



WE CARE
WE ACT


SPECIFICATION

2022

GUIDE



A full technical
guide to all
VEKA plc products



As the UK's largest systems company with over three decades of experience designing and extruding pioneering PVCu profile systems, our vision is that VEKA will be the brand of choice, based on a heritage of trust, efficiency and commitment.

To help us achieve our vision we believe that investing in our people, products and services is key to delivering the best customer experience in the industry at every point within our supply chain, from architects, specifiers, fabricators, installers, public and private sector clients to homeowners.





imagine

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About us.

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 PVCu 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 PVCu 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 PVCu 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 PVCu 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 PVCu 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 we 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 PVCu

Energy Efficiency

At VEKA Group, we offer some of the most energy efficient frames on the market today. The UK's first BFRC A-rated PVCu 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 PVCu 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 PVCu 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 PVCu 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 PVCu 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 PVCu 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 PVCu window and door components and extrusion and to Environmental Management System ISO 14001:2004 in the design and manufacture of PVCu window and door systems.



WE CARE
WE ACT

Variations:2022

Ex-Stock Colour Range

**All the colours in our
Variations ex-stock
range, share the
same lead time as our
standard profile.**

To request an
ex-stock swatch
book email
salesenquiry@veka.com

**98% of our orders are
fulfilled from stock. Our
delivery promise for
stocked items is order on
day 1, delivery on day 3.**



SPECTRAL

at a glance

SPECTRAL is an exclusive material developed by VEKA Group. The innovative surface uses ground breaking technology to create ultrasmooth, ultramatt finish that has unrivalled performance benefits.

Request a swatch
book for our full
range of SPECTRAL
colour options

VEKA

Exclusive to VEKA

Refined, elegant and durable



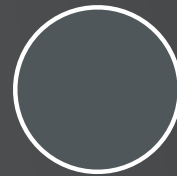
High resistance to UV light

Velvet like surface

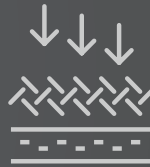


Anti fingerprint

10 YEAR guarantee



Available in Anthracite Grey Ex-Stock



High resistance to scratches



High resistance to extreme weather



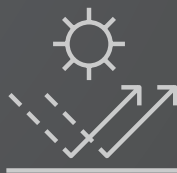
Also in 3 MTO colours



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

Product overview



Casement Windows

Casement Windows are a popular and versatile window style suitable for all commercial or residential buildings. Choose from a range of sash sizes and opening styles including side hung, top hung or multi-light. Additional features can be added including mock horns and Georgian bars. Casement Windows are available in a choice of 70mm bevelled or sculptured profile systems from VEKA and Halo.



FlushSash Windows

Crafted using VEKA Matrix Fully Sculptured, Halo System 10 or Halo Rustique profile systems, FlushSash sits true to the frame offering the traditional appearance of timber. The system is as versatile as it is beautiful and offers a range of optional features including mechanical or fully welded joints, heritage hardware and Georgian bars. FlushSash is available with slim sightlines and a concealed mullion, ideal for replicating windows requiring planning consent in conservation areas.

Product overview continued



Imagine Patio Door

The Imagine Patio Door can be tailored to any application with a range of optional configurations including a choice of two, three or four pane styles, option for both doors to slide, internal or external sliding sashes and multiple thresholds including a low easy access option that is compliant with local building regulations. The Imagine Patio Door is available with a choice of bevelled or sculptured sashes and has been designed with a clever interlock for increased security.



Contents



VEKA plc Windows and Doors



Introducing System 10

Offering complete versatility with a clean, contemporary appearance System 10 is a fully integrated 70mm system featuring a modern bevelled design. This technically advanced multi-chambered system has a variety of reinforcement options and thermal inserts for advanced performance, added security and thermal benefits.

The suite can be integrated with the Rustique 70mm sculptured system.



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



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

56mm, 72mm and 84mm outer frames

Mullions

70mm or 95mm mullions

Sash

75mm casement sash

Finishes

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

Glazing beads

24mm sculptured
24mm bevelled
28mm sculptured
28mm bevelled
32mm sculptured
32mm bevelled
36mm bevelled
40mm bevelled

Ancillaries

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

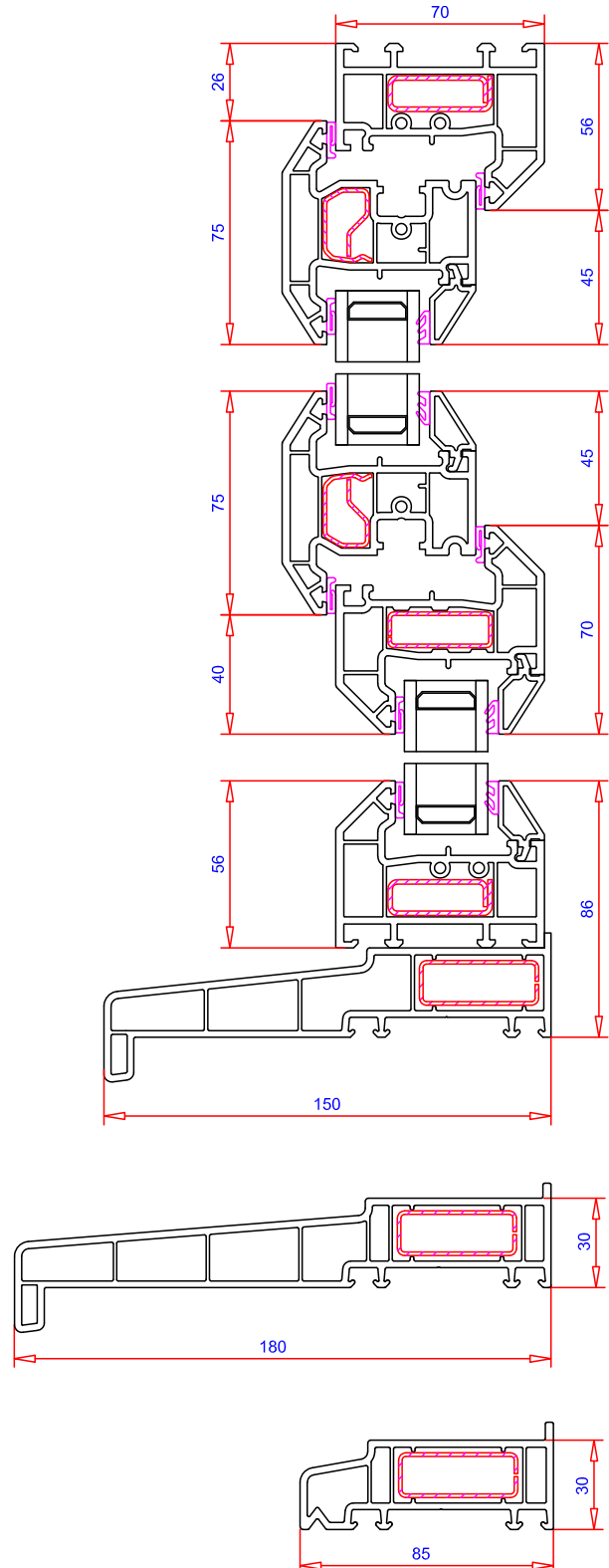
Thermal performance**

Achieves U-values as low as 1.2 W/m²K using double glazing
Achieves U-values as low as 0.95 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



System 10 Casement Window



Test Results



| Window type | Max sash sizes (wxh) | Air permeability | Water tightness | Resistance to wind | Exposure category |
|-----------------------------|----------------------|------------------|-----------------|--------------------|-------------------|
| Top hung reinforced | 1400mm x 1400mm | Class 3 | Class 7A | A3 | 1200 |
| Side hung reinforced | 800mm x 1550mm | Class 4 | Class 8A | A4 | 1600 |
| Fixed light part reinforced | 3000mm x 3000mm | Class 4 | Class E750 | A4 | 1600 |



Introducing Rustique

Combining the authenticity of a traditional sculptured window with the modern performance benefits of PVCu, Rustique offers the ultimate solution for when aesthetics, performance and value are demanded.

Expertly extruded, the system is multi-chambered with a variety of reinforcement options and thermal inserts for advanced performance, security and thermal benefits. The suite can also be integrated with the System 10 bevelled edged systems for versatility.



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



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

56mm, 72mm and 84mm outer frames

Mullions

70mm or 95mm mullions

Sash

76mm casement sash

Finishes

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

Glazing beads

24mm sculptured

28mm sculptured

32mm sculptured

36mm bevelled

40mm 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

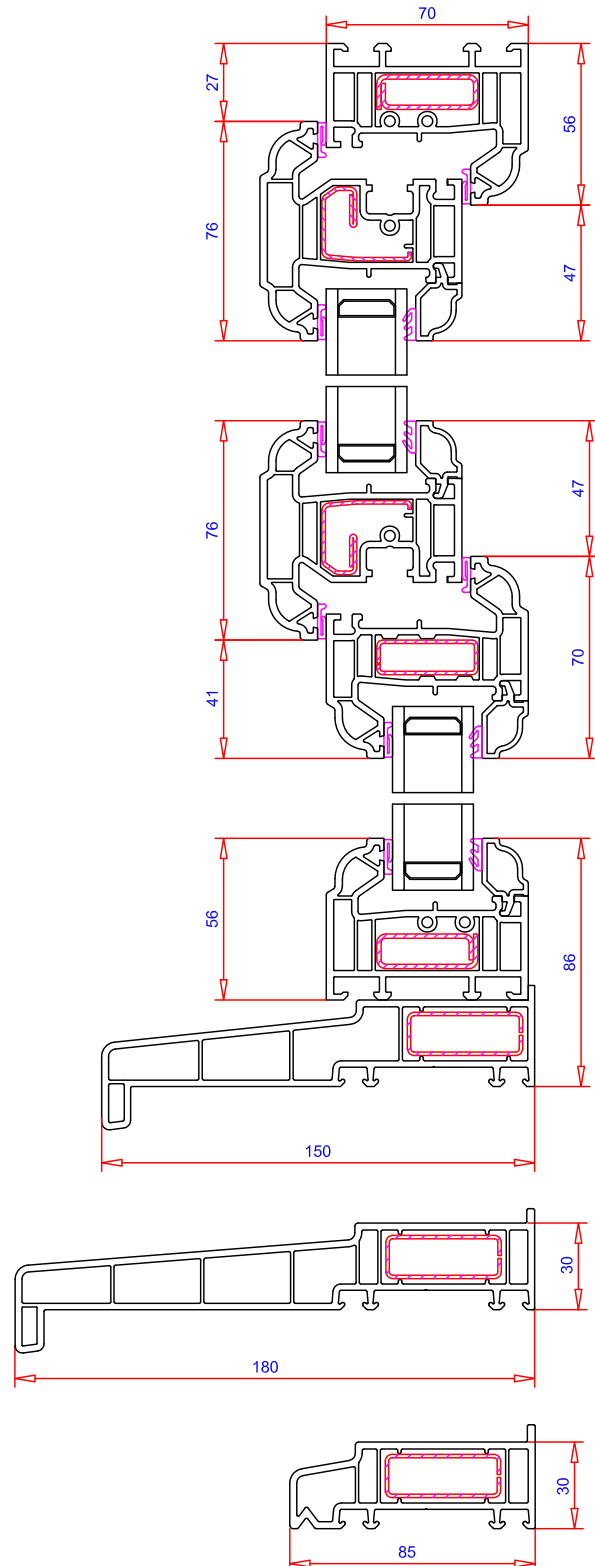
using double glazing

Achieves U-values as low as 0.80 W/m²K

using triple glazing

* Figures can vary dependent on specification.

Technical Drawing



Rustique Casement Window



Test Results

| Window type | Max sash sizes (wxh) | Air permeability | Water tightness | Resistance to wind | Exposure category |
|-----------------------------|----------------------|------------------|-----------------|--------------------|-------------------|
| Top hung reinforced | 1400mm x 1400mm | Class 3 | Class 7A | A3 | 1200 |
| Side hung reinforced | 800mm x 1550mm | Class 4 | Class 8A | A4 | 1600 |
| Fixed light part reinforced | 3000mm x 3000mm | Class 4 | Class E750 | A4 | 1600 |



Features

Maximum sash sizes

Top hung: 620mm (w) x 1270mm (h)

Outer frames

56mm, 72mm and 84mm outer frames

Mullions

70mm or 95mm mullions

Sash

61mm FlushSash

Finishes

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

Glazing beads

24mm sculptured
28mm sculptured
32mm sculptured
36mm bevelled

Ancillaries

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

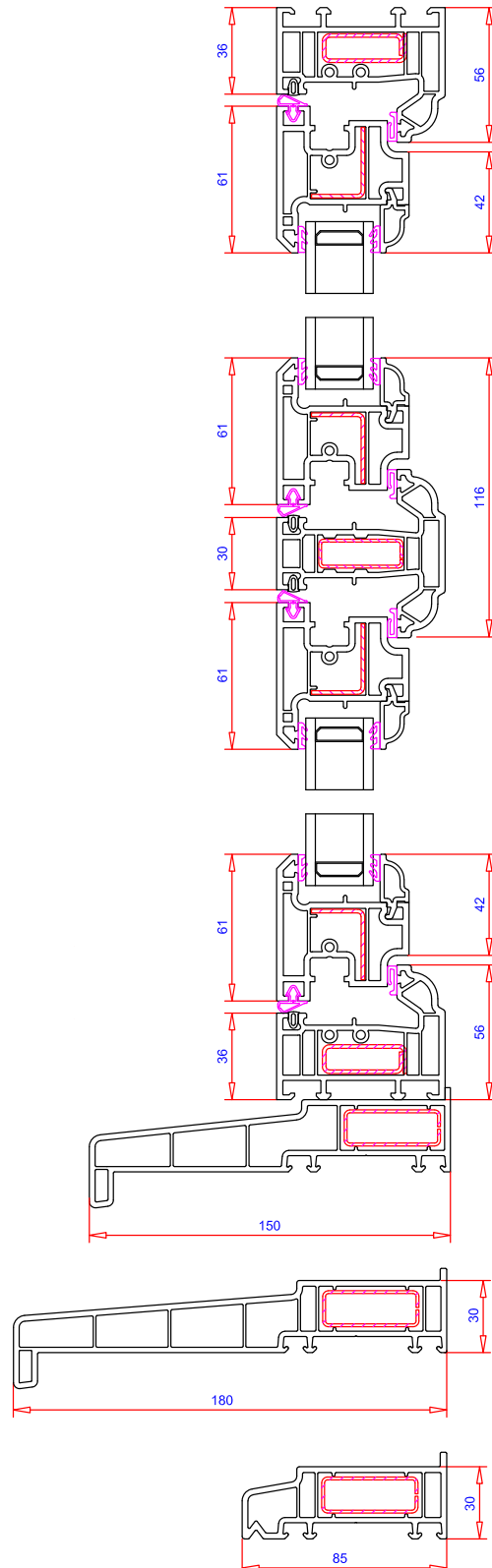
Thermal performance**

Achieves U-values as low as 1.2 W/m²K using double glazing
Achieves U-values as low as 1.0 W/m²K using triple glazing

* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



Rustique
FlushSash
Casement
Window



Test Results


| Window type | Max sash sizes (wxh) | Air permeability | Water tightness | Resistance to wind | Exposure category |
|----------------------|----------------------|------------------|-----------------|--------------------|-------------------|
| Side hung reinforced | 620mm x 1270mm | Class 4 | Class 9A | A4 | 1600 |



Introducing Imagine

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

The pinnacle of PVCu 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.

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**

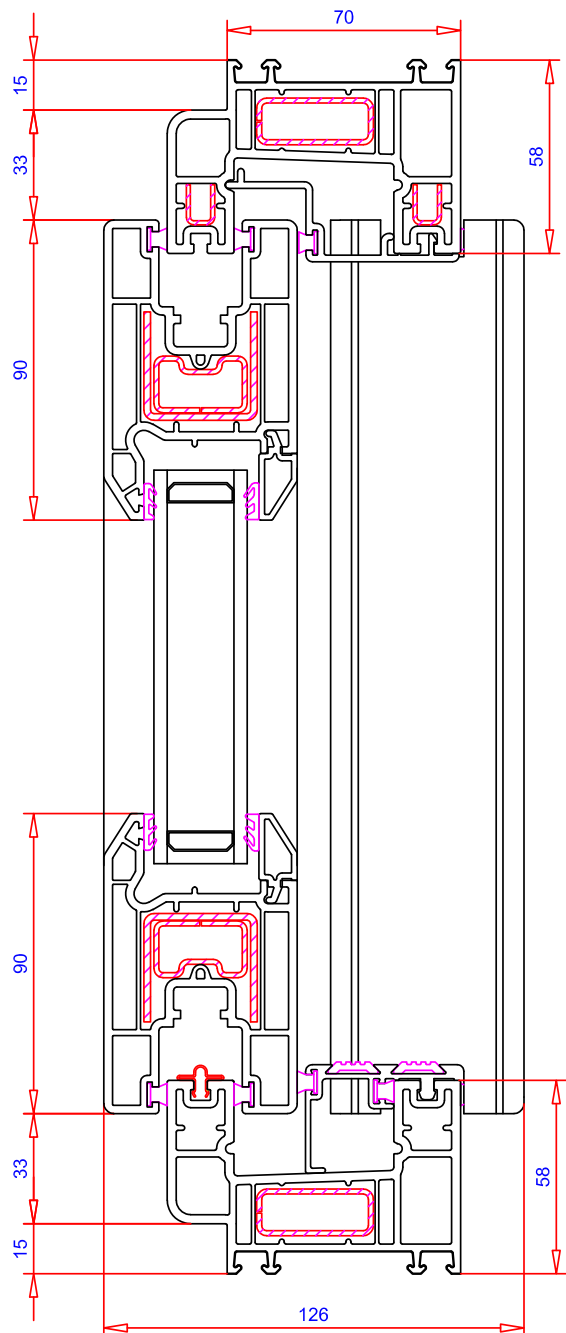
Achieves U-values as low as 1.4 W/m²K using double glazing

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

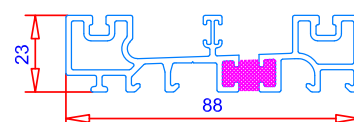
* SPECTRAL is only available on bevelled or flat surfaces.

** Figures can vary dependent on specification.

Technical Drawing



Patio Low Threshold



Imagine
Bevelled
Patio Door



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 |



**VEKA
Recycling**

VEKA Recycling *our most important partnership*

While so many in our industry have all been challenged sourcing raw materials to support volumes during the pandemic and Brexit, we have had VEKA Recycling to support us. This has put us in an incredibly strong position. At times this year they have delivered five times the level of product that they were contracted to.

We are very fortunate that VEKA Recycling is also part of the VEKA Group. The first UK VEKA recycling initiative opened in 2007 working out of a state-of-the-art facility. Now in Wellingborough, it has grown into Europe's most advanced Recycling Centre.

With virgin material so hard to source, our lines may well have struggled without this strong partnership. Working together helped us mitigate supply issues during the pandemic and maintain an impressive delivery performance. It's this partnership that won us the G21 Best Sustainability Initiative Award.

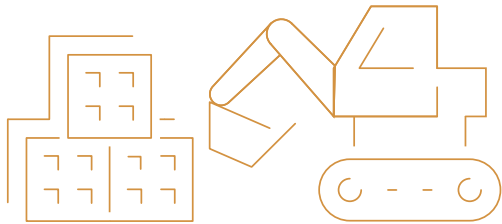
Using recycled content has always been an important part of the sustainability agenda at VEKA plc, but in 2021 we saw it go from being the right thing to do, to being a critical element

of our overall performance; it's gone mainstream, and in 2022 we will be ordering 50% more recycled content than in 2021.

But the amount of recycled material we use is determined by what is put in. Which is why we encourage fabricators and installers to use VEKA Recycling, to help secure their own supply, while also strengthening their own sustainability message to their customers.

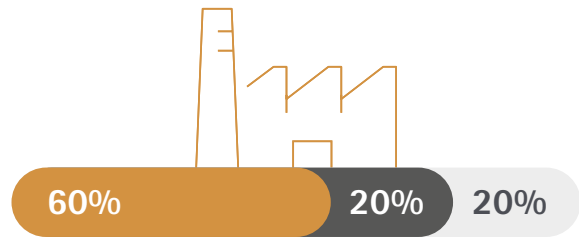


**IN 2021 VEKA RECYCLING DIVERTED
1.35 MILLION
FRAMES FROM LANDFILL IN THE UK.**



In 2021 VEKA Recycling processed over **89,800 TONNES** of PVCu across Europe.

OUT OF ALL THE FRAMES THAT COME INTO VEKA RECYCLING



- Converted to new plastic material
- Rubber, dust, brick etc which is also sent off for further recycling
- Metals



At VEKA we don't believe in eco-ranges, because we believe every product we produce should be manufactured in as sustainable and ethical a manner as possible. We have committed to grow our use of recycled material. In 2021

19%

of recyclate was used in our profile and in 2022 WE AIM TO INCREASE TO

25%.



In 2022 VEKA Recycling aim to divert 1/3 more windows from landfill to achieve a total of **1.8 MILLION FRAMES.**





WE CARE
WE ACT

All our window systems

are ready to meet a

U-Value of 1.2

W/m²K

Download our

BLACK
WHITE *£*

Guide to U-Values
at veka.co.uk

QUICK

WIN

FABRICATORS
ARCHITECTS
& SPECIFIERS



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REQUEST A DEMO

Go to veka.co.uk/windoplan

WinDoPlan



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