










**YOUR WINDOW
TO A BETTER
WORLD**



KÖMMERLING®



KÖMMERLING windows offer the following advantages :

-  Thermal insulation
-  Noise protection
-  Wind and water tightness
-  Security and impact resistance
-  Beautiful shapes and designs
-  Large colour range
-  Environmentally friendly window profiles

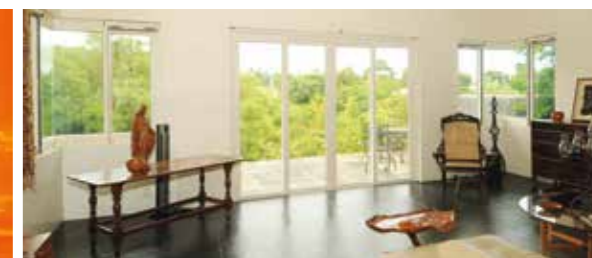
MORE QUALITY OF LIFE WITH NEW WINDOWS.

New windows bring more light into your home and increase your feeling of comfort and well-being.

If you install new windows and doors, you automatically increase your quality of life. One main reason is that they offer improved sound insulation, you live in quieter surroundings. New windows and doors can be equipped with antiburglary devices, and excellent thermal insulation and ventilation systems provide a comfortable room climate.

Innovative profile technology makes it possible to manufacture windows with larger panes and enhanced static stability from state-of-the-art functional glass. It makes optimum use of sunlight incidence to reduce heating costs, even when the outdoor temperature is cold. In addition air conditioning bills and energy consumption will be lowered thanks to the excellent thermal insulation values of your new windows and doors.

KÖMMERLING windows and doors will provide added value to your home, with all of the advantages of high performance in every aspect of window design.



On the following pages, you will learn more about the advantages of KÖMMERLING windows and doors.



PROTECT YOUR HOUSE.

Windows offering excellent Thermal Qualities.

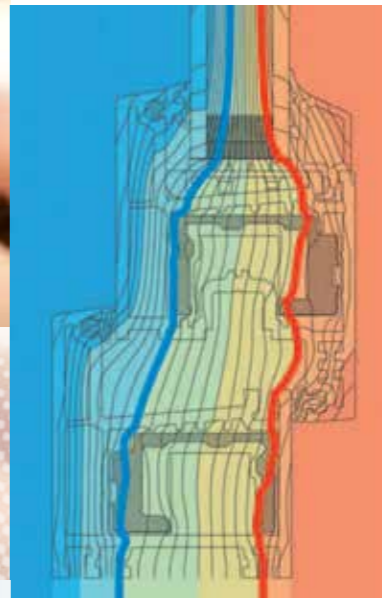
Save on energy costs and improve your quality of life. Nowadays, whether used for old or new buildings, windows are rated in terms of specific measurable construction and physical characteristics.

One particularly significant feature is their ability to protect you against heat. Inefficient windows are one of the main reasons why a building faces substandard insulation. KÖMMERLING windows, by contrast, not only help you to save money (because greater thermal insulation means reducing energy consumption for either cooling or warming of your house) but also contribute to reducing the harmful emissions polluting the environment.

Even very tough climatic conditions such as extreme temperatures or saltladen sea air cannot stop KÖMMERLING windows from doing their job. They don't even need time-consuming, labor-intensive care. Their long lifespan, dimensional stability and robust surface ensure that you will enjoy your KÖMMERLING windows for a long, long time.

Compliance with the new legislation :

The new national and European laws, in line with the Kyoto Protocol, are aimed at reducing CO2 emissions into the atmosphere. One way to do this is to reduce the energy costs associated with heating and cooling of buildings. So how do we do that? By improving the insulation systems for buildings. In that respect PVC-U has proved to be the ideal material for windows and doors and the best insulator to achieve this objective. For example, the values required by the European Standard ISO 100771 are as follows :



Thermograph of a window with KÖMMERLING profiles.

Frame material	Uf value [W/m²K] **
Aluminium	3.5 (60 mm)
Aluminium with thermal bridge	2.0 (60 mm)
Wood	1.5 (60 mm)
PVC-U	1.0 (76 mm)
PVC-U	1.3 (70 mm)

** The value U is a measurement of the insulating value of a material, being a reflection of the heat loss which is transferred through a unit. The lower the U Value, the greater the resistance to heat flow resulting in a better insulating value.



PROTECTION AGAINST NOISE FOR THE SAKE OF YOUR HEALTH.

Noise stress can be a major cause of illness. It not only damages one's hearing, it also leaves persistent marks on the human psyche. For many years, effective protection against undesired noise has not merely been a matter of comfort, but a decisive issue in health protection.

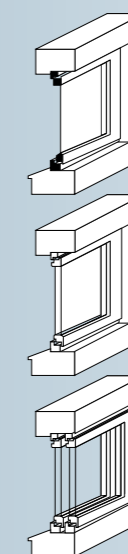
Since windows are – literally - the thinnest parts of a building's shell, they play a decisive role in the acoustic absorption values of your house. Especially in buildings located alongside roads with heavy traffic or in the close vicinity of airports, efficient noise insulation is a critical requirement.

The usual procedure in such locations is to install multi-pane insulated sealed glass units. Even better sound absorption values can be reached by using special composite laminated glass. The relationship between physically measurable noise levels and the way they are perceived by the human ear can be roughly summed up as follows : ambient noise made 10 dB quieter halves the human perception of this noise, 10 dB louder doubles this perception. Heavy traffic generates a noise level of around 75-80 dB.

By fitting KÖMMERLING windows combining highgrade, multichamber profiles and special insulating glass, you can reduce this noise by up to 45 dB, and thus only perceive 1/24 of the outdoor noise inside the house. Traffic noise is almost completely muted and calm is maintained. Even around major airports, sleep will no longer be disrupted thanks to this noise reduction technology.



The insulation requirement for the window depends on the use of the building and the level of outside noise (a moderate reduction in noise intensity will be perceived as a major reduction in the sensation of noise). Windows installed with KÖMMERLING profiles result in reductions of up to 45 dB, depending on the type of glazing used.



Reduction by 10 dB(A) :
Sensation 1/2 of previous noise

Reduction by 30 dB(A) :
Sensation 1/8 of previous noise

Reduction by 50 dB(A) :
Sensation 1/32 of previous noise





MAXIMUM WATER TIGHTNESS AND WIND RESISTANCE.



Performance values of windows manufactured with KÖMMERLING profiles :

Air tightness	(the quantity of air which passes through a closed window or door) Classification EN 12207 : 2000 Test method : EN 1026 : 2000	Qualification 4 Maximum degree of air tightness
Water tightness	Classification EN 1207 : 2000 Test method : EN 12208 : 2000	Qualification E750 Maximum degree of water tightness
Wind resistance	(relative structural wind load resistance and deflection of the window) Classification EN 12210 : 2000 Test method : EN 1221 : 2000	Qualification C5 Maximum degree of structural wind load resistance

KÖMMERLING window and door systems have been successfully used in swimming pools, marine and ocean environments without deterioration of surface finish or performance.

Resistance to driving rain and joint tightness are major assets of KÖMMERLING window and door systems. KÖMMERLING profiles fulfil the requirements of EN 12207 : 2000 and EN 1207 : 2000 and of the Australian Standards AS 4420 and AS 2047. The windows are watertight up to 450 PA (N6).

Due to their excellent material properties, KÖMMERLING windows and doors are ideal for installation in buildings located in coastal areas. These areas typically have permanent exposure to strong wind, heavy rain and salty air. The windows have passed several severe tests designed by official institutions.

All window types are capable of withstanding the tests specified in AS 4420.2 and AS 4420.6 (rating N3 and N4). This makes KÖMMERLING windows and doors suitable for a wide range of applications and geographic locations.





WHEN IT COMES TO WINDOWS – PLAY SAFE !

The number of break-ins is constantly increasing.

Burglars usually find their way in via the windows – even during daytime. To make things as difficult as possible for such unwelcome “guests”, you should play safe – especially with windows.



You can achieve very effective protection against such unpleasant surprises thanks to KÖMMERLING window profiles. KÖMMERLING sashes and frames are made of stable, highly impact-resistant multi-chamber PVC-U profiles with integrated steel reinforcement.

Highly effective security hardware combined with special glass provide the maximum achievable security for your windows. In addition, lockable handles are available and also a great choice for households with small children.



Beautiful Windows

WINDOW SHAPES AND STYLES.

A window is not necessarily rectangular and has one or two sashes. In fact there is a vast variety of window shapes and designs.

The design possibilities vary from straight, classic forms over round arches, triangles to trapezoid or entirely circular windows. With these possibilities at hand, windows can almost be placed everywhere: In modern façades, historical buildings or in small surroundings such as roof gables.

Apart from their geometrical shapes, windows vary in their types of opening, e.g. tilt and turn windows, outward-opening, horizontally and vertically sliding windows. With these options and styles, it is possible to find a window solution for every situation.





DO YOU WANT TO SET NEW TRENDS IN COLOUR?

In the past, white window profiles dominated in architecture. However, this uniform aspect has been changing, and more and more architects are putting an emphasis on coloured window profiles when it comes to design a façade. KÖMMERLING windows are available in a range of RAL and special colours.

There is also a range of woodgrain surfaces for KÖMMERLING windows, imitating the natural look of timber. With this option, you can have the look and feel of soft warm timber with all of the advantages of high performance windows but without all of the maintenance hassles!

There is a variety of different woodgrain surfaces and colour shades available.

Window shapes for old and new buildings.

Whether for the renovation of old, historic building façades or a new design of groundbreaking modern architecture, the window solution must fit its respective style. KÖMMERLING systems are always flexible and can be customised to implement the ideas of architects and planners. The end result is a successful façade with sophisticated design.



Classic white.

Now as before, the elegant window in white enjoys unparalleled popularity. The window profiles present a smooth, glossy surface of durable visual appeal that is easy to clean.



Aluminium covers.

An almost unlimited range of colours offer finishing techniques on the aluminium covers such as powder coating or anodising.



Excerpt from the colour range

Plain colour foiling.

Available in a range of colours, the finish is visually convincing of an elegant, velvety surface texture. Its touch is pleasant and it is also easy to clean. You also have the option of a single colour both sides or colour outside and white inside. You no longer have to compromise on the look inside your home.



Excerpt from the colour range

Woodgrain foiling.

You have the choice between woodgrain on the outside paired with a neutral white on the inside or woodgrain both in and out. You can match your window to your interior equipment or to allow it to look nearly invisible. Additionally, lamination creates the look of a particularly fine surface.

- Classic white.
- Attractive woodgrains or plain colours on the outside and white on the inside, or laminated on both sides.
- Aluminium covers for an almost unlimited variety of colours.



With a good conscience.

Sustainability means to take over responsibility in an economic, ecological and social respect.



greenline stands for an environmentally friendly lead-free stabiliser of the PVC-U profile.



greenline stands for the use of recycled material. A completely closed material circle can be achieved, maintaining the same high quality level.



greenline stands for window systems with a high thermal insulation, contributing to saving energy costs (heating and air conditioning) and reducing the CO₂ emission.

Furthermore, KÖMMERLING PVC-U windows are low in maintenance and do not require painting. Thanks to antibacterial and antifungicid properties of the material, they are ideal for allergic persons and therefore are frequently installed in hospitals, clinics, day-care nurseries and homes for the elderly.

greenline 



SUSTAINABILITY IS MORE THAN MERE PROTECTION OF THE ENVIRONMENT.



The start of a whole new era in window manufacture.

greenline is a lead-free stabiliser included in our PVC-U formula to provide high-quality window profiles that meet tomorrow's environmental standards already today. By choosing this advanced generation of PVC-U windows, you have also chosen to support a more environmentally friendly and sustainable material.

The Elegant Window and Door System.

C70 GOLD



As Europe's leading brand name for PVC-U window and door systems, KÖMMERLING understands what the homeowners require in terms of product quality, style and reliability.

Designed, manufactured and tested to the most stringent standards, the KÖMMERLING C70 Gold range is everything you want in a window system: Style, strength, security - and a window that's built to last. It offers consistent quality with endless variety: Outward-opening casements, tilt and turn, residential, French and folding doors are available.

Equipped with the aluminium cover "AluClip", C70 Gold provides the best of two materials: elegant aluminium design in an almost unlimited range of colours, and optimum thermal and sound insulation values of the PVC-U system.

All KÖMMERLING window profiles are steel-reinforced for maximum strength, security and durability. The profiles made of highly impact - modified PVC are built to last, with mechanically jointed or welded mullions and transoms.

Comfort and style are enhanced by superb engineering design. Slim yet strong profiles combined with attractive styling give the system a sophisticated view and create an even slimmer appearance.



Advantages of the C70 Gold System:

- Ideal for 6 star houses (Australia)
- 5-chamber profile for optimum thermal and sound insulating performance
- Lead free stabilised material
- Elegant design
- Gaskets with low sight-lines
- Internally glazed for security and ease of installation
- Accepts full range of glazing beads to suit 6 - 36 mm glass thickness
- Steel reinforcement for maximum structural performance, security and durability
- Complete range of ancillary profiles
- Easy-care, durable and long-lasting



The Door to a New Dimension :

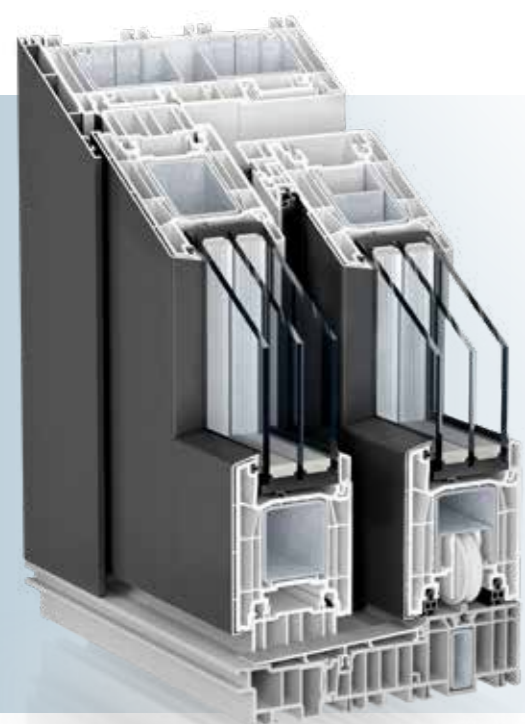
PREMIDOOR.

The Perfect Balance of Aesthetics and Functionality.

Living in the country independently of the weather - a wish every homeowner has. PremiDoor, the lift/sliding door from KÖMMERLING, lets you design very large openings, e.g. for the garden and terrace, just as you want for the maximum light. Your home opens into the garden, your terrace becomes your home.

PremiDoor from KÖMMERLING is a genuine premium product. Its appeal lies in its lean design look, its timeless character, and its technical features. Maximum values for thermal and sound insulation, stability, and weather tightness are just as natural as reliable functioning with high user comfort.

Many design variants and unusual dimensions - with sashes up to 3.0 m wide and 2.5 m high - give you the best prerequisites for your individualised architecture. Multiple sash opening options provide enormous flexibility in your designs. The sliding elements pleasantly quiet and smooth running is an additional special hallmark of the PremiDoor.



Advantages of the PremiDoor System :

- **Reliable functionality, great handling ease**
- **Smooth and quiet running of the sliding sashes**
- **Extraordinary measurements : sash size up to 3.0 m wide and 2.5 m high**
- **Profiles of lead free rigid PVC-U stabilised with eco friendly calcium and zinc**
- **Outstanding thermal insulation. Threshold with thermal break for optimal isothermal properties**

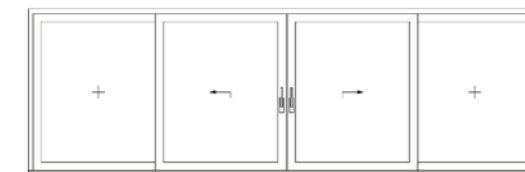
DESIGN VARIANTS :



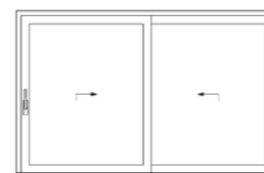
two-part element with lift/sliding sash and fixed glazing



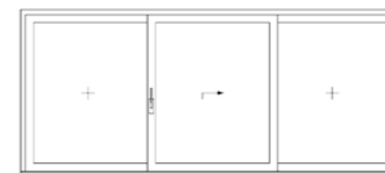
three-part element with two lift/sliding sashes and fixed glazing



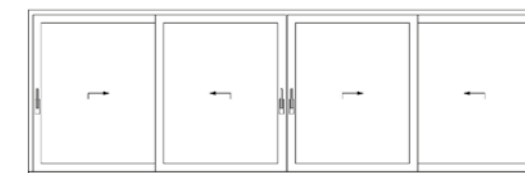
four-part element with two lift/sliding sashes and two fixed panes



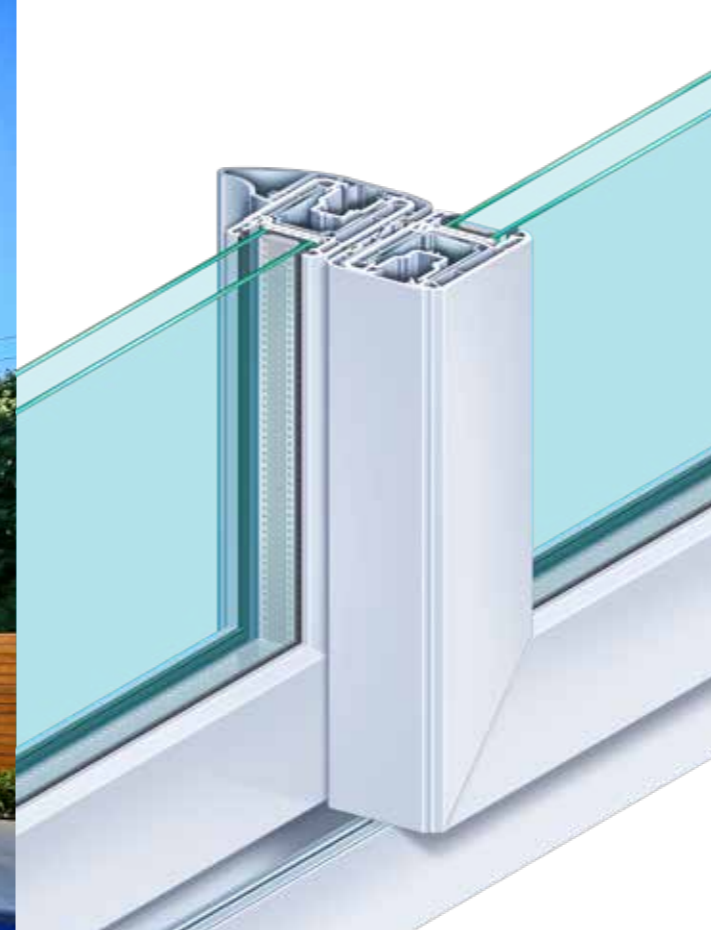
two-part element with two lift/sliding sashes



three-part element with lift/sliding sash and two fixed panes

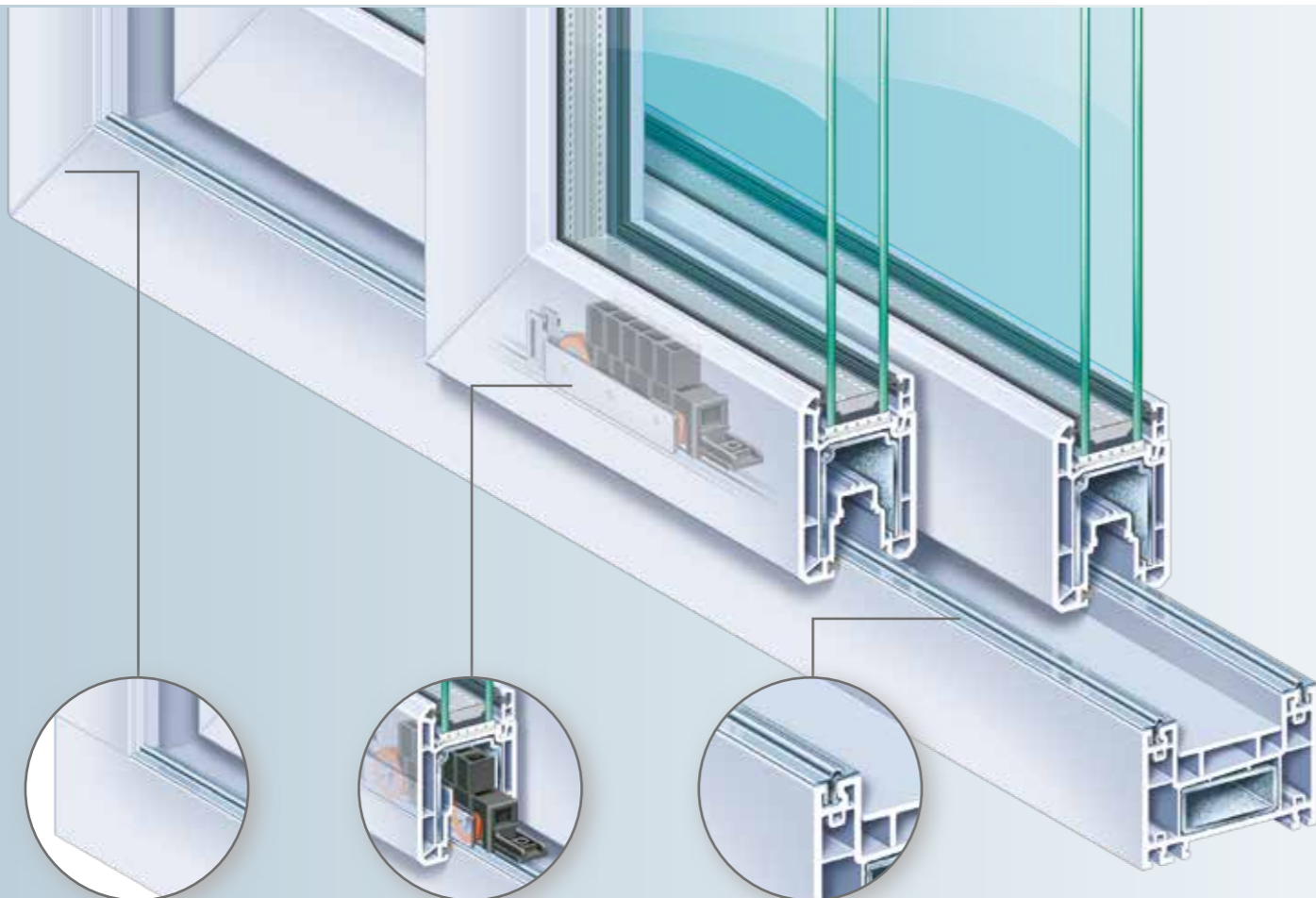


four-part element with four lift/sliding sashes



PremiLine – open to many possibilities.

- **Design**
Distinctive, double chamfered sash profiles.
- **Transparency**
There are many possible glazing types to choose from. And of course, divided sliding elements can also be fitted with Georgian bars. Special functional glazing is possible with panes up to 28 mm thick.
- **Matching look**
Besides white, PremiLine is also available in laminated designs. You can choose between wood grain and plain colour on the outside – with neutral white on the inside – or wood grain on the outside and inside.



Profile corners also with straight connections

Thanks to rollers of special rigid PVC, the system promises exceptional quiet running and ease of operation.

Tracks of high quality stainless steel for maximum service life

Your comfortable sliding system.

PREMILINE.

Quiet. Long lived. Safe.

There are many kinds of comfort. With PremiLine, the new, exceptionally quiet sliding system you'll learn a few more.

Comfort has many faces, for instance when a PremiLine sliding system is opened and closed. Its precision fits make it extremely quiet and easy to use. Even with large glazed areas, the PremiLine profiles ensure that the sliding elements move in near perfect silence, a result of the window and door sashes' high stability.

Thanks to the excellent static properties of the underlying design, PremiLine sliding elements also provide a high level of security. And because PremiLine sliding elements also exhibit particularly long service lives, you can safely lean back and now enjoy more comfort when your PremiLine sliding elements run on high quality stainless steel tracks – Quiet. Long lived. Safe.

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