

# ALUMINIUM MADE EASY



Your complete aluminium window, door and glazed lantern roof range.



[www.real-aluminium.co.uk](http://www.real-aluminium.co.uk)

**REAL**  
ALUMINIUM  
Part of the Customade Group

**REAL Aluminium fabricates a comprehensive range of aluminium fenestration products for all domestic installations, manufactured using profiles and components held in stock at the dedicated factory in Gloucestershire.**

With strong, slim profiles and long-lasting quality materials and finish, REAL Aluminium covers a full suite of aluminium products. That includes: casement windows, bi-folding doors, sliding doors, residential doors, composite doors, and ultra slim glazed roof solutions.

**WHY REAL ALUMINIUM?  
IT'S AS EASY AS CHILD'S PLAY...**

- ✓ Easy Pricing
- ✓ Easy Quoting
- ✓ Easy Choices
- ✓ Quick Delivery
- ✓ Quick Quoting



**COLOUR OPTIONS**

White, Black, Grey,  
Grey Exterior/White Interior



**A SERVICE YOU CAN RELY ON ✓**

Each and every product within the REAL Aluminium range is manufactured from stocked profile and components. Should there be any requirements for replacements or remakes these can be turned around in 1 week, compared to 3 weeks or more for non-stocked products.



**OUR PROFILES ✓**

The REAL Aluminium range of products provide a full solution for any aluminium installation with a choice of contemporary or traditional styles.

Window, residential door and French door options include 'Square', our standard profile-style window or 'Featured', a more traditional profile replicating the ovolo style of a traditional timber window.

For Profile Charts and Assembly Charts of all REAL Aluminium products, visit [www.real-aluminium.co.uk](http://www.real-aluminium.co.uk)

# ALUMINIUM...THE FINER CHOICE

## Why choose aluminium?

There are a multitude of reasons to choose aluminium. Homeowners are becoming more aware of the benefits of this slimmer and stronger material for their home.

Aluminium - designed and built to last.

Improvements to aesthetics and thermal performance differentiate today's aluminium products from those of the eighties and nineties.

Aluminium is the preferred product of discerning architects...why would discerning homeowners choose anything else? Whatever the taste or style of your home, the REAL Aluminium range offers distinctive styles and designs to suit.

### Slimmer profile

The slimmer and stronger aluminium frames increase the ratio of glass to frame therefore letting more light into your home. Clean joints and subtle lines offer a luxurious finish for homeowners to admire.



Typical PVCu

REAL Aluminium

Up to 50%  
**slimmer**  
than PVCu

### Thermally efficient

The REAL Aluminium range is enhanced with polyamide thermal barrier technology, enabling the windows and doors to exceed the energy performance requirements of current Building Regulations.

Profiles used in all products from the REAL Aluminium range have a very high resistance to heat transfer from the inner face of the frame to the external face of the frame, giving superior thermal efficiency and reduced condensation.

The roof frame is the most thermally efficient in the UK domestic conservatory market.

### High strength

Aluminium, by its very nature, is a strong material compared to PVCu and doesn't require additional reinforcements.

The superior strength of aluminium allows for larger arrangements which are only possible with timber or PVCu when using bulky profiles and couplers.

Most PVCu bi-folds can only extend to 750mm-wide sashes; the REAL Aluminium Bi-folding Doors can accommodate 1200mm sashes.

### Long-lasting colour

Powder-coated aluminium is one of the most durable finishes available for windows and doors. It won't discolour, rust or peel, giving it a long-lasting, attractive appearance.

All aluminium products from the REAL Aluminium range come with superior guarantees. This guarantee covers the powder-coating against the following faults:

- peeling, powdering and blistering
- corrosion
- chalking, fading and loss of sheen

Refer to the Care & Maintenance Instructions for guarantee exclusions: [www.real-aluminium.co.uk](http://www.real-aluminium.co.uk)



### Ease of maintenance

Aluminium is easy to keep looking great and is virtually maintenance free. Modern powder-coating delivers a hard-wearing finish which will last for years.

With occasional cleaning and periodic lubrication of locks and hinges, aluminium windows and doors will look and operate 'as-new' for longer.



Refer to the Care & Maintenance Instructions for details:  
[www.real-aluminium.co.uk](http://www.real-aluminium.co.uk)

### Better functionality

Aluminium is a durable substance, therefore windows and doors made from aluminium will continue to open and slide smoothly over many years.

### Environmentally friendly

Aluminium is infinitely recyclable, and when recycled uses just 5% of the total energy needed to produce frames from scratch.

**Building Regulation compliance,  
Window Energy Ratings (WER)  
and Door Energy Ratings (DER)**

Compliance with current Building Regulations is a vital part of every installation and can sometimes be complex. Using REAL Aluminium, meeting the requirements of Part L of current UK Building Regulations, is easy as the entire range is compliant when installed with a double-glazed unit with a U Value of 1.2 w/m<sup>2</sup>k and a solar gain of 0.71 or better that is manufactured using an Edgetech Super Spacer Bar or equivalent.



All REAL Casement Windows achieve an 'A'-rating if the aforementioned glass unit is upgraded to low-iron glass. The thermal efficiency of the REAL Aluminium range can be enhanced further by using higher-performance double-glazed or triple-glazed units.

**REAL Aluminium WER, DER & U Values**

Glass spec	Double-glazed unit - 28mm/Softcoat/Argon/Superspacer		Triple-glazed unit - 36mm/32mm/Softcoat/Argon/Superspacer	
	Float	Low-iron	Float	Low-iron
Std/Low-iron				
Glass centre pane U-Value	1.2	1.2	0.8 (36mm) 0.9 (32mm)	0.8 (36mm) 0.9 (32mm)
Glass solar gain factor	0.71	0.74	0.62	0.64

Window/Door Product	Double-glazed unit - 28mm/Softcoat/Argon/Superspacer		Triple-glazed unit - 36mm/32mm/Softcoat/Argon/Superspacer	
	WER/DER	U-Value	WER/DER	U-Value
Window System 1	B (-4)	1.6	A (+1)	1.6
Window System 2	B (-3)	1.6	A (+1)	1.6
Window System 5	B (-2)	1.6	A (+2)	1.6
Visofold Bifold Doors	n/a	1.7	n/a	1.7
Visoglide Patio Doors	n/a	1.8	n/a	1.8
Alitherm Plus Doors - open in	E	1.8	E	1.8
Alitherm Plus Doors - open out	E	1.9	E	1.9

**Note:**

Building control requires doors to satisfy **either** a U Value of 1.8 **or** lower or a DER of E or better. Building control requires windows to satisfy **either** a U Value of 1.6 **or** lower or a WER of C or better.

All REAL Aluminium products when used in conjunction with the glass specifications above satisfy current Building Regulations Part L for refurbishment and new-build applications.

The addition of low-iron glass will not improve U Values but will improve WER/DER rating due to solar gain.

The addition of triple glazing will improve U Values but due to reduced solar gain has limited effect on WER/DER ratings.

**YOUR COMPLETE ALUMINIUM  
WINDOW, DOOR AND GLAZED  
LANTERN ROOF RANGE.**

Suitable for all property types from traditional cottages to contemporary town houses.



## BI-FOLDING DOORS

REAL Aluminium Bi-folding Doors create a true sense of space and light.



The perfect addition to any home, bi-folding doors not only offer slim frame profiles and quality running mechanisms but also enhanced thermal performance.

All profiles feature a polyamide thermal break which enhances the thermal performance of the profile and improves the overall U Value. Profiles feature high-quality EPDM gaskets and weather brushes to aid weather resistance.

REAL Aluminium Bi-folds comply with the requirements of Building Regulations Document L 2010. Security is assured by multi-point lock mechanisms on main opening sashes, and shootbolt locking on floating mullions.

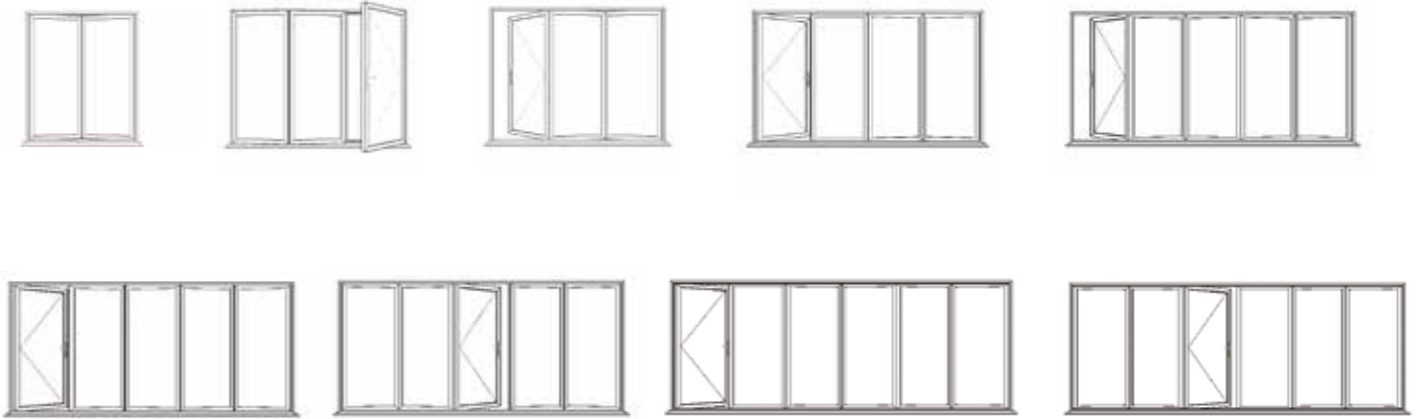
All bi-folding doors within the REAL Aluminium range have the option of either low thresholds for unimpeded, easy access, or rebated thresholds that offer improved weather resistance.



## SPECIFICATION

Bi-folding doors offer a choice of opening configurations to suit any application. Choose to fold the sashes internally or externally, place the opening at the side so the sashes all fold one way, at one end, to create a single entrance door for easy access, or in the middle to give the option of a double door.

Configuration examples:



System	Smart Architectural Aluminium - Visofold 1000
Finish	Polyester powder coated
U Value	up to 1.4 w/m <sup>2</sup> k using suitable triple-glazed unit
Security tested	PAS 24: 2012 enhanced security-rated doors on a three-pane open-out door
Weather tested	BS 6375 Part 1: 2009
Security	Multi-point locking with shootbolt
Frame depth	70mm
Typical sight line	133mm
Max sash weight	100kg
Max o/a height (per sash)	2500mm
Max o/a width (per sash)	1200mm*
Glazing	28mm double- or triple-glazed or 36mm triple-glazed

\*provided sash does not exceed recommended weight limits

Available colours:






System options 1 Contemporary frame - flat sash, internally glazed, square bead

# HANDLES AND ACCESSORIES




When creating a beautiful and stylish home, details are everything. The handles and accessories available throughout the REAL Aluminium range offer every home a matching suite of high-quality products. Use the reference chart below to discover the perfect set of handles and accessories for your home.

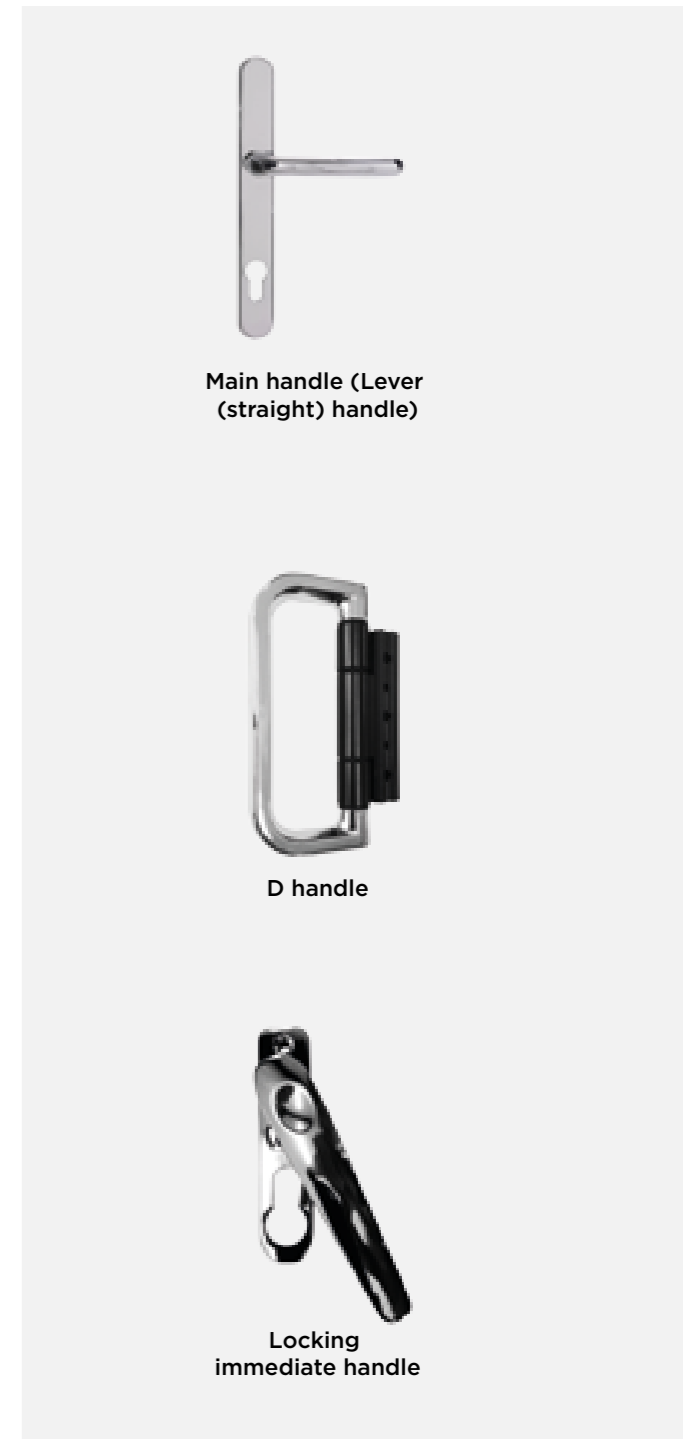
All handles and accessories have been tested to ensure high standards of endurance and functionality.

					
		White	Black	Grey	Graphite
<b>BI-FOLDING DOORS</b>	Main handle (Lever (straight) handle) 	✓	✓	✓	✓
	Intermediate handle 	✓	✓	✓	
	D handle 	✓	✓	✓	
	Magnetic catch 	✓	✓	✓	
	Trickle vents	✓	✓	✓	

# LOCKS

REAL Aluminium doors that have more than one lock will only require one key to operate all of them (this is called 'keyed alike'). Separate doors will have unique keys unless specified. When specifying a high-security key system (3 Star System), all keys will be unique. For further details, please speak to your REAL Retailer.

				
		Chrome	Satin Silver	Polished Gold
		✓	✓	✓
		✓		
		✓		
		✓		
			✓	



Main handle (Lever (straight) handle)



D handle



Locking intermediate handle

A range of locking cylinders are available to give enhanced security. Please speak to your REAL Retailer for details.

\*silver anodised SAA