

how aluminium has changed

Aluminium windows and doors throughout the 1970's and 1980's, were problematic on many levels.

Aluminium was the first material to really be used for mass-produced double glazing due to it's strength and relatively slim appearance. The double-glazed glass units were quite effective but the aluminium frames not only transmitted cold back into the home but also didn't retain the heat generated indoors due to the conductive nature of the metal. Warm moist air from indoors would hit the aluminium frames, condense into water droplets and form pools of water at the base of the window.

To try and insulate the aluminium window, they were installed into hardwood timber frames which helped, however, over time the condensation would start and would rot the timber frames.

The combination of relentless condensation and slowly rotting timber gave rise to the formation of dangerous mould spores and respiratory issues with people's health.

Today, modern aluminium windows combine energy efficiency with longevity

Our modern aluminium systems separate the inner and outer parts of the window with a polyamide (nylon) section which prevents the cold being transmitted through the window.

This is referred to as a thermal break and it insulates the window very effectively and removes the need for the window to be set into a timber frame. Not only does this reduce the cost of the whole window but it also gives it a slimmer appearance.



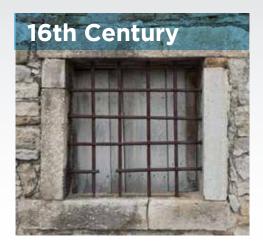
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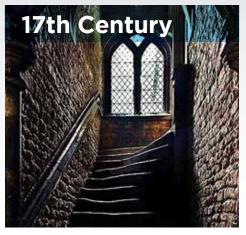
how the window has evolved in Britain...



Throughout the 1500's windows were merely stone and timber frames with no opening casements.

Most window frames were unglazed and relied on either shutters or oiled cloths hung over these openings to protect the insides of the building.

Glass was scarce and couldn't be produced as large panes. This meant that smaller pieces of glass had to be used and were held together by lead sections to produce larger glazed windows - this is what we now refer to as leaded-lights. Opening casement windows started to appear before the end of the century.



By the 1600's, window designs had become taller and narrower with leaded-lights becoming common place. As the century progressed, glass became more popular and started to be produced in larger panes.

Timber framed windows became more popular with timber astragal bars allowing multiple panes of glass to be combined to enable larger windows. The range of frames also increased, and details such as the Ovolo moulding becoming popular for stone mullions. Opening casements started to make an appearance too.



Sliding sash windows became more popular as window frames continued to be narrower and thinner. These early sash windows replaced the casement windows that had been used up to this point.

Plate glass was introduced in the 1770's, which contributed to the decline of the astragal barred window and enabled larger windows to be produced with less individual panes of glass.

Even the most humble of homes would now have had opening sash windows as they became increasingly more affordable.



The industrial age enabled wider manufacturing techniques and an abundance of materials including larger panes of glass to be used.

Projecting windows, such as bay and bow windows, became more popular in homes.

Three movements influenced the style of windows in the late nineteenth century: the Gothic revival, which introduced wroughtiron window frames, the Arts and Crafts movement, which brought back leaded lights, and the Queen Anne style for sash windows.

...over the last 500 years...



The modernist style of 1920's buildings incorporated new, slim steel frames. Post-war construction in the 1940's saw an increase in available materials and many new house styles.

Developments made in the aircraft industry during the war meant aluminium became a viable alternative for window construction, alongside popular painted softwood frames.

By the 1970's and 80's many homeowners started to replace their timber windows as double glazing was introduced to improve insulation in their homes.



Aluminium and PVCu became more popular, offering longer lasting and maintenance free solutions alongside a wider choice of frame styles, including aluminium frames with timber inserts that were cheaper than their hardwood timber alternatives.

As lifestyles and tastes changed the demand for narrow window profiles and large expanses of glass led to aluminium becoming very popular in modern building design.

Basic Window Terminology

CASEMENT

A **typical outward-opening window** incorporating top and/or side hung openers. Sometimes referred to as a 'vent'.

WARM EDGE SPACER

The **insulating profile** that separates the inner and outer panes of glass used in the double-glazed glass unit

WER

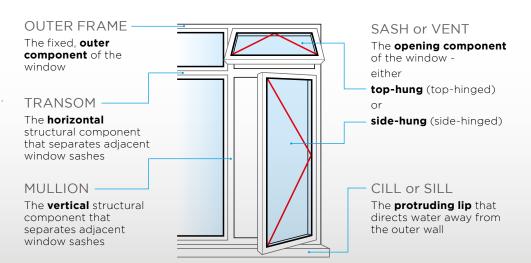
Window Energy Ratings, a simple A - G rating system as used on 'white goods' to help assess energy efficiency

THERMAL BREAK

The **insulating profile** that separates the inner and outer parts of the frame and sash.

LOW-E GLASS

Low-E stands for low-emissivity glass. This glass has a special invisible coating to create a type of **insulating glass** which works by letting in energy from the sun and minimising heat loss from indoors







INTRODUCTION

slimmer, stronger, lighter...

Aluminium is stronger and lighter than equivalent materials such as PVCu or good quality timber.

This strength allows for windows and doors to be manufactured in slimmer designs which in turn allows for greater areas of glass. More glass means more light coming in and a less obstructed view out.

Window designs such as bays and bows look very bulky and heavy in PVCu - by using aluminium you can reduce the size of the unions quite considerably between each window segment.

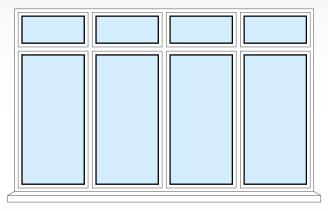
Very little maintenance is required to ensure a very long life and to retain their original appearance.

Available in a wide range of RAL colours

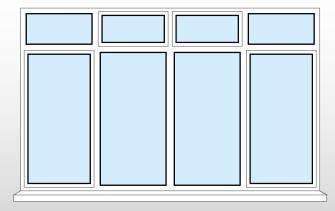
dummy sashes, equal sight-lines

A 'dummy-sash' refers to a non-opening sash which is inserted into the frame to achieve a symmetrical and evenly proportioned sight-line.

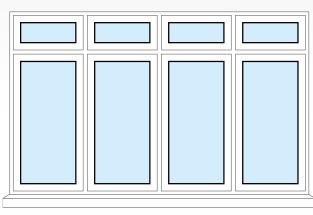
These illustrations of Aluminium and PVC-u windows clearly demonstrate the differences between the different materials but also how the **'unequal sight-line'** appearance is more noticeable in PVC-u.



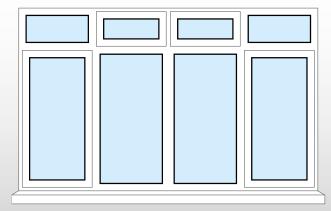
Aluminium EQUAL SIGHT-LINES



Aluminium UNEQUAL SIGHT-LINES



PVC-u EQUAL SIGHT-LINES



PVC-u UNEQUAL SIGHT-LINES





A flatter, slimmer sash helps defines the style of the Contemporary range with a square or chamfered glazing bead. Simple, sleek lines work on many styles of property but probably more suited to a modern home.

■ AW690 sash has a chamfered profile glazing bead to achieve a strikingly slim and uncluttered appearance.



Through innovative design and superior build quality this window system offers high thermal and acoustic performance alongside the inherent strength and low maintenance benefits of aluminium to make your home safe and secure.





The Contemporary range also encompasses slim, flat sashes together with large expanses of glass to offer an almost uninterrupted view from within.

■ AW685 Simple flat profile design looks very modern and is easy to coordinate with other contemporary products such as sliding patio doors and bi-folding doors



Opening up a room to let the light flood in, these windows have narrow framing and can offer uninterrupted glazing to a height of 2 storeys.

Get the look with the ultimate in maximum glazing, minimum framing aluminium window systems and add a whole new perspective to your home.





MODERN & TRADITIONAL

french doors

French Doors are undoubtedly considered the 'traditional' method of entering the garden or rear of your home but it still can have a modern feel if needed. Again, the slimmer profiles maximise incoming light and offer a greater view from indoors.



Traditional chamfered profiles give the projecting appearance of timber whilst flatter profiles suit the modern aesthetic. A flush appearance can be achieved using bi-fold door profiles for a very sleek design.

Platinum NRG 15



entrance doors

Our range of high performance entrance doors have safety and security at the heart of their manufacture.

Available in single and double door configurations, our entrance doors are available in a complete range of glazing formats and include several added security features, including multi point locking mechanisms.



















Our entrance doors are available in a wide variety of colours, finishes and formats to best complement your home.







MODERN

entrance doors

Our Aluminium doors perform well against the rigors of the British weather, reducing draughts and providing excellent weather proofing. This enables the doors to maintain their high performance even in the most extreme locations.

Security concerns are alleviated by the use of the superbly engineered and 'Secured by Design' approved Winkhaus Key-Wind Lock - a multi-point locking mechanism allowing our doors to exceed the requirements of PAS 24 (Enhanced Security).







CHAMONIX 3

MERIBEL4

VALNORD2



COLOGNE 4



COURCHEVEL3



ELORN 1





VERBIER3



MOLVINO 1

VEYSONNAZ3



MORZINE 1



VEYSONNAZ5



ZERMATT3





MODERN

sliding patio doors



Our range of in-line premium aluminium doors offers high performance complemented by stunning design to add a modern and stylish look to your home, opening your living space to the outside. Combining unique system design with a range of configurations they will enhance your home whilst keeping the weather at bay.

Built to the highest standards our patio door range combines flexibility with design and security to ensure your comfort and peace of mind.



3 distinctive styles to suit many different homes

BSF70

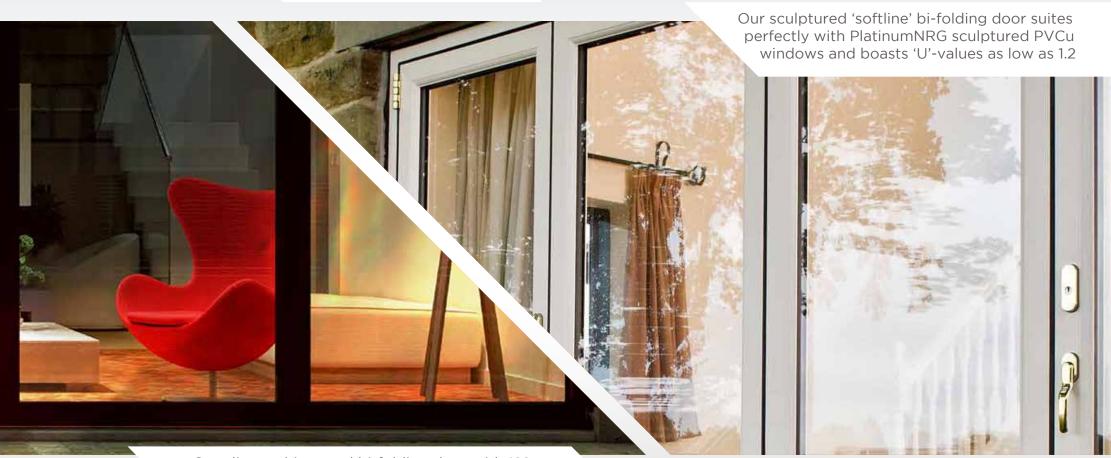
luminia F82



Our standard bi-folding door with 140mm meeting stiles and door sizes of up to 3000mm tall and 1000mm wide along with 'U'-values as low as 1.6

MODERN bi-fold doors

ALUMINA



Our slim, architectural bi-folding door with 122mm meeting stiles and door sizes of up to 1200mm wide along with 'U'-values as low as 1.3



Our range of bi-fold doors enables you to expand your living space by opening up wide expanses of your external walls to your outside space. Whilst at the same time keeping the weather out and the heat in during cold months.

Our bi-fold doors are built to your needs, offering you a bespoke solution every time, from the configuration of the doors to the handles, accessories and colour, making our bifold doors the perfect addition to your home.



- Wide range of configuration options
- High performance glazing and design
- Minimal profiles for a modern look
- Complete range of handles and accessories
- Unique flush line pop-out handle option
- Full range of standard and bespoke colours
- Dual colour option for inside and out
- Chamfered and square bead options
- Sturdy and reliable sliding mechanism
- Low threshold option for room dividers
- High performance as standard





MODERN Id doors BSF70 Call 0800 652 3151 for your nearest dealer or go to www.platinumNRG.c



New, contemporary traffic door handle and escutcheon plate.

A contemporary, stylish bi-folding door. With thinner sightlines and interlock of 122mm that provide larger glazing panels without compromising on performance.



122mm Slimline Interlock/ Meeting Stile



97mm Slimline sight-line



Heavy-duty, compact rollers as standard.











MODERN

Iuminia F82 bi-fold doors







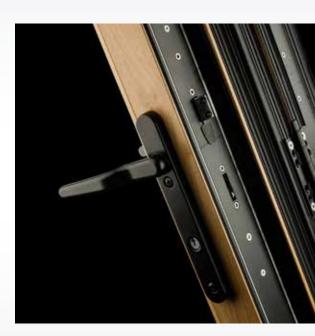
Unique, flush 'pop-out' handle for ease of operation removes the need for an additional 'D'-handle to open additional door leaves.



Uniquely designed by the experts at Liniar, the Alumina bi-fold is a 'true' aluminium door - able to span up to 1.2 metres wide per sash and 2.5 metres high, with optional warm-touch foiled exterior and superior U-values - yet manufactured in the same traditional way as other aluminium systems.







Alumina takes all the benefits of an aluminium door and adds extra features to make it the perfect choice where you need strength with size. And as it's designed to perfectly match Liniar's range of thermally efficient PVCu windows, you can mix and match for an overall cost effective installation.









ALUMINA BI-FOLD

All Alumina bi-folding doors are available with three threshold options, for the ultimate choice.

The **STANDARD** rebated aluminium frame runs seamlessly around to form a weather-tight threshold, and the doors are supplied with this as standard.

Our **OPTIONAL** aluminium low threshold requires no trench excavation to install, and is just 23.5mm at its highest point.

Add an **OPTIONAL** tray to the low threshold to make the bi-fold doors Part M compliant for wheelchair access and family living.



Rebated Aluminium Frame



Thermally-broken Low Threshold



Thermally-broken Part M Threshold







A MODERN SOLUTION TO AN AGE-OLD PROBLEM

Over the last few hundred years it has been very common to install steel and more recently, aluminium windows into a timber subframe.

Due to the inherent long-term problems of timber in terms of rot and degradation it can often render a window installation dangerous or ineffective.

To maintain this traditional appearance the only options have been to install a new timber sub-frame or to lose the timber appearance altogether and replace the whole window with either PVCu or timber.

Now however, we have a new solution.

A solution that incorporates our evolutionary Revival 85mm frame into which our range of aluminium windows can be installed. The Revival frame can be produced in a flat colour or with a woodgrain finish to emulate the appearance required.

A solution that is far cheaper than timber and gains the low-maintenance qualities of PVCu along with it's longevity.





- Our traditional Chamfered window using the AW604 slim frame, the AW610 externally-glazed sash with the AW513 chamfered glazing bead
- A combination of sashes and dummy sashes create a good timber-look installation with slim sight-lines and sealed-in Georgian bars for easy cleaning.
- ▼ The sash and bead also ► lend themselves well to older properties RAL9005 Black with diamond-leaded lights.





Highly flexible and adaptable, our Chamfered range is ideal for homeowners looking for a traditional framing look. The sash protrudes from the frame with a chamfered profile around the outer edges and a chamfered glazing bead.

The chamfered glazing bead emulates the style of a typical timber window as it gives the appearance of having held the glass in place with putty - what we refer to as a 'putty-line appearance'.



Our traditional Ovolo window is essentially the same window as our traditional Chamfered but uses a sculptured (or Ovolo) profile around the outer edges of the sash. This gives the sash a more decorative appearance and is often referred to as 'soft-line'.

Again, this would be found on period timber windows and can be glazed with either the putty-line chamfered bead or a square bead.

 Our traditional Ovolo window using the AW604 slim frame, the AW613 externally-glazed sash with the AW513 chamfered glazing bead





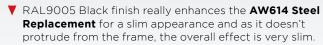




One of many great advantages in using aluminium is when it comes to creating bay windows. It's slim dimensions allow for the bay corners to be far less bulky than when using PVCu. The bays can be made even slimmer if you choose an unequal sight-line design and keep opening sashes at either end of the bays. Even if you opt for the more uniform appearance of equal sight-lines the bay is still comparatively slim.

Our Steel Replacement window using the AW622 frame, the AW614 internally-glazed sash with the AW663 flat glazing bead











All our window systems are ideal for the creation of Bay Windows, offering a solution with a classic profile and innovative design to suit your home.

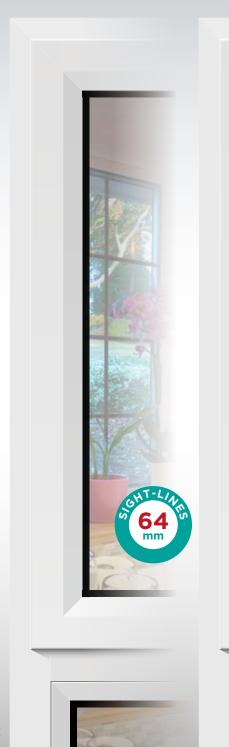
Made from high-performance aluminium, our Bay Window systems are a sustainable and reliable solution and provide the perfect solution for traditional and modern bay windows.

Designed to offer a low maintenance, high performance solution, our Bay Windows are kite-marked and rated A for energy efficiency.

sashes lie flat against the outer frame but still retains a chamfered 'putty line' around the glass.

Dummy (non-opening) sashes have been used throughout to achieve a symmetrical 'equal sight-line' appearance.







A choice of either a 'stepped' Crittall-style or a chamfered 'putty line' profile capture the style and elegance of the British heritage steel windows that were predominantly used throughout the last century.

▼ Black 'stepped-profile' **AW686** windows set into hardwood frames provide an authentic **Crittall Replacement**



Our Heritage windows are an ideal replacement for current steel-framed glazing in your home.

Manufactured in the UK from lightweight aluminium, they offer a higher performance alternative to traditional alternatives, whilst still retaining the look and style of your property.

Designed to improve thermal and acoustic performance, this system is low maintenance and customisable, yet still replicates the narrow sight lines that traditional steel windows provide.



door handles



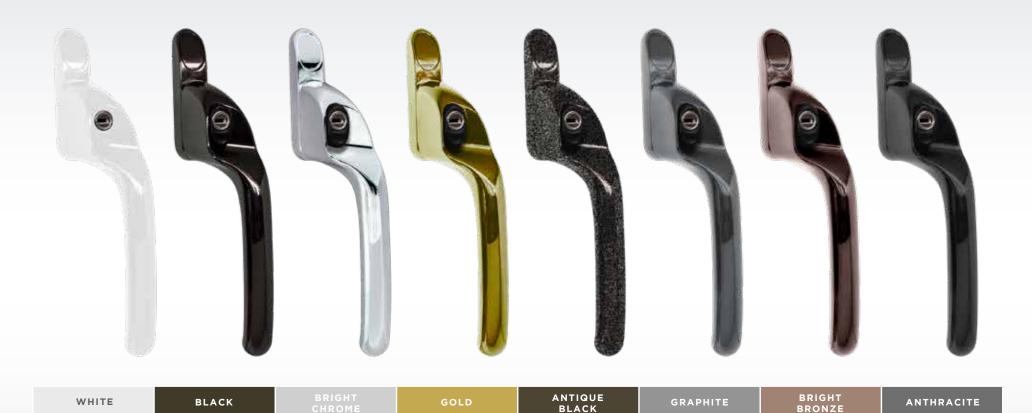
WHITE	BLACK	BRIGHT CHROME	GOLD	ANTIQUE BLACK	GRAPHITE	BRIGHT BRONZE	ANTHRACITE
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features

- Solid die cast construction with heavy duty spring cassette
- Sturdy feel and consistent 90 degree lever return
- Sculpted ergonomic lever and low friction nylon bush
- Colour coordinated screw heads

- Perfectly matching hardware, even down to the smallest details
- Corrosion resistance to BS EN 1670:2007 Grade 5 (480 hours)
- Endurance tested in excess of 200,000 cycles
- Tested to meet the requirements of PAS 24 as part of a compliant door set

window handles



features

- Solid die cast Zinc construction
- Heavyweight handle with sturdy feel
- Heavy duty sprung latching wedge
- Greater leverage and easy to operate without catching a hand on the window
- Patented cover caps with colour coordinated finish

- Perfectly matching components, even down to the smallest details
- Secured By Design
- Corrosion resistance to BS EN 1670:2007 Grade 5 (480 hours)
- Endurance tested in excess of 50,000 cycles
- Tested to meet the requirements of PAS 24 as part of a compliant window

sliding patio door handles



features

- Solid die cast construction with heavy duty spring cassette
- Sturdy feel and consistent 90 degree lever return
- Colour coordinated screw heads

Corrosion resistance to BS EN 1670:2007 Grade 5 (painted) and Grade 4 (plated)

FINISHING TOUCHES





Contemporary Tear-drop Handle

Contemporary Monkey-tail Handle

Tear-drop Handle

Monkey-tail Handle

Traditional Finishes**



Contemporary Finishes**



Our standard range of hardware is further surpassed by an even wider selection of designs and finishes.

This gives you tremendous scope to either make a bold statement with your home or conversely, a discreet and subtle way of improving the aesthetics of your home.

** Due to different suppliers, hardware names for the contemporary finishes **DO NOT** correspond with the names of the traditional finishes

easy clean hinges









Increased Security Designed to accommodate stay-guards that increase the security performance of BS 7950

Corrosion resistant By utilising high quality plastic components the new release mechanism provides greater corrosion resistance to BS 7479 **Easy-cleaning** User-friendly push button operation enables window to smoothly slide along the track for easy access from inside the building **Reduced Friction** The enhanced track profile produces an effortless sliding motion

Trouble-free Quality materials and manufacturing create a reliable product of superior quality

90 degree opening Enables the window to meet new Part B regulations

Smoothly efficient The new and unique (patent applied for) moulded components guarantee uninterrupted operation giving a safer, more efficient performance



FINISHING TOUCHES

locking mechanisms

Stainless steel construction for ultimate corrosion resistance

PAS 24:2012 and BS6375-2:2009 tested

High security and excellent compression when tested as part of a system

4 compression-adjustable roller cams for excellent sealing into the frame and smooth operation

5 hook bolts including 2 pairs of opposing hooks for high levels of security.

windows

Tested to BS EN 1670 and has exceeded grade 4 classification

Tested to 30,000 cycles under operational load

Can achieve PAS 24 as part of a specific window system The energy-saving ability of your windows and their control of the sun's heat is primarily down to one element - the glass! The glass not only minimises the heat escaping from your home but also reduces the cold entering your home - all whilst controlling the amount of the sun's rays warming your home.

Single Glazing

-5°C 20°C OUTDOOR INNER PANE INDOOR TEMPERATURE

Standard Double Glazing



Outdoor temp. -5°C Indoor temp. 20°C. Inner pane 2°C.

The temperature of the room drops off rapidly as you get closer to the window, therefore your heating will have to work a lot harder to retain a comfortable temperature indoors. The glass isn't keeping the cold out nor is it keeping the heat in.

Outdoor temp. -5°C Indoor temp. 20°C. Inner pane 10°C.

The temperature of the room drops off gradually as you get closer to the window, therefore your heating won't have to work as hard to retain a comfortable temperature indoors. The glass is keeping a lot of the cold out and a lot of the heat in.

There are still a lot of single-glazed windows in the UK - over a quarter of the heat generated in these homes is lost through these windows. There are also a lot of older double-glazed windows out there - they are certainly more effective than single-glazing BUT possibly only half as efficient as modern double-glazing!

glass technology

Double Glazing with Energy Glass



Outdoor temp. -5°C Indoor temp. 20°C. Inner pane 16°C.

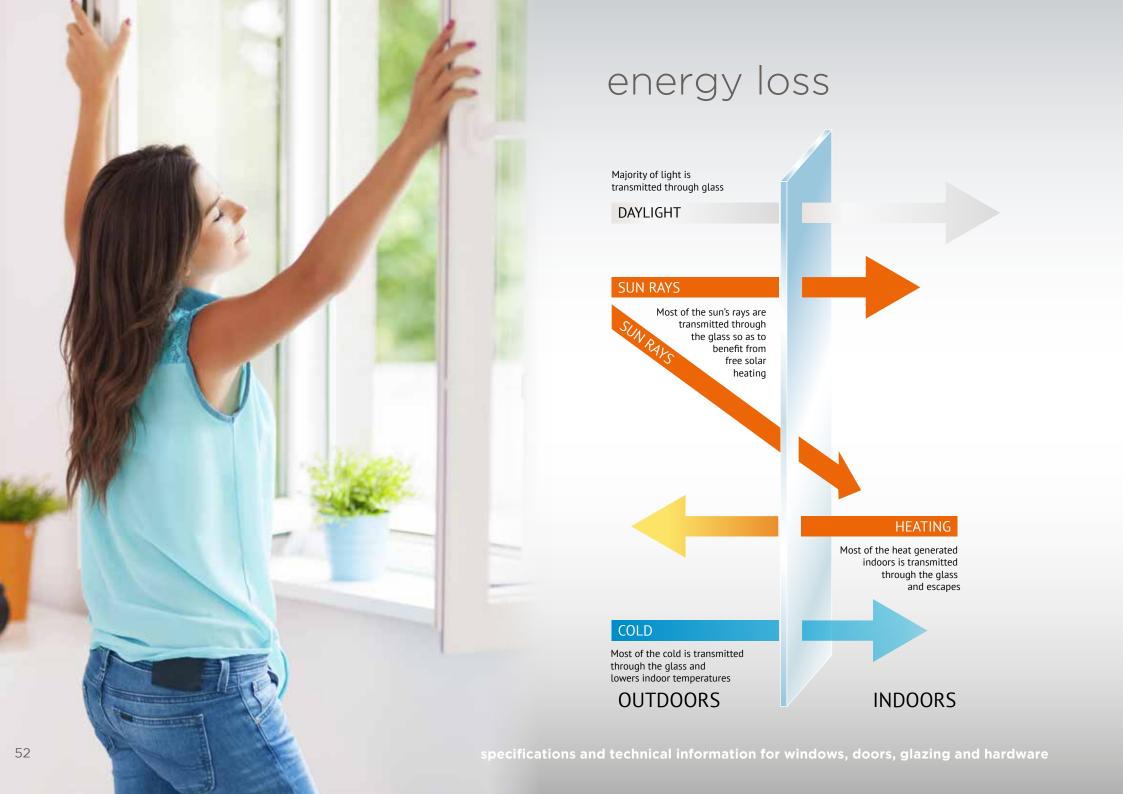
The temperature of the room barely drops off as you get close to the window, therefore your heating will have to work even less to retain a comfortable temperature indoors. The glass is keeping most of the cold out and is keeping most of the heat in. The effect of this can be enhanced even further by changing the combinations of glass, the air or gas sandwiched between the glass and the spacer bar surrounding the glazing unit.

SPECIAL COATINGS

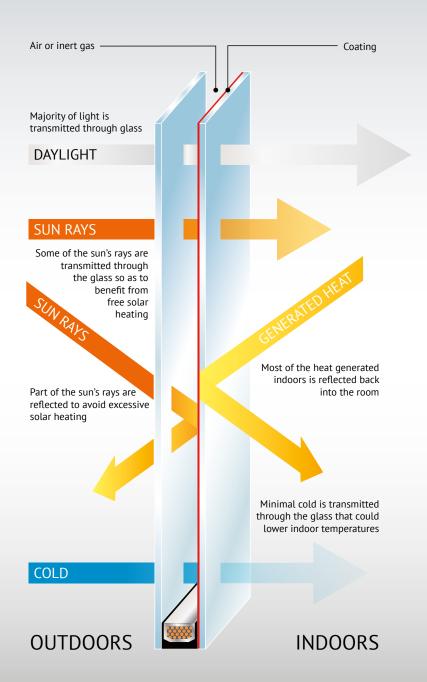
The most commonly used term for this is **Low-E**, whereby the 'E' stands for emissivity. Emissivity in this instance means the amount of heat energy the coating can actually give out. The latest coatings are almost invisible whereas only a few years ago they had a noticeable tint to them.

Window glass is by it's very nature, highly emissive. To improve thermal efficiency, (insulation properties) specially designed thin film coatings are applied to the glass. These coatings are then applied to one or more surfaces of the glass. These coatings reflect radiant infrared energy, thus tending to keep radiant heat on the same side of the glass from which it originated, whilst still allowing visible light to pass. This results in more efficient windows as radiant heat originating from indoors in winter is reflected back inside, while a large amount of infra-red heat radiation from the sun is reflected away preventing over-heating.



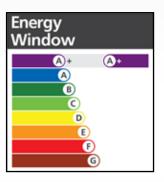


energy efficiency



Double Glazing with Energy Glass

Double glazing offers high levels of heat insulation. Insulation levels are governed by the type of glass, spacer bar, glass coating, air or gas fill. It can get rather complicated which is why the Energy Rating Labels are used.



A special coating on the inner face of the glass reflects some of the sun's infra-red rays to avoid 'solar overheating'. This coating also reflects the radiated heat (from central heating, gas fires and even our bodies) back into the room.

Save money, reduce your heating bills and reduce your carbon footprint Less heat escaping means using less energy to create warmth which in turn means fewer CO₂ emissions

This cavity is created by a spacer bar that runs around the perimeter of the glass. A modern spacer bar conducts minimal heat yet does retain it, minimising the risk of condensation. This 'sandwich' of glass and air is referred to as a 'sealed glass unit'.

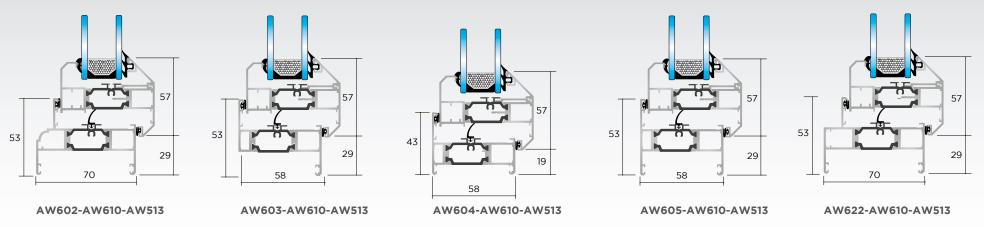
In a sealed glass unit, the lighter warm air rises creating a convection current that circulates the heavier, cooler air from the bottom of the unit.

Filling the cavity with low-reactivity Argon gas rather than air, reduces the transfer of cold air through the unit

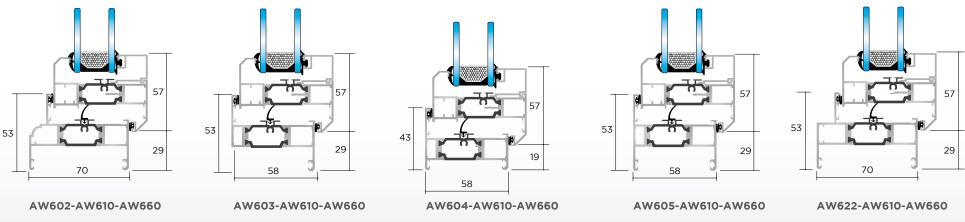
Due to it's lower density, Argon gas also reduces sound transmission through the unit helping improve acoustic insulation.



TRADITIONAL - Chamfered Bead Chamfered Sash - EXTERNALLY GLAZED



TRADITIONAL - Square Bead Chamfered Sash - EXTERNALLY GLAZED



performance

- Tested in wind speeds up to hurricane force
- Enhanced weather performance
- Thermally broken profiles as standard with unique design to improve thermal insulation
- Double or triple glazing options for thermal and acoustic insulation

security

- Enhanced security
- Espagnolette multi point locking
- Child safety restrictions
- Standard hardware including concealed friction hinges and multipoint locking

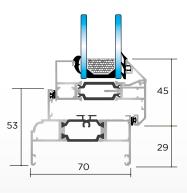
chamfered

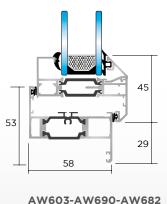


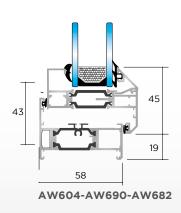


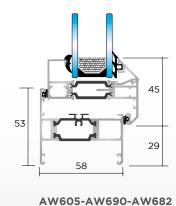


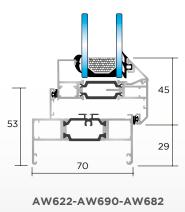
TRADITIONAL - Externally-Chamfered (square internally) Sash Profile - EXTERNALLY GLAZED











comfort

- Optional trickle ventilation
- Integrated night vent position

AW602-AW690-AW682

- Green guide 'A' rating

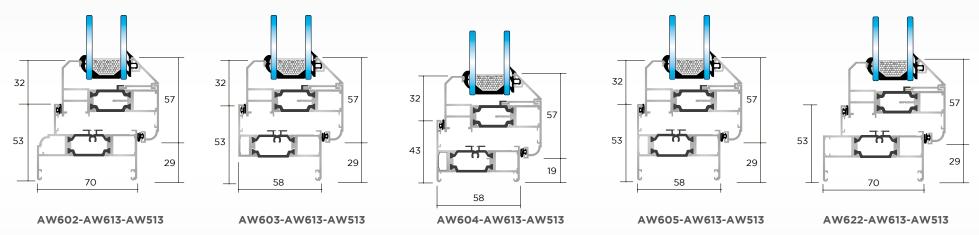
design

- Projecting top or side hung vents
- Can easily be combined with all of our window and door systems
- Surpasses the requirement of building regulations





TRADITIONAL - Chamfered Bead Ovolo Sash - EXTERNALLY GLAZED



performance

- Tested in wind speeds up to hurricane force
- Enhanced weather performance
- Thermally broken profiles as standard to improve thermal insulation
- Double or triple glazing options for thermal and acoustic insulation

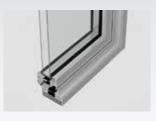
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- Enhanced security
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- Standard hardware including concealed friction hinges and multipoint locking

TECHNICAL

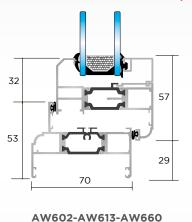
ovolo

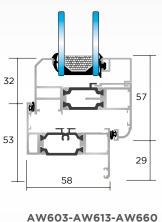


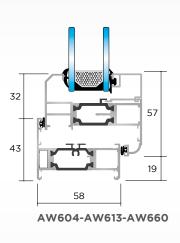


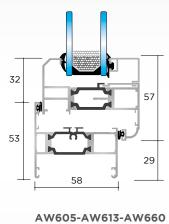


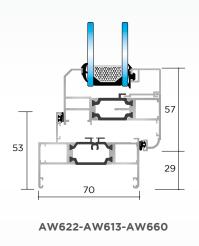
TRADITIONAL - Square Bead Ovolo Sash - EXTERNALLY GLAZED











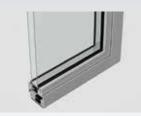
comfort

- Optional trickle ventilation
- Integrated night vent position
- Green guide 'A' rating

design

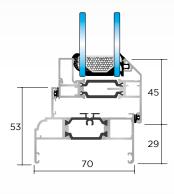
- Projecting top or side hung vents
- Can easily be combined with all of our window and door systems
- Surpasses the requirement of building regulations

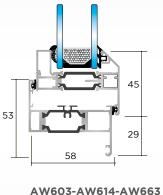


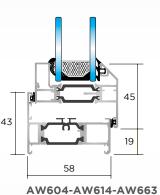


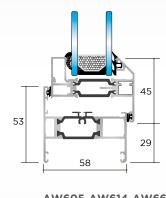


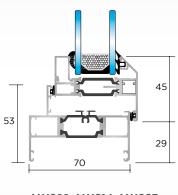
HERITAGE STEEL REPLACEMENT - Chamfered Sash Profile - INTERNALLY GLAZED











AW602-AW614-AW663

AW605-AW614-AW663

AW622-AW614-AW663

performance

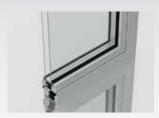
- Tested in wind speeds up to hurricane force
- Enhanced weather performance
- Thermally broken profiles as standard with unique design to improve thermal insulation
- Double or triple glazing options for thermal and acoustic insulation

security

- Enhanced security
- Espagnolette multi point locking
- Child safety restrictions
- Standard hardware including concealed friction hinges and multipoint locking

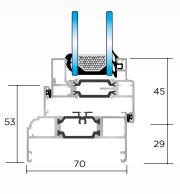
TECHNICAL heritage

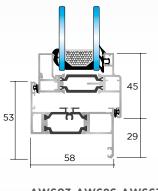


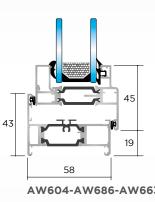


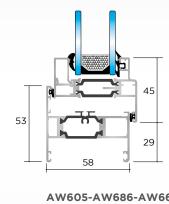


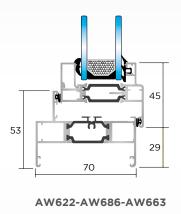
HERITAGE CRITTALL REPLACEMENT - Stepped Sash Profile - INTERNALLY GLAZED











AW602-AW686-AW663

AW603-AW686-AW663

AW604-AW686-AW663

AW605-AW686-AW663

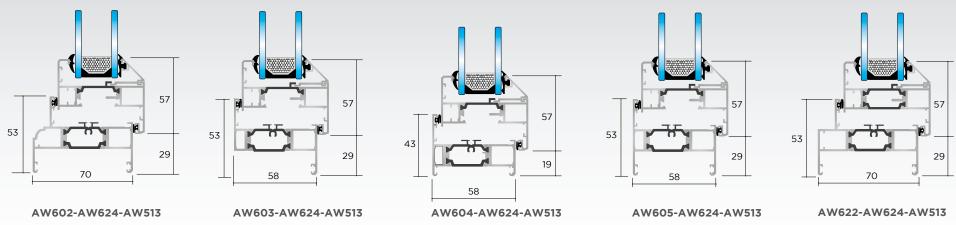
comfort

- Optional trickle ventilation
- Integrated night vent position
- Green guide 'A' rating

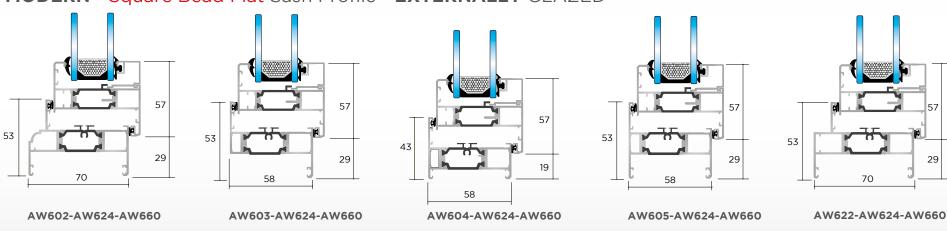
design

- Projecting top or side hung vents
- Can easily be combined with all of our window and door systems
- Surpasses the requirement of building regulations

MODERN - Chamfered Bead Flat Sash Profile - EXTERNALLY GLAZED



MODERN - Square Bead Flat Sash Profile - EXTERNALLY GLAZED



performance

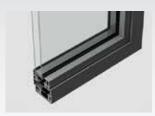
- Tested in wind speeds up to hurricane force
- Enhanced weather performance
- Thermally broken profiles as standard with unique design to improve thermal insulation
- Double or triple glazing options for thermal and acoustic insulation

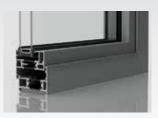
security

- Enhanced security
- Espagnolette multi point locking
- Child safety restrictions
- Standard hardware including concealed friction hinges and multipoint locking

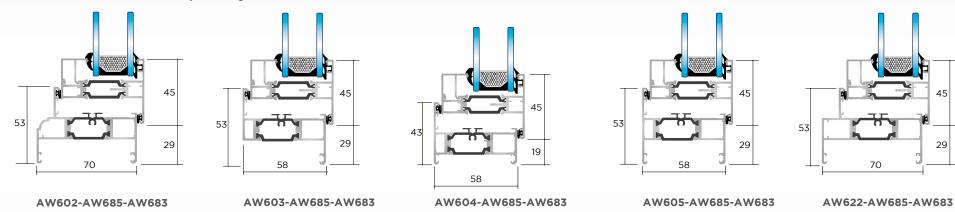
contemporary







MODERN - Contemporary Flat Sash Profile - INTERNALLY GLAZED



comfort

- Optional trickle ventilation
- Integrated night vent position
- Green guide 'A' rating

design

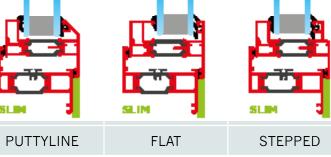
- Projecting top or side hung vents
- Can easily be combined with all of our window and door systems
- Surpasses the requirement of building regulations

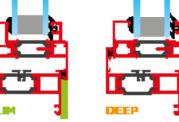


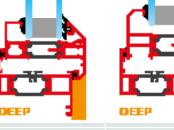
and if you roally need to know

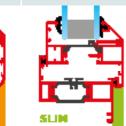
and II you really need to know choice of outer frames in 2 depths									
Frame Depth	h 70mm			58mm					
Internal Frame Style Ovolo Equal Le		qual Leg	Square Equal Leg	Odd Leg	Slim Ec	ual Leg	Equal Leg		
Bay Window Suitab	ility Y	ES	YES	NO NO		0	YES*		
Profile ID	AW	602	AW622	AW603 AW6		604	AW605		
Achievable WER Ra	ting	В	В	Α		1	В		
CHOICE OF SASHES/VENTS IN 7 STYLES									
INTERNALLY GLAZED				EXTERNALLY GLAZED					
Sash Width	45mm			45mm	57mm				
Profile ID	AW614	AW685	AW686	AW690	AW613	AW624	AW610		
Form Factor	SLIM REBATE	SLIM REBATE	SLIM REBATE	DEEP REBATE	DEEP REBATE	SLIM REBATE	DEEP REBATE		

Form Factor (showing rebate distance from frame to sash)











Sash Profile	PUTTYLINE	FLAT	STEPPED	FEATURE (CHAMFERED)	FEATURE (OVOLO)	SQUARED	CHAMFERED
NRG Range	HERITAGE	MODERN	HERITAGE	MODERN	TRADITIONAL	MODERN	TRADITIONAL
Application	Steel Replacement	Contemporary Property	Crittall Replacement	Contemporary or Period	Period Property	Contemporary Property	Period Property
Achievable WER	A	Α	Α	Α	В	В	В

GLAZING BEAD OPTIONS

Glazing Bead	FLAT	SQUARE	FLAT	CHAMFERED	CHAMFERED	CHAMFERED	CHAMFERED
Profile ID	AW663	AW683	AW663	AW682	AW513	AW513	AW513
Glazing Bead	n/a	n/a	n/a	n/a	SQUARE	SQUARE	SQUARE
Profile ID	n/a	n/a	n/a	n/a	AW660	AW660	AW660

^{*} narrow frame depth necessitates a bay pole and increases the width of the bay coupling considerably

how sash choice affects appearance

AW614 HERITAGE

Chamfered sash pushes the glass further backward into the window to create a traditional 'puttyline' appearance

Chamfered sash creates a shadow around the glass area AND the outer frame which gives the window more depth

SLIM REBATE

AW686

CRITTALL REPLACEMENT

Stepped sash pushes the glass further backward into the window to create the Crittall window style

Stepped sash creates a shadow around the glass area which gives the window more depth

SLIM REBATE

AW685

CONTEMPORARY

Flat sash brings the glass further forward into the window for a more contemporary appearance

SLIM REBATE

AW610

TRADITIONAL

Chamfered sash pushes the glass further backward into the window to create a traditional 'puttyline' appearance

Chamfered sash creates a shadow around the glass area AND the outer frame which gives the window more depth

DEEP REBATE

Unequal sightline

Unequal sightline

Equal sightline

Unequal sightline

aluminium



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