MARLIN
ALUMINIUM GLAZING SYSTEMS

Heritage
HISTORIC

The ideal solution for heritage applications

www.marlinwindows.co.uk

Heritage HISTORIC

The perfect solution for sensitive refurbishment and renovation projects.

We designed and developed the Heritage HISTORIC ranges specifically to meet the requirements of refurbishment and renewal projects, particularly in sensitive planning areas. Ideal for Victorian and Art Deco projects, the range of commercial and residential windows and balcony doors are already proven in a wide range of renovation, refurbishment and heritage projects across the UK.

✦ Heritage HISTORIC's signature slim profiles and slightlines are the ideal solution for listed building renovations

Providing a modern, like-for-like replacement for traditional materials, Heritage HISTORIC is the ideal solution for projects where planning or design demands dictate the installation of sympathetic materials – even for listed buildings. The system has already been approved for projects in a number of Local Authorities (including the London Boroughs of Islington, Camden and Tower Hamlets, Watford Borough Council and Essex County Council) as well as Cadw, the Welsh Government's historic environment service.

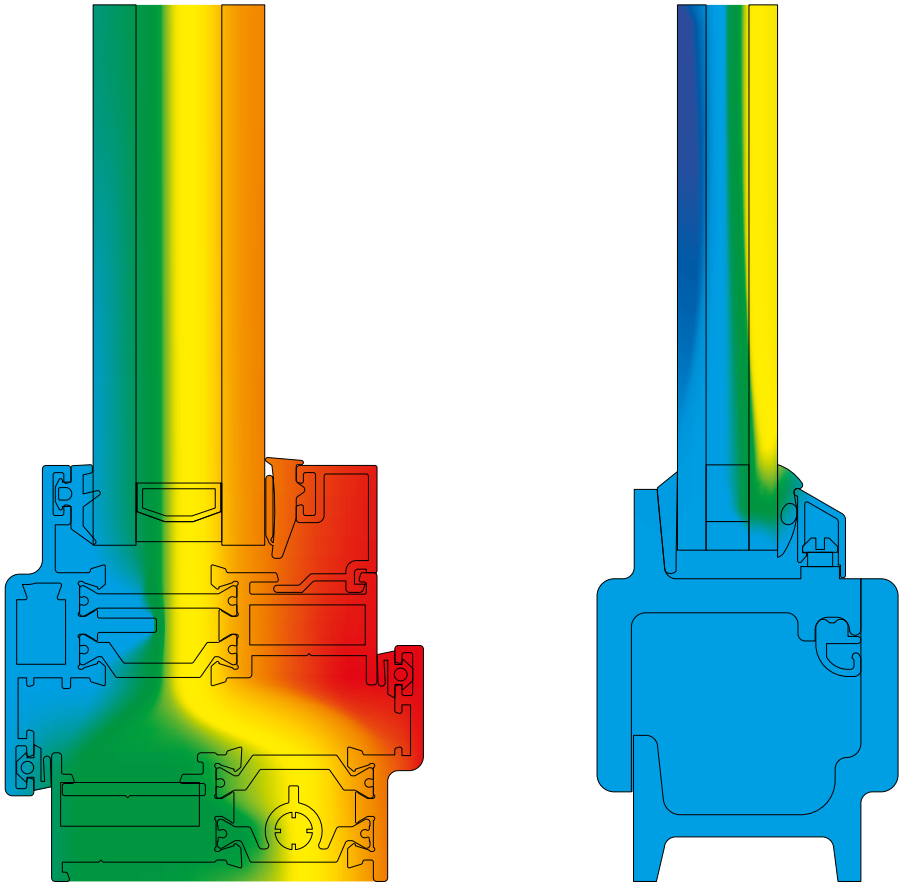
The Heritage HISTORIC door and window ranges both feature the slim profiles and sight lines that are associated with traditional steel doors and windows.

However, the system's timeless elegance is also accompanied by the outstanding thermal performance of a modern aluminium system – each delivering a 'B' Energy Rating. Featuring slim, thermally-broken profiles, Heritage HISTORIC windows are available in a number of formats, including fixed-pane, sash, top-hung and side-hung casement, pivot and tilt and turn. These different options may be installed in a combination of horizontal modules, which are stacked using our coupling options to form a multi-part window.

Suitable for both single and double door application, Heritage HISTORIC balcony doors are available in a wide range of sizes and are supplied with a multi-point lock mechanism as well as face-mounted finger thrown locking bolts. Both the window and door systems deliver a U-Value of 1.5 W/m²K, when installed with a suitable sealed unit, and are available in either single or dual polyester powder coated finishes.

Aluminium versus Steel

Delivering improved thermal efficiency and long-life performance.



Building on over 35 years' design and development experience, our R&D engineers have produced a complete range of integrated door and window systems that deliver not only the aesthetics required for sensitive Victorian and Art deco refurbishment projects, but also the thermal efficiency that is demanded by developers, architects, planners and building occupiers.

Heritage HISTORIC provides a modern light-weight, high-strength and cost-effective alternative to traditional steel window and door systems, offering a wide range of benefits:

Increased Lifespan

Because aluminium does not rust or rot, window frames provide great longevity and can last indefinitely. This also means that the aluminium windows have the longest lifespan of any window framing material, with typical replacement periods of 40 years – compared to a typical 35 year replacement period for steel, PVC and timber.

(Source: BRE British Research Establishment)

Improved Thermal Efficiency

Modern aluminium windows are thermally-broken using polyamide, an excellent insulator which helps to insulate windows against heat loss.

The thermal conductivity of polyamide is 160 times better than steel, which for a typical terraced house would provide a saving of around £95 each year in fuel costs. In addition to these energy savings, the polyamide also raises the internal temperature of a house, helping to reduce the risk of condensation.

(Source: GGF Energy Saving Calculator)

Reduced Maintenance

Maintenance for aluminium systems is simple and straightforward, with a routine 'wipe-clean' all that is required to keep the products looking their best. With no requirement for re-painting or re-varnishing, aluminium windows and doors will never fade, deteriorate or rust, even in harsh environments, such as coastal locations, where steel windows can be particularly prone to rust, requiring regular maintenance and eventually, replacement. For example, the Sully Hospital overlooking the Bristol channel, the building's original steel window frames became heavily corroded and covered in rust. These were then replaced with aluminium window frames with a marine grade polyester powder coating to provide long-life performance with minimal maintenance.

Above Left – Polyamide thermal break technology and modern profile design enhances the thermal performance of Heritage HISTORIC compared to steel windows.

Above – Heritage HISTORIC closely replicates the aesthetics of steel windows. The window shown above is steel; the window below is Heritage HISTORIC.

Hardware

Full range of hardware and colour options.

Lever/Lever Art-Deco Door Handle

Bulb-End Window Handle

Art-Deco Window Handle

Monkey-Tail Window Handle

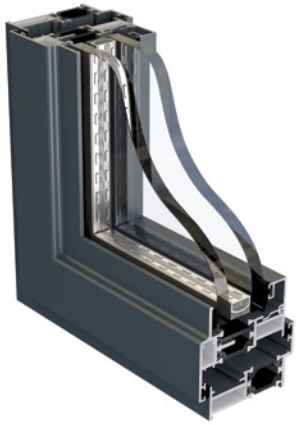
Bulb-End Peg Stay

Our Heritage HISTORIC ranges are all available with a full suite of hardware options, with products specifically designed to match the door and window furniture that is synonymous with Victorian and Art Deco styles – including 'Monkey Tail' and 'Bulb' options.

Both the window and door systems, and accompanying hardware and accessories may be supplied in any colour from our extensive Naturals and RAL ranges, as well as our bespoke Sensations colours and our recently launched Alchemy range. Alchemy offers eight anodised colour matches, including shades of gold, bronze, silver, grey and black, and combines the unique style and aesthetics of traditional anodising, with the advantages of a high quality powder coating process.

Product Specification

Wide range of high quality, thermally-broken window options.



Heritage HISTORIC Window

Heritage HISTORIC provides the ideal solution for heritage applications such as listed building renovations and large scale replica-refurbishment projects where planning constraints are to be considered.

The Heritage HISTORIC window is designed to be built as a series of horizontal modules which can be stacked using horizontal couplers to form a multi-part window featuring a specially design drip bar between modules.

Application

- Fixed windows
- Single or double sash, side hung open out casements
- Top hung open out casements
- Tilt & turn windows
- Pivot windows

Features

- Polyamide thermal break provides enhanced thermal performance
- Designed as a direct replacement for steel windows

Finish

Single or dual colour, marine quality polyester powder coat as standard

Technical Performance

WER Rating	B
U Value	1.5 W/m²K (using sealed unit 1.0 W/m²K)
Air	Class 4, 600Pa
Water	Class 9A, 600Pa
Wind	Class AE, 2400Pa
Document L Compliant	

Dimensions

Frame Depth	47mm
Glass	24mm, 28mm, 32mm & 36mm

Test Certification

BS 6375 Part 1	2009 Resistance to Weather
PAS 24:2016	Enhanced Security Performance

Recommended Design Limits

Side Hung Vent Max o/a Width	700mm
Side Hung Vent Min o/a Width	300mm
Side Hung Vent Max o/a Height	1400mm
Maximum Vent Weight	40kg
Top Hung Vent Max o/a Width	1400mm
Top Hung Vent Max o/a Height	1300mm
Top Hung Vent Min o/a Height	275mm
Maximum Vent Weight	40kg

B WER

U Value 1.5W/m²K

Air 600Pa

Water 600Pa

Wind 2400Pa

Certified Document L

Certified BS 6375

Certified PAS 24: 2016

SH Sight Line 59mm

SH Max Width 700mm

SH Max Height 1400mm

Product Specification

Choice of single and double doors specifically for heritage projects.

Heritage HISTORIC **Door**

The Heritage HISTORIC door is the ideal replacement for steel balcony doors on heritage applications such as building renovations or apartment conversions. The Legacy Heritage door provides the solution for conservation areas where planning regulations require a like-for-like product replacement.

Heritage HISTORIC door profiles feature the system's signature slim sightlines and elegant lines that complement our existing Heritage window and mimic those of steel doors. The system has all the advantages of modern aluminium profiles that feature polyamide thermal breaks, allowing the system to achieve a U Value of 1.5 W/m²k when installed with a suitable sealed unit.

U Value
1.5W/m²K

Certified
Document L

SH Sight Line
59mm

Max Sash Width
900mm

Max Sash Height
2100mm

Application

- Single or double doors

Features

- Slim sightlines
- Tape or gasket glazed
- Multi point locking and face mounted shoot bolts

Technical Performance

U Value	1.5 W/m²K (using sealed unit 1.0 w/m²K)
Air	Test result pending
Water	Test result pending
Wind	Test result pending
Glass	24mm – 32mm
Typical Sightlines	59mm

Recommended Design Limits

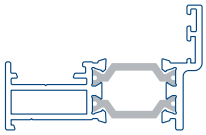
Max Sash Width	900mm
Max Sash Height	2100mm

Profile Chart

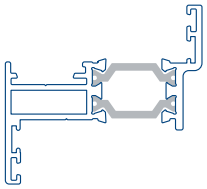
Section details for all window and door system profiles. Not to scale.

Outer Frame

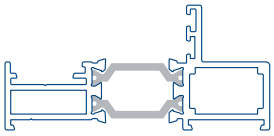
W20015
Outer Frame



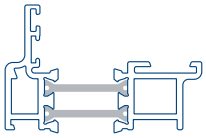
W20016
Odd Leg Outer Frame



W20017
70mm Outer Frame

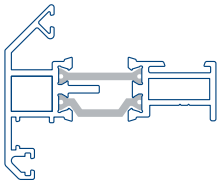


W20018
Internally Beaded Fixed Light Outer Frame

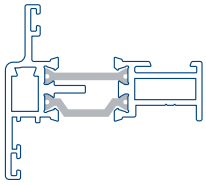


Window Sashes

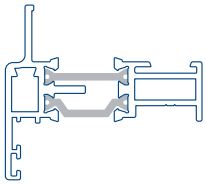
W20024
Vent



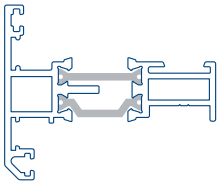
W20025
Vent



W20026
Vent – tape glazing

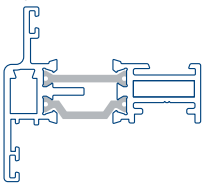


W20028
Vent

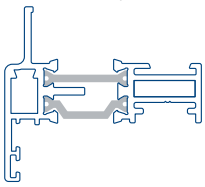


Door Sashes and Reverse Adaptor

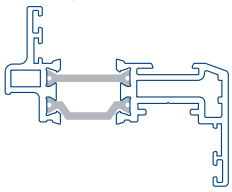
W20027
Open Out Door Sash



W20127
Open Out Door Sash Tape Glazed

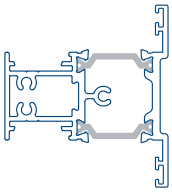


W20125
Open In Door Sash

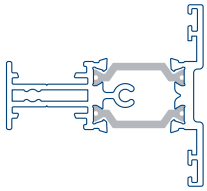


Transoms/Mullions

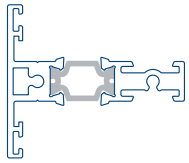
W20034
Transom/Mullion



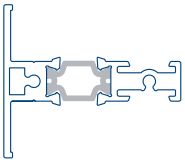
W20035
Transom/Mullion



W20037
Door Transom

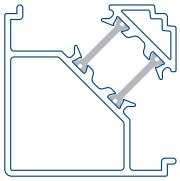


W20137
Door Transom - tape glazing

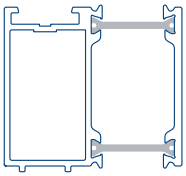


Corner Post and Extensions

ETC047
90° Corner Post



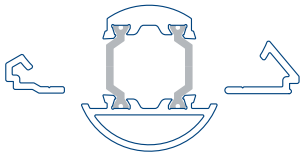
ETD058
42 mm Head Extension



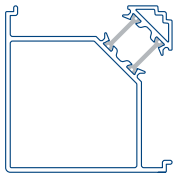
W20065
Bay Pole Adaptor

W20069
Bay Pole

W20066
Bay Pole Adaptor

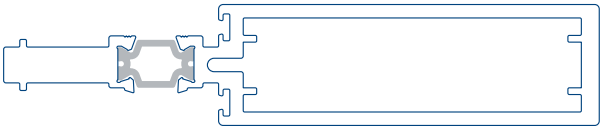


ETC048
90° Corner Post

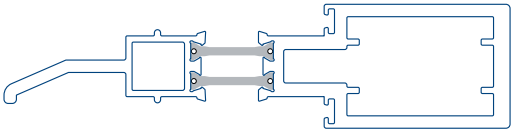


Couplers

W20054
Coupler/Mullion

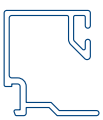


W20486
Horizontal Coupler



Beads

ETC370
Square Bead 24mm Glazing

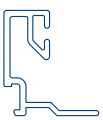


ETC364
Chamfered Bead 24mm Glazing

ETC371
Square Bead 28mm Glazing

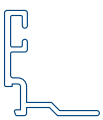
ETC375
Chamfered Bead 28mm Glazing

ETC377
Square Bead 32mm Glazing

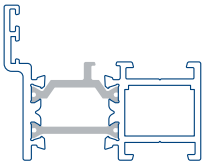


ETC379
Chamfered Bead 32mm Glazing

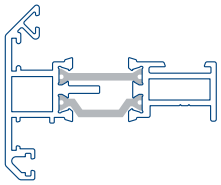
ETC376
Square Bead 36mm Glazing



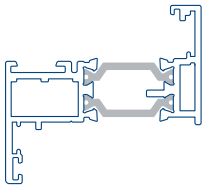
W20110
Tilt & Turn Outer Frame



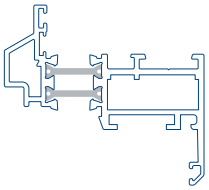
W20029
Vent



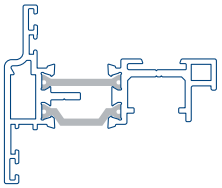
W20122
Externally Beaded Sash



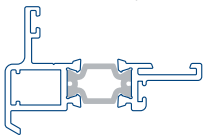
W20120
Tilt & Turn Sash



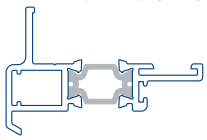
W20126
Sash With Eurogroove



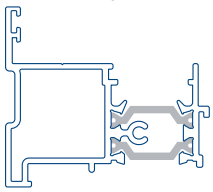
W20047
Reverse Adaptor



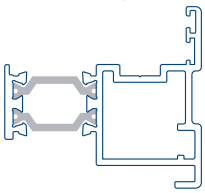
W20147
Reverse Adaptor - tape glazing



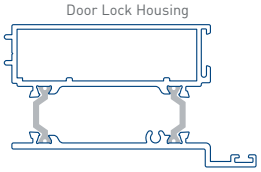
W20048
Meeting Stile



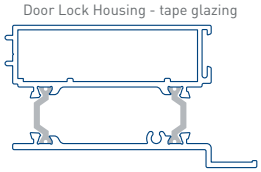
W20045
Pivot Adaptor



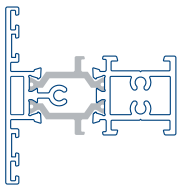
W20038
Door Lock Housing



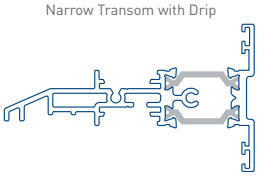
W20138
Door Lock Housing - tape glazing



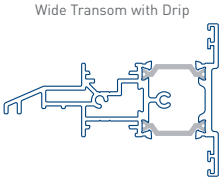
W20130
Tilt & Turn Transom/Mullion



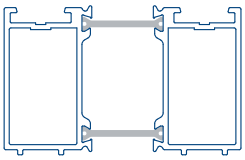
W20032
Narrow Transom with Drip



W20039
Wide Transom with Drip



DV515
42mm Head Extension

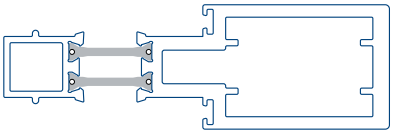


W20165
25mm Astragal Bar

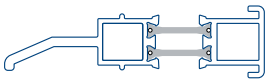
W20166
41mm Astragal Bar

W20175
Threshold Infill

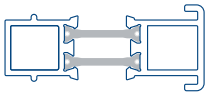
W20487
Vertical Coupler



W20488
Horizontal Coupler



W20489
Vertical Coupler



ETC366
W20122 28mm Bead

ETC378
W20122 24mm Bead

ETC381
W20122 24mm Bead

W20168
24/28mm Internal Bead

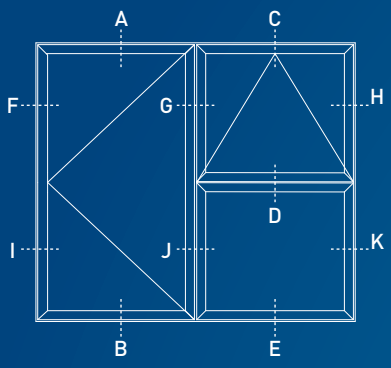
W20170
28mm Internal Bead

W20174
24mm Internal Bead

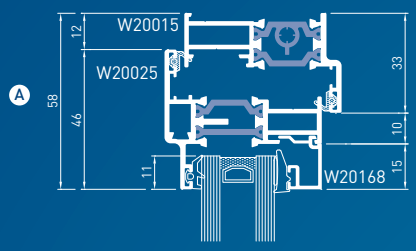
W20178
28mm Internal Bead

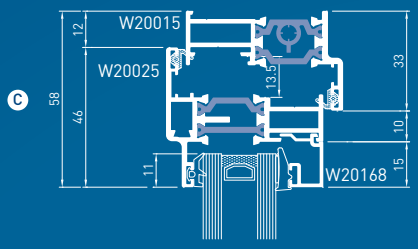
Section Drawings: Casement Window

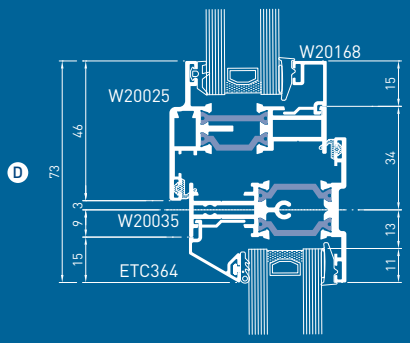
Examples of Typical Sections

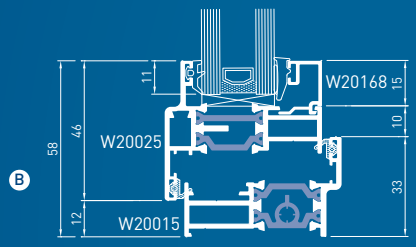


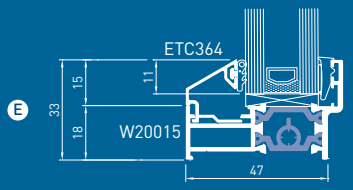
VERTICAL VIEWS



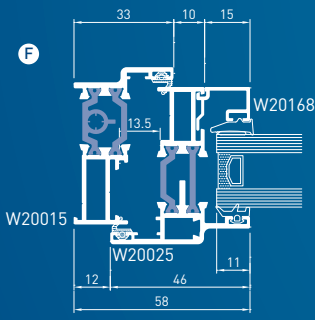


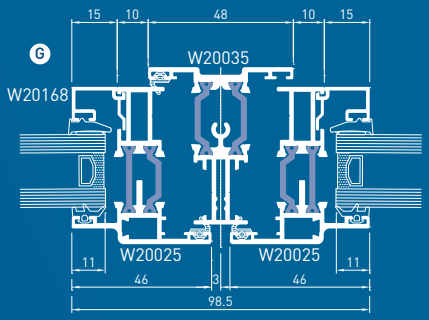


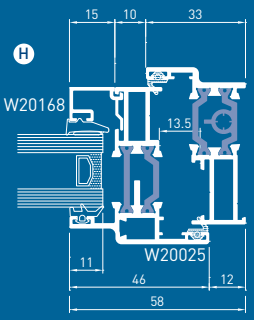


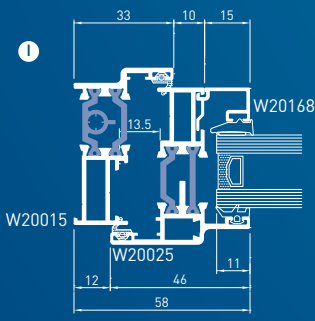


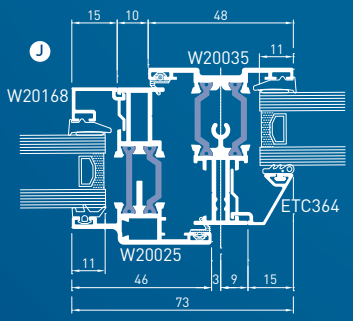
HORIZONTAL VIEWS

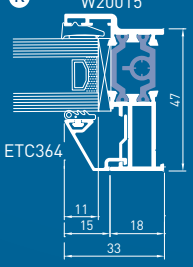












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ALUMINIUM GLAZING SYSTEMS

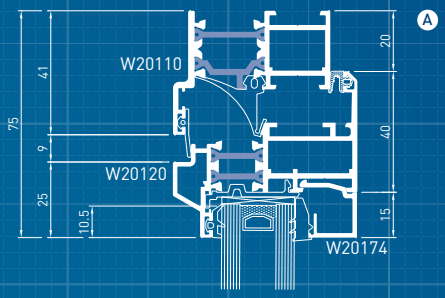
Casement Windows

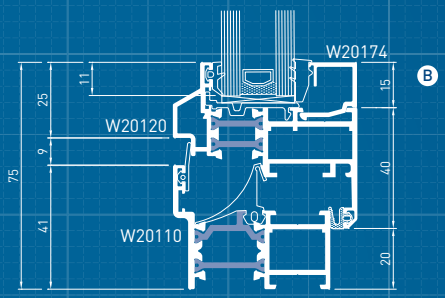
Traditional casement windows are ideal for for both residential and commercial applications. Frames can be manufactured in a wide variety of configurations and accept a range of hardware and locking options. Casement windows offer good ventilation and light ingress.

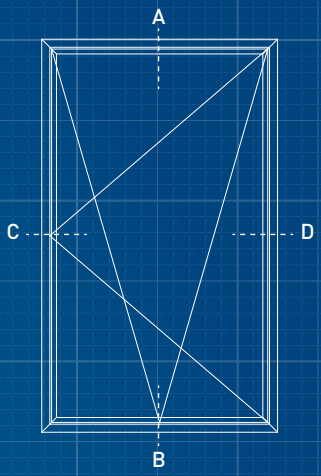
Section Drawings: Tilt & Turn Window

Examples of Typical Sections

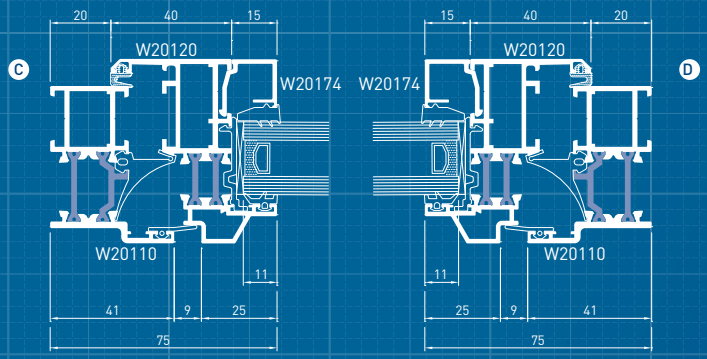
VERTICAL VIEWS







HORIZONTAL VIEWS



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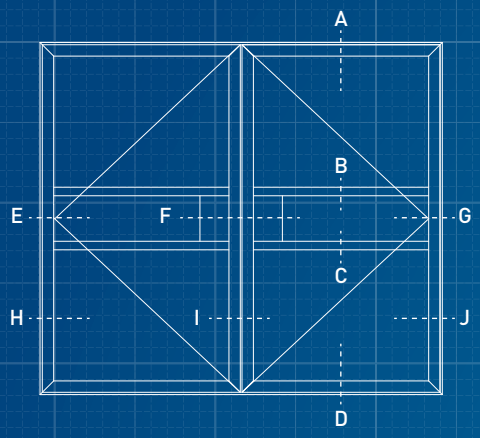
Tilt Turn Windows

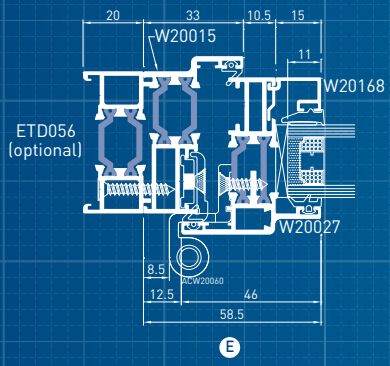
A tilt turn window opens in two ways; either by an inward opening side hung operation allowing easy cleaning or egress from the window, or by tilting inwards from the top of the sash which provides ventilation whilst ensuring safety and security.

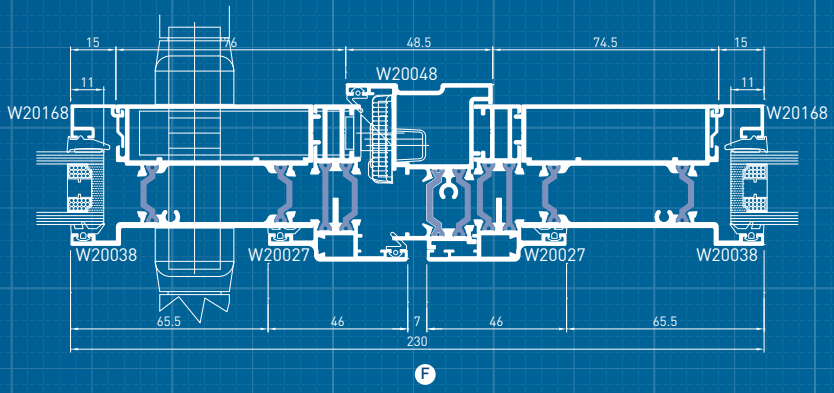
Section Drawings: Double Door

Examples of Typical Sections

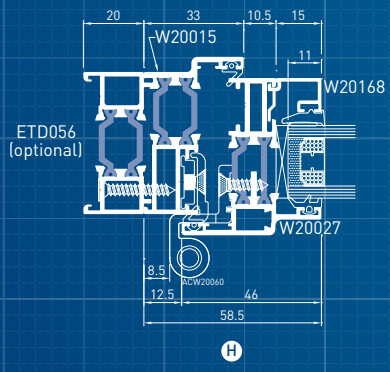


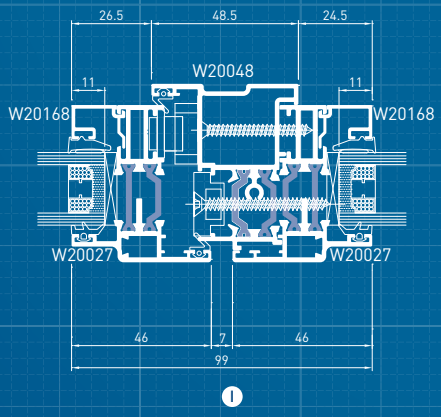
HORIZONTAL SECTION THROUGH LOCK





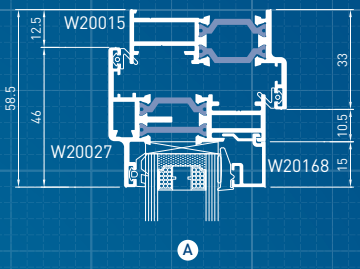
HORIZONTAL VIEW



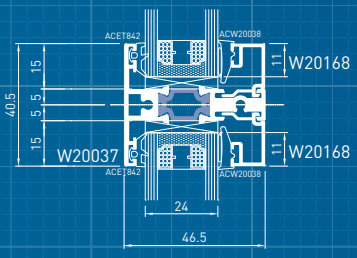


Note: Diagrams not to scale.

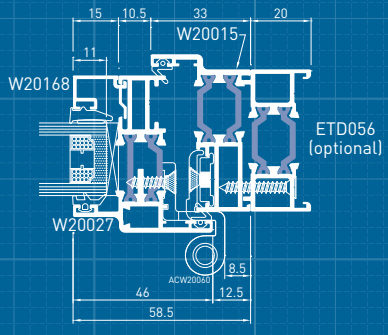
VERTICAL VIEW



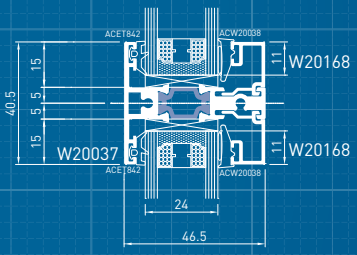
A



B



G



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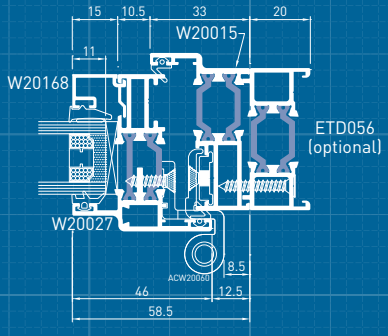

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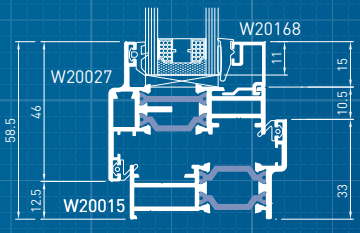

D

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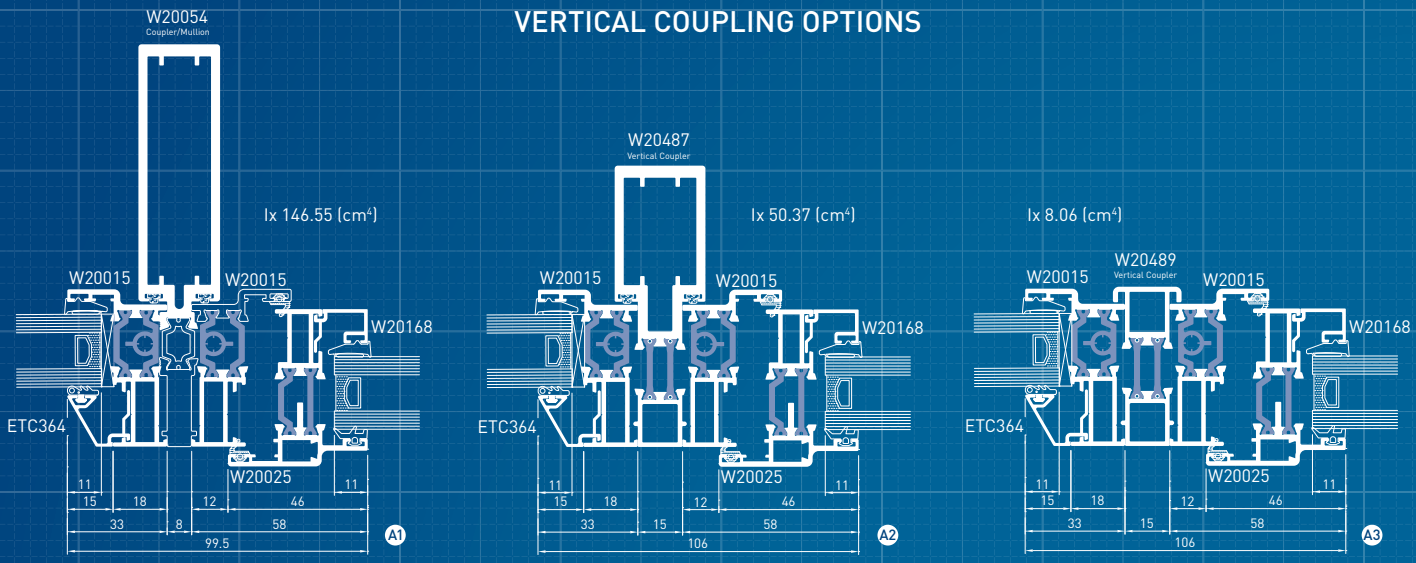
Balcony Doors

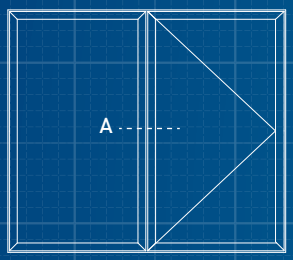
legacy Heritage doors are ideal replacements for steel balcony-type doors on heritage applications such as building renovation or apartment conversions.

Section Drawings: Frame Coupling Options

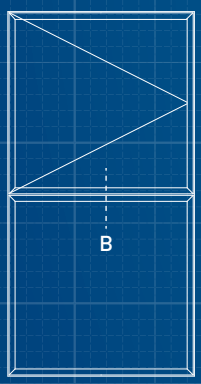
Examples of Typical Sections

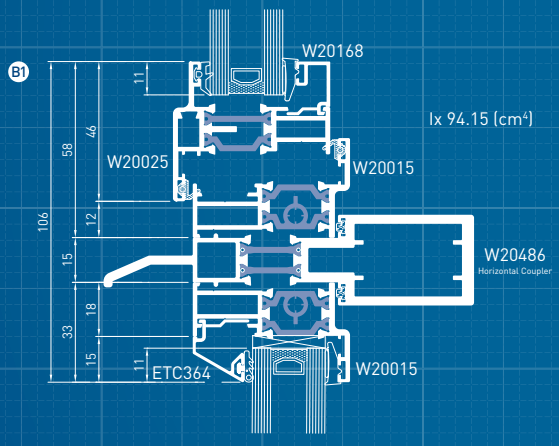
VERTICAL COUPLING OPTIONS

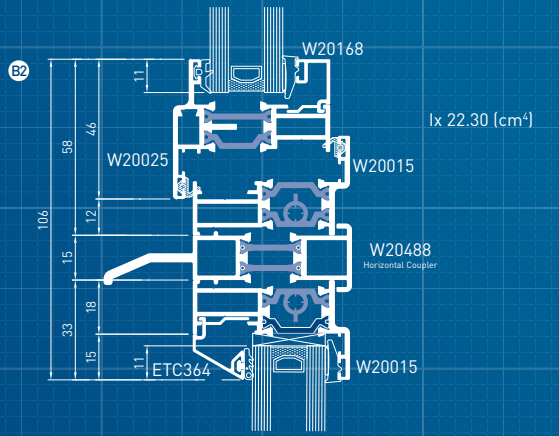




HORIZONTAL COUPLING OPTIONS







Note: Diagrams not to scale.

Case Study: Payne Road

Location
Payne Road
East London, EC1A 1BB

Architect
Stockwool
19 Hooper St, London E1 8BU

Main Contractor
Galliford Try
Cowley Business Park, Uxbridge

Summary

Located on the edge of the Olympic Park in East London, and on the site of a former chocolate factory and warehouse, this mixed residential and commercial development consists of 158 one and two bedroom apartments – and features studios for local artists, film makers and designers.

To retain the design style of the original structure, which featured steel windows, green polyester powder coated
Heritage windows were specified for the refurbishment project, with a combination of casement, top-hung and side-hung units installed. On the building's front elevation, arch-headed windows were set back into the original brickwork reveals to maintain the building's traditional aesthetics. Completing the project, a commercial door and framing system was used for the main entrance on the ground floor and the company's Visoline doors and tilt and turn windows were installed in to a new steel frame extension constructed on the building's roof to provide additional accommodation.

Heritage
HISTORIC

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