



SPECIFICATION GUIDE

Your technical
guide to
VEKA Plc products

Working with VEKA

Renowned as the most knowledgeable brand in our industry, VEKA is dedicated to shaping environments through sustainable products and services.

They leverage their expertise to meticulously design, develop, and extrude the world's most sought-after PVCu windows and doors. This commitment has established their reputation for steady and measured growth, delivering leading, popular, and dependable products to their ever expanding community of loyal customers.

VEKA is driven by a culture of innovation. The brand stands on a foundation of trust, efficiency, and unwavering commitment. They consistently produce unparalleled products that establish benchmarks for others to follow, and uphold a promise to deliver on their commitments.



imagine

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About VEKA

We know what we're good at and that's where we apply our focus. We're the most knowledgeable brand in the industry and we use our expertise to design, develop and extrude quality PVC-U systems. It's earned us a heritage of stable and measured growth, producing leading, popular and reliable products – the most specified systems in the world.

Heritage

VEKA has been leading the global development of PVC-U window systems for 50 years, through design, innovation and customer focus. With subsidiaries in over 40 countries across Europe, Asia, America and Russia, VEKA is the world's largest manufacturer of extruded PVC-U products. Headquartered in Germany and family owned since 1969, VEKA has retained the culture that created its success, offering a heritage of quality, efficiency, reliability, and stability to its partners.

VEKA plc is the UK arm of the company; best known for the VEKA and Halo profile suites and the recycled PVC-U system that have each set new standards in the industry for technical excellence as well as sheer good looks. Our German heritage backed by British craftsmanship means that quality is embedded deep in our ethos and our ongoing commitment to product development means we'll continue to evolve as technology and the market evolve.

People

Our technical team are on hand to provide support whenever you need it. They are only a phone call or an email away and can assist with CAD design, as well as BIM, prototyping and wind load or energy calculations so you can make sure you're specifying the perfect window for your project.

Our technical team aren't scientists in white coats. They're straight talking, experienced people that have had years of working with PVC-U products. Over the years they've extruded, fabricated, installed, dismantled and inspected. With this knowledge comes a depth of understanding – not just about products – but about the people who live with our products every day.

Quality

Our products are of outstanding quality. Of course all of our products meet BSI Kitemark standards, hold ten year guarantees and we're certified to ISO 9001:2015. We look to conform to PAS24 and achieve the highest possible U-value ratings. But what's more important to us is that our products meet our own exacting standards.

We rigorously apply testing and quality control to ensure our profile maintains a consistently high performance level. We offer a 10 year guarantee on all window and door profile and colour.

Choice

From our systems comes immense choice – but intelligent choice. From these you can offer a portfolio of products for residential, commercial or public sector projects, products that are in high demand.

In developing our Variations colour range, we not only focused on getting the colour and texture of every foil just right, we also looked at how we could deliver you the products you need, on a lead time that works for your project. It's only a small detail – but one that means we carry the largest UK stock holding – £9 million worth covering 4000 SKUs.

Innovation

There's always a better way of doing things, a product that hasn't been invented, a new technology to be discovered, a new way of working. There's always an improved and more efficient way. It's this culture that has steered us for 50 years. We have a history of innovation driven by our knowledge and experience, from the first ever A-rated window, to a pioneering approach to recycling.

Our product range and service offering continues to evolve, setting the standard by which others are measured. What inspires our innovation? Well you do. Together, we'll shape future living spaces one window, door or home at a time.

What can VEKA do *for you?*

Extensive Testing

We offer fabricators an indicative in-house testing facility for all of our windows and doors. We also work closely with hardware and component manufacturers to ensure that our products not only meet, but exceed all British standards including security, weather testing or cyclic testing.

WinDoPlan

Exclusive to VEKA plc, and free to use, WinDoPlan is a digital planning and tendering tool for all processes related to VEKA, Halo and Imagine Window & Door specifications. This clever, intuitive software can create product specific U-Values, quickly calculates the glass area, and produces location specific wind load calculations. WinDoPlan maps the entire process online in detail and has been designed to give Fabricators, Architects & Specifiers quick access to live technical information, in the format they need it, including PDF, DWG and DXF.

To register visit veka.co.uk/windoplan

BIM Objects

Our windows and doors are available as BIM objects through WinDoPlan providing you with all the relevant information for your specification and project requirements. We are committed to ensuring the successful delivery of BIM information to all parties through effective collaborative working.

RIBA Product Selector

Our products are available using the RIBA Product Selector online directory. Here you will find an extensive range of information and a comprehensive catalogue of all systems suitable for all types of projects. The NBS Plus software will allow you to write an NBS specification document specific to the particular project you are working on.

CAD Design

We can provide a wide range of technical information including feasibility drawings, CAD blocks and cross section details to assist specifiers who are looking to use our systems on their projects.

For more information on our services or further assistance please visit veka.co.uk

For additional
support email
technical@veka.com

Why choose PVC-U

Energy Efficiency

At VEKA plc, we offer some of the most energy efficient frames on the market today. The UK's first BFRC A-rated PVC-U window was VEKA, and our suite of recycled profiles has won awards and set many environmental firsts since its launch. Our TwinSash system boasts an industry leading U-value of just 0.62.

Weather Resistance

VEKA windows will not rot, peel, crack or warp, no matter what the weather throws at them. Multiple chambers, co-extruded gaskets, the option for steel reinforcement, triple glazing and many other design features all contribute to weather-tight windows which are A-rated as standard.

Low Maintenance

The high quality PVC-U materials used in our products result in windows and doors that are very low maintenance in turn reducing costs for the end client.

Durability

The British Plastics Federation (BPF) and the Building Research Establishment (BRE) identified that PVC-U windows have a life expectancy of at least 35 years.

Sustainability

With some of the UK's best thermal efficiency performance results and the use of recycled post-consumer materials in some products, VEKA windows and doors help reduce waste and consumption of resources, and improve your project's carbon footprint.

Recyclability

The average PVC-U window has a lifespan of around 30-40 years and can be recycled up to ten times – VEKA Recycling are effectively helping create windows with a 350 year lifespan. Recycling PVC-U drastically cuts down depletion of the world's valuable resources and subsequently, the use of recycled windows material offer commercial clients an opportunity to demonstrate a positive environmental commitment.

All parts of the window are fully recyclable at the end of the window life including PVC-U profile, glass, hardware, steel/aluminium reinforcement and gasket.

Testing laboratory & accreditations



BSI Kitemark

The BSI Kitemark is an invaluable mark of quality for all sorts of products, but particularly materials and hardware for the construction industry. It's of paramount importance that specifiers, contractors and end users can place complete trust in the fabric of their buildings and we're proud that for over 20 years, all our VEKA plc products have carried that instantly recognisable sign of confidence.



PAS 24 and Secured by Design

As part of our commitment to designing products that offer high level security for commercial clients, our products meet the stringent testing requirements of PAS 24, the Police Preferred Specification that is Secured by Design when fabricating following the VEKA plc manuals.



ISO 9001:2015, ISO 50,0001 and ISO 14001:2015

Our factory at VEKA plc in Burnley, Lancashire has achieved accreditations meeting British standards for quality and environmental management. We are certified to Quality Management System ISO 9001:2008 in the design and manufacture of PVC-U window and door components and extrusion and to Environmental Management System ISO 14001:2004 in the design and manufacture of PVC-U window and door systems.

SPECTRAL

at a glance



An exclusive material developed by VEKA Group which will revolutionise the PVC-U windows and doors industry.

This innovative surface uses groundbreaking patented technology to create an ultrasmooth, ultramatt finish that has unrivalled performance benefits.

More than just a fashion fad, a matt finish is now as popular as a textured surface and is the choice for modern and stylish projects. It has been the most popular preference for architects and designers for years, but this sophisticated aesthetic is now in demand by insightful, style-conscious consumers.

VEKA

Exclusive to VEKA

Refined, elegant and durable



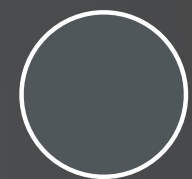
High resistance to UV light

Velvet like surface

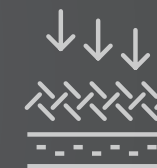
10 YEAR guarantee



Anti-fingerprint



Available in Anthracite Grey Ex-Stock



High resistance to scratches



Also in 3 MTO colours



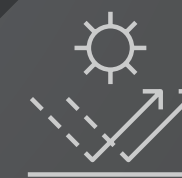
High resistance to extreme weather



High resistance to harsh chemicals



Cleaning kit available for stubborn marks



Reflects less light than other matt surfaces



Can be used with other colours from the VEKA Group Variations range



Easy to clean



Fully recyclable



Ultramatt Surface Technology

SPECTRAL uses next generation surface technology to create an extraordinary finish that simply cannot be matched by any other matt PVC-U surface on the market.

Highly durable, SPECTRAL is extremely scratch resistant and anti fingerprint. This special surface is also resistant to UV light, extreme weather conditions and harsh chemicals. Dirt can be wiped away with ease for a product that stays beautiful for longer than the average laminate.

SPECTRAL reflects less light than most 'flat matt' finishes, generating an ultramatt appearance that absorbs rather than reflects lights. This unique interaction with light creates a denser, richer quality of colour for a unique appeal.

Smooth and velvet like to touch



Feels just as good as it looks

Contents

VEKA plc Windows and Doors



imagine

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Bevelled Flush Door
Bevelled Patio Door

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VEKA Fully Reversible

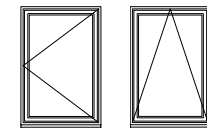
Introducing M70

With its clean bevelled design M70 offers the contemporary look that consumers demand. With slimmer sightlines and leading thermal performance, M70 offers an alternative to aluminium and timber with the advanced performance associated with PVC-U. This 70mm fully integrated multi-bevelled system includes steel reinforcement for additional durability, security and thermal efficiency.

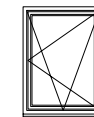
Available in a large
assortment of colours
and woodgrain options
from the popular
Variations range.

Products in this section:

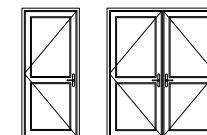
Casement Window



Tilt & Turn Window



Residential and French Doors





Features

Maximum sash sizes

Top hung: 1400mm (w) x 1400mm (h)
Side hung: 800mm (w) x 1550mm (h)
Fixed light: 3000mm (w) x 3000mm (h)

Outer frames

55mm, 67mm and 80mm outer frames

Mullions

68mm or 82mm mullions

Sash

76mm casement sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

28mm bevelled
28mm sculptured
36mm bevelled
40mm bevelled
44mm bevelled

Ancillaries

Frame extensions, cills and weathering trims
Range of coupling options
Range of bay pole options

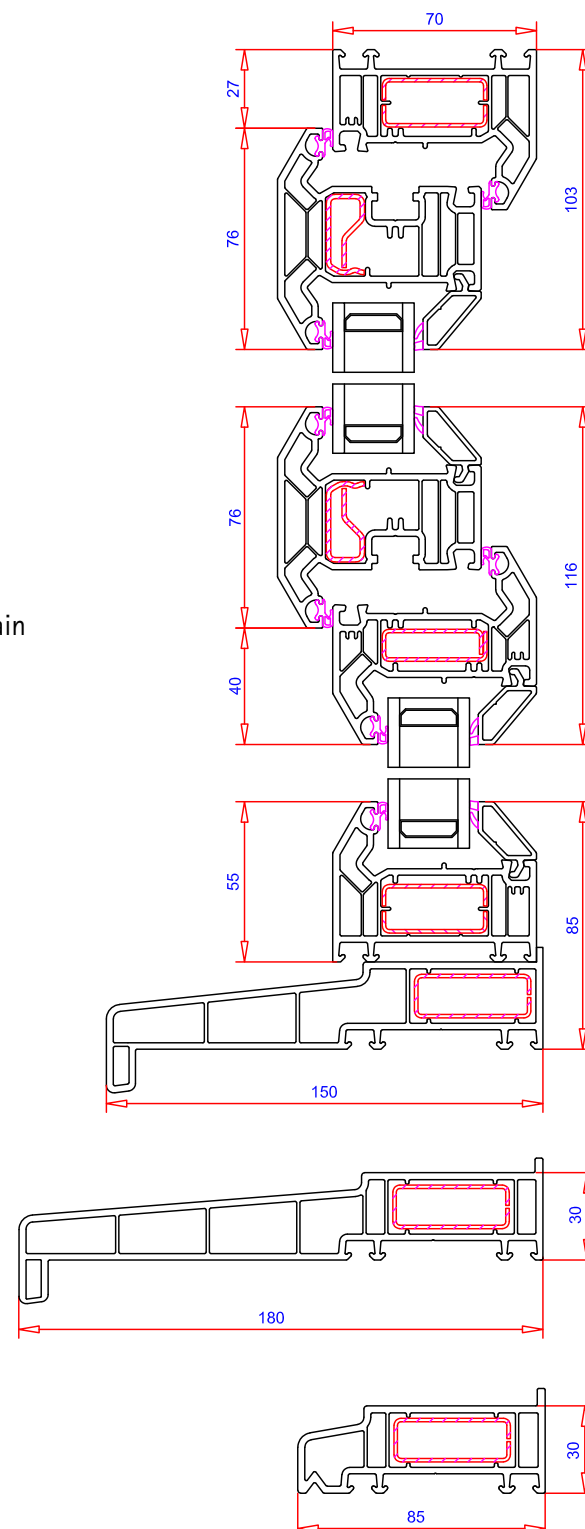
Thermal performance**

Achieves U-values as low as 1.2 W/m²K using double glazing
Achieves U-values as low as 0.78 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



Test Results

Window type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Top hung reinforced	1400mm x 1400mm	Class 4	Class 8A	AE2400 Pa	2000+
Side hung reinforced	800mm x 1500mm	Class 4	Class 9A	AE2400 Pa	2000+
Side hung reinforced	800mm x 1550mm	Class 2	Class 7A	A4	1600
Fixed light reinforced	3000mm x 3000mm	Class 4	E1050	AE2400 Pa	2000+



Features

Maximum sash sizes

Tilt & Turn: 1600mm (w) x 1600mm (h)

Outer frames

55mm, 67mm and 80mm outer frames
– Please note 80mm outer frames not available on Infinity

Mullions

68mm or 82mm mullions
115mm midrail

Sash

82mm Tilt & Turn sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

28mm bevelled
28mm sculptured
36mm bevelled
40mm bevelled
44mm bevelled

Ancillaries

Frame extensions, cills and weathering trims
Range of coupling options
Range of bay pole options

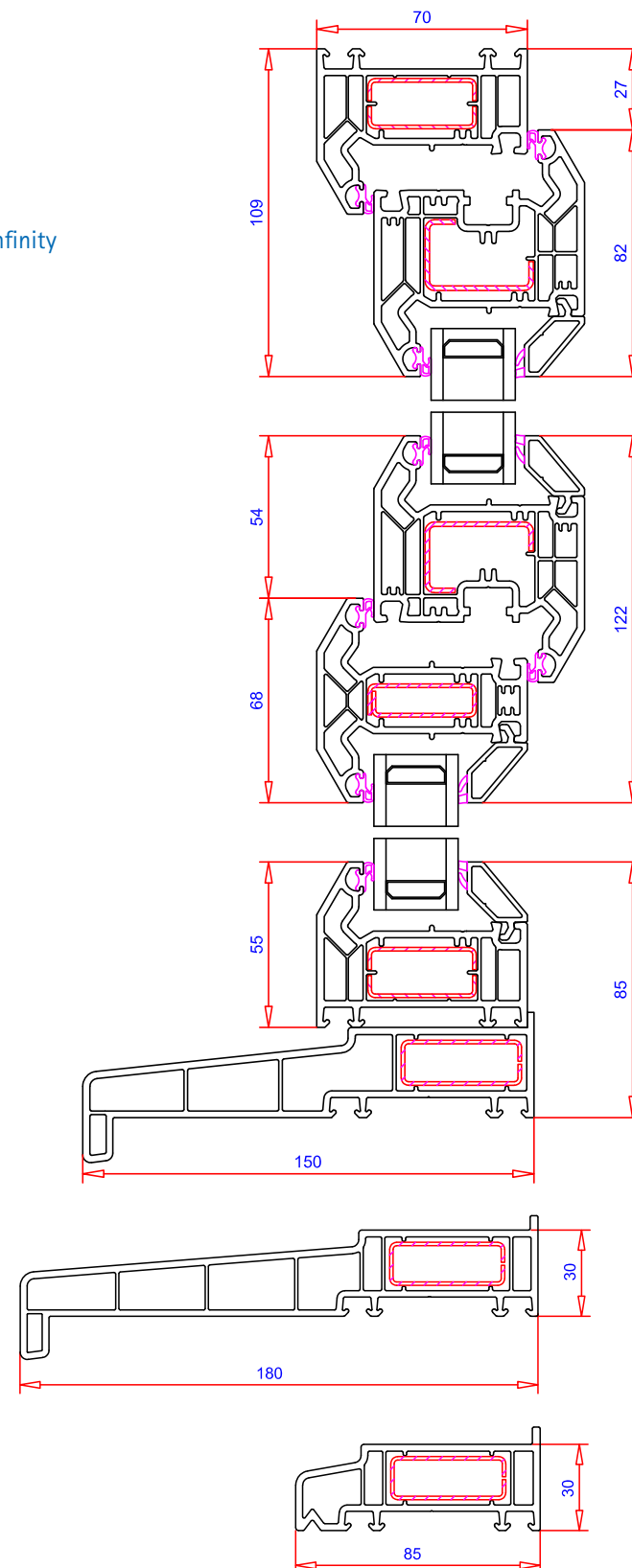
Thermal performance**

Achieves U-values as low as 1.2 W/m²K using double glazing
Achieves U-values as low as 0.92 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



Test Results

Window type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Tilt & Turn	1600mm x 1600mm	Class 3	Class 9A	AE2400	2000+



Features

Maximum sash sizes

Residential: 1122mm (w) x 2122mm (h)
French Door: 1122mm (w) x 2122mm (h)

Outer frames

55mm[^], 67mm and 80mm outer frames
[^]as threshold only
– Please note 80mm outer frames not available on Infinity

Midrail

115mm midrail

Sash

115mm door sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

- 28mm bevelled
- 28mm sculptured
- 36mm bevelled
- 40mm bevelled
- 44mm bevelled

Ancillaries

Frame extensions, cills and weathering trims
Range of coupling options
Range of bay pole options

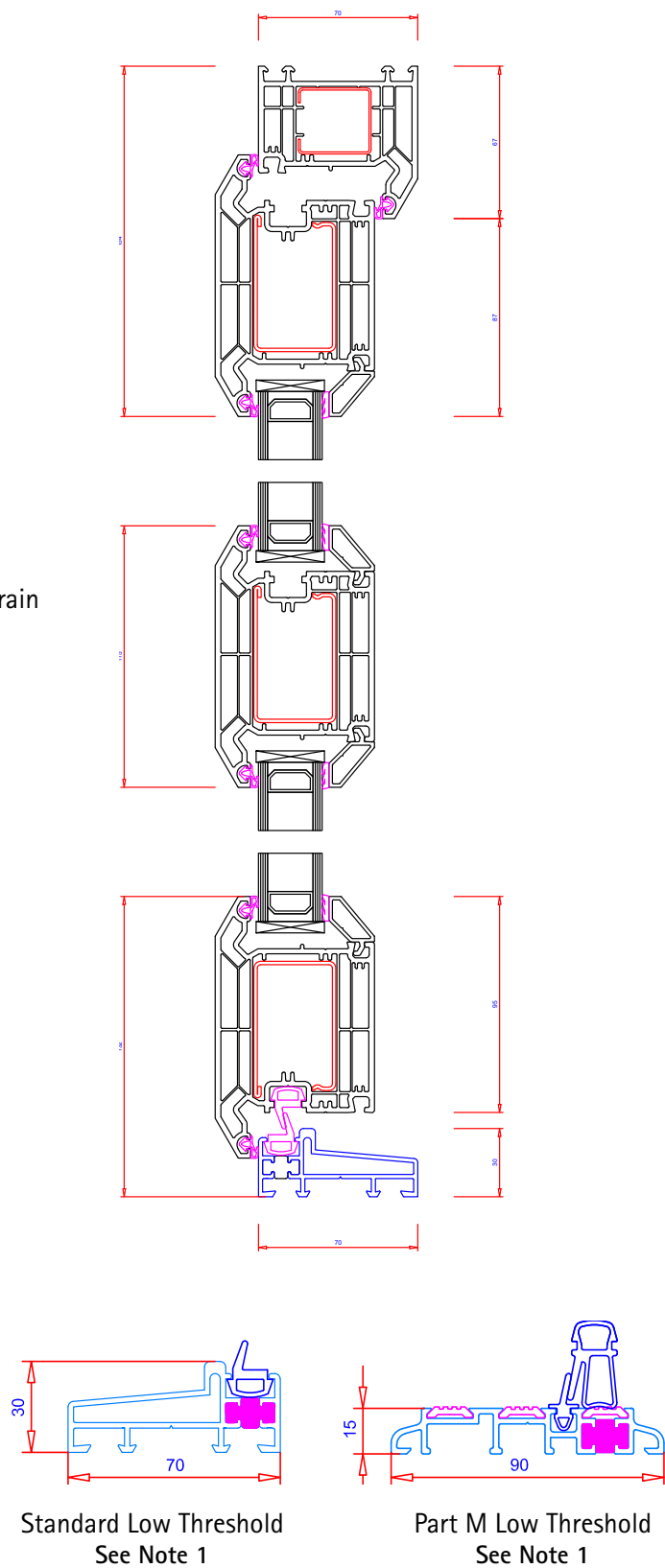
Thermal performance**

Achieves U-values as low as 1.3 W/m²K using double glazing
Achieves U-values as low as 0.98 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.
** Figures can vary dependent on specification.

Note 1
Not available on French Doors

Technical Drawing



Test Results

Door type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Single leaf	1122mm x 2122mm	Class 4	Class 7A	A3	1200
Single leaf VEKA TH One	1122mm x 2122mm	Class 2	Class 2A	A2	800
Double leaf	1122mm x 2122mm	Class 3	Class 7A	A3	1200
Double leaf VEKA TH One	1122mm x 2122mm	Class 4	Class 6A	A3	1200

Introducing Imagine

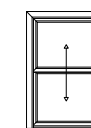
The Imagine range of products were introduced to create inspirational living spaces that enhance the lives of people.

The pinnacle of PVC-U technology, the Imagine suite provides an uncompromising range of doors and windows that offer style, functionality, security and thermal performance in equal measure.

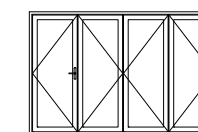
Available in a large
assortment of colours
and woodgrain options
from the popular
Variations range.

Products in this section:

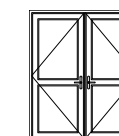
Vertical Slider



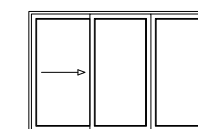
Bi-Fold Door



French Door



Patio Door



Features

Maximum sash sizes

1400mm (w) x 2450mm (h)

Outer frame

70mm x 146mm outer frame

Sash

50mm upper sash

64mm lower sash

105mm lower sash bottom rail

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range

Glazing beads

28mm sculptured

32mm sculptured

Ancillaries

Frame extensions and cills

Range of coupling options

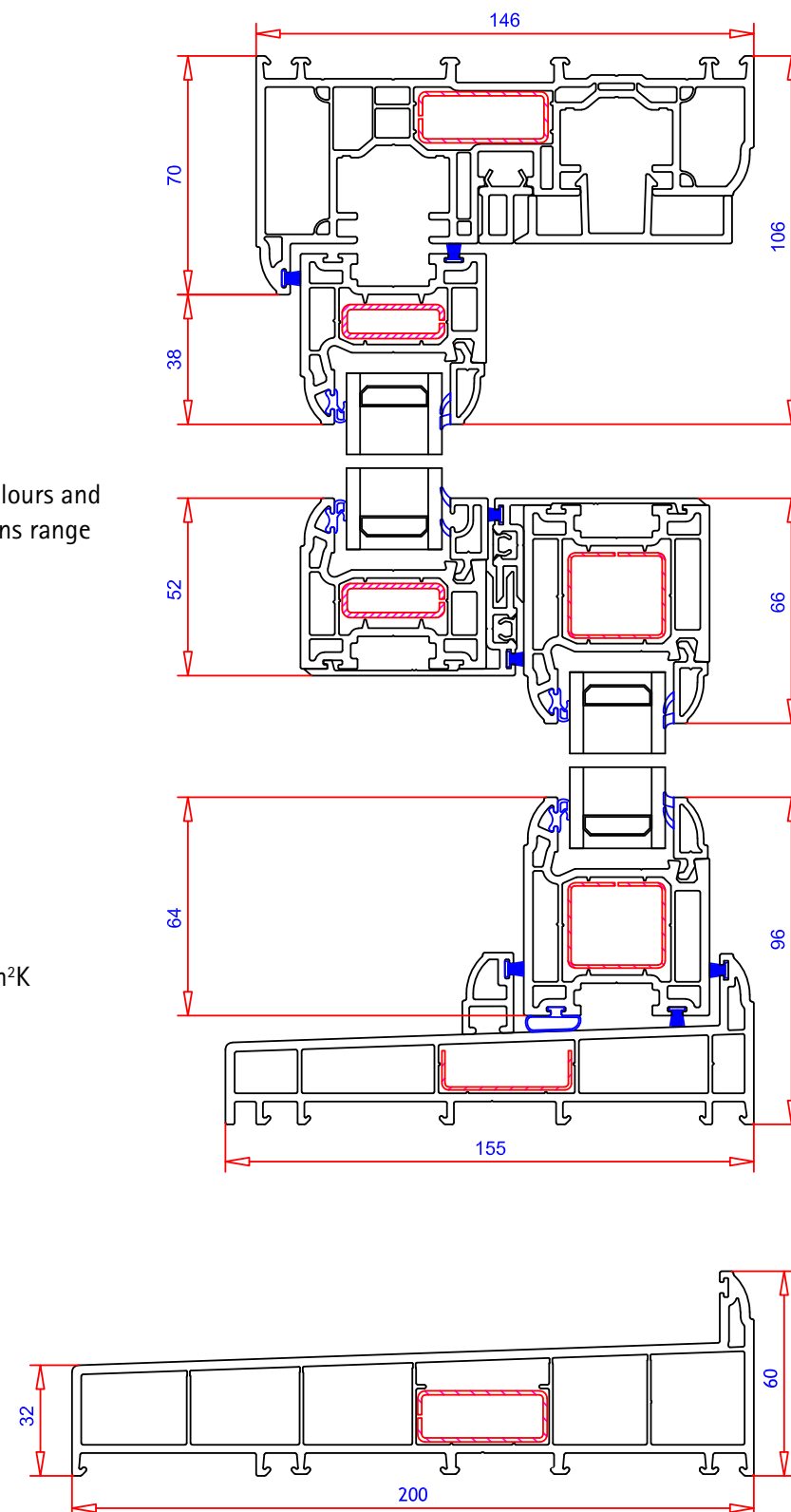
Range of bay pole options

Thermal performance*

Achieves U-values as low as 1.2 W/m²K using double glazing

* Figures can vary dependent on specification.

Technical Drawing



differs on Kitemark depending on hardware

Test Results

Door type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Vertical Slider	1400mm x 2450mm	Class 4	Class 7A	BE2400	2400

Features

Maximum sash sizes

Individual leaf: 998mm (w) x 2103mm (h)
 Maximum overall width: 6000mm

Outer frame

65mm outer frame

Mullions

68mm or 82mm mullions
 115mm midrail

Sash

80mm bevelled door sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

28mm bevelled
 28mm sculptured
 36mm bevelled
 40mm bevelled
 44mm bevelled

Ancillaries

Frame extensions, cills and thresholds

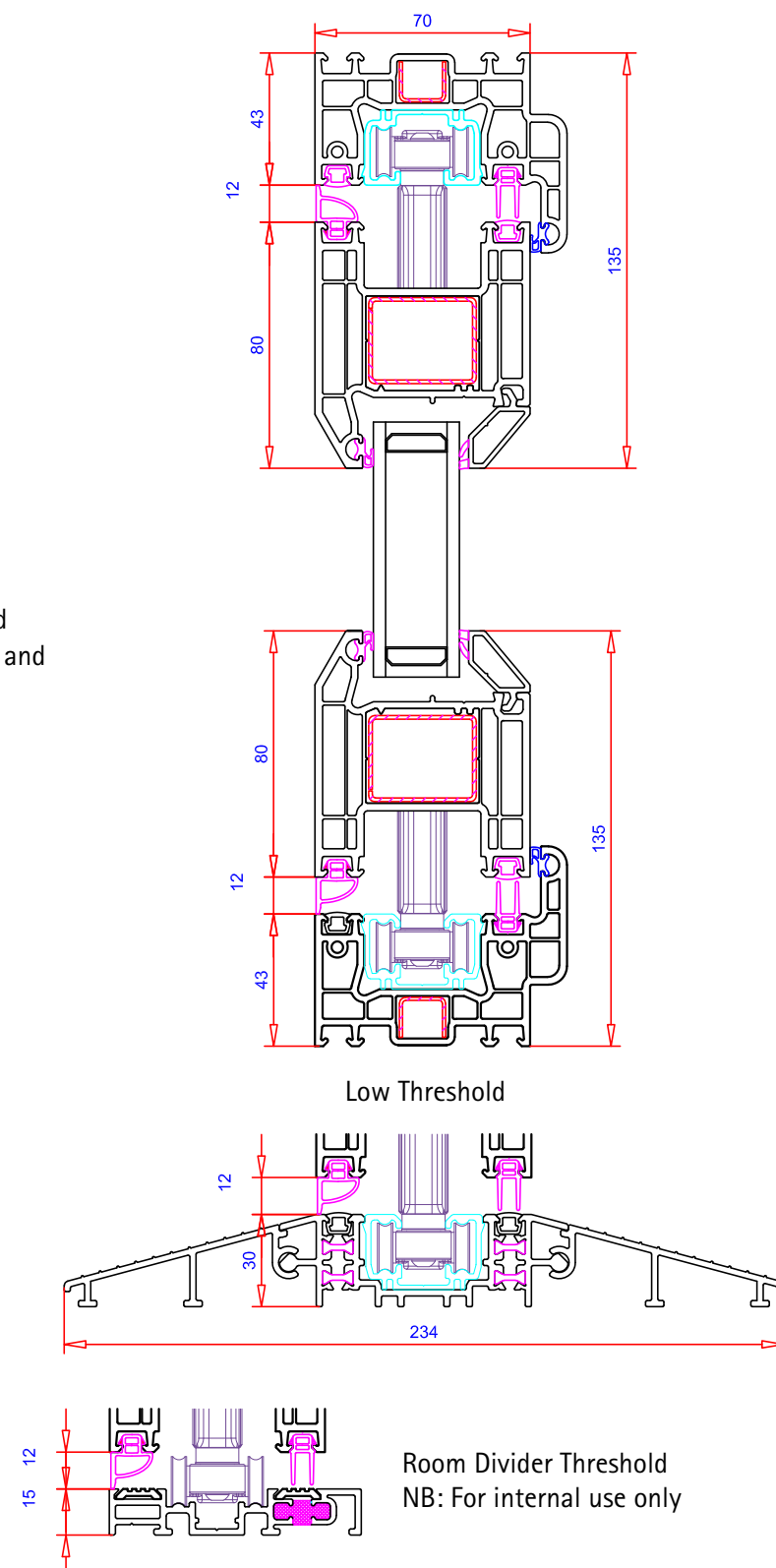
Thermal performance**

Achieves U-values as low as 1.3 W/m²K using double glazing
 Achieves U-values as low as 0.91 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



The Imagine Bi-Fold Door can be fabricated using M70 mullions for the bevelled sash only.

Test Results

Door type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Individual leaf	998mm x 2103mm	Class 3	Class 3A	A3	1200

Features

Maximum sash sizes

Residential: 998mm (w) x 2103mm (h)
 French Door: 998mm (w) x 2103mm (h)

Outer frame

65mm outer frame

Mullions

68mm or 82mm mullions
 115mm midrail

Sash

80mm bevelled door sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

28mm bevelled
 28mm sculptured
 36mm bevelled
 40mm bevelled
 44mm bevelled

Ancillaries

Frame extensions and cills

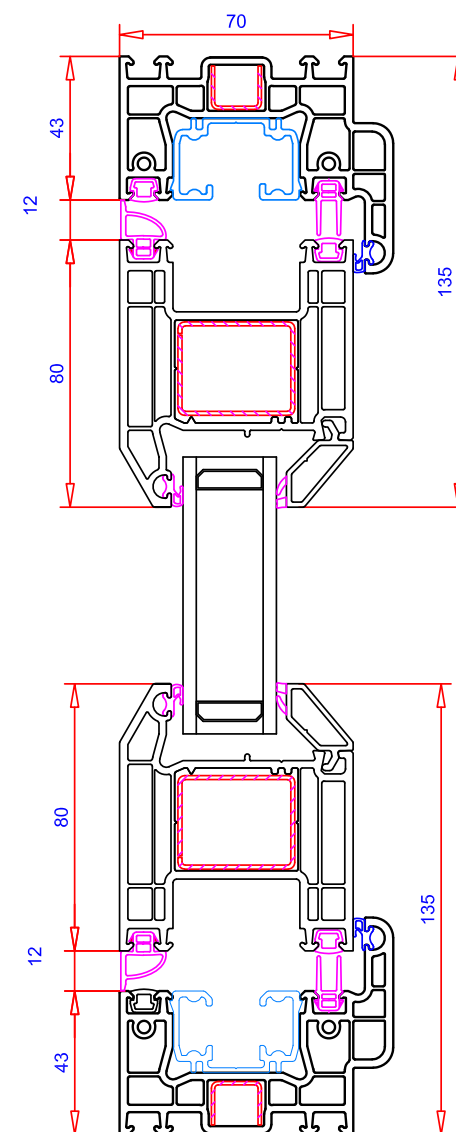
Thermal performance**

Achieves U-values as low as 1.2 W/m²K using double glazing
 Achieves U-values as low as 0.88 W/m²K using triple glazing

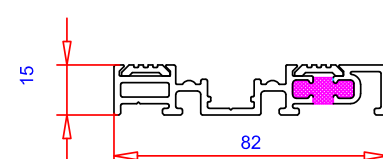
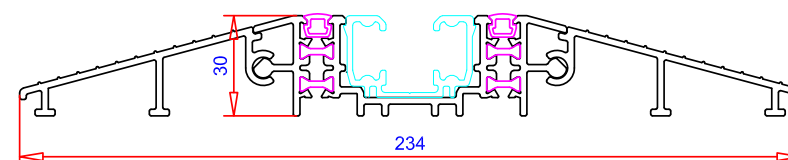
* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



Low Threshold



Room Divider Threshold
 NB: For internal use only



Imagine
 Bevelled
 Flush
 Door

Imagine Flush Doors (bevelled) can be installed with transoms and mullions from the M70 system.

Test Results

Door type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Individual leaf	998mm x 2103mm	Class 3	Class 3A	A3	1200

Features

Maximum sash sizes

Patio doorsets 2/3/4: 1053mm (w) x 2074mm (h)
 Patio doorsets 2/3/4: 1503mm (w) x 2329mm (h)

Outer frame

58mm outer frame

Midrails

116mm bevelled midrail

Sash

90mm bevelled door sash

Finishes

Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

Glazing beads

28mm bevelled
 28mm sculptured
 32mm bevelled

Ancillaries

Frame extensions and cills

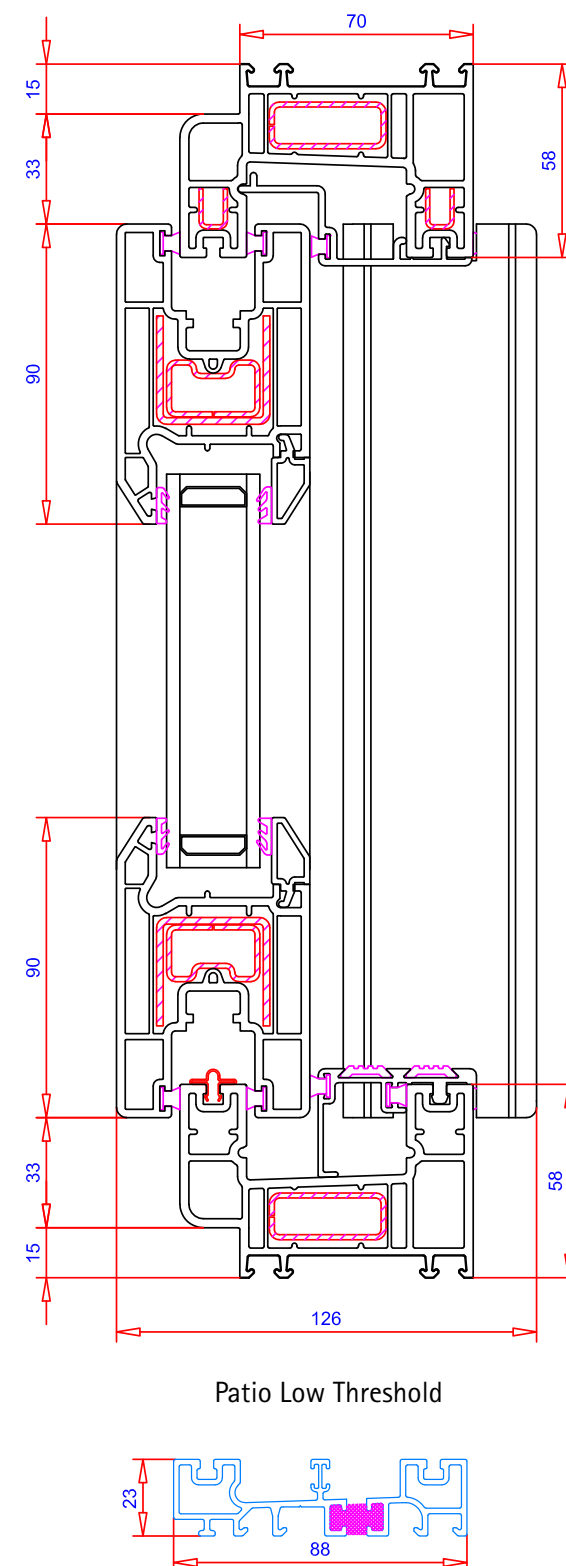
Thermal performance**

Achieves U-values as low as 1.4 W/m²K using double glazing
 Achieves U-values as low as 1.2 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



The 116mm midrail can only be used with the Imagine Patio Door. Due to the nature of the patio doors and their assembly, they should be classed as domestic products only and the location in which they are installed should be clarified in advance.

Test Results

Door type	Max sash sizes (wxh)	Air permeability	Water tightness	Resistance to wind	Exposure category
Patio doorsets 2/3/4 Pane	1053mm x 2074mm	Class 3	Class 5A	A3	1200
Patio doorsets 2/3/4 Pane	1503mm x 2329mm	Class 2	Class 3A	A2	800

Introducing Fully Reversible Window

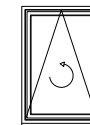
This fully integrated multi-bevelled system includes steel reinforcement for superior quality, security and energy efficiency.

The Fully Reversible window is ideal for multi-story properties. The 180 degree reversible opening mechanism pivots within the axis of the frame without protruding into the room to allow easy, safe and secure cleaning of the external glass from the inside of the property.

Available in a large
assortment of colours
and woodgrain options
from the popular
Variations range.

Products in this section:

Fully Reversible Window





Features

Maximum sash sizes
Fully Reversible: 1400mm (w) x 1400mm (h)

Outer frame
60mm outer frame

Mullions
86mm T & Z mullions

Sash
70mm reversible sash

Finishes
Available in a large assortment of colours and woodgrain options from the Variations range and SPECTRAL*

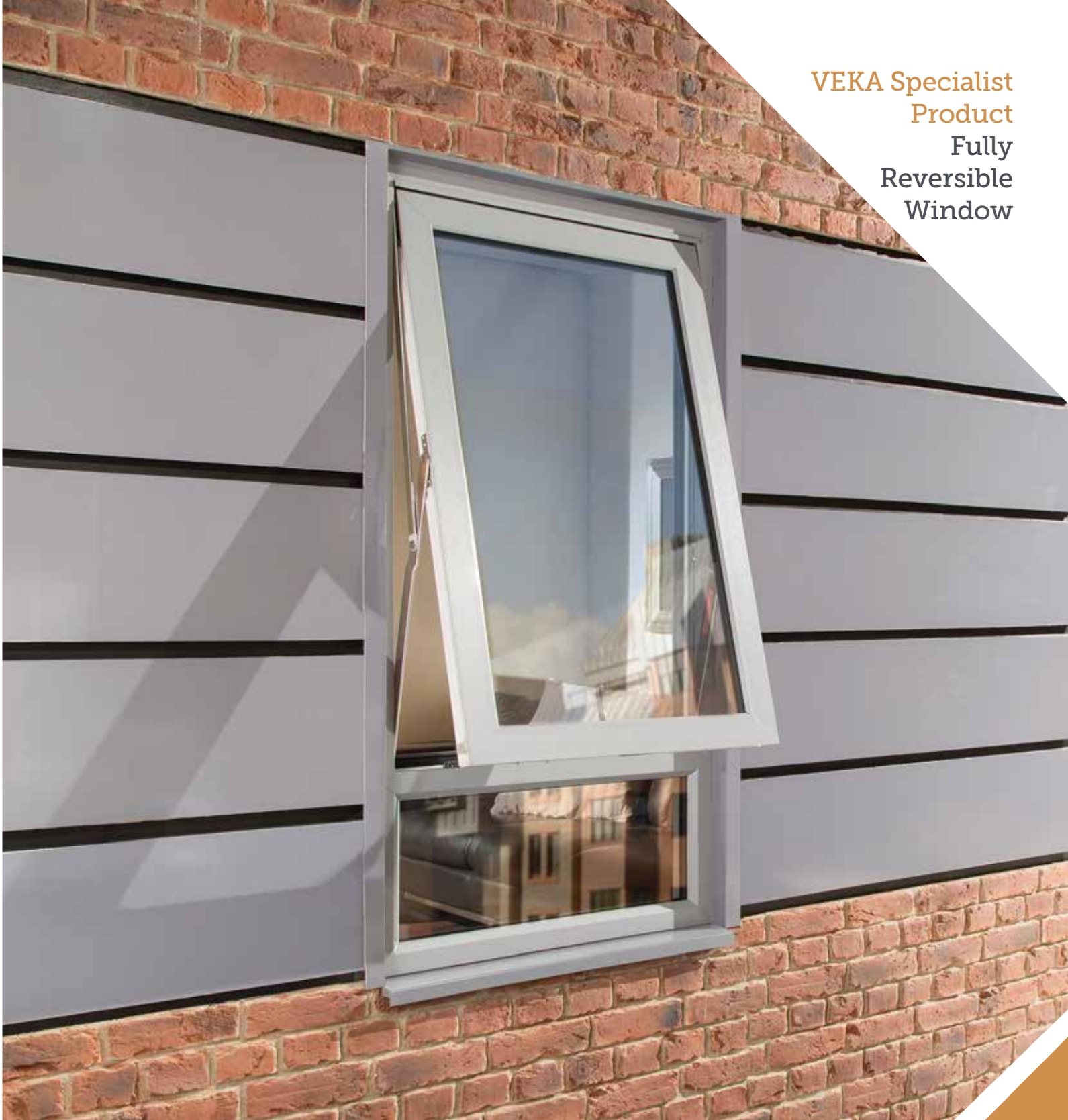
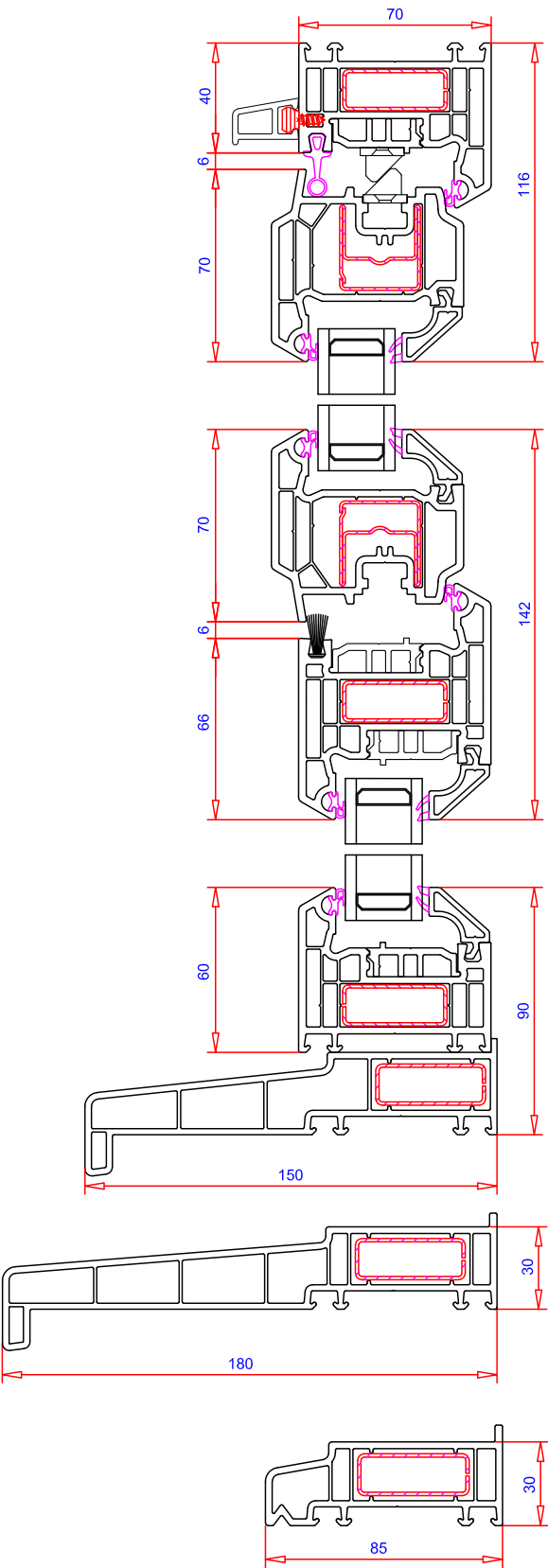
Glazing beads
28mm bevelled
28mm sculptured
36mm bevelled
36mm sculptured
40mm bevelled
40mm sculptured
44mm bevelled

Ancillaries
Frame extensions, cills and weathering trims
Range of coupling options
Range of bay pole options

Thermal performance**
Achieves U-values as low as 1.2 W/m²K using double glazing
Achieves U-values as low as 0.93 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.
** Figures can vary dependent on specification.

Technical Drawing



Test Results

Window type	Max sash sizes (wxh)	Air permeability	Water tightness	Exposure category	Exposure category
Top hung	1308mm x 1308mm	Class 2	Class E1050	AE2400	2000+
Fixed light	3000mm x 3000mm	Class 4	Class 8A	AE2400	2000+

Sustainability

Embrace the positive side of plastics! In the realm of windows and doors, PVC-U stands out as the epitome of energy efficiency. Unlike its counterparts, PVC-U is an excellent insulator, outperforming wood's porous nature and avoiding the thermal bridging and increased condensation associated with aluminium.

The window and door industry has made remarkable progress in the recycling and reuse of PVC-U. By assigning value to old frames, they are spared from ending up in the nearest skip. A typical UPV-C window frame boasts a lifespan of approximately 35 years and can undergo recycling up to ten times. This impressive cycle extends its true lifespan to an astounding 350 years. Once it completes this extensive journey, it can be repurposed into various items that do not demand the same high-quality PVC-U.



Imagine the possibilities for your window's future!

At VEKA plc, our commitment to sustainability is unwavering. In 2022, 28% of all total PVC-U extruded consisted of recycled content, exemplifying our dedication to creating eco-friendly systems.

VEKA plc and VEKA Recycling join forces for a Sustainable Future

As part of the Global VEKA Group's forward-thinking strategy and ongoing investment in our businesses, we are pleased to announce that VEKA Recycling is set to become a subsidiary of VEKA plc.

This strategic move is designed to foster a seamless collaboration, allowing us to operate as "one team" with a shared vision for the future. The primary focus is on enhancing our ability to efficiently source and recycle input materials, utilising them in the creation of brand-new PVC-U products.

VEKA Recycling: Pioneering Sustainability in Northamptonshire

Situated strategically in Northamptonshire, our groundbreaking initiative stands as the largest of its kind nationwide. We take great pride in our mission to complete the cycle of PVC-U recycling. Employing cutting-edge technologies, we transform PVC-U into pelletised form, which is then supplied to certified extruders for the creation of innovative building materials. This not only combats resource depletion but also prevents the disposal of this versatile material into landfills across the country.

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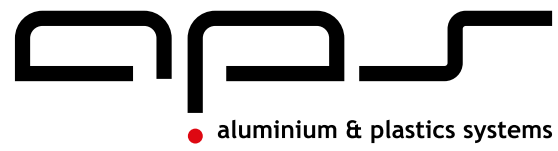
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