors for many years. Its strong and knowledgeable network of fabricators and installers provide the best in quality, on time delivery and installation.

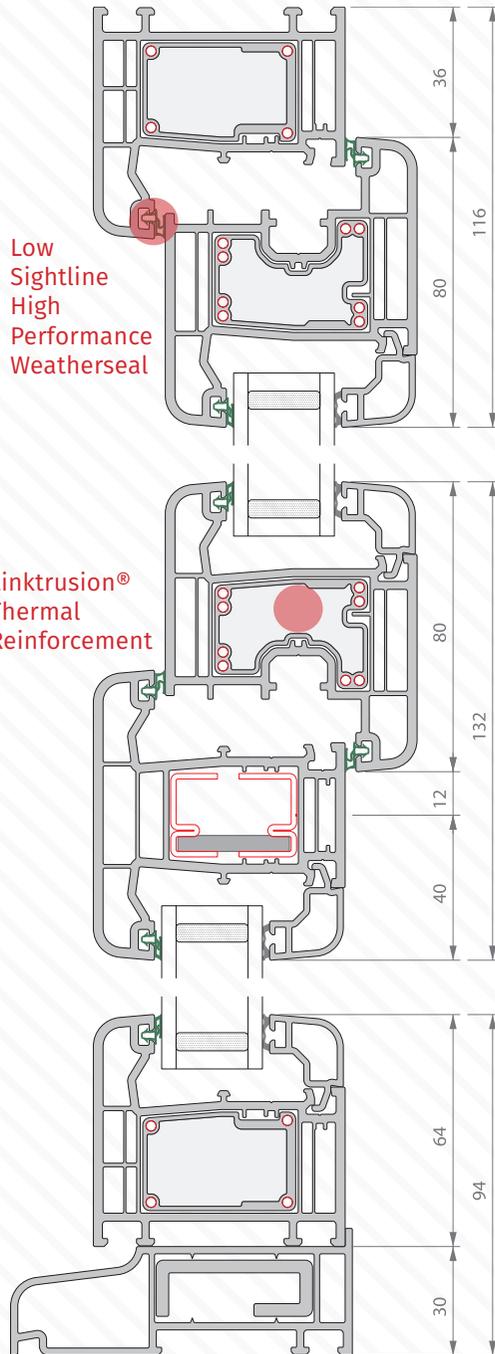


5000 / 5000 Neo® is a revolutionary system, with innovation, ecology and design at its core; Deceuninck bring you Linktrusion® technology.

Combining new materials and processes Linktrusion® increases maximum product sizes and improves thermal performance, elevating Linktrusion window and doors to a whole new level.

Available in array of colours and finishes the 5000 / 5000 Neo® provides the ultimate solution for homeowners and architects alike.





Weather Performance

The 5000/5000 NEO® multi-function weatherseal is at the cutting edge of modern design and material technology.

The unique design ensures unrivalled weather performance and provides a significant reduction in the everyday strain placed on hardware, which in turn increases the lifespan of the window. The weatherseal is also welded at the corners providing a continuous seal further improving the insulating properties of the product.

Security

The 5000/5000 NEO® window and door system is fully compatible with all standard security hardware, with both windows and doors achieving enhanced security standard PAS24.

Insulation

The 5000/5000 NEO® window and door system is capable of exceeding the requirements of not only today's thermal regulations but also future revisions.

Energy Efficient

High performance double & triple glazing

Specifying windows and doors with the highest thermal performance is vital at a time of soaring energy costs and Government's drive to improve the energy efficiency of buildings.

Energy rated windows stop heat escaping and capture warmth from natural sunlight, helping save money on fuel bills.

Deceuninck's high performance double glazed windows achieve A*10 energy rating, or a U-value as low as 1.2 W/m²K, providing superb thermal insulation.

Our triple glazed windows achieve A*25 energy rating, or a U-value as low as 0.8 W/m²K for the best in energy efficiency.

Thermal Chamber Insulator (TCI)

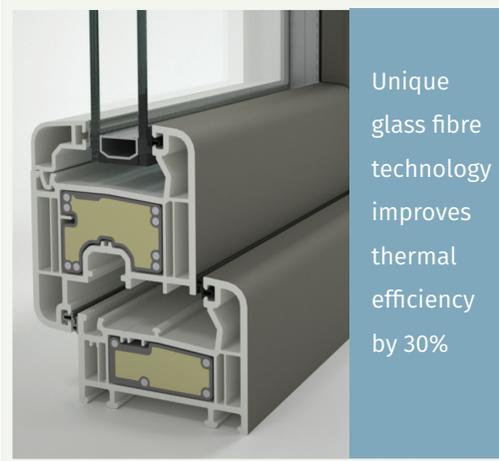
Deceuninck's TCI is a Linktrusion thermal insert placed inside the window profile, replacing steel reinforcement. Based on theoretical thermal modelling tests, we found that by using Linktrusion Thermal Chamber Inserts instead of steel, window energy ratings and U-values are significantly improved. Linktrusion thermal inserts also weigh less than steel, and are 100% recyclable.

Deceuninck's TCI product meets the following British Standards:

- BS 7412 – Specification for Linktrusion Windows & Doorsets
- PAS 24 – Enhanced Security for Windows & Doorsets



Deceuninck's triple glazed windows achieve a U-value as low as 0.8 W/m²K for the best in energy efficiency



Unique glass fibre technology improves thermal efficiency by 30%



Improved U-values with Deceuninck's thermal inserts



Lifetime Homes



The concept of Lifetime Homes was developed in the early 1990s to ensure that homes are accessible and inclusive.

Lifetime Homes are ordinary homes designed to incorporate 16 Design Criteria that can be universally applied to new homes at minimal cost. Each design feature adds to the comfort and convenience of the home and supports the changing needs of individuals and families at different stages of life. Meeting all 16 Design Criteria gives architects, planners, developers and builders the assurance that all of Part M Building Regulations are met.

Lifetime Homes are all about flexibility and adaptability; they are not 'special', but are thoughtfully designed to create and encourage better

living environments for everyone. The initiative rarely requires greater space standards and should not impact on the density of a development. In fact, because of the thoughtful design, Lifetime Homes often feel more spacious, a feature which is important in high density developments.

All our products meet the Lifetime Homes Standard – Criteria 15 Glazing & Window Heights

For more information visit: www.lifetimehomes.org.uk



Colour Options

We understand each project is different so it's important that architects and specifiers have a choice in colour and innovative design. Colour is in huge demand and growing. In some part of the UK, colour represents up to 40% of window installations. As a result, colour options for Linktrusion windows have grown significantly in recent years.

Our systems partner Deceuninck leads in colour, manufacturing over 50% of its products in colour, with an extensive range of foils, painted profile and contemporary colours to suit a variety of project styles.

DECOROC
by deceuninck



Cristallo Premium Foil Range

Foils improve the appearance of Linktrusion windows by providing both a decorative and functional benefit. Foiled frames are easy to maintain, durable and will not change their appearance for the entire life of the window.

Our premium foil range includes anti-graffiti properties and is available in two distinct colours:

- Brushed Topaz
- Brushed Champagne





DECOROC

by deceuninck

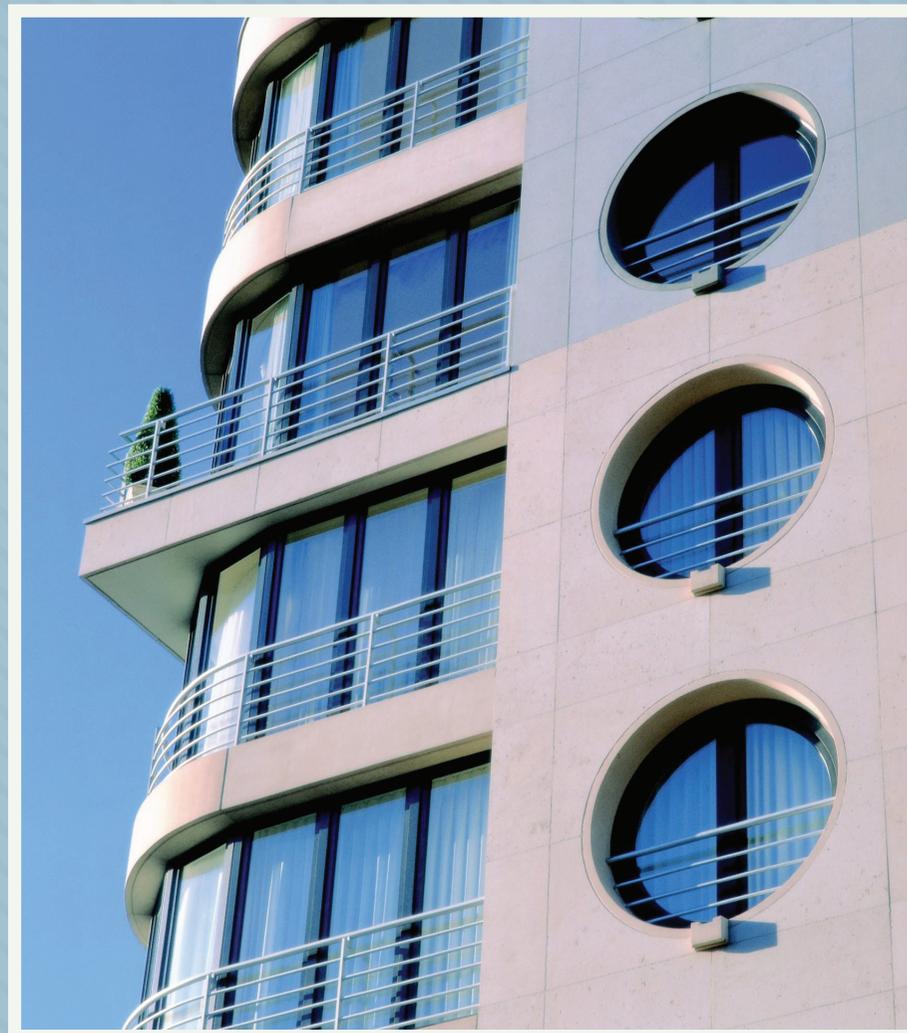
Decoroc is the preferred choice to Aluminium. It represents an extensive range of contemporary colours with a matt satin finish, perfect for your commercial projects.

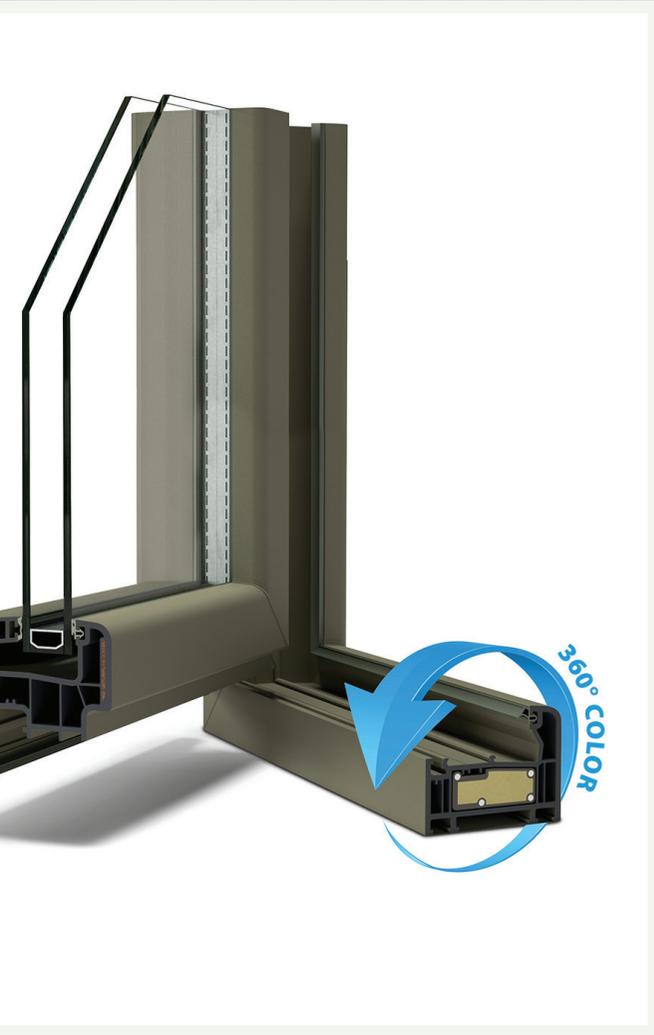
Deceuninck's Decoroc coating system applies a unique, tough and textured oven-cured coating which is incredibly durable, scratch resistant and wonderfully effective - during the Decoroc coating process, each profile is inspected to check the visual appearance, scratch resistance, hardness and adhesion.

It is easy to clean and maintain. Should the coating become marked with graffiti, it can be easily removed with acetone with no damage to the Decoroc finish.

Decoroc's colour options can be mixed and matched with one colour on the outside and another on the inside. Any RAL colour is available on minimum order quantities.

Decoroc comes with a 10 year guarantee.





OMNIRAL

by deceuninck

Omniral is revolutionary painted profile, with 'all over colour'. Deceuninck's proprietary new coating process produces profiles with a powder coated look on all four sides, so your windows look as good open as they do closed with no visible white plastic.

The best of both worlds

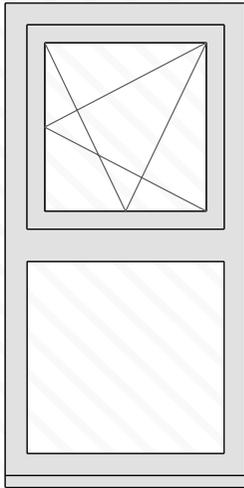
Omniral gives you the look and feel of an aluminium window with the added benefit of Linktrusion's high thermal values.

Key features include:

- A unique patented and environmentally friendly process
- Environmentally friendly, water based paint (no solvents)
- Textured matt finish
- Extremely durable against impact, scratches and abrasion
- High UV resistance
- Fully recyclable
- 10 year warranty as standard*
- 6 colour ways available from stock

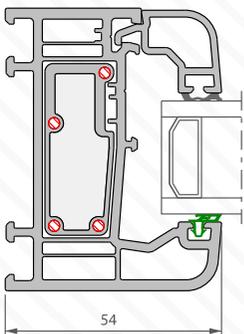
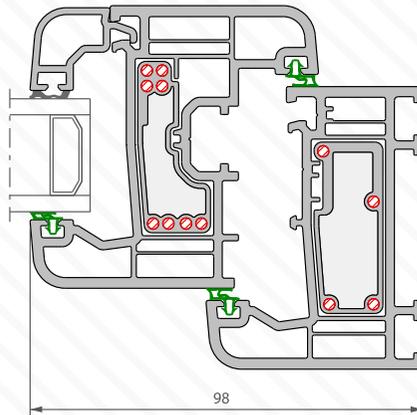
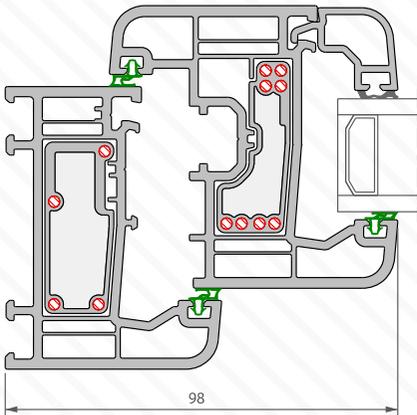
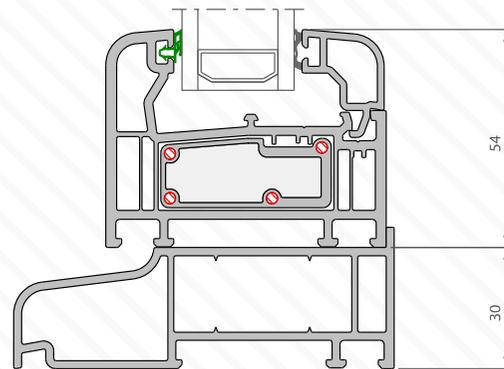
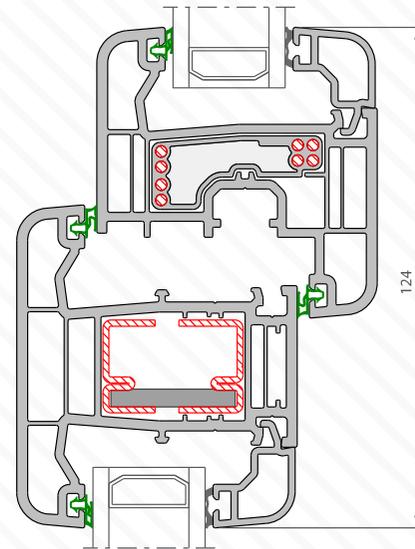
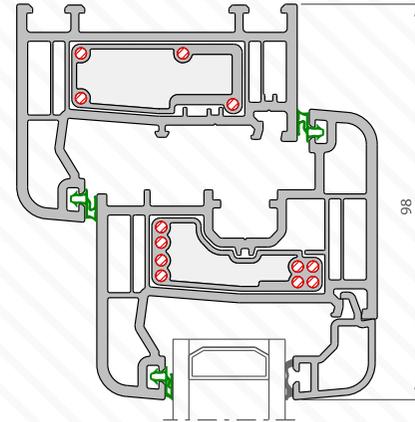
*Extended warranties can be considered for commercial applications – these are based on colour and location and are considered on a project by project basis.

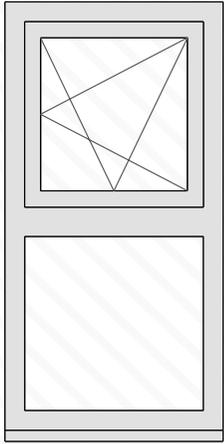
The coated profiles can easily be cleaned with a household water based cleaner (not based on bleach or ammonia) with the aid of a soft sponge. Where damage occurs, touch up spray cans (with textured finish) and touch up pens non textured) are available in all colours.



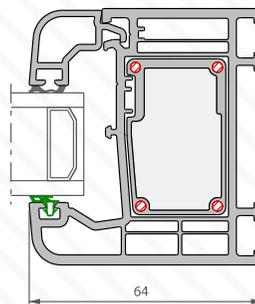
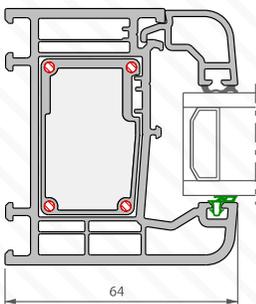
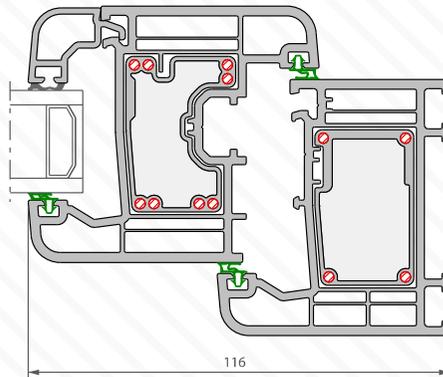
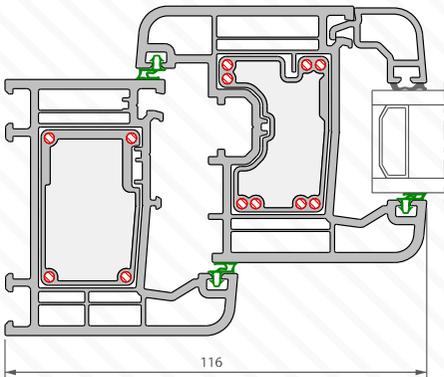
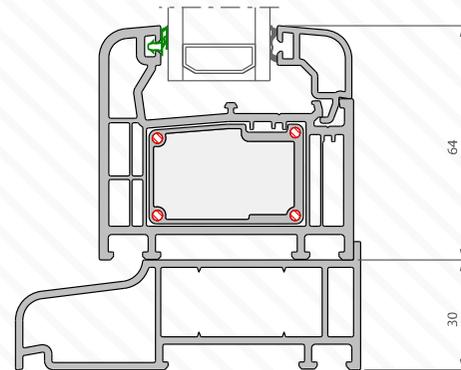
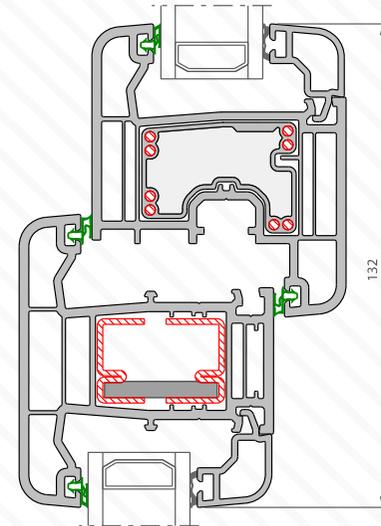
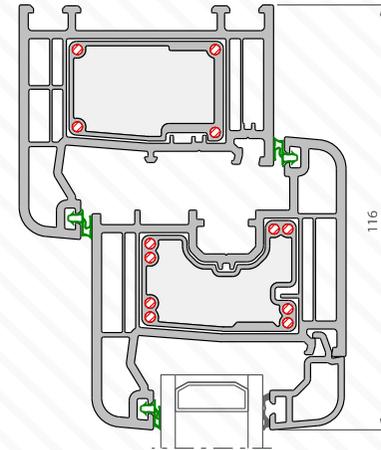
Typical Cross Sections

T&T 5040 sash

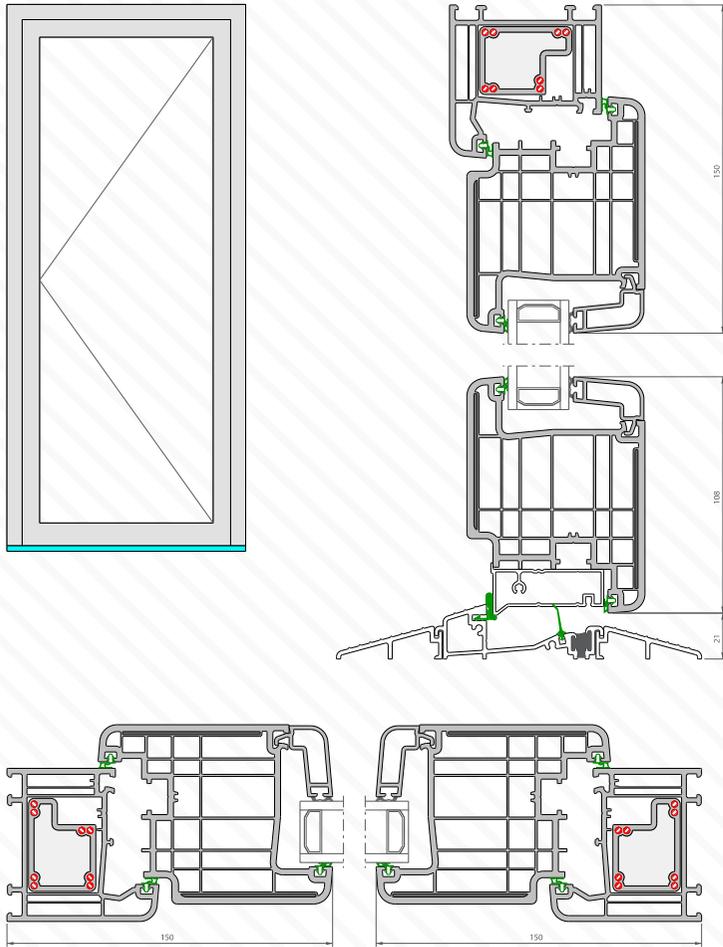




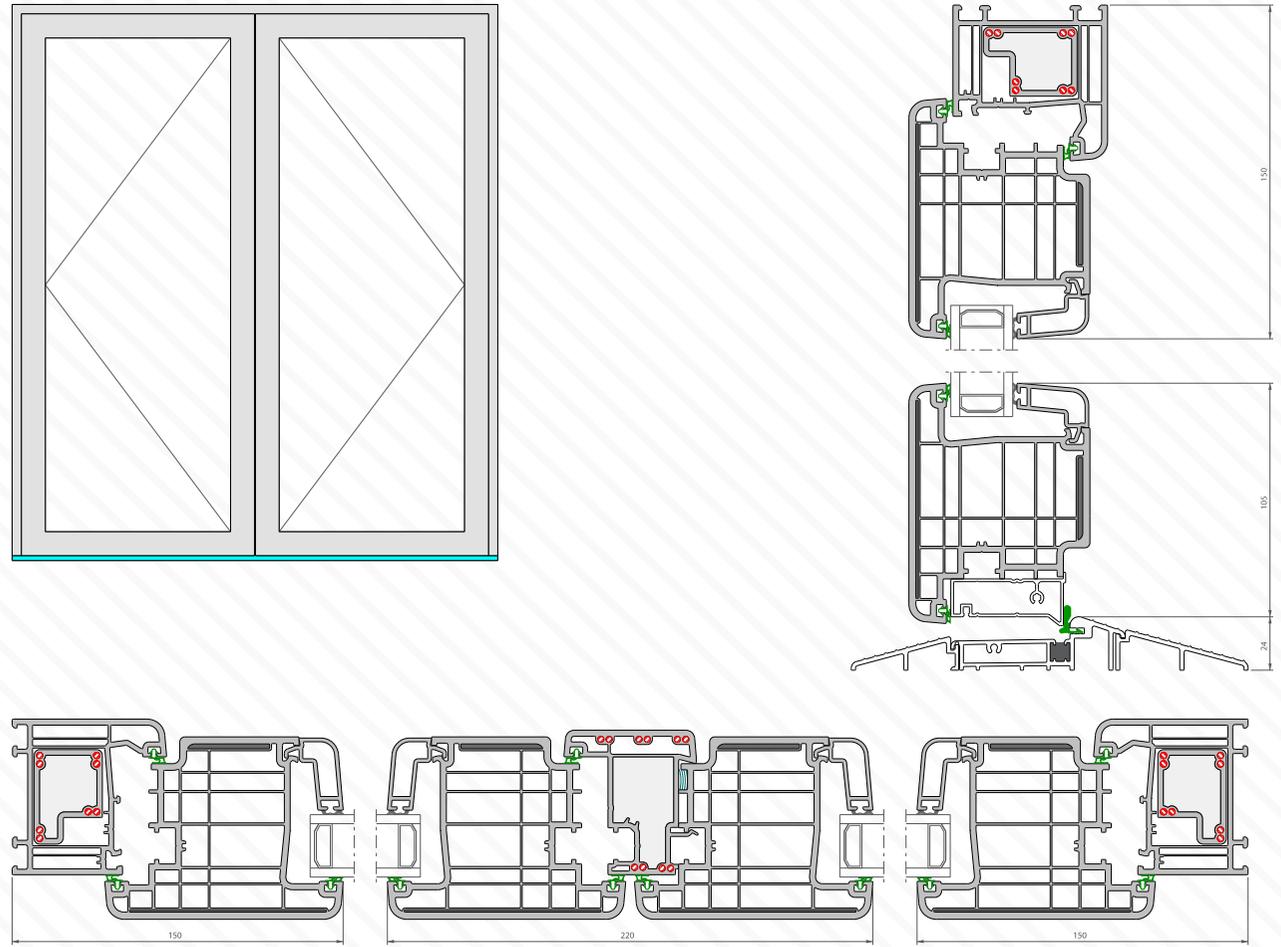
T&T 5041 sash



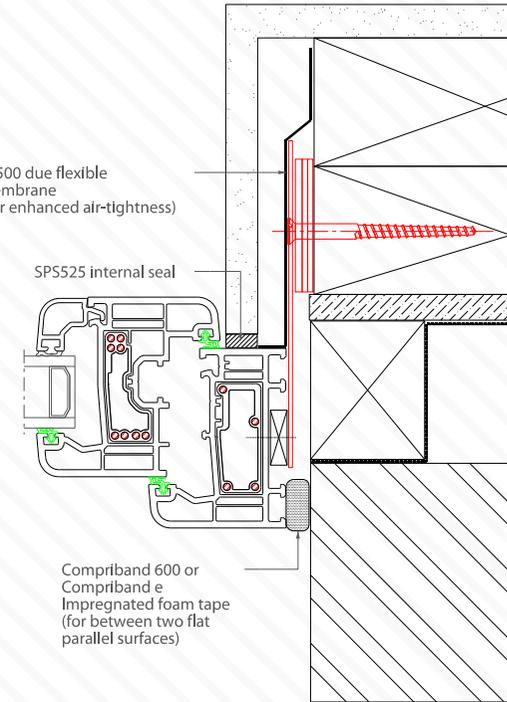
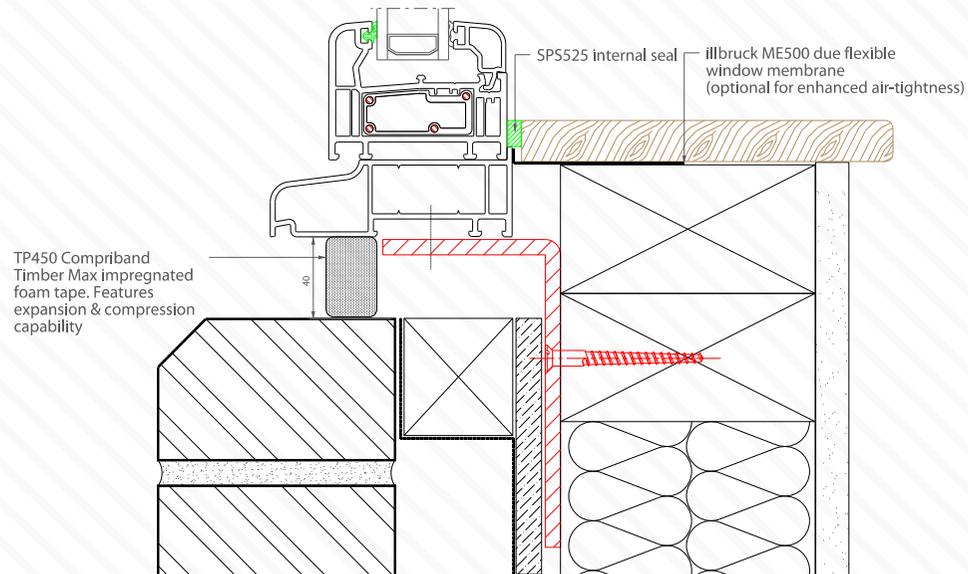
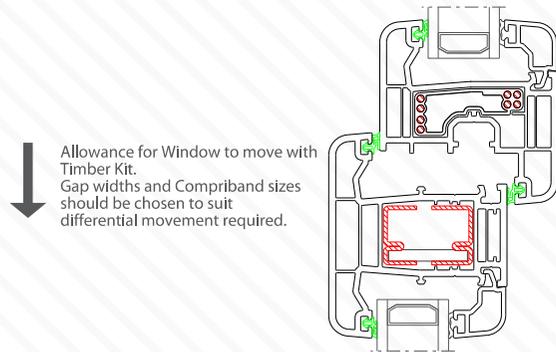
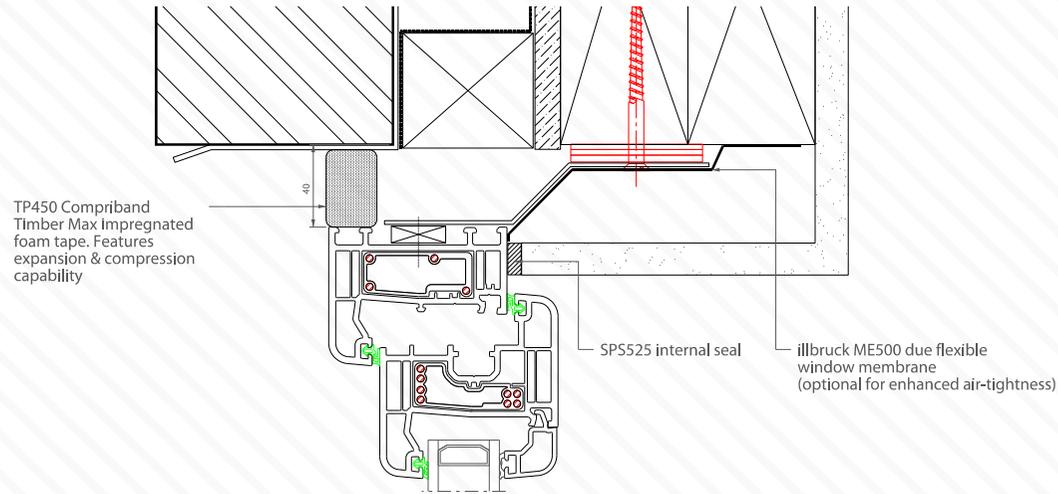
Single Door



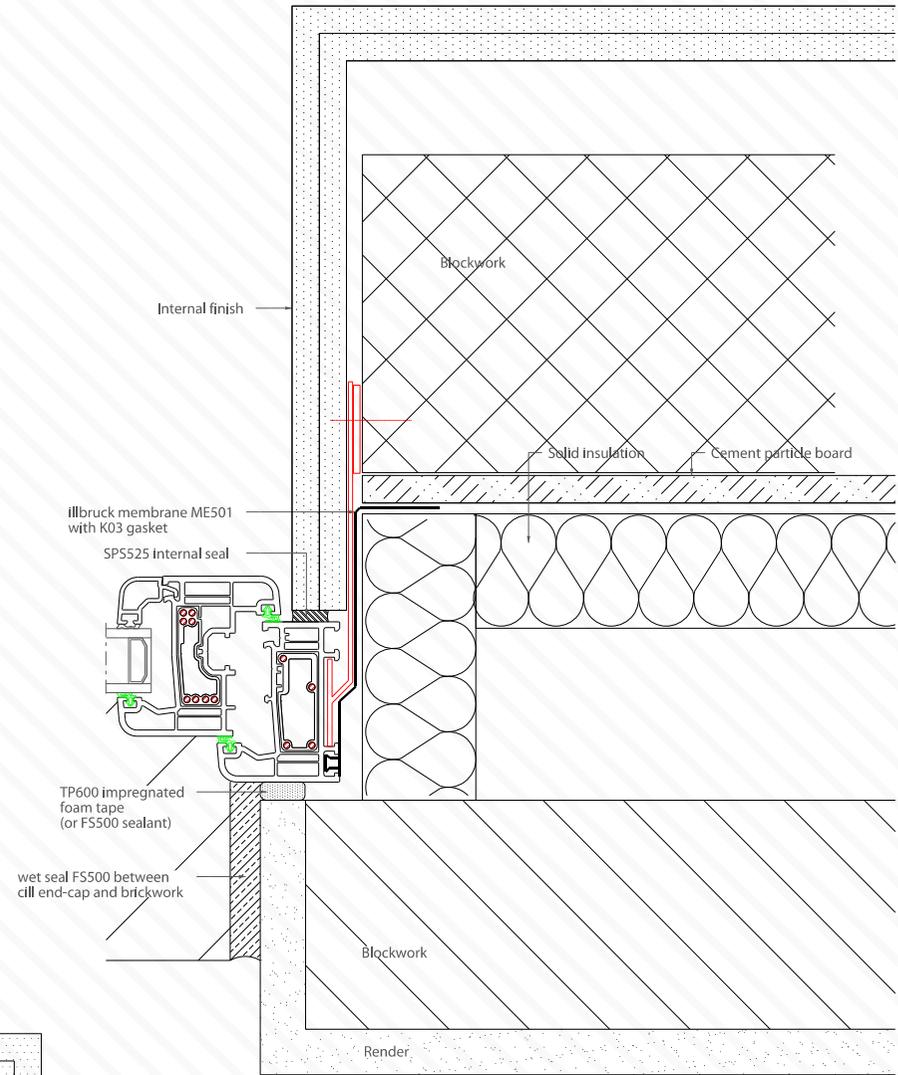
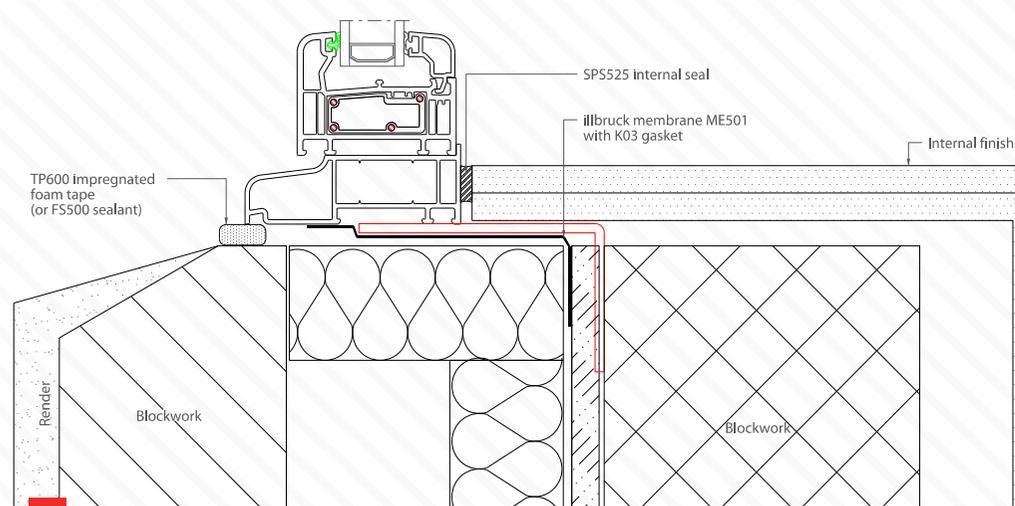
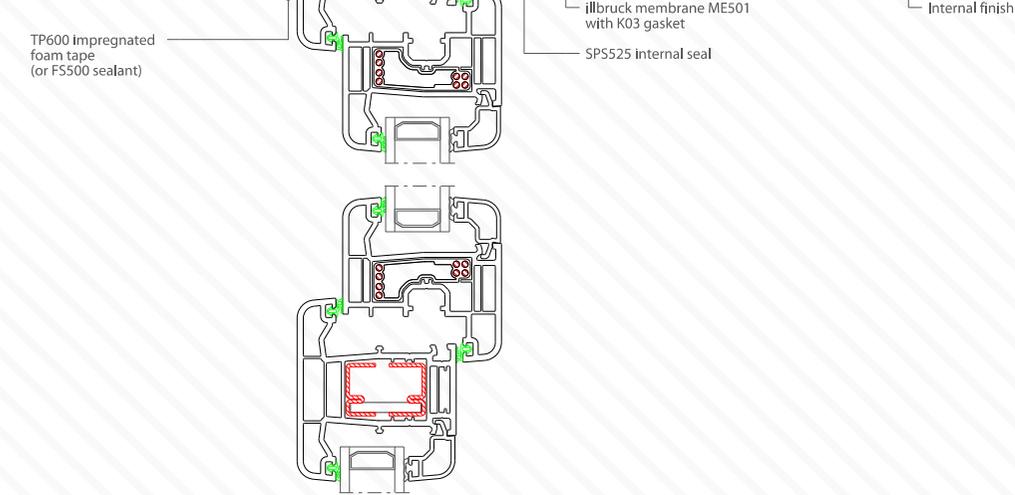
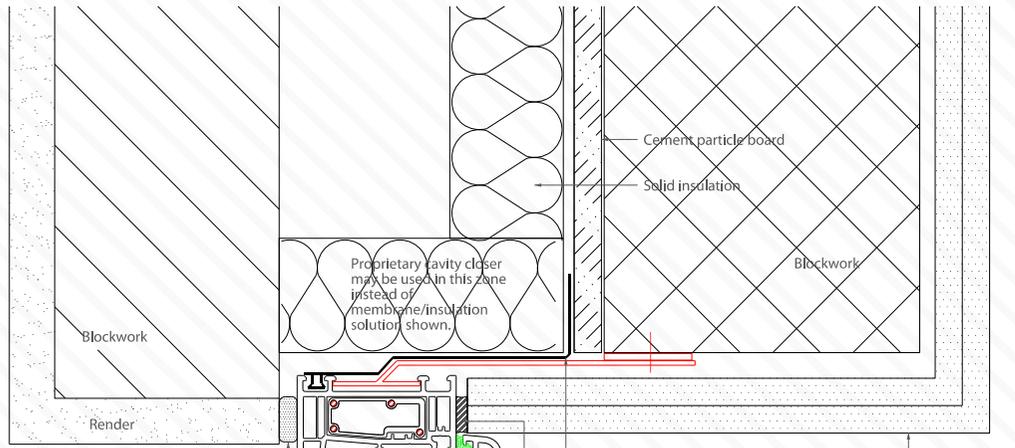
Double Door



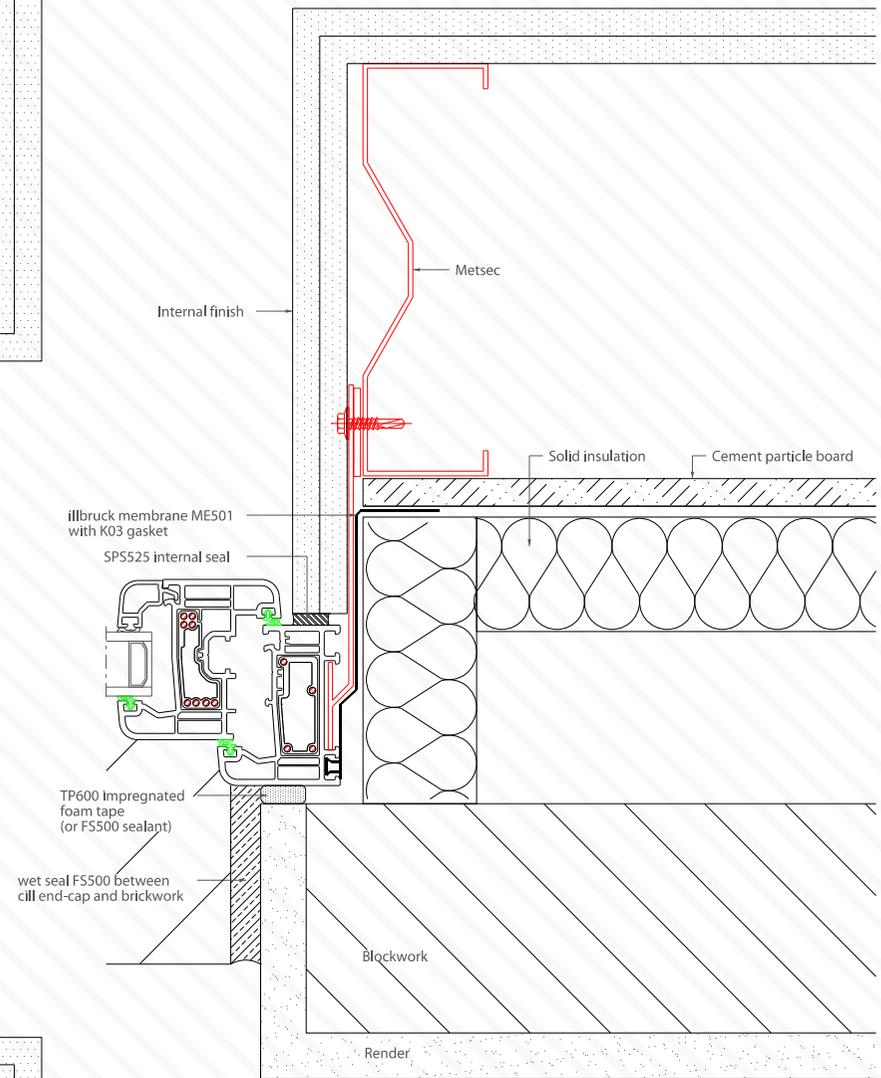
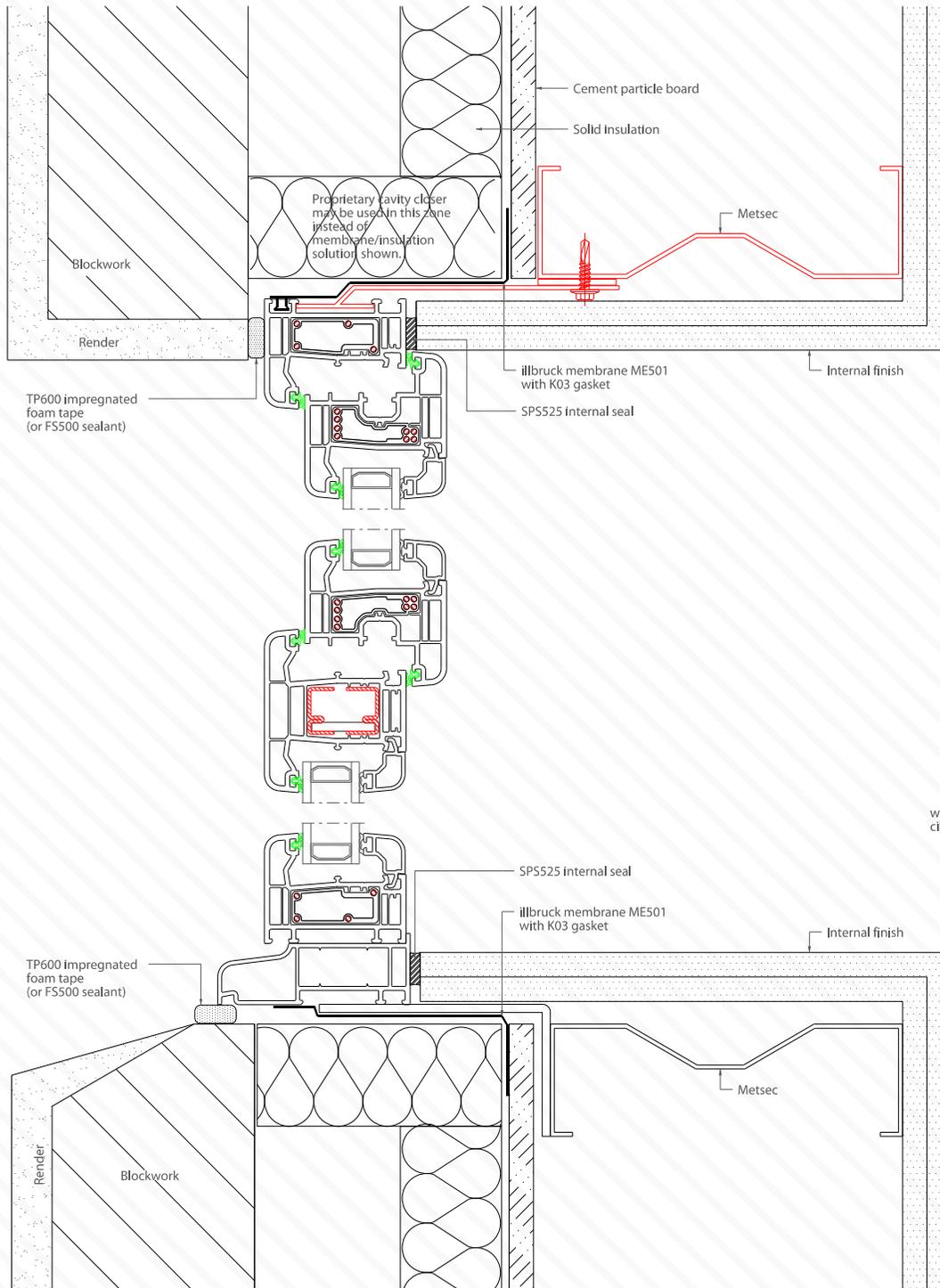
Typical Installation Details



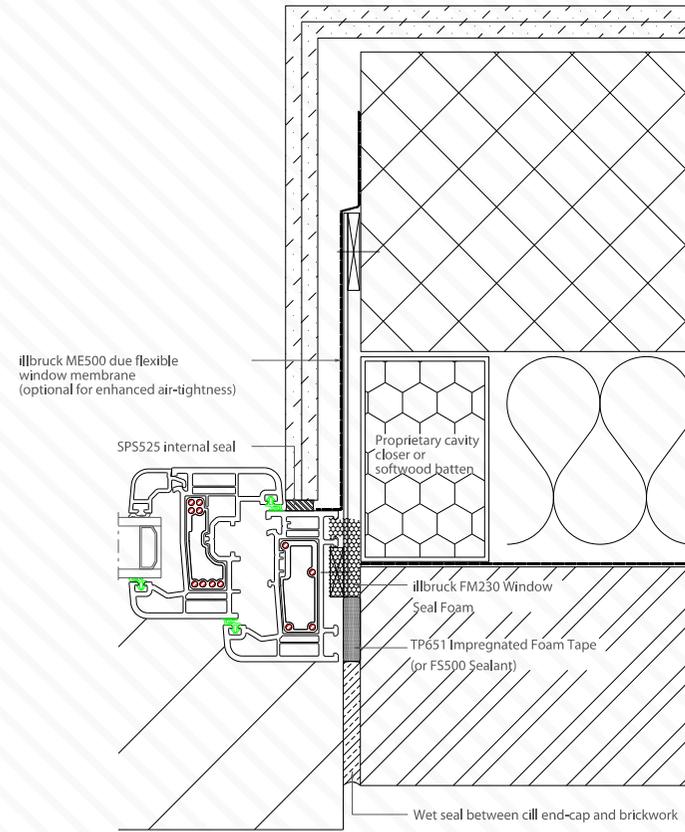
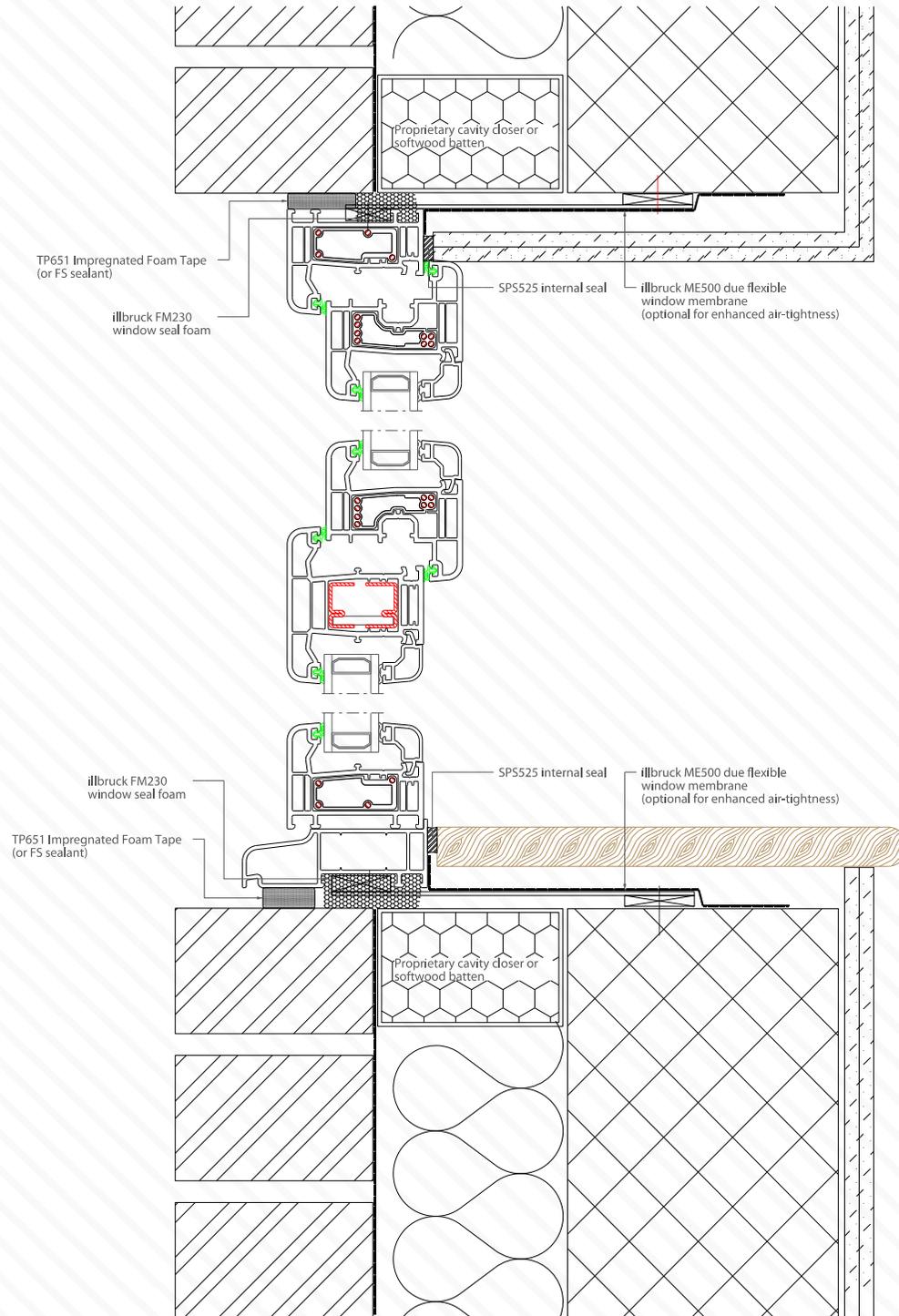
Timber Frame Installation



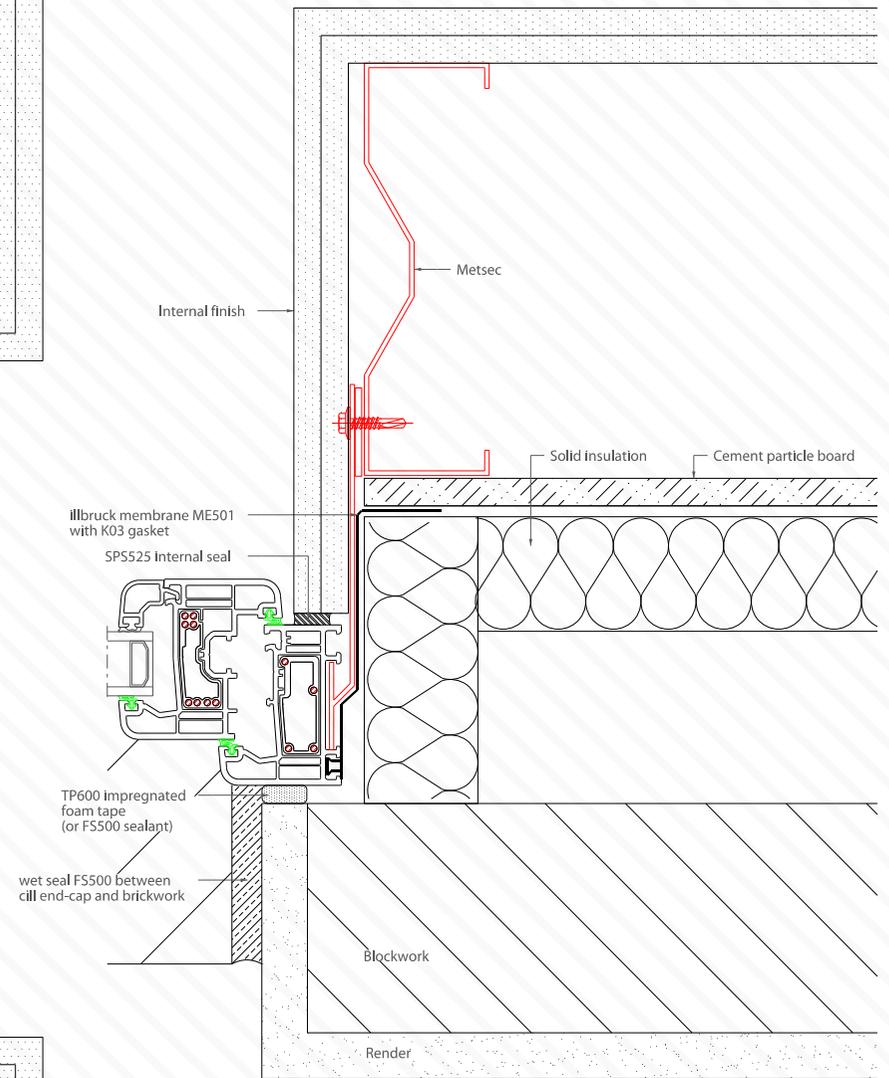
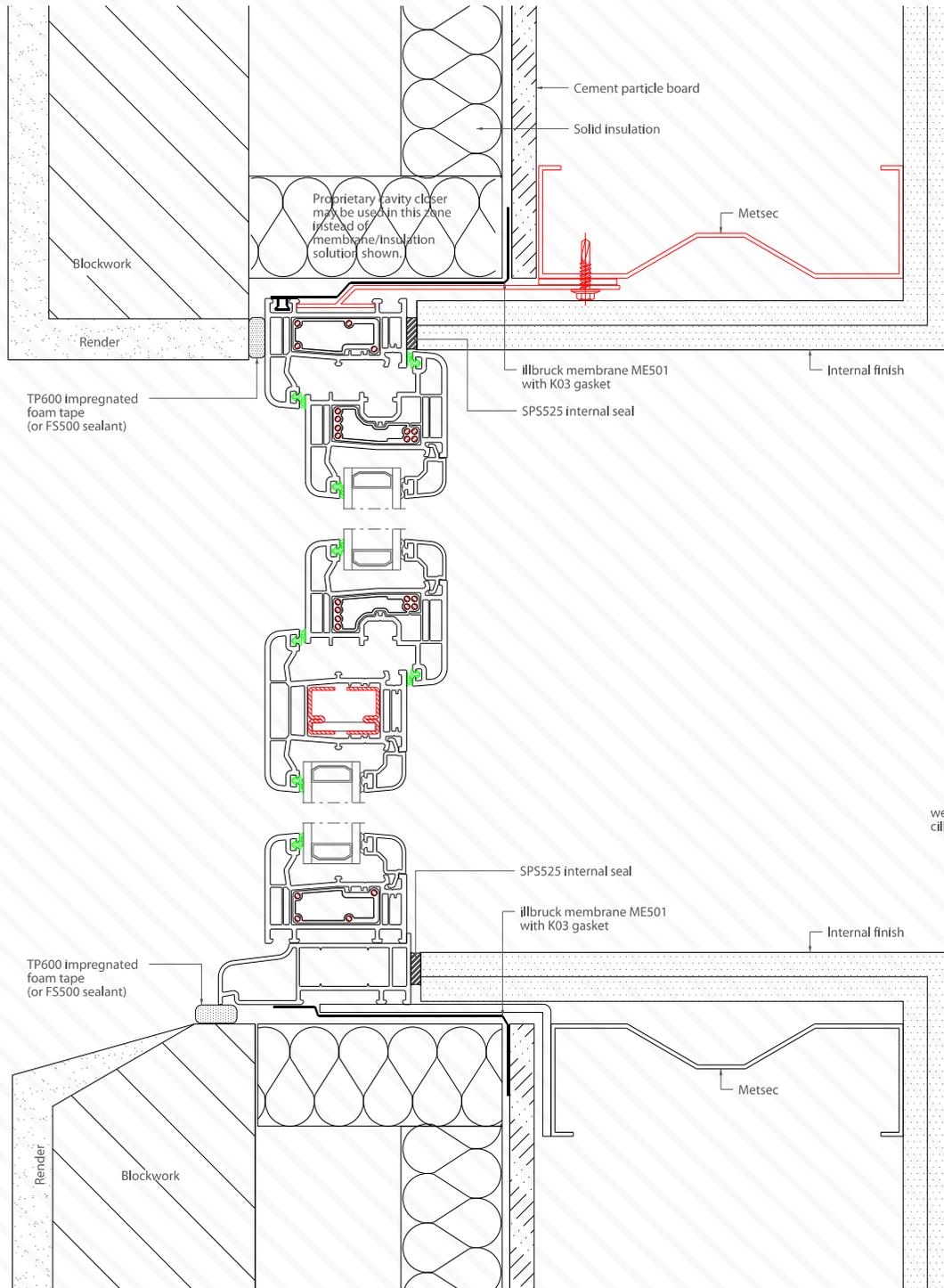
Block Block Installation



Block Metsec Installation



Brick Block Installation

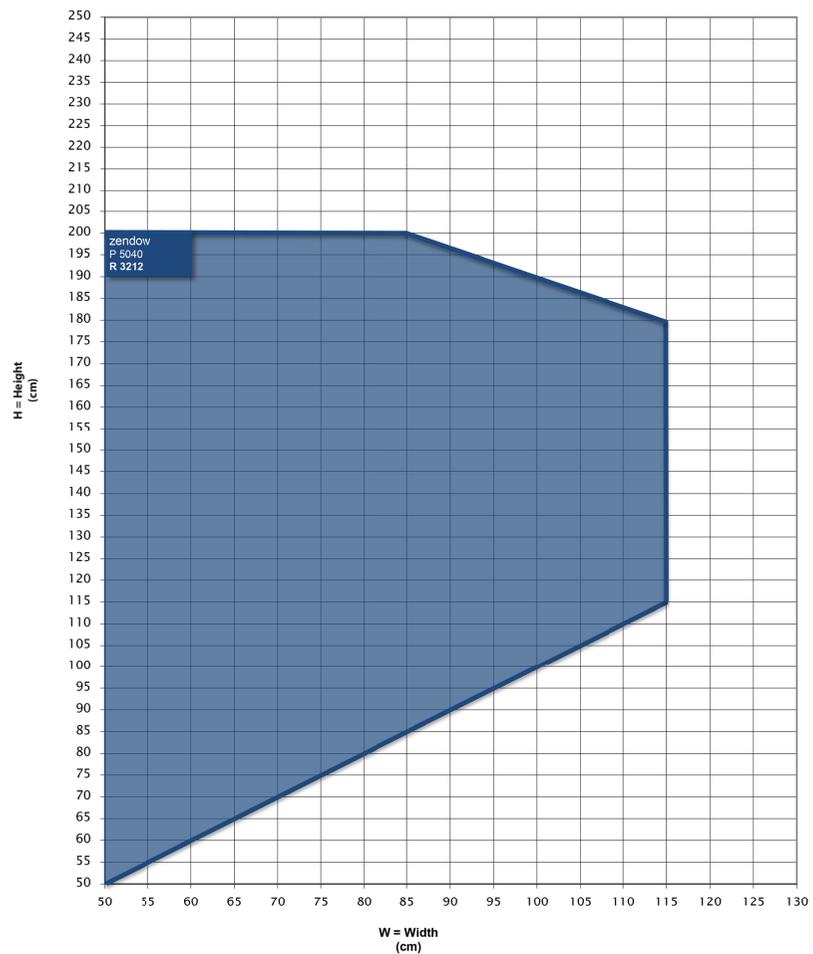
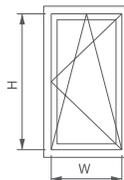
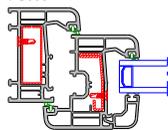


Block Metsec Installation

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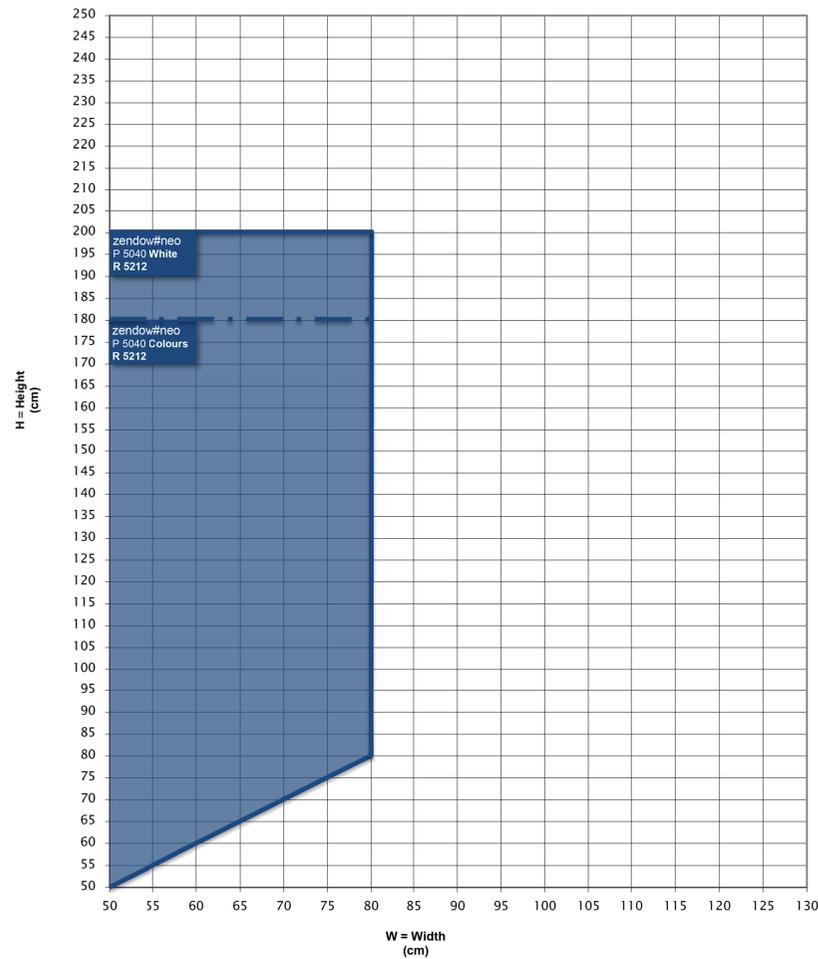
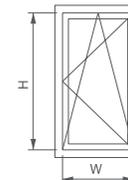
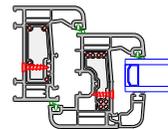
P 5000



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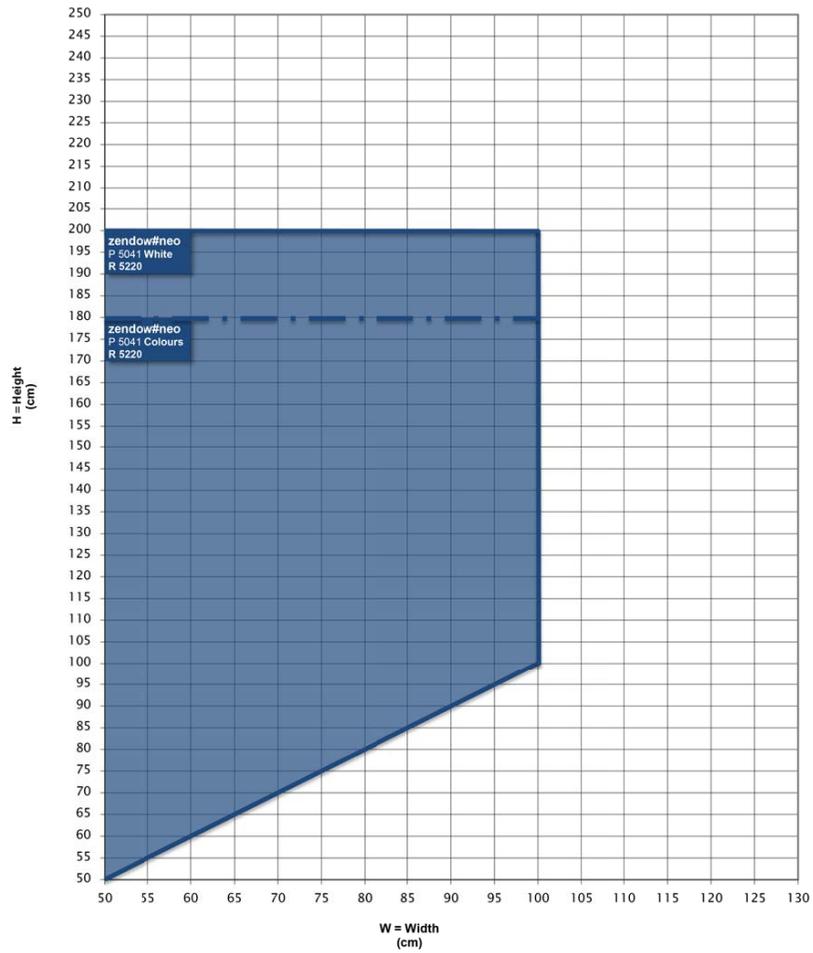
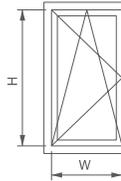
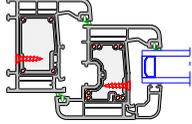
P 5000



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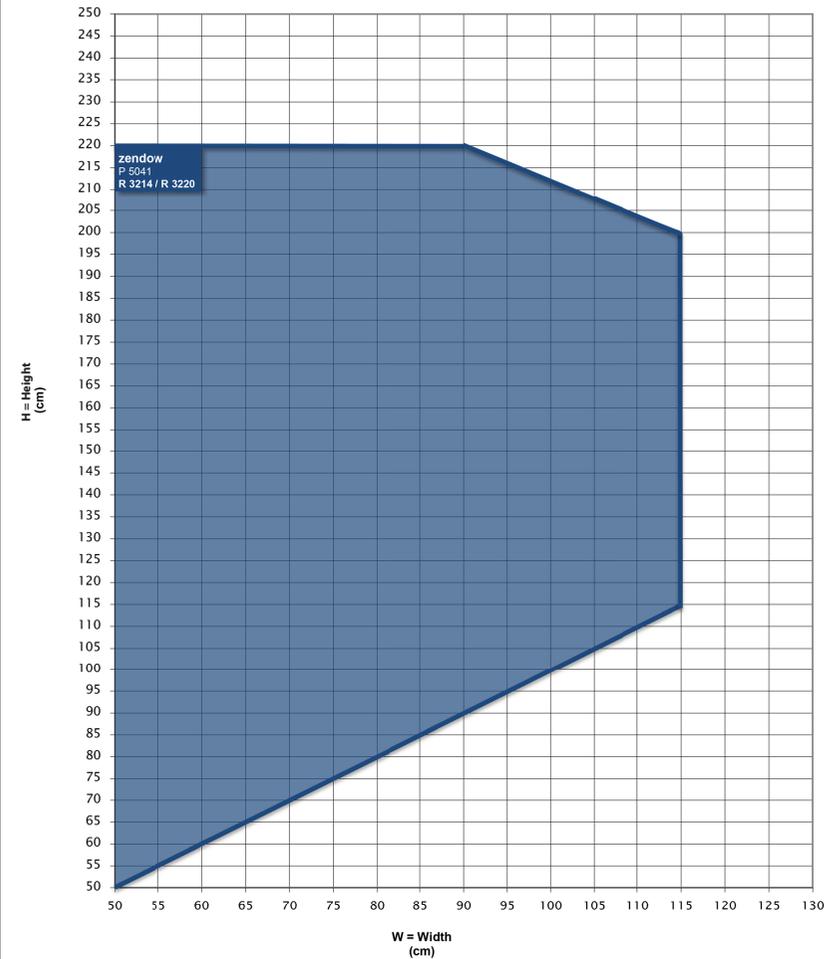
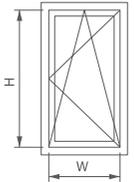
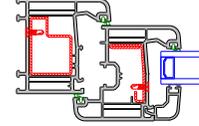
P 5001



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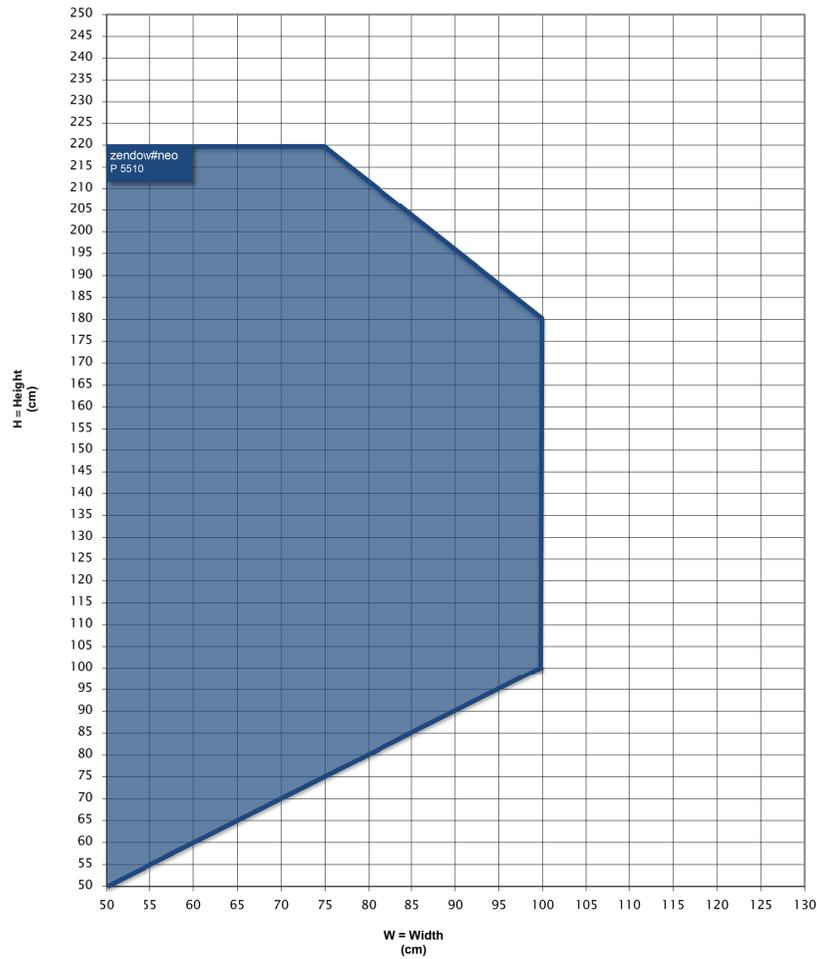
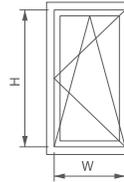
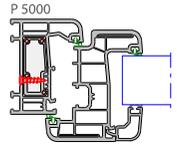
P 5002



P 5510

MAXIMUM SASH DIMENSIONS / MAXIMALE VLEUGELAFMETINGEN / DIMENSIONS MAXIMALES / MAXIMALEN FLUGEL ABMESSUNGEN

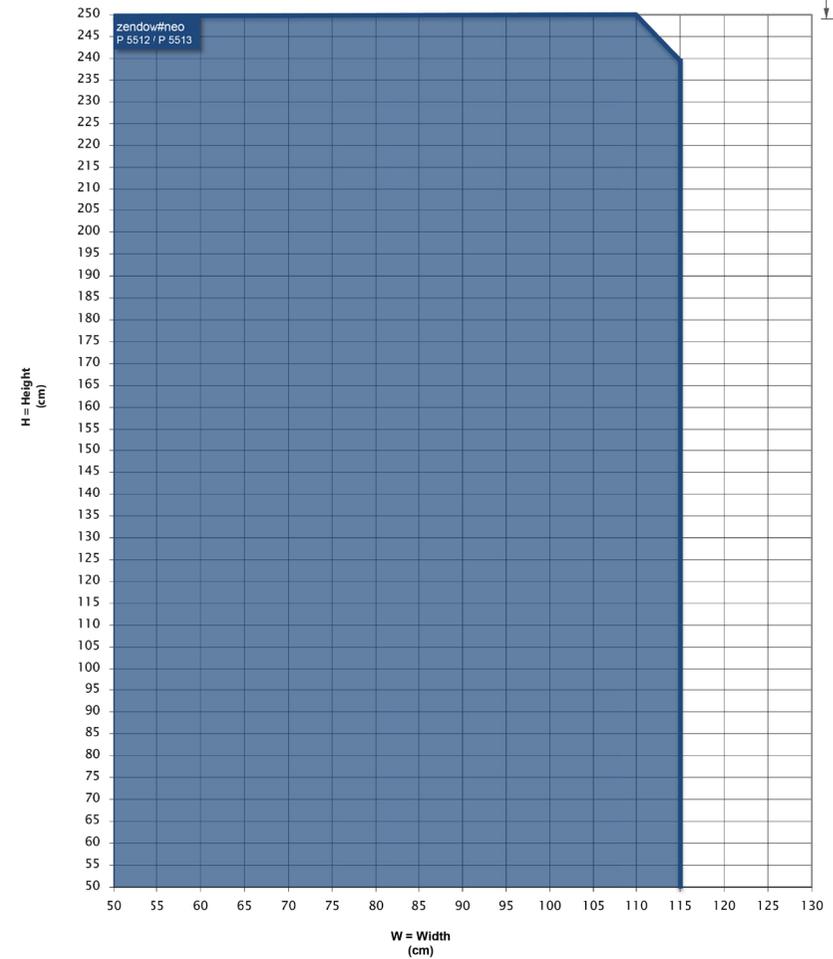
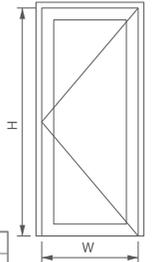
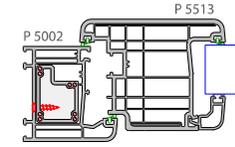
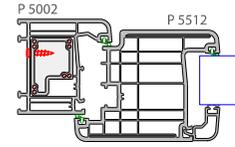
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P 5512 / P 5513

MAXIMUM SASH DIMENSIONS / MAXIMALE VLEUGELAFMETINGEN / DIMENSIONS MAXIMALES / MAXIMALEN FLUGEL ABMESSUNGEN

Standard double glass / Standaard dubbel glas / Vitrage standard double / Standard Doppelverglasung

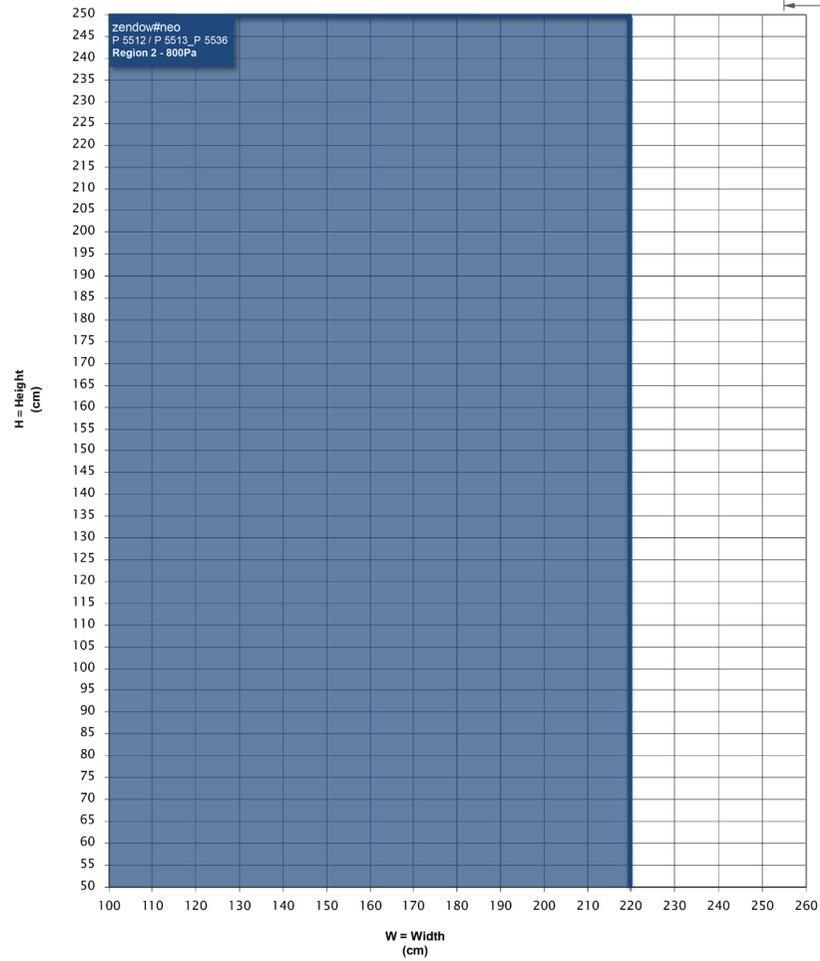
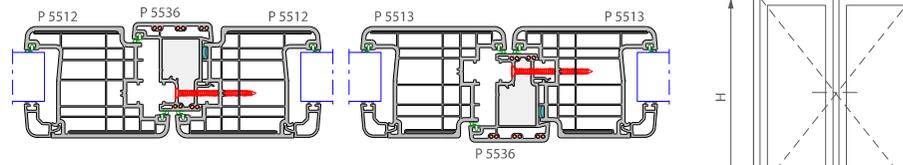


P 5512 - P 5536
P 5513 - P 5536

MAXIMUM SASH DIMENSIONS / MAXIMALE VLEUGELAFMETINGEN / DIMENSIONS MAXIMALES /
MAXIMALEN FLUGEL ABMESSUNGEN

1/150 **Region 2**

Standard double glass / Standaard dubbel glas / Vitrage standard double / Standard Doppelverglasung



Case Study - Goodman Fields

Goodman Fields is a high profile development in the heart of the City ideally located for Canary Wharf, Docklands and South Bank. Great emphasis was placed on the sustainability of the building, so the energy efficiency of the windows was of key importance. Tilt-only windows in Anthracite Grey were specified.

The Goodman Fields student accommodation opened in the summer of 2013 and the £80 million scheme represents the sector's largest transaction for several years. It's a flagship scheme offering premium accommodation for London's students.



Case Study

Southampton City Gateway

Southampton City Gateway is a mixed use development comprising a 15 storey student accommodation block occupying 12,456 square metres. It includes 364 student rooms with medical centre, pharmacy and retail units at ground floor level.

Prior to this development, several mixed use schemes had been planned for the site, but had all failed due to viability issues. Bouygues Development redesigned the scheme, changing the focus from residential to student accommodation and led the project to success.

The original specification called for aluminium windows but when this was found to be out of the budget, Deceuninck's Decoroc Anthracite Grey was chosen for its close match to the original aluminium specification.

The project was completed in 2013.

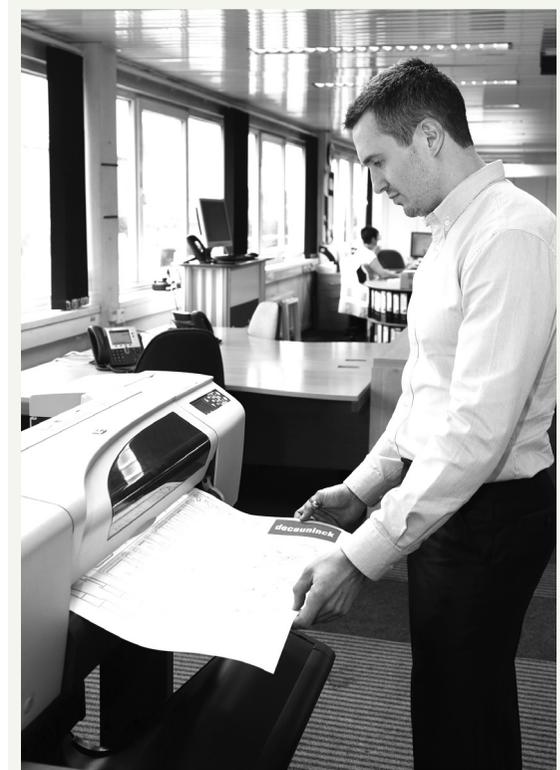


Technical Support

Our Technical Team are at hand to help you specify the correct product for your project. They will guide you at each stage on the use of products, samples, drawings and specifications.

Our technical and design service includes:

- Product selection and application
- Technical review to confirm compliance with Building Regulations, including Document L
- Advice on exposure conditions
- Wind load calculations
- Framing construction and design solutions
- Generation of scheme drawings for tendering purposes
- Technical specification
- Window samples for client/authority approval



NBS Plus

Specification is an essential part of the design process. A badly written specification can cause major problems for every member of the project team and can cost the client a great deal of money. A well written specification on the other hand can enhance project delivery and save money. NBS Plus can help with all sizes of construction project, from inception to completion.

NBS Plus

Quality Assurance



ISO9001 • ISO14001



001

BS EN ISO 9001
Quality Management systems.

BS EN ISO 14001
Registered Environmental Management System.



KM 33904
PAS 24 - Windows



KM 57124
PAS 24 - Doors

PAS 24 SYSTEM SUPPLIER
General and enhanced security performance for windows and doors.



KM 25857
BS EN 12608

BS EN 12608
Linktrusion profiles for the fabrication of windows and doors, classification requirements and test methods.



SECURED BY DESIGN
Secured by design is the UK Police flagship initiative supporting the principles of 'designing out crime' by use of effective crime prevention and security standards.



CE MARKING
Meeting European standards and regulations.

Cristallo

S Y S T E M S

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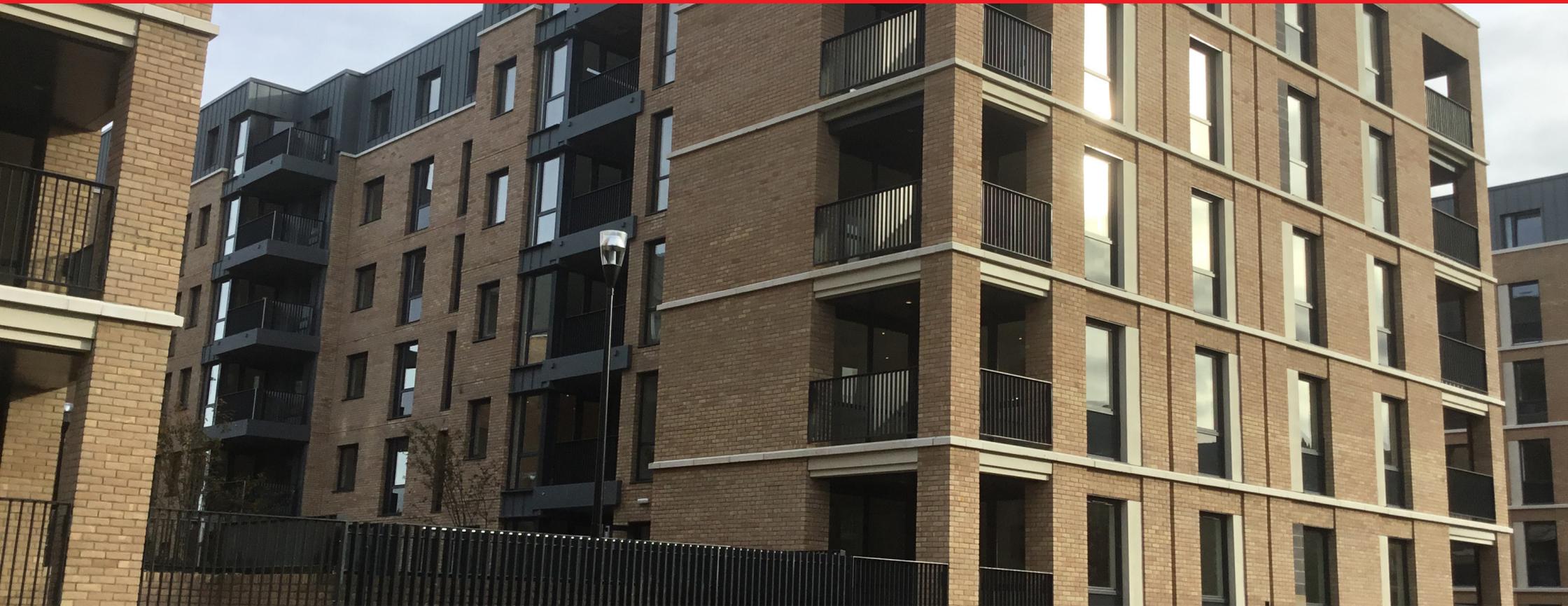
deceuninck

Cristallo works in partnership with Deceuninck

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Cristallo

SYSTEMS



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COMMERCIAL APPLICATIONS