## MAKING YOUR DREAM HOME A REALITY













YOUR COMPLETE ALUMINIUM WINDOW, DOOR AND GLAZED ROOF RANGE.

## REAL

## ALUMINIUM

Improvements to aesthetics and thermal performance differentiate today's aluminium products from those of the eighties and nineties. You only have to look around to notice that slim aluminium is fast becoming the 'product of choice' for windows, doors and roofs.

Your choice of windows and doors will transform your home or building project and represents an important investment. Aluminium is the preferred material of astute architects looking for longevity, performance, good looks and superb life-time value for money... why would you, as a discerning homeowner, choose anything else?

Whatever the style of your home, be it traditional or modern, the REAL Aluminium range offers distinctive styles and designs to suit.

YOUR COMPLETE ALUMINIUM WINDOW, DOOR AND GLAZED ROOF RANGE.



### Get the look you want

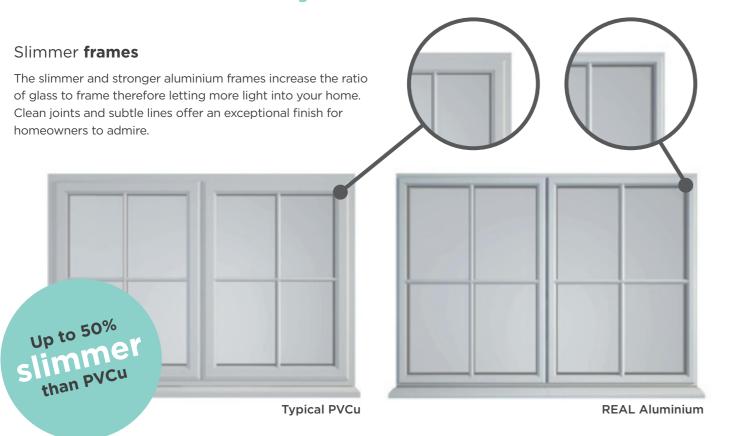
When choosing windows, doors or lantern roofs for your home you will want to choose products which are going to look their absolute best both when installed and for many years to come.

Slim window frames are a must to maximise the amount of natural light entering your home, especially in smaller openings or where Georgian bars are fitted.

Compared to a typical PVCu window, the REAL Aluminium window frames are up to 50% slimmer, allowing the maximum amount of natural light into your home whilst giving a finer ultra-slim appearance.



Aluminium - designed and built to last.





## **Security and safety** features

It will come as no surprise that the REAL Aluminium windows and doors incorporate many security features as standard and will defend your home against the most determined intruder.

All windows and doors within the REAL Aluminium range are independently tested by BSI for critical aspects of security. Hinges, locks, handles and glazing are all checked not just once but time and time again for consistency and quality.

In addition to security, a BSI Kitemark proves a product has been tested on an ongoing basis to make sure that standards do not slip or change over time. The REAL Aluminium range has been rigorously tested, proving they keep the wind and rain at bay; an important consideration for windows and doors in the UK\*\*.

The enhanced security multi-point locking systems designed, developed and tested in the UK to deliver the highest levels of performance, offer homeowners security and peace of mind.

Each lock features a combination of hooks and anti-lift bolts for greater security. Windows have added protection to strengthen hinges.

High-security hinge guards are available on all REAL Aluminium windows and doors for added security. So, in the unlikely event of an intruder attacking the hinges rather than the locks, these devices prevent the door or window from being pushed/pulled open. This is particularly valuable on open-out doors as the hinges are on the outside.

Keep your family safe with restrictor hinges to prevent risk of falls. Allowing the window to open only partially is important for a child's room or low-level windows. These hinges have an override to allow full opening in an emergency.



<sup>\*</sup>Dependent on height and glass weight restrictions - ask your REAL retailer for details.

<sup>\*\*</sup>Certain door threshold options may not be covered by the BSI test regime.



## Long-lasting colour

Each REAL Aluminium product is powder-coated to give one of the most durable finishes available for windows, doors and roofs. The high quality colour process won't discolour, rust or peel, giving it an attractive appearance for longer. REAL Aluminium is even available with a 'marine grade' finish for those who live near the sea.







#### **Guaranteed** to last

As a guarantee for the superior powder-coated finish of REAL Aluminium, all products from the range come with superior paint guarantees against peeling, blistering, corrosion, fading and loss of sheen.

## **Quality**

Choosing the right window, door or lantern roof and the right company to install them can be a daunting experience. You can be rest assured that our products are tested to the latest British Standards and will be installed to comply with the latest UK Building Regulations.

All of our products go through a thorough quality control system that is independently audited twice a year by British Standards to ISO 9001:2008. During this process, products are independently tested to BSI Standards for weathering performance and security levels.

All this independent testing combined with our local reputation means that all you need worry about is deciding on the look and style of your windows, doors and roofs - the performance and quality comes as standard.

## **Building Regulations**

To sell your home in the future, you must be able to demonstrate that your windows, doors and roofs satisfy Building Regulations by producing a certificate of compliance either from an approved installer or your Local Authority Building Control Department.

All professionally installed REAL Aluminium windows, doors and lantern roofs comply with Building Regulations requirements for new build, replacement and refurbishment projects.





## ACHIEVE OPTIMUM ENERGY EFFICIENCY

## Making your room an all-year-round **living** space...

The goal is to let visible light in, whilst keeping solar heat out in the summer and radiant heat in during the winter.

Increasing comfort and offering energy savings for the home.

With energy bills rising, thermal efficiency remains the number one priority when making home improvements. Loss of heat from inefficient windows, doors and roofs plays a major part in the comfort or usability of living spaces (especially orangeries and extensions) and can result in high energy costs.

Designed and engineered with performance in mind, REAL Aluminium's thermal performance allows for superior thermal efficiency. Whether renovating a living room with a bi-folding door, or building an extension with a lantern roof, you can be sure to create a comfortable living space all year round with REAL Aluminium.

### **Energy** ratings

Windows are assessed by the British Fenestration Rating Council (BFRC) and rated using a familiar A to G scale on the basis of their total energy efficiency, where an A-rated window is more energy efficient than a G-rated window. This rating covers the frame material, the frame design, the glass type and all the other components that make up the window.

Energy-rating performance is calculated using the special properties of the window frame, the glass coatings, and the gasses used in the sealed glass unit.

Each energy-rated window will be supplied with a rating showing its energy performance and could be a valuable factor should you decide to sell your home in the future.



## Thermal barrier technology

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

The polyamide thermal barrier reduces heat loss and enhances the overall U Value of a product, allowing REAL Aluminium casement windows to achieve a Window Energy 'A' Rating when used in conjunction with the correct double- or triple-glazed unit.

The materials 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 improved thermal efficiency and reduced condensation.

## **Glass** technology

#### Low iron

Low iron glass is extra clear and allows a greater degree of solar heat gain making homes feel warmer without the need to turn the heating up.

#### Low-E glass

Low-E glass is a clear glass with a microscopically thin coating of a metal oxide that allows light and heat from the sun to pass into the building but at the same time reflects heat back in rather than letting it escape.

#### Solar control

This intelligent glass (also known as 'anti-sun glass') reflects over 60% of the sun's solar energy, controlling the amount of heat entering the home through the glass. This is particularly advantageous for conservatories and large glazed areas such as sliding patio doors, helping to keep your home cooler in the summer.



Energy-rated windows tester and certified by the British Fenestration Rating Council



Quality controlled manufacture assessed by BSI to BS EN ISO 9001:2008, License No. FM40322



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

DIAMI













## CASEMENT WINDOWS

From a traditional country cottage to a contemporary town house, the REAL Aluminium range of windows offers style and elegance to suit all tastes.

Ultra-slim frames allow more natural light into each living space and give the best views to the outdoors.

REAL Aluminium Windows are made to measure for your home. Each window is manufactured using the very latest technologies and processes to create the finest finish to your windows.



The exclusive super-slim window is available in a choice of two styles:

#### Featured Classic-al

The elegantly sculptured 'Classic-al' window represents a new era in the development of aluminium windows.

Combining the traditional appeal of timber but with slimmer sections and the trusted performance of aluminium. This exclusive REAL Aluminium design features softened lines to give a really classic look.

#### Available colours:







**Exterior design** 



**Interior design** 

## **Square Contemporary**

The square-edged appearance of the 'Contemporary' window option provides clean, slim sightlines and a modern finish to any home.

Its appearance complements the REAL Bi-folding and Sliding Patio Door range.

#### Available colours:











**Exterior design** 

**Interior design** 



We don't believe that one style suits

all, which is why you have the choice

of styles and finishing touches - tailor

your options to suit your home.

## **Styles** of window

Your **REAL Aluminium** retailer will help you decide which window system is most appropriate for your project and explain the differences.

#### **Square - Contemporary**



Flat sash - internally beaded



Bevelled sash - externally beaded

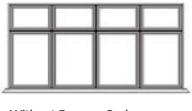
#### **Featured - Classical**



Featured sash - externally beaded

All window systems achieve the same level of security and Window Energy Rating performance. The main difference between an externally and internally beaded window is the aesthetics.

#### With Dummy Sash



#### Without Dummy Sash



These images demonstrate the appearance of your chosen windows with or without a 'dummy sash.'

## Dummy sashes\*

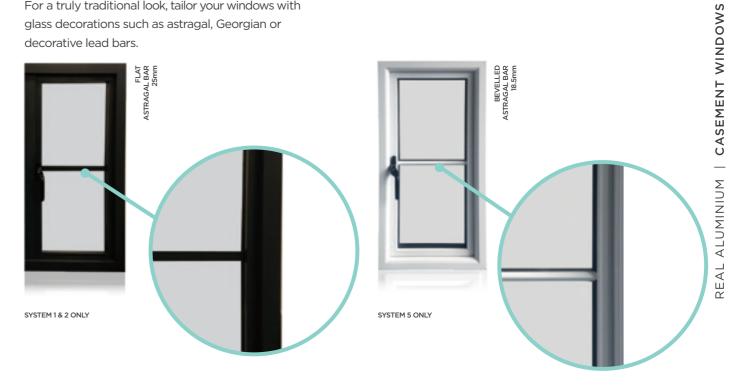
If you have an eye for detail you may wish to consider 'dummy sashes' to give that truly symmetric design.

Window styles that have a combination of opening and fixed areas can look a little uneven due to the frame design. A dummy sash allows you to balance the sight-lines and create a more uniformed look.

\* required for system 1

#### Glass decorations

For a truly traditional look, tailor your windows with glass decorations such as astragal, Georgian or decorative lead bars.



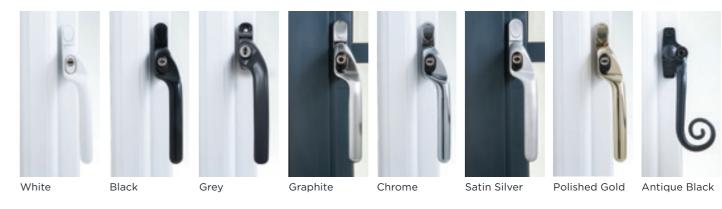


Easyclean hinges

Optional easy-clean hinges let you slide your window open to one side allowing you to easily clean both sides of the glass from inside the home. These have the added benefit of opening to almost 90°, giving an unobstructed view from your room and creating an easy fire exit.

### **Handles**

Hardware is available in a choice of finishes allowing you to tailor your windows to suit your interior.



For additional security and to retain the slim sightlines, system 1 has been designed with a handle block manufactured into the frame. This will appear as a separate section when viewed internally. An example of this is shown on the Graphite and Satin Silver handle above.

#### Stunning appearance

With 27 door designs to choose from, there's sure to be the right door for your home. And you're not limited by texture with Virtuoso; choose from a traditional realistic woodgrain finish or a ground-breaking aluminium effect to get the best look for your

#### Made for you with Crafted Precision

A perfect combination of cutting-edge precision engineering and a workshop filled with master craftsmen means Virtuoso composite doors have incredible accuracy, stunning detailing and unrivalled quality. Each door is crafted to order, so it's tailor-made for you.

#### Strong, safe & secure

Virtuoso doors are engineered with security in mind. Each and every door has the best security hardware, and is PAS24 compliant.

#### Superior thermal & acoustic performance

Virtuoso composite doors improve the efficiency of your home with advanced protection from outside noise and the ultimate thermal technology to retain heat in your home and keep the cold out.







## A range of styles

Choose from a variety of styles, colours and decorative glass options to create a distinctively beautiful look for your home. For the full collection of door styles and glass options, please refer to the Virtuoso composite door brochure.



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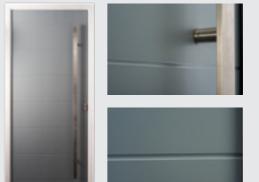
**Traditional** 

Cottage

**Contemporary** 

**Stable Doors** 





Virtu-AL

The ultimate collection of aluminium effect composite doors.

Combining the finest qualities of composite doors with the sleek finish of an aluminium entrance door, it is fast becoming the architect's product of choice.

#### **Accessories**

A full range of door furniture is available to complement the finishes, including letter boxes, numerals and decorative knockers incorporating spy holes. For handle colour options, see page 19.

#### RFAL Aluminium Door Frames

As part of the REAL Aluminium range, the Virtuoso composite door will sit securely within a REAL Aluminium door frame. The aluminium door frame is available in two REAL Aluminium styles which feature on the REAL Aluminium Window pages:

#### Featured Classic-al



Available colours:



#### **Square Contemporary**



Available colours:





## **Colour** options

Once you've chosen the style of your door, it's time to choose the colour.

#### Standard colours













**Superior colours** 



2. Pebble

3. Silver Grey































Note: there may be shade variations between the aluminium frame and the composite door due to differing paint processes.

Complete the transformation of your home with a REAL Aluminium Entrance Door.

The REAL Aluminium Entrance Door is a high-performance product suitable for use where a durable and reliable door is needed. Choosing an entrance door from the REAL Aluminium range allows your home to be fully suited with the same personalised style.

These stylish yet extremely practical doors create the optimum flow from your home to the garden without the need for a large aperture.

Glass panels either side of your REAL Aluminum French Door delivers copious amounts of light flooding into your home.

#### **Double locking handles**

For extra peace of mind, REAL Aluminum French Doors or double doors boast extra security with multipoint locking handles and the option of additional handles and locking on both doors.

#### Low threshold

An optional low threshold is great for doors which are used regularly and creates a flush appearance due to its minimal step over.\*





Frame colour options

Featured Classic-al Interior design

Available colours:

White

Square **Contemporary** Interior design

Available

ENTRANCE **DOORS** 

colours:



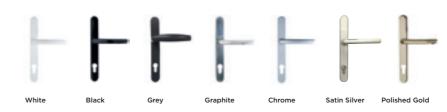






### **Handles**

As with all products in the REAL Aluminium range, our entrance doors or French doors can be personalised with your choice of hardware and accessories.



## Opening restrictors

Optional opening restrictors allow you to take extra care of your open-out French doors and protect them from damage caused by the doors being blown in the wind.

\*Due to the nature of the low threshold design, it is not possible to quarantee its weather performance

## **Styles and doors**

Available in a Square or Featured design.

#### **Single Front Doors**

All front doors can open in or out, left or right, with any arrangement of glass and solid aluminium faced flat panels. Below are some common front door styles.









#### **Single Back Doors**

All single doors can open in or out, left or right, with any arrangement midrails. Below are some common door styles.







#### French / Double Doors

All French doors can open in or out, with the master door on the left or right, with any arrangement of midrails. Below are some common French door styles.







## **BI-FOLDING** DOORS

REAL Aluminium Bi-folding Doors create superior panoramic views all year round from the comfort of your living room, kitchen, conservatory or orangery. By neatly folding and sliding, the REAL Aluminium Bi-folding Doors allow quick and easy access to your garden.

The large panes of glass present unspoilt views of the outside and allow maximum light into your home.

The style of your beautifully designed and carefully manufactured bi-folding doors are easily matched to the existing style of your home and provide a smooth transition between indoor and outdoor space.

Choose from panes up to 1200mm wide and 2500mm high, in a choice of opening options. These can be designed to suit any opening size. Your REAL retailer will give you advice on the most suitable option for your requirement.





Bi-fold doors offer a choice of opening configurations to suit your needs:

- Fold the doors in or out
- Slide all doors to one side
- Create a single entrance for easy access and have the remaining doors slide the opposite way
- Part the doors centrally to create a double door

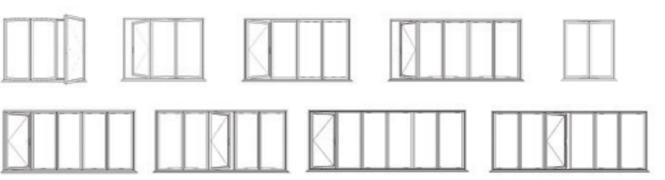
Available colours:







#### **Configuration examples:**



Not all configurations have an external handle for access from the outside. Please ask your REAL Retailer for details.



## **Magnetic** door catch

The REAL bi-folding door leaf is held open by a round magnetic catch attached to folding doors, holding the doors open as they fold.







### **Threshold**

Our four threshold options let you choose from floor to floor flush threshold, right the way through to a traditional step and provides maximum weather rating for extreme conditions. When a flush doorway is required - for example separating two rooms or for wheelchair access - our low threshold options ensure a smooth, unobtrusive transition.

## Multi-point locking



**REAL Aluminium Bi-folding** Doors feature two high-security hooks and a dead-bolt to ensure total peace of mind. Upgraded locking systems are available, please speak to your REAL Retailer for details.

## your window or door frame to

### allow your home to 'breathe'. Your REAL retailer will advise you on the options and requirements.

you to have ventilation slots in

Trickle vents

In certain circumstances your local **Building Regulations will require** 

## **Handles**

No matter how many handles and locks you have on your REAL Aluminium Bi-folding Doors, you only ever need to find one key as your door set has 'keyed alike' locks as standard for your convenience.

Hardware is available in a choice of finishes allowing you to tailor your doors to suit your interior.











#### Create a feeling of light and space using an expanse of uninterrupted glass with the REAL Aluminium Sliding Patio Doors.

The technical design of the REAL Aluminium Sliding Patio Doors make them ideal for large-span areas and situations where bi-folding doors may not be so appropriate such as areas exposed to high winds or upper floor apartments. A Sliding Patio Door will offer you the largest uninterrupted glass area and once open doesn't take up room on a patio or balcony, or inside the home.

Made-to-measure and fitted to the highest standard, the REAL Aluminium Sliding Patio Doors deliver optimum performance. Tested to the highest industry standards, REAL Aluminium Sliding Patio Doors easily glide with guaranteed reliability. The strong, thermally efficient aluminium frames create dramatic sliding sashes with large glass areas without compromising thermal performance or weather resistance.

Using advanced glass technology and superior insulation to keep your home warm, the REAL Sliding Patio Doors form a thermally efficient glass facade, a wonderful way to flood a space with light and enjoy beautiful views.

Available in two, three, four, or six panels, all patio doors are double- or triple-glazed with special sliding mechanisms to enable even the largest sashes to slide open and close smoothly on a double- or triple-track, whatever their size.

### **Handles**



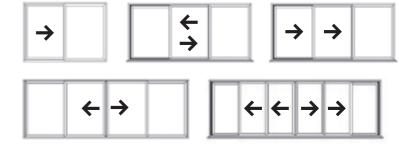




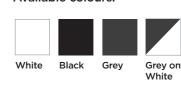




## **Configuration examples:**



Available colours:









## MORE SKY LESS ROOF™

Perfect for an extension or orangery, this roof lantern offers exceptional benefits unmatched by any other roof on the market. The REAL Aluminium Lantern Roof has sharp, clean lines with minimal roof bars, made possible thanks to the super-slim 40mm frame without chunky support bars or joint covers.

Compared to other conventional Lantern Roofs, the REAL Aluminium Lantern Roof has a 70% slimmer top roof bar (also known as the ridge) and 30% slimmer rafter bars.

We have combined good looks, outstanding thermal performance and intelligent detailing, to create one of the finest looking lantern roofs available.



The REAL Aluminium **Glazed Roofs offer** exceptional benefits unmatched by any other roof on the market.

The UK's most thermally efficient aluminium lantern roof system\*\*

- The UK's strongest lantern roof system\*\*
- Minimalist modern design
- 70% slimmer roof frame

#### Available colours:







0.7W/M<sup>2</sup>K U VALUE\*

Don't just take our word for it... see for yourself

## **Roof glass**

#### Comfortable year-round room use

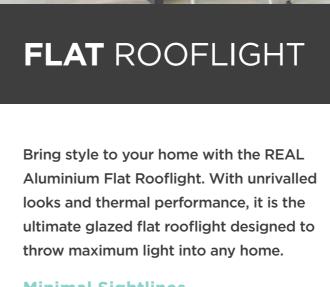
As standard, your REAL Glazed Roof will be specified to combine heat reflection and thermal insulation with reduced rainfall and traffic noise. All roof-glazed units incorporate toughened safety glass and are manufactured to the highest British and European Standards, accredited to BS EN 1279 parts 2 & 3 and BS EN 12150.

All REAL Glazed Roofs come with self-cleaning glass as standard, helping to keep your roof looking cleaner for longer. Available in neutral and bronze.

Solar control and low-e coatings along with an argon gas-filled cavity controls the amount of visible light, UV and heat that passes through the glass. Available in neutral, blue and green tints.

\*0.7 w/m<sup>2</sup>k overall U Value when triple glazed, 1.2 w/m<sup>2</sup>k overall U Value when double glazed

\*\* Independent tests show that REAL Aluminium Roofs offer the best thermal and strength performance available in the UK domestic conservatory market. Please note that all information given is for guidance purposes only. It is given in good faith and is correct to the best of our knowledge at the time of printing.



#### **Minimal Sightlines**

The minimalistic contemporary external design with flush glazing gives a sleek, modern appearance and is a stunning addition to any home extension.

#### **Ultimate performance**

With an unrivalled double glazing overall U Value (roof and glass) of 1.3 w/m<sup>2</sup>k the REAL Aluminium Flat Rooflight outperforms many of its rivals.

#### **Maximum Light**

Sitting flush with the internal plaster line, the fixed flat rooflight appears frameless from the interior of the home, creating the illusion of an open roof space.









### **Handles** and accessories

32 Use the reference chart below to discover the perfect set of handles and accessories for your home. White Black Grey Graphite Chrome Lever (straight) handle Intermediate handle **BI-FOLDING** D handle DOORS Magnetic catch Trickle vents Long lever handle **SLIDING** PATIO DOORS Sliding Door D handle Offset handle **CASEMENT WINDOWS** Monkey tail handle Lever (straight) handle Lever (swan) handle **ENTRANCE** & FRENCH DOORS Letterplate (black ABS surround) Letterplate (matching surround) Lever (straight) handle Pull Knob D Bar Inline Round Pull Bar Inline Flat Pull Bar Centre Escutcheon Pull Escutcheon COMPOSITE DOORS Letterplate (matching surround) 9 Knocker 6" Urn Knocker 6" Urn with spyhole Knocker 8" Urn Slimline Lion's Head Knocker **Bull Ring Knocker** Numerals 0-9

			#K(00)_100
1000		-	
Satin Silver	Polished Gold	Stainless Steel	Antique Black
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#### 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.

33

HANDLES & ACCESSORIES









## **Self-cleaning** glass



For those places harder to reach such as conservatory roofs or upper-floor windows, self-cleaning coating is ideal. These use ultraviolet light to decompose organic materials and rain to wash them off.

You'll appreciate the special self-clean coating with a microscopic film which helps daylight and rainwater breakdown and wash away dirt and grime.

The self-cleaning technology uses both rain and UV light from the sun to efficiently combat dirt and grime that accumulates on the outside of the window glass, resulting in the need for manual cleaning being significantly reduced. Self-cleaning glass provides the ideal solution to cleaning those hard-to-reach or dangerous areas leaving you with more time to relax and enjoy your conservatory.

Available in neutral and bronze.

# How to care for your REAL Aluminium

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.















