

UNILUX aluminium clad wood windows & doors



ALUMINIUM CLAD WOOD WINDOW & DOOR OVERVIEW





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UNILUX


One brand. One promise.

The only thing modern-day windows have in common with their "ancestors" is their name. Good carpentry work and appearance alone is no longer enough, because energy efficiency, safety, and functionality standards have increased dramatically to meet today customer needs.

That's why all UNILUX aluminium clad wood products are in-house developments, demonstrating an extraordinary degree of product intelligence and complex engineering.

To ensure these masterpieces are not just available to a select group of people, UNILUX produces them as series, enabling these unique aluminium clad wood products to be sold at prices which make top quality affordable.

UNILUX – where quality is at home



All good things come in sixes:

The UNILUX brand advantages

Brand advantage 1: Durability

Ever since its early days, UNILUX has always used the highest-quality materials. Down to the finest detail: instead of the inferior silicon, we use smooth glazing seals made from synthetic rubber. The high-quality workmanship and strict quality controls ensure you gain long-term enjoyment from your UNILUX window.

Brand advantage 2: Freedom of design

Tastes are subjective. That's why you can choose from three designs (LivingLine, ModernLine, DesignLine), five fine woods (pine, oak, alder, larch and exotic wood), 187 wood finishes, 2,132 different aluminium colors/patterns, 34 handles and several double-pane and triple-pane glass types. And let's not forget: the most diverse window shapes (they don't always have to be square), and, upon request, true divided, simulated divided and internal grids in various sizes and styles.

Brand advantage 3: Energy efficiency

UNILUX's solid construction style not only guarantees durability, but also help save energy. Each of our aluminium clad wood products has state-of the-art „warm-edge“ spacers between the glass panes, ensuring better thermal values, greater comfort near the window, and significantly reduced condensation build-up during colder months. Heating costs can be further reduced through highly efficient triple-pane glass with a thickness of at least 1½"/40 mm (SuperThermo3, UltraThermo3, ThermoWhite3).





Brand advantage 4: Safety

Sometimes a window's job is not just to keep out wind and rain, but also uninvited guests. That's why all UNILUX locking parts are made from high-quality materials. Mushroom pins are also a standard feature of all our aluminium clad wood window fittings. For maximum protection, we offer the SAFE range (with the option of A1 laminated safety glass, DIN-certified by the German National Authority on Fire Arms and Ammunition) and special alarm systems.

Brand advantage 5: Service

UNILUX only works with expertly qualified window specialist retailers, located across the country with their own showrooms. Your regional UNILUX retailer will offer you detailed advice and assist you with your plans. It will also ensure prompt, correct installation, and will be available at any time if you have any service-related needs.

Brand advantage 6: Brand quality

Since 1955, UNILUX's philosophy has been: Only products of uncompromising quality must leave the factory. This saw our company become a recognised quality leader over the decades. Anyone who pays heed to the UNILUX logo can be certain of always receiving a "Made in Germany"-branded product.





ADVANTAGES OF ALUMINIUM CLAD WOOD

Aluminium on the outside
pure wood on the inside –
combined for generations

Wood creates comfort – it is a feel-good material.

Aluminium on the other hand, is a robust protective shield against the elements. Together, they form an aluminium clad wood product which lasts generations without the need for continuous maintenance.

The wood interior does not require UV protection in the form of colouring pigments in the finish. It can be used in its natural form (transparent stain) thanks to the aluminium shell.

The aluminium shield firmly encases the wood, protecting it from the elements while still giving room to expand and contract and cope perfectly with temperature fluctuations.

UNILUX aluminium clad wood products: The originals.

Aluminium Clad windows

Discover the world of UNILUX

PASSIV

fine print, no compromises, no exceptions.

On every UNILUX aluminium clad window you obtain a five house star no matter the type of design. DesignLine, ErgoLine or ModernLine, all series meet the stringent passive house windows criteria.

Five House Stars – built to save energy



HOUSE

UNILUX DesignLine 0.8

.8 The attractive way to save on energy costs (heating or cooling). The DesignLine aluminium clad wood window range combines architectural elegance and state-of-the-art energy efficiency. Uncompromising of aesthetics, it is designed for high-residential buildings and condominium

UNILUX DesignLine 0.7

.7 Energy savings at the highest level. Thermal value improves by 46% compared to a standard windows. This is made possible by a special impermeable core, triple-pane glass, "warm-edge" spacers, ded (invisible) low-e-coating and a total thickness of 17/8"/48 mm.



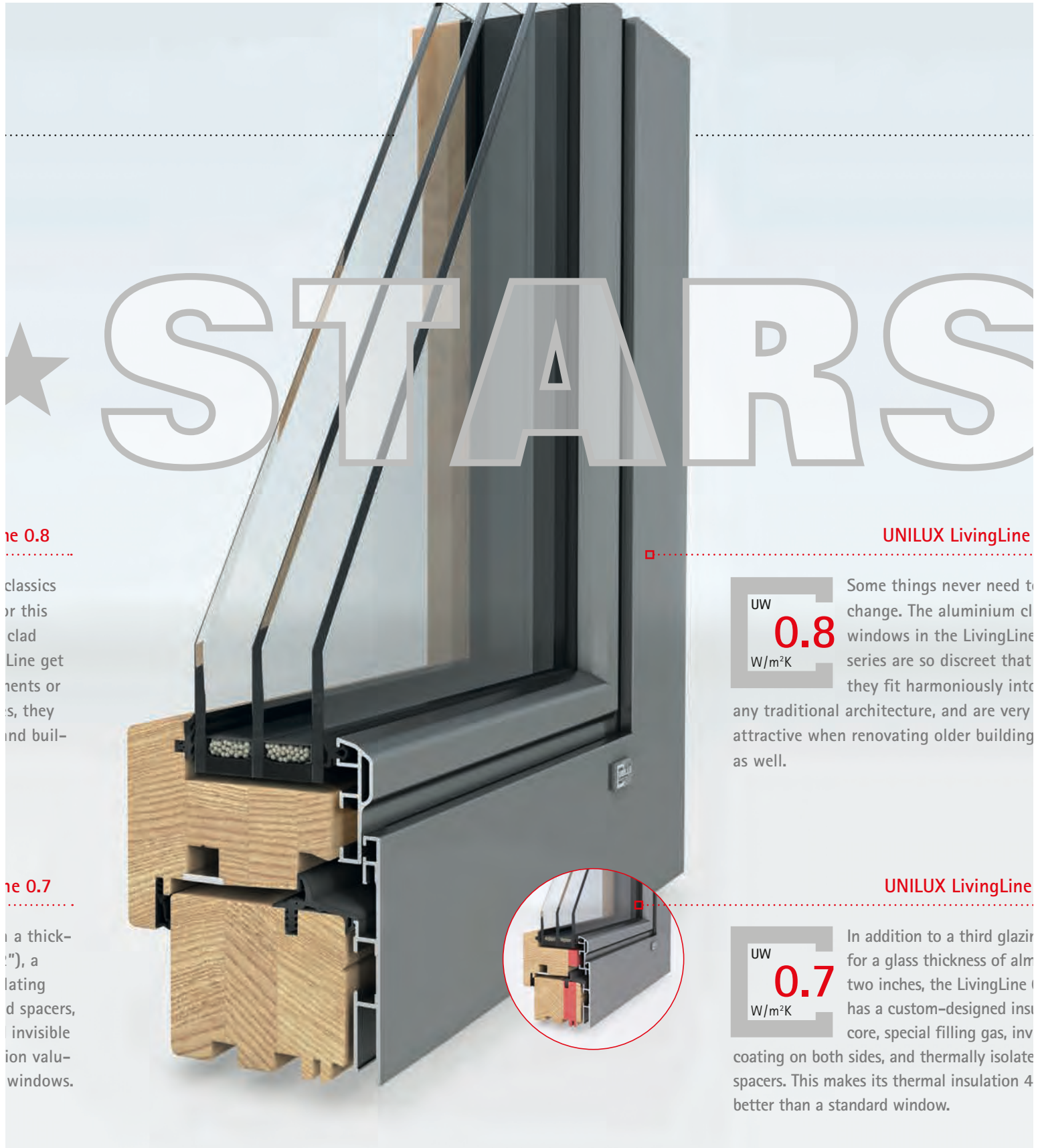
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UNILUX LivingLine

UW

0.8

W/m²K

Some things never need to change. The aluminium clad windows in the LivingLine series are so discreet that they fit harmoniously into any traditional architecture, and are very attractive when renovating older buildings as well.

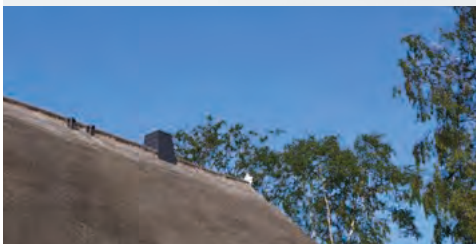
UNILUX LivingLine

UW

0.7

W/m²K

In addition to a third glazing for a glass thickness of almost two inches, the LivingLine has a custom-designed insulating core, special filling gas, invisible coating on both sides, and thermally isolating spacers. This makes its thermal insulation 40% better than a standard window.



The key-values of our PASSIVE HOUSE STARS

The secret of every Passive House Star is created by our encouraged engineers and developers. By affecting the smallest detail in construction they are able to reduce thermal loss.

The question 'How' can be seen in every window. Innovations that aren't even visible make the difference. The performance of our windows' design is what inspires our customers day by day and what makes us call them 'Stars'.



aluminium clad wood windows

DesignLine Privacy

My home is my castle." Just block the world out. Be undisturbed, footloose and fancy free. This is why you need the aluminium clad wood DesignLine Privacy window. Thanks to integrated blinds, you can have privacy at any time – even by remote control if you wish. Also save on energy compared to a roller-shutter or venetian blind box.



DesignLine Privacy Advantages on 5 levels

1. Privacy

Privacy could not be more easily achieved. Nothing has to be built, mounted or improvised. The blinds move easily, via remote control if required.

2. Peace and quiet

One or even four glass panes mounted some distance from one another enable unrivalled sound-proofing. Test it for yourself and pull the blind up: You'll see the cars but won't hear them.

3. Warmth

Roller-shutter or venetian-blind boxes are often energy guzzlers. Heat escapes and cold creeps in. DesignLine Privacy gets rid of this airlock. Since the blind is now part of the window, the boxes are no longer required.

4. Security

When it comes to glazing, UNILUX uses materials such as tempered or laminated safety glass, which is particularly resistant to impacts, effectively protecting against uninvited guests.

5. Freedom of design

The integrated blind – with your choice of color – offers you a wide range of possibilities. As you don't require shutters, curtains or separately mounted blinds, your freedom of design is greater than ever before.





more comfort.
tion to the standard chain cord, the
egrated into many windows can
perated by remote control from
ort of your sofa, armchair or bed.



UW
0.8
W/m²K

UNILUX DesignLine Private



aluminium clad wood windows frames or renovation

he smart way o renovate windows

ow renovation can be so easy! Thanks to the renovation window frame from UNILUX, replacing
lete windows is child's play. You don't even need to worry about plaster or wallpaper. Everything
done cleanly and quickly.

erperienced installers manage that by simply removing the sashes of your old windows and cutting
the frame. Then they already have the groundwork laid for your new wood-aluminum window.

can choose from all the many variants of a DesignLine window. And just like windows for new
struction, you have all the different options for design available. For custom windows at lightning
ed.

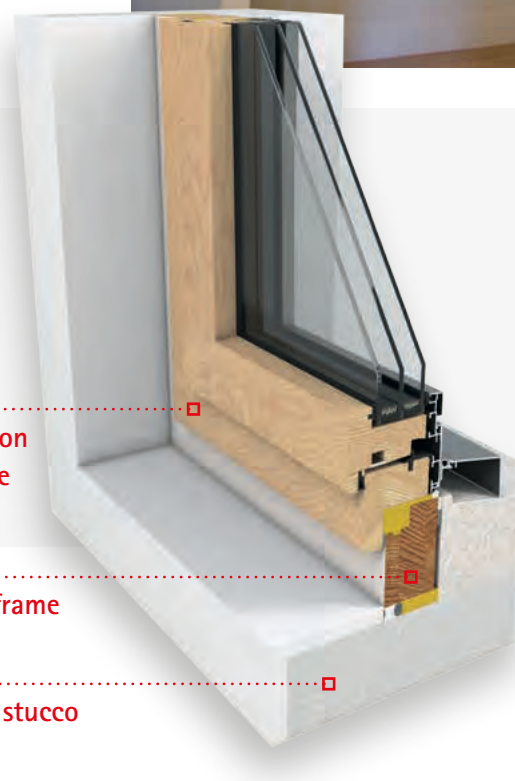
decisive factor: The skill of installers matches the high quality of our windows. So you can be
olutely certain that your energy-saving DesignLine window with renovation window frames will
e the same thermal insulation values as a DesignLine window in a new house. And plastering and
papering? They're just as much a thing of the past as masonry repair.

renovation window frame from UNILUX – new windows, without the stress.

new windows, no muss, no fuss.

in insertion into the old window frame leaves the masonry and stucco
ct, and interior plaster and wallpaper aren't affected either. Even an existing
ow sill can be cleanly integrated.

new window fits harmoniously into the existing window opening, from
the visual and technical points of view.



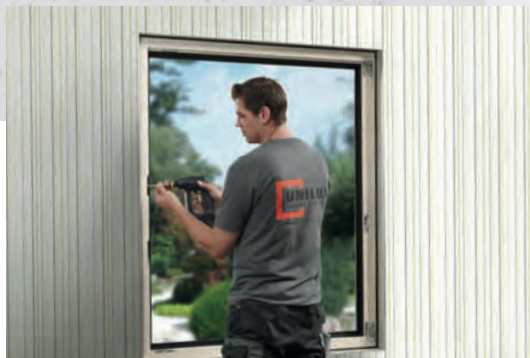
New renovation
window frame

Old window frame

Masonry and stucco

0.8

m²K



Quality as a standard: the basic UNILUX advantages

You know from buying cars, some models look cheap at first glance. But upon closer examination, they are incredulous at all the extras charged by the manufacturer.

It's not the case at UNILUX. Our basic features in themselves are so extensive, that there is often no need for accessories. Each of our standard aluminium clad wood windows has the following special features:

Sealing seal



Silicon may be cheap, but it fades easily, is hard to clean, and susceptible to cracks and abrasion. UNILUX uses the better alternative: synthetic rubber, which is easy to clean, fade-resistant, long-lasting and hardly noticeable.

Aluminium cladding slider couplings



Aluminium contracts or expands more than wood in cold or hot weather, creating tension on the frame. We prevent this from happening by mounting the aluminium cladding on slider couplings – similar to a rail system. This

also ensures the wood is properly ventilated at all times.

Superior-quality wood



Not all woods are the same. To guarantee a consistently high quality of materials, we use our own experienced wood purchasers, even in the most distant of supply countries. The same strict standards are applied during

selection – to ensure the wood has a long and healthy life.

Security



Every standard UNILUX aluminium clad wood window has a mushroom pin in its fittings, which greatly prevents the window from being pried open. All locking parts are also made from high-quality materials, providing added security.

Aluminium powder coating



"The exterior paint has chipped" is a phrase unfamiliar to UNILUX customers. Because our aluminium clad wood windows are made using aluminium powder coating, which has been tried and tested in the automotive industry. The

result is highly robust paintwork able to withstand even the harshest of elements.

Embedded (recessed) lock keepers



Impressive not only aesthetically, but also from a security perspective – due to being recessed compared to screwed-on locking parts.

And the window frames are also easy to clean due to the fact that

all the metal parts are recessed/embedded.



Extra perfect: the UNILUX optional advantage

Special circumstances require special solutions. That's why UNILUX offers exclusive added value when it comes to security, material protection and energy usage.

These additional benefits also give you the peace of mind of knowing you have the ultimate aluminium clad wood windows. Perfection, made by UNILUX.

Added security: SAFE



We offer special alarm system and SAFE ranges for maximum protection. SAFE II and SAFE III are an affordable and effective way of making things difficult for burglars. UNILUX provides the right solutions, from the

4-corner security locks - in which sturdy mushroom pins firmly grip the locking parts of all 4 corners of a window sash - to the A1 safety glass. For higher standards, there is also the EN 1627ff-certified security of resistance class 2.

Plus: Aneloxal coating



It's not just acid rain which can corrode metal. Salty air can also have aggressive negative impacts up to 6 miles/100 kilometers inland - including on stainless steel. Pre-anodising, the

"aneloxal" process - effectively prevents corrosion. We are one of the very few manufacturers to use this form of coating at customers' requests, thereby ensuring UNILUX aluminium clad wood windows remain a symbol of durability, even in coastal areas.

Extra warmth: Triple glazing



Triple-pane instead of dual-pane. The additional pane further improves thermal properties, thereby lowering energy costs, and as the triple-pane glass is between 1 1/2"/40mm and 1 7/8"/48mm thick, it can

also be effectively sound-proofed.

Solar gain: ThermoWhite3



A 3-pane insulated glazing option which does more than just keep the cold out. Thanks to a new, invisible Low-e coating, you can more intensively utilise the energy from the sun's rays.

More solar heat finds its way into the house. And this coating - combined with the argon gas fill - ensures it stays there.

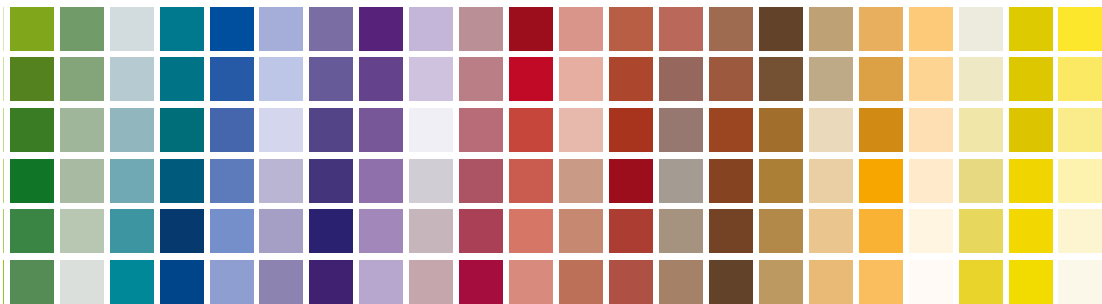


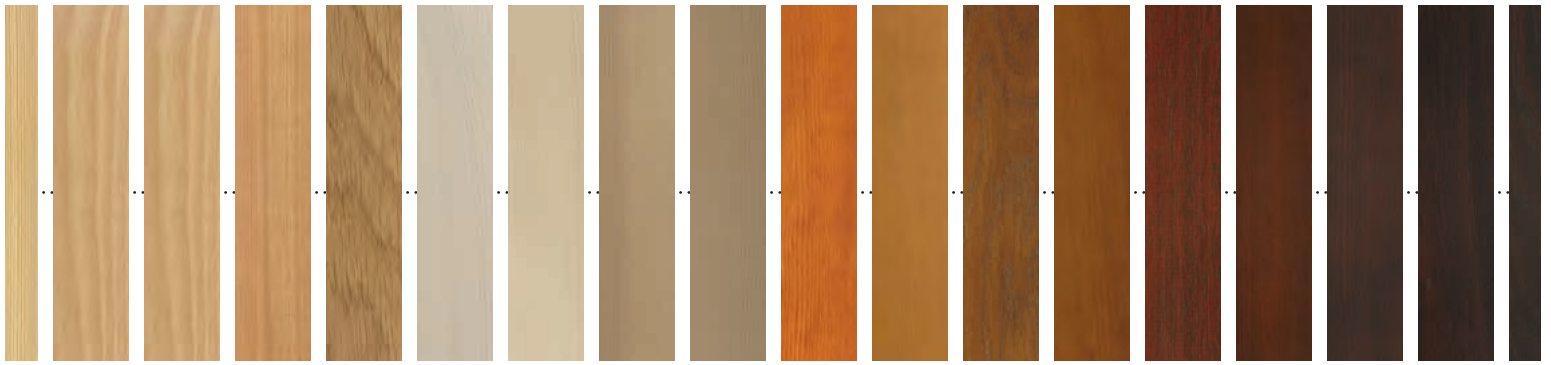
Freedom of design in terms of material and colour

How many different tastes are there? Around 2 million when it comes to wood and color. Because that's how many combination options you have for your individual UNILUX aluminium clad wood windows. Find out which wood species goes best with which color, and which pattern goes with the aluminium cladding.

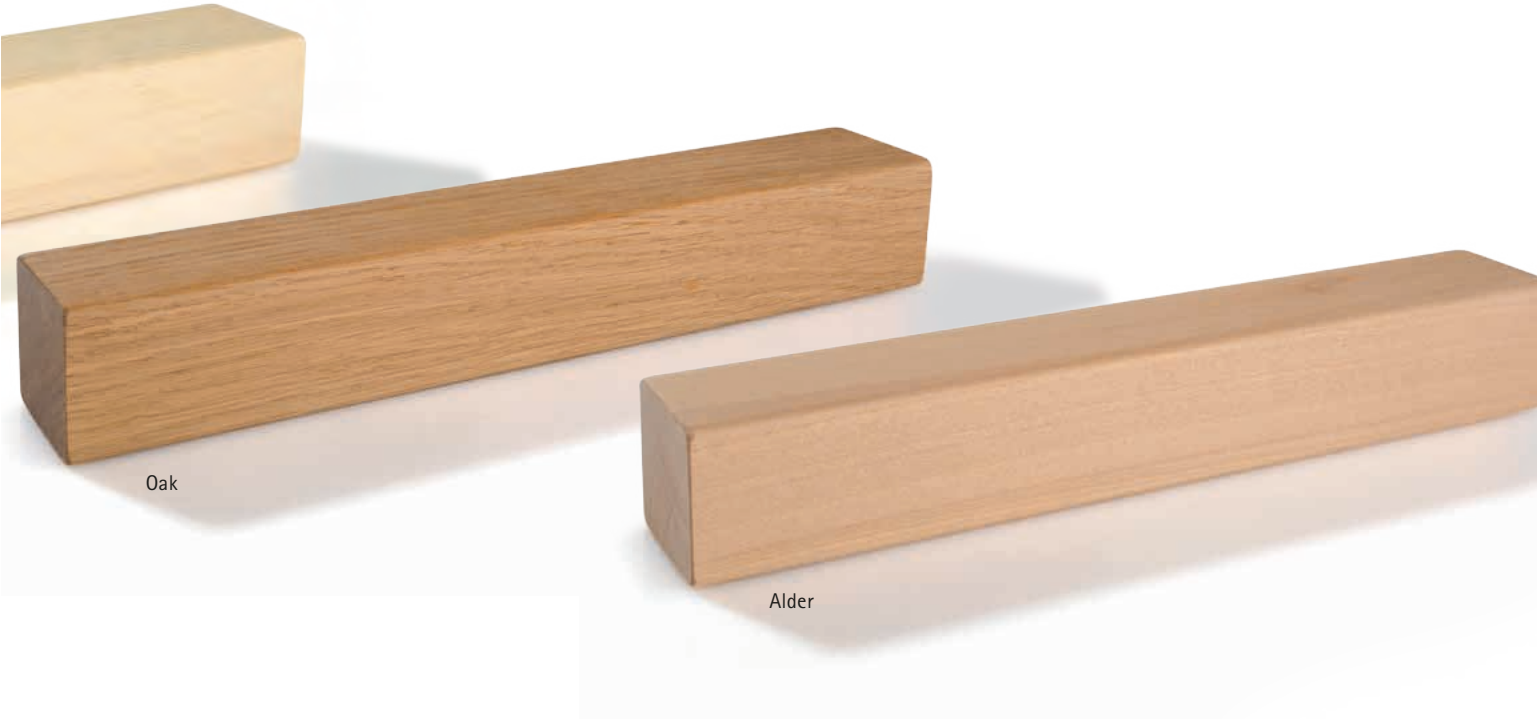


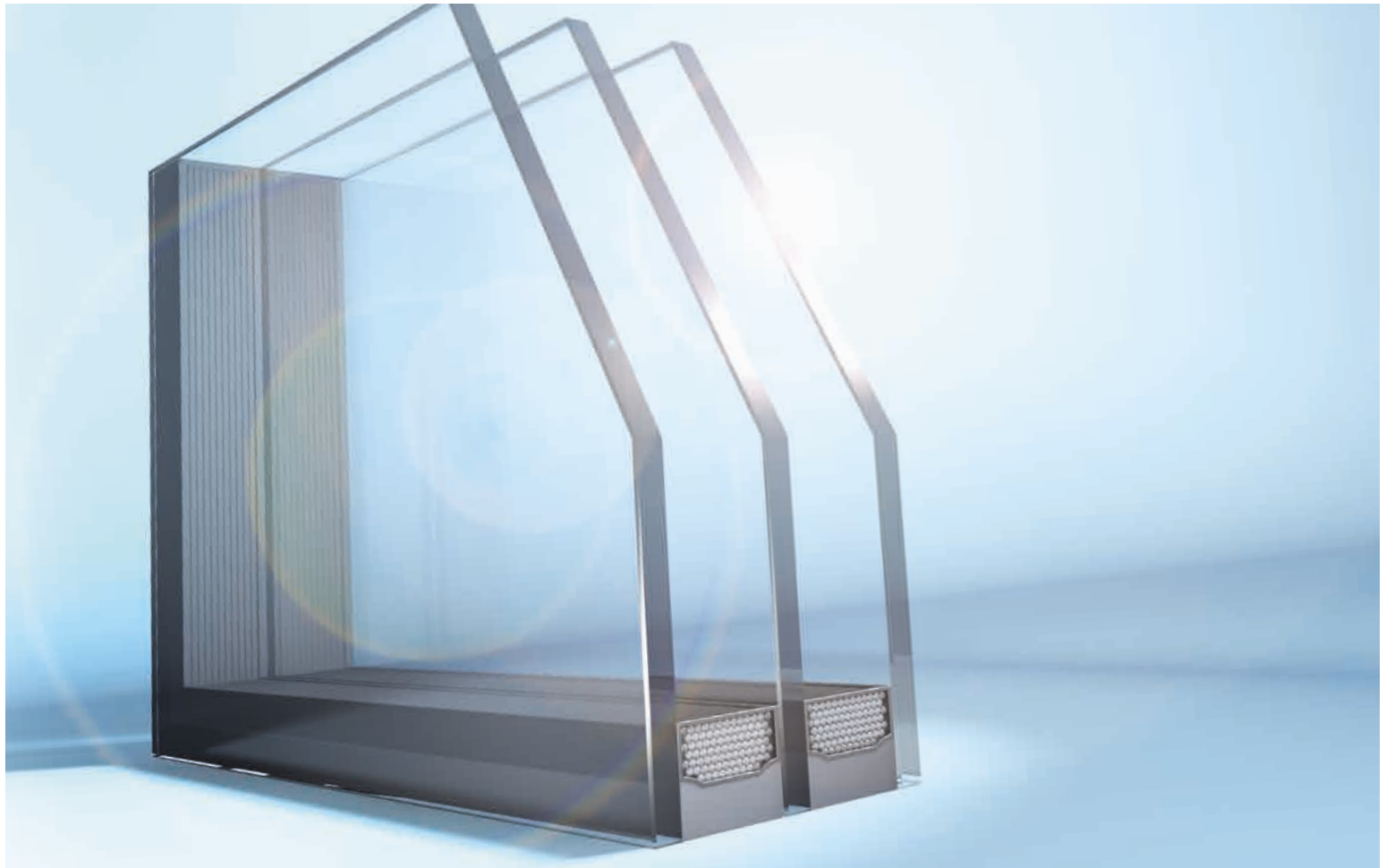
Choose from 5 wood species and 192 colors (167 RAL opaque colors and 25 finishes) for the internal design (the wood species and wood coating), while the outer design (aluminium cladding) offers even more options, allowing you to choose from over 2,100 colors and patterns (RAL, NCS, DB, metallic) (anodized aluminium coating) and white-pigment colors, as well as wood patterns).





se from the following wood species: Pine, oak, alder, larch and exotic wood, as well as 20 transparent or semi-transparent finishes.





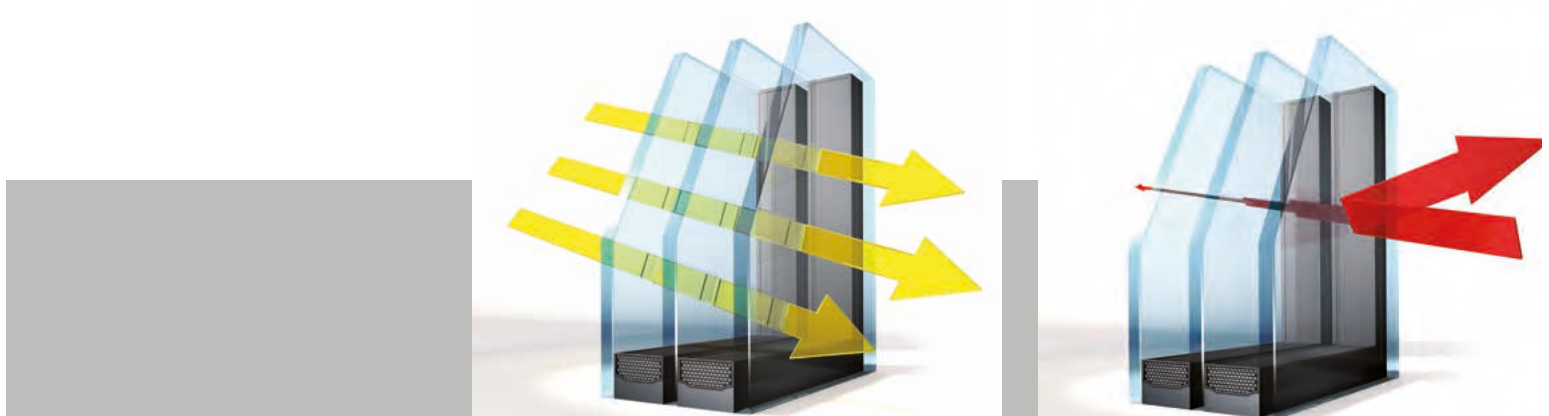
glass competence

Every UNILUX window has double-glazed insulating glass. Even this standard version achieves insulation values that are outstanding for any window. But that's not enough for our engineers and developers. For anybody who wants to get serious about thermal insulation, UNILUX also offers triple-glazed insulating glass in a number of varieties.

Your choice: for example, SuperThermo3, in which the additional layer of glass is barely noticeable in the exterior view. Or UltraThermo3, which uses argon/krypton gas filling to obtain sensational insulation values.

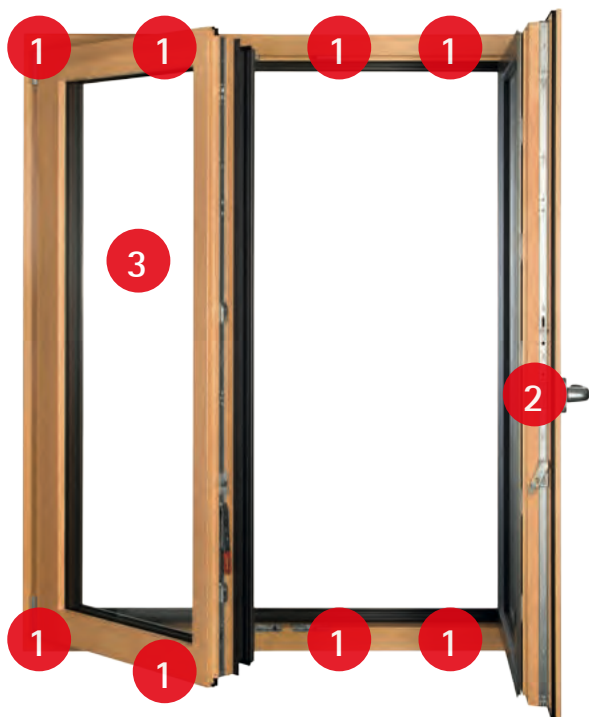
Or ThermoWhite3, which not only insulates, but actively makes use of the heat from incoming sunlight.

Whatever you decide, every UNILUX window is an example of groundbreaking glass competence.





UNILUX SAFE package: Make short work of burglars



SAFE means:

safety without compromise

Burglars are under time pressure. The harder we make their „work“, the faster they'll leave elsewhere. That's exactly the goal of our SAFE packages.

They make sure that a would-be burglar will think twice about trying your UNILUX wood-aluminum windows.

Clever blocking systems prevent potential thieves from being able to break the window open.

For the greatest possible security, we even offer A1 safety glass tested by the German National Authority on Firearms and Ammunition.

1 2

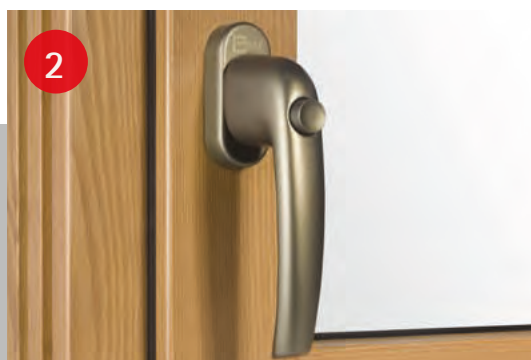
SAFE package II: The best protection against prybars, and crowbars. The four-corner mushroom interlock and a handle with a locking button make it effectively impossible to lever out and unlock window.

1 2 3

SAFE package III: The best protection against hammers, prybars, and crowbars. Because the SAFE package 3 not only has four-corner mushroom pin interlock and a handle with a locking button, but also has anti-vandal A1 safety glass (double-glazed insulating glass).

1 3

RC2 package: Anti-vandal effectiveness tested in an independent laboratory for compliance with EN 1627-30 Resistance Class 2 for special safety needs. The RC2 window includes a surrounding mushroom pin interlock, a lockable window handle, anti-vandal A3 safety glass, and the panes are fixed to the frame. Available for LivingLine, ModernLine, and DesignLine in variants 0.8 and 0.7 as well as DesignLine Privacy. Your UNILUX retail partner will be happy to explain the feasible elements to you.



ardless variety of shapes

re are practically no limits when selecting the shape of your aluminium clad wood
dows. Triangular or circular window? Sectional or semicircular arch? With or without
or TDL bars? Your specialised UNILUX trade partner will show you what's possible.



handle on design

gn you can grab: Every UNILUX handle is not only a solid piece of "Made in Germany"
kmanship, but also a visual gem. A tool enabling you to express your taste and style.



ndard handle
er colors

Standard handle
steel colors

Standard handle
bronze colors

Standard handle
white

Stainless steel handle
angular shape

Stainless steel handle
L-shape

Stainless steel handle
U-shape



hades and screens

There are different options for protection from intensive sunlight and curious eyes. Whether classical roller shutter, elegant Venetian blinds, or traditional aluminum shutters, UNILUX offers you your individual shade and screen solution. By the way, we also have a few good recipes against insects, too.



Venetian blinds



Blindingly bright or pitch dark? Venetian blinds give you many more nuances than that. They can control incoming light on a continuous basis. The strips, with their adjustable tilt, allow you to determine exactly how much sunlight you let into your rooms. And the Venetian blind also has an excellent visual appearance.

Roller shutter



When it comes to blocking out light, roller shutters have been the benchmark forever. No wonder they're preferred for use in bedrooms. And since the box appearance is the same as for our Venetian blinds, you can combine UNILUX roller shutters and Venetian blinds together harmoniously.

Shutters



There are things that trends and fashion simply can't change. Because their beauty is timeless. UNILUX shutters add value to any country home or city villa. And since they're made of aluminum, they have no problem fending off rain and storm. For life-long pleasure in comfortable aesthetics.

Insect protection



It's not just in bedrooms that insects are a bother. Biting flies and wasps can rob your enjoyment of the fresh air. So you can still air out without the worries, there are special clamping frames and rotating doors. You can easily mount these insect screens yourself. Comfort is so easy.

Every house facade is different. That's why UNILUX lets you select from different box variants when it comes to privacy protection.

For new construction we recommend plaster variants, because roller shutters or Venetian blinds are then integrated into the external stucco. There is no break in the masonry in this case – no bridge, meaning less energy consumption.

Good to know: For boxes with exterior service access, you can put up wallpaper inside with no worries – the visually bothersome access-cover disappears.



Contour roller shutter

Reduced design through edged visuals

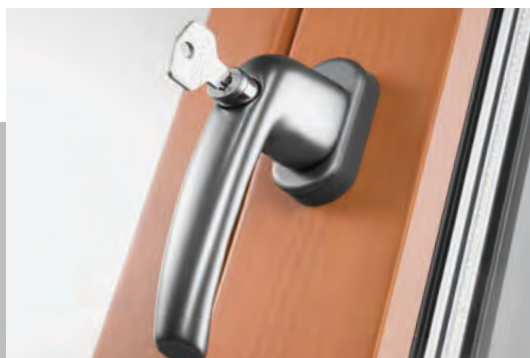


Round roller shutter

Round visuals, specifically eye-catching



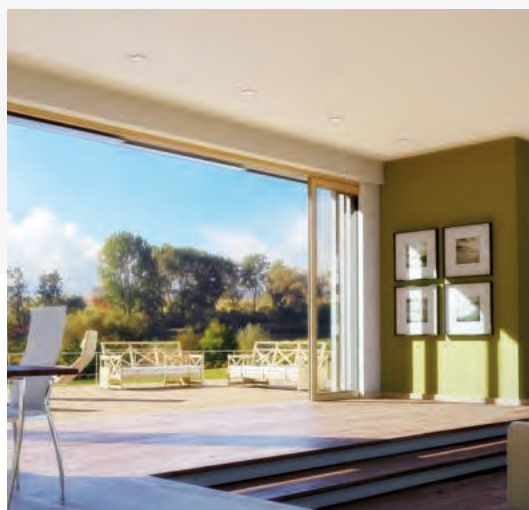
Plaster variant
Behind the shutter, nearly invisible



he unique UNILUX

MAXXI

GALLERY



GLASS

for unlimited vision and new spheres of experience



Full-glass corner window

OpenView

dream which comes true.

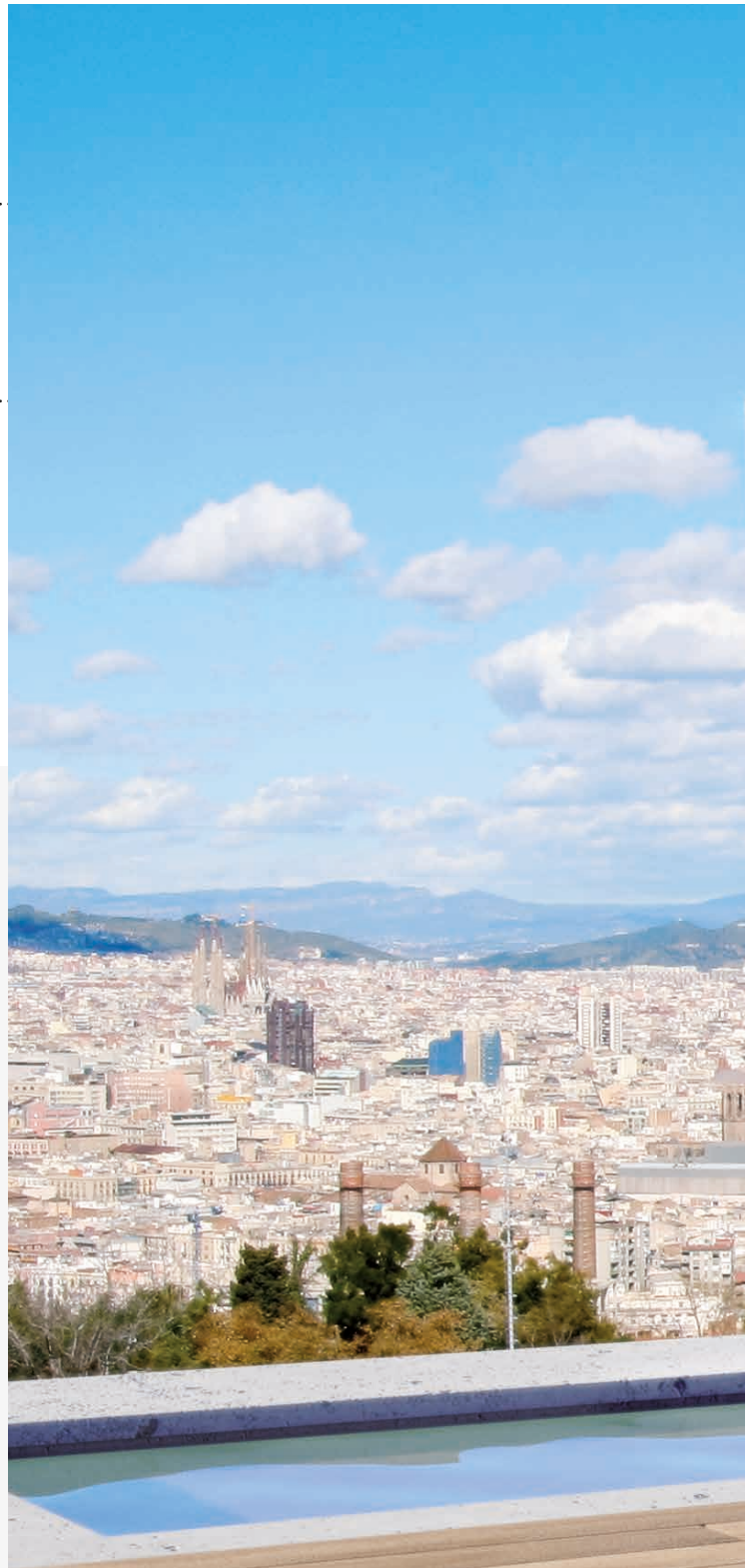
OpenView allows you to gaze far into the distance – without any interfering window frames in the corner. Uninterrupted views for as far as the eye can see.

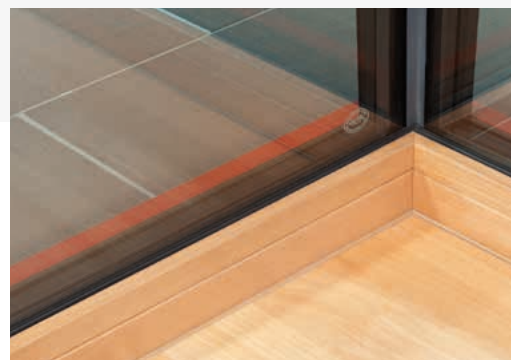
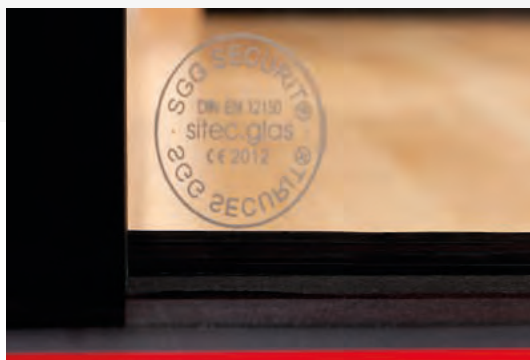
Technical masterpiece

Completely transparent, but based on a sophisticated UNILUX structure. The two conjoined symmetrical bevel-edge glass panes contain invisible insulation which effectively minimises condensation build-up. The thin strip distinguishing the glass corner is made from high-quality enamelling which looks like it is crushed in glass, meaning only a shadow gap is visible. Typical UNILUX – the mastering down to the finest detail.

Freedom of design

Whether as a strip of tall windows or a large glass field, OpenView adds value to modern, high-quality architecture. Of course, this impressive structural feature comes in a wide range of wood species, contours, wood colors and external finishes which blend in perfectly with the UNILUX aluminium-clad wood windows. It is also available with energy-saving triple-pane glass, upon request.





ft/Slide system

PocketDoor

disappearing door. The panels of the PocketDoor be fully slid into a pocket in the wall, rendering n invisible. This makes it possible to have up to 9 meter wide openings and over 269 sq ft/25 sqm n spaces – for maximum brightness and fascinating abilities for design.

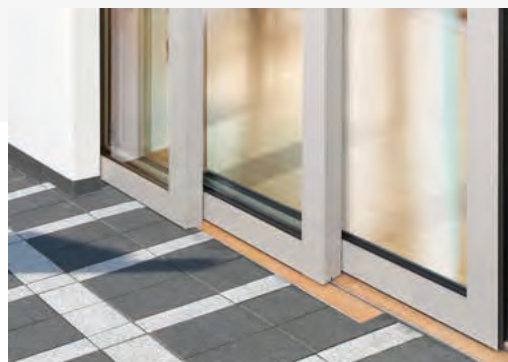
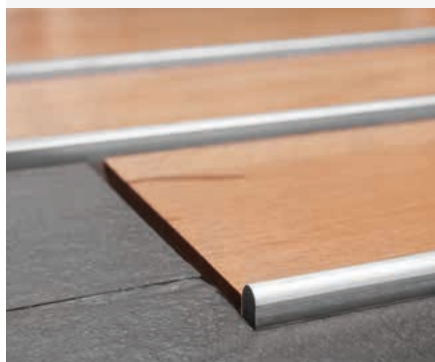
id transition

ack of a conventional threshold – there are only tiny, y noticeable tracks – means the interior and exterior ing can be seamlessly fit into one another, posing no acle when you walk in or out.

hitectural freedom

rend-setting PocketDoor was created for sophisti- d, state-of-the-art architecture. It stands for pure g elegance, tailored perfectly to the UNILUX alu- um clad wood windows. Also available with energy g triple-pane glass upon request.





ft/Slide system

IS

classic model in its most convenient form.

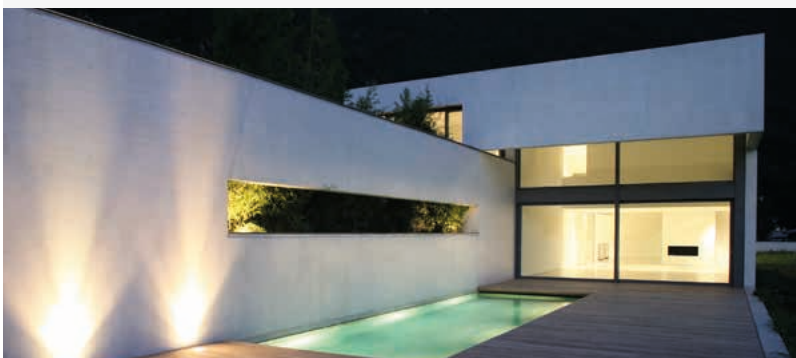
In the lift/slide system, you'll see how sliding becomes gliding. A simple panel movement creates an opening approximately 10'3 meter wide and 2.8 meter high.

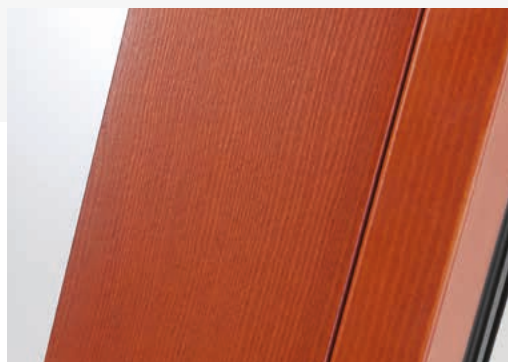
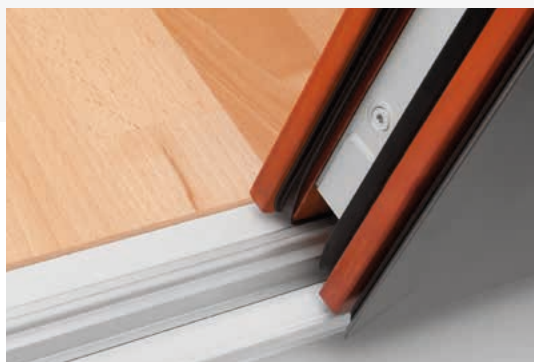
Exemplary craftsmanship

The lift/slide system perfectly demonstrates nature of UNILUX's products. High-quality hardware and solid constructions enable long-lasting elements which ensure optimum views and grand openings.

Freedom of design

On the eye: The lift -slide system comes in wood finishes, contours, wood colors and external colors which blend seamlessly into the UNILUX aluminium clad wood cladding. With energy saving triple-pane glass, upon request.





Bi-Fold (sliding-folding) system

Interior

There are no obstacles here. You don't need to move any plants or hard lamps, because the door panels fold outwards, creating an opening up to 25/7.7 meter wide and 9'/2.8 meter high.

A nice benefit: If you open the door after a rain shower, the water automatically drains to the outside – leaving everything inside.

Impeccable durability

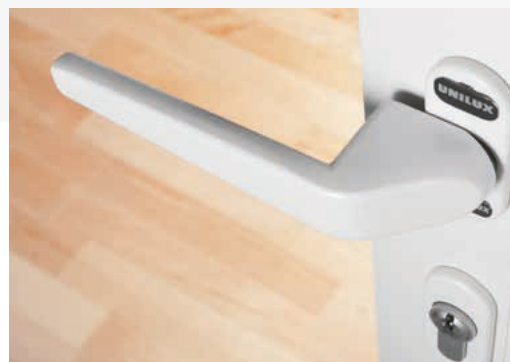
The bi-fold door perfectly demonstrates the stable and reliable nature of UNILUX's products. Aluminium is used as the base material and wood as the cladding, creating a high degree of rigidity in one element, in which everything fits perfectly together.

Freedom of design

On the eye: The bi-fold door comes in wood species, stains, wood colors and external colors which blend seamlessly into the UNILUX aluminium clad wood window line (including energy saving triple-pane glass).

The external handle can be matched to the unit's exterior color. And upon request, the bi-fold door is also available with embedded threshold.





façade system (Curtain Wall)

FineLine

name's the game. FineLine is distinguished by its slender yet solid post & beam construction. Its sophisticated connection technology allows tricky architectural tasks to be mastered with optimum quality.

Unparalleled strength

UNILUX only uses solid, laminated wood protected by weather-proof aluminium cladding, which also holds glass panes in place. These robust materials, as well as the sophisticated, invisible connection technology of posts and beams, ensure maximum stability even for façades extending beyond one floor.

Freedom of design

On the eye: The large glass areas enable personalised interior design.

The slender, elegant FineLine façade comes in a variety of wood species and colors, contours and aluminium interior colors, which blend seamlessly into the UNILUX aluminium clad wood window lines. Available with energy saving triple-pane glass, upon request.





Large-scale door

JumboLine

Large window elements are increasingly popular. It's not only when balcony doors can keep up. While the standard balcony door gives out after 2.60 meters (8'6"), our JumboLine balcony doors can manage heights of up to 3 meters (10'). The key are the innovative PowerHinge hinges, which can manage loads up to 300 kilograms.

Harmony in completion

Engineering and aesthetics make a harmonious couple. For example, the sash limiter which prevents the panel from excessive opening is only visible when the door is open. The structural glass and securely anchored hardware ensure maximum stability – the panel is easy to operate even after many years.

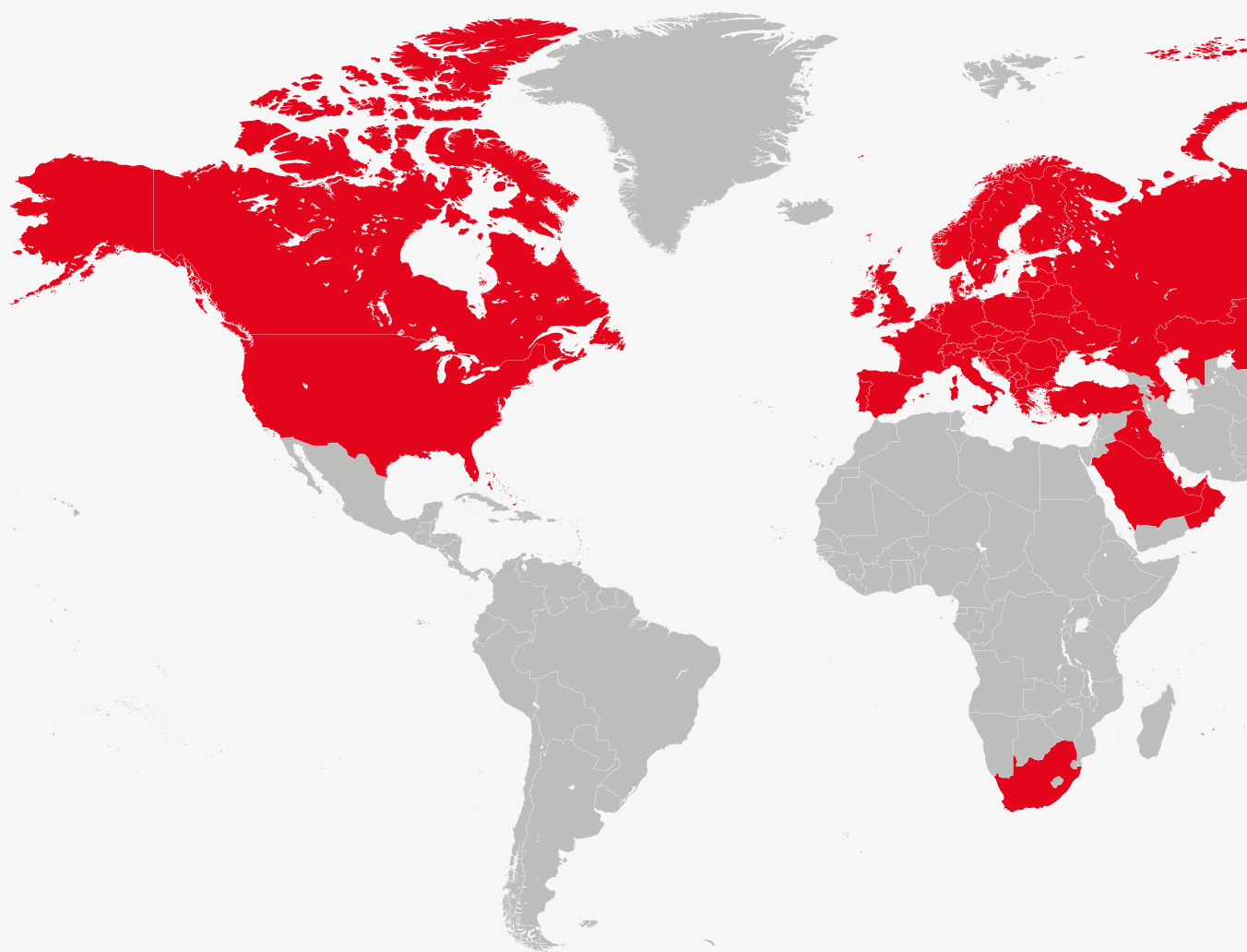
Seamless integration

JumboLine is available in all the aluminium claddings, aluminium colors, wood species and finishes of standard aluminium clad wood windows.





the reliability of a big name



.UX ensures award-winning long-term progress

- by selecting the right partners and raw-material suppliers, and by being a member of leading institutions and associations:



.UX products meet international test and safety standards:



HURRICANE TEST
Large Missile Impact and Cyclic Load
AAMA/WDMA/CAS ASTM E1886/E1996
TAS 201-203



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Executive Board: Alfred Meeth

Notes

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